

SOUTH RIVER TRAIN STATION BUILDING RESTORATION - PHASE 1

OTTAWA AVENUE, SOUTH RIVER, ONTARIO

ISSUED FOR PERMIT & TENDER

DRAWING INDEX

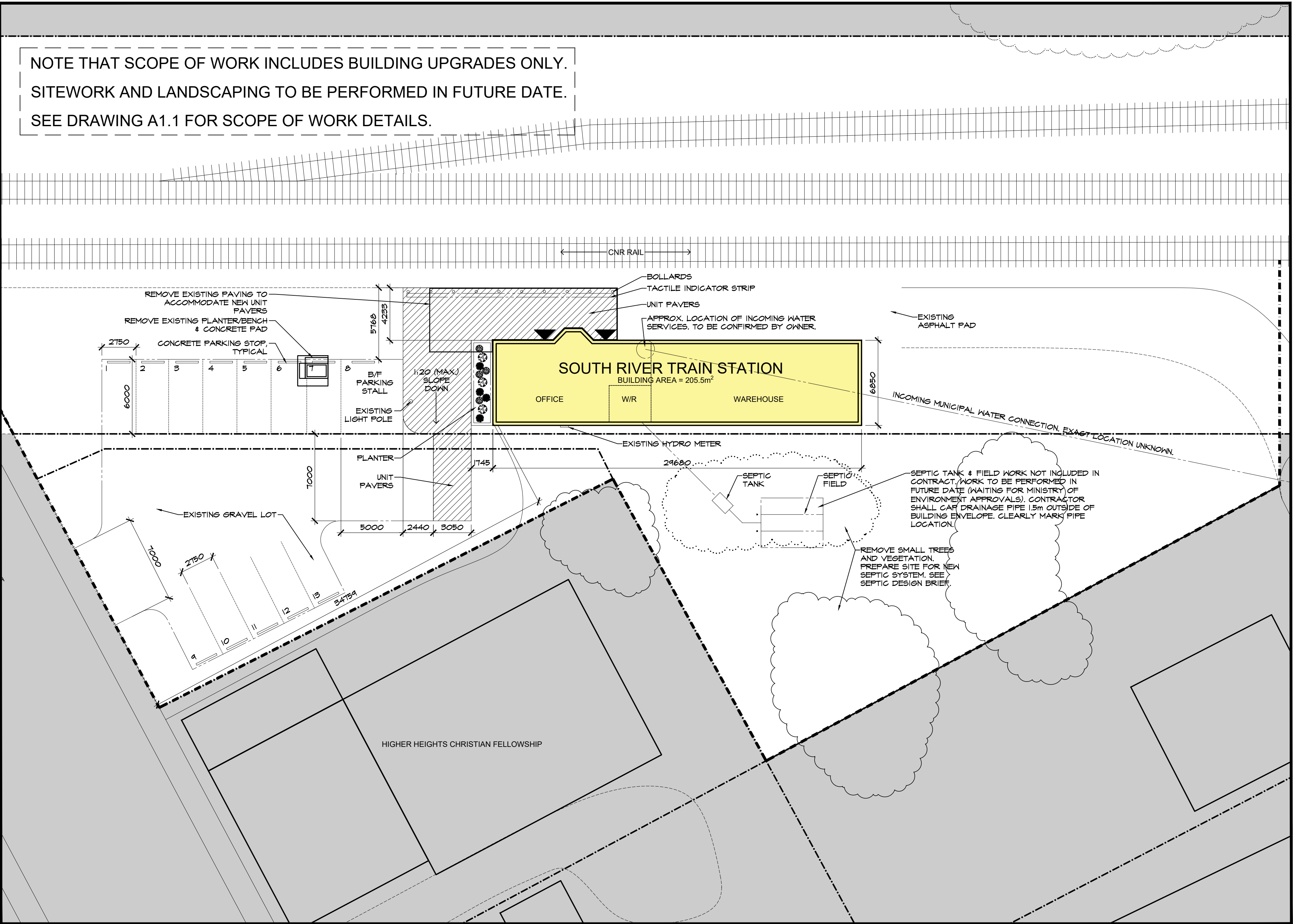
ARCHITECTURAL

- A0.0 COVER SHEET & SITE PLAN
- A0.1 GENERAL INFO & OBC MATRIX
- A1.1 FLOOR PLAN - EXISTING & DEMO
- A1.2 FLOOR PLAN - NEW
- A1.3 REFLECTED CEILING PLAN
- A1.4 ROOF PLAN
- A2.1 BUILDING SECTIONS
- A2.2 TYPICAL DETAILS
- A3.1 ELEVATIONS
- A3.2 WINDOW, DOOR, FRAME ELEVATIONS, SCHEDULES
- A4.1 SPECIFICATIONS

MECHANICAL & ELECTRICAL - SUPPA ENGINEERING

- M101 MECHANICAL - PLUMBING & VENTILATION - LEGEND, NOTES, SCHEDULES AND SPECS
- M102 MECHANICAL - PLUMBING & VENTILATION - FLOOR PLANS
- M103 MECHANICAL - PLUMBING & VENTILATION - DETAILS
- E101 ELECTRICAL - LEGEND, NOTES, SCHEDULES AND SPECIFICATION
- E102 ELECTRICAL - POWER AND LIGHTING - FLOOR PLANS

Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 4S5
tel: 705-472-0988 fax: 705-472-2486
www.bertrandwheeler.ca



1 SITE PLAN
A0.0 SCALE 1:200



Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

project:
SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

title:
TITLE SHEET
SITE PLAN

revision date:
Aug 10, 2023
ISSUED FOR PERMIT &
TENDER

project number:
2232

dwg no:

A0.0

LEGEND: DEMOLITION PLAN

AREA OF WORK/ EXTENT OF CONTRACT

EXISTING BUILDING ELEMENTS TO BE REMOVED / DEMOLISHED & DISPOSED.

EXISTING WALL TO REMAIN

EXISTING WALL TO BE OPENED FOR ENHANCED SOUND INSULATION REPAIR

EXISTING DOOR AND FRAME TO BE REMOVED & DISPOSED.

EXISTING DOOR AND FRAME TO REMAIN

RM #

RM NAME

ROOM NAME & NUMBER (DEMOLITION ROOM NAMES MAY NOT MATCH PROPOSED FLOOR PLANS. ROOM FINISH SCHEDULE REFLECTS PROPOSED FLOOR PLANS).

GENERAL SYMBOL LEGEND

1

2.02

PLAN

1:100

1

2.07

SHEET #

A

B

1/A6.02

DRAWING AND SHEET #

1

A4.09

SECTION DRAWING #

1

A4.09

SHEET #

LEGEND: FLOOR PLAN

EXISTING WALL TO REMAIN

EXISTING WALL TO REMAIN WITH CAVITY INSULATION ADDED

NEW FRAMED WALLS / PARTITIONS & FURRINGS. SEE PARTITION TYPE SCHEDULE.

NEW WALLS WITH BATT INSULATION. PROVIDE SOUND BATT FOR INTERIOR WALLS & MAINTAIN CONTINUITY OF BATT INSULATION AROUND ENTIRE ROOM WHERE INDICATED.

EXISTING DOOR AND FRAME TO REMAIN

D###

NEW DOOR & FRAME & DOOR IDENTIFICATION (SEE DOOR SCHEDULE & DOOR/FRAME ELEVATIONS).

RM #

RM NAME

ROOM NAME & NUMBER (SEE ROOM FINISH SCHEDULE).

P1

PARTITION / FURRING IDENTIFICATION TAG (SEE PARTITION / FURRING TYPE SCHEDULE).

BARRIER-FREE TURNING RADIUS (RADIUS VARIES)

LEGEND: ROOF PLAN

EXISTING BUILDING ELEMENTS BELOW ROOF LINE. WALLS TO REMAIN UNLESS OTHERWISE NOTED

ROOF SLOPE DIRECTION

EXISTING BUILDING ELEMENTS TO BE REMOVED / DEMOLISHED & DISPOSED.

GENERAL NOTES:

- DO NOT SCALE FROM THE DRAWINGS.
- READ ALL DRAWINGS IN CONJUNCTION WITH ALL SPECIFICATIONS, DRAWINGS AND DOCUMENTS FROM ALL CONSULTANTS. PROMPTLY NOTIFY THE CONSULTANT OF ANY CONCERNS OR QUESTIONS REGARDING CONFLICTS.
- PROMPTLY REPORT ALL DRAWING DISCREPANCIES TO THE CONSULTANT.
- ARCHITECTURAL CONTACT INFO:
MARCUS WHEELER
BERTRAND WHEELER ARCHITECTURE INC.
705-472-0488
MARCUS@BERTRANDWHEELER.CA
- OWNER CONTACT INFO:
DON MCARTHUR
CLERK-ADMINISTRATOR
THE VILLAGE OF SOUTH RIVER
CLERK@SOUTHRIVER.CA
(705) 386-2573 EXT 104

SCOPE OF WORK:

- SEE DRAWING A.1 FOR DETAILS.

BUILDING CODE NOTES:

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO BUILDING CODE / REGULATIONS AND LOCAL AUTHORITIES. OBTAIN THE BUILDING AND OCCUPANCY PERMITS AND ARRANGE ALL INSPECTIONS.
- THE BUILDER SHALL APPLY, ARRANGE AND PAY FOR THE BUILDING PERMIT.
- REFER ALSO TO OSC DATA MATRIX
- PROPOSED OVERALL BUILDING AREA IS AS INDICATED. NO ADDITIONS ARE PLANNED.
- OCCUPANCY(S) INCLUDE: GROUP D, PERSONAL SERVICES (PASSENGER RAIL STATION).
- EXISTING BUILDING IS A ONE STOREY RESIDENCE WITH OPEN GRAVEL SPACE.
- STRUCTURAL REHABILITATION HAS UNDERTAKEN WITHIN THE PAST 10 YEARS. STRUCTURE IS ASSUMED TO BE STABLE
- SEMI-HEATED ENERGY REQUIREMENTS.
0.1. ROOF: R20
0.2. WALLS (WOOD FRAMING): R15+R6ci
0.3. UNDERSLAB: NONE

SURVEY INFORMATION:

- NO OFFICIAL SURVEY HAS MADE AVAILABLE. SURVEY INFORMATION IS ESTIMATED FROM OWNER PROVIDED MAPS, TAX INFO AND AERIAL IMAGERY. THE FENCELINE SHOWN ON THE FLOOR PLAN IS ASSUMED TO BE THE ESTABLISHED PROPERTY LINE.
- EXISTING GRADE INFORMATION: LOCATIONS AND VALUES OF EXISTING GRADES ARE APPROXIMATE (+/-). ALL VALUES ARE RELATED TO THE EXISTING FLOOR LEVELS ARE ESTIMATED. CONFIRM MEASUREMENTS ON SITE PRIOR TO START OF WORK.

SOILS & GEOTECHNICAL INFO:

- SOIL BEARING CAPACITY HAS BEEN ASSUMED TO BE STABLE (100 KPA). CONTRACTOR SHALL VERIFY ON SITE.

HAZARDOUS MATERIALS:

- NO HAZARDOUS MATERIALS REPORT IS AVAILABLE FOR THE SITE. REPORT ALL SUSPICIOUS MATERIALS TO THE OWNER & CONSULTANT UPON AWARENESS.

CONSTRUCTION NOTES:

- CONTRACTOR TO COORDINATE ALL WORK, INCLUDING THE WORK OF ALL SUBTRADES AND SUBCONTRACTORS. COORDINATE ALL WORK SCHEDULES WITH OWNER PRIOR TO START.
- CHECK ALL DIMENSIONS PRIOR TO THE START OF WORK AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- SAFEGUARD ALL EXISTING STRUCTURES AFFECTED BY THIS CONTRACT.THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING SYSTEMS OF BUILDING ELEMENTS DURING CONSTRUCTION.
- ERECT TEMPORARY ENCLOSURES TO CONTAIN AND SECURE THE WORK AREA. PROVIDE SAFETY SIGNAGE AND BARRICADES AND SECURE WORK AREA TO LIMIT ACCESS.
- THE CONTRACTOR SHALL CHECK, VERIFY, LOCATE, PROVIDE AND REINFORCE AS NECESSARY ALL OPENINGS FOR MECHANICAL AND ELECTRICAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DISCARDED MATERIALS FROM THE SITE.
- PERFORM ALL WORK AND INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- MAKE GOOD ALL EXISTING AREAS DISTURBED BY NEW WORK TO MATCH EXISTING MATERIALS AND FINISHES UNLESS OTHERWISE NOTED.
- COORDINATE WORK TO AVOID DISRUPTIONS AND INCONVENIENCE TO OCCUPANTS. ENSURE SAFETY AND SAFE EGRESS AT ALL TIMES.
- MAINTAIN SITE SERVICES, ELECTRICAL AND WATERTIGHT STRUCTURE AT ALL TIMES.
- PERFORM WORK CONTINUOUSLY TO COMPLETION. NO PERIOD OF INACTIVITY WILL BE ACCEPTED
- OWNER SELECTION: COORDINATE ALL EQUIPMENT, FINISHES, COLOURS, ETC WITH OWNER PRIOR TO PURCHASING PRODUCTS.
- CAULK ALL GAPS BETWEEN DISSIMILAR MATERIALS AND FINISHES.
- PROVIDE ALL BLOCKING IN WALLS WHERE REQUIRED FOR ALL WALL MOUNTED ACCESSORIES/EQUIPMENT/HANDRAILS/FIXTURES AND CASWORK.
- PERFORM DAILY AND FINAL CLEANING.

WINDOW AND DOOR REPLACEMENTS:

- NEW WINDOWS AND DOORS ARE INTENDED TO BE REPLACEMENTS OF EXISTING, USING EXISTING OPENING SIZES. THE CONTRACTOR SHALL CONFIRM EXACT WINDOW SIZES ON SITE PRIOR TO ORDERING AND MANUFACTURING. SHOP DRAWINGS SHALL BE SUBMITTED USING CONFIRMED WINDOW SIZES.

DEMOLITION NOTES:

- EXISTING CONSTRUCTIONS CONSISTS PRIMARILY OF HISTORIC WOOD FRAMING WITH PIER FOUNDATIONS.
- CONTRACTOR SHALL PROTECT ALL STRUCTURES, ELEMENTS, AND ADJACENT AREAS FROM DAMAGE AND DUST DURING ENTIRE COURSE OF WORK.
- UNLESS OTHERWISE NOTED FOR SALVAGE, DISPOSE OF ALL CONSTRUCTION RELATED DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL STORE (ON SITE) ALL ITEMS NOTED FOR SALVAGE AS DIRECTED BY THE OWNER.
- LOCATE AND PROTECT UTILITIES (CALL BEFORE DIGGING). PRESERVE ACTIVE UTILITIES TRAVERSING SITE IN OPERATING CONDITION. NOTIFY AND OBTAIN APPROVAL OF UTILITY COMPANIES BEFORE STARTING DEMOLITION.
- DO NOT SELL, BURN OR CONCEAL CONSTRUCTION MATERIALS ON SITE.
- IN ALL CIRCUMSTANCES ENSURE THAT DEMOLITION WORK DOES NOT ADVERSELY AFFECT ADJACENT WATERCOURSES, GROUNDWATER AND WILDLIFE, OR CONTRIBUTE TO EXCESS AIR AND NOISE POLLUTION.CLEANUP: UPON COMPLETION OF WORK, REMOVE DEBRIS, AND LEAVE WORK SITE CLEAN.

project:

SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

title:

GENERAL INFO & BUILDING CODE MATRIX

drawn by:

KD

checked by:

MBW

scale:

AS NOTED

project no:

2232

date plotted:

Aug 10, 2023

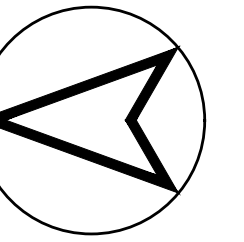
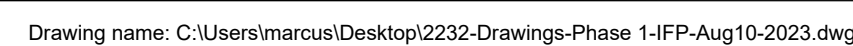
revision date:

Jun 28, 2023

dwg no:

A0.1

1. INCLUDES EXTERIOR WALL, BUILDING ENVELOPE, ATTIC AND INSULATION UPGRADES.
2. INLCUDES ALL ROOFING REPLACEMENT.
3. INCLUDES ALL DOOR AND WINDOW REPLACEMENT. PROVIDE ELECTRICAL AND CONTROLS FOR POWER DOOR OPERATORS.
4. INCLUDES ELECTRICAL (RE)DISTRIBUTION WITH EXTERIOR ELECTRICAL INCLUDED. PROVIDE CIRCUITRY FOR ANTICIPATED FUTURE WORK AS DIRECTED BY ELECTRICAL CONSULTANT. FUTURE WORK INCLUDES BASEBOARD HEATING, CEILING LIGHTING, INTERIOR POWER RECEPTACLES AND MECHANICAL HRV, HOT WATER TANK, AND POWER DOOR OPERATORS FOR FUTURE UNIVERSAL WASHROOM HARDWARE.
5. EXCLUDES INTERIOR CONSTRUCTION AND FINISHING WORK TO BE PERFORMED AT LATER DATE. PROTECT ALL INTERIOR FINISHES. SALVAGE AND ORGANIZE ALL DISTURBED WOOD TRIMS FOR FUTURE REINSTALLATION.
6. EXCLUDES ELECTRICAL FINISHING, PLUMBING, AND HVAC TO BE PERFORMED.
7. EXCLUDES SITEWORK AND LANDSCAPING. EXCEPTION: SOME EXCAVATION AND BACKFILL IS REQUIRED FOR PHASE 1 FOR ENVELOPE UPGRADES.
8. SEPTIC FIELD TO BE PERFORMED IN FUTURE DATE.

[illegible]

Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

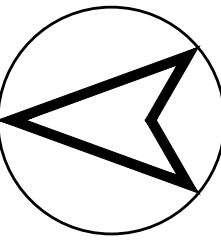
project: SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

title: FLOOR PLAN
EXISTING & DEMOLITION

drawn by: MC/JRB	checked by: MW
scale: 1:50	project no: 2232
date plotted: Aug 10, 2023	
revision date:	

dwg no:

A1.1



REISSUED FOR PERMIT & TENDER (PHASE 1)
ISSUED FOR PERMIT & TENDER

08/10/2023
06/29/2023



Bertrand Wheeler architecture Inc.
528 Cassels Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

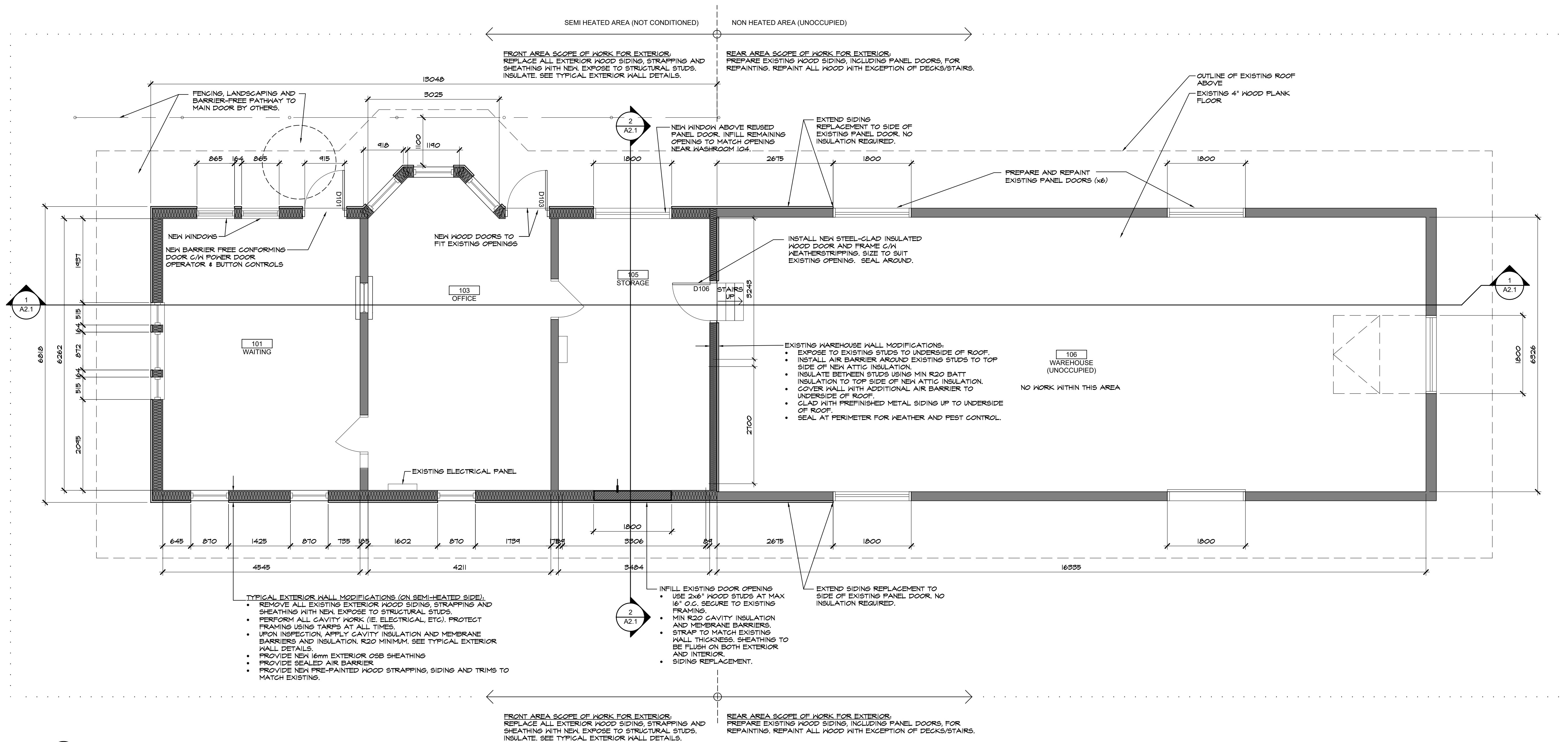
project:
SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

title:
FLOOR PLAN - NEW

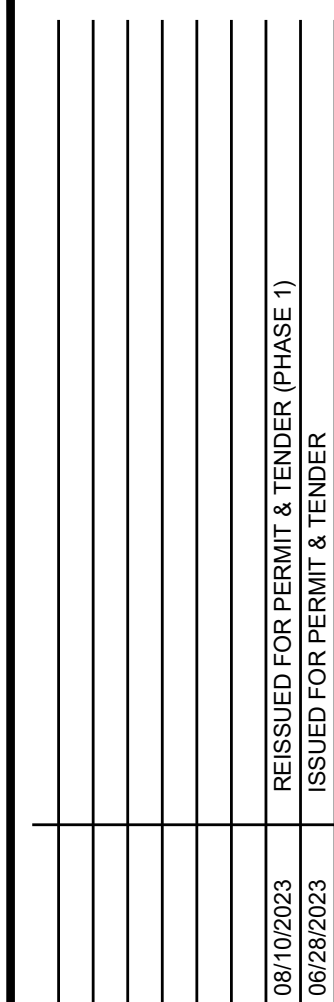
drawn by: MC/JRB	checked by: MW
scale: 1:50	project no: 2232
date plotted: Aug 10, 2023	
revision date:	

dwg no:

A1.2



1 FLOOR PLAN - NEW
A1.2 SCALE 1:50



Project: SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

Title: REFLECTED CEILING PLAN

drawn by: MC/JRB	checked MW
scale: 1:50	project n 2232
date plotted: Aug 10, 2023	
revision date:	

dwg no:

A1.3

1
A2.1

2
A2.1

1
A2.1

1
A1.3 REFLECTED CEILING PLAN
SCALE 1:50

2
A2.1

101 WAITING

103 OFFICE

105 STORAGE

106 WAREHOUSE (UNOCCUPIED)

NO NEW CEILINGS IN WAREHOUSE AREA

OVERHEAD DOOR & TRACK TO REMAIN.

AREA OF FUTURE HRV.

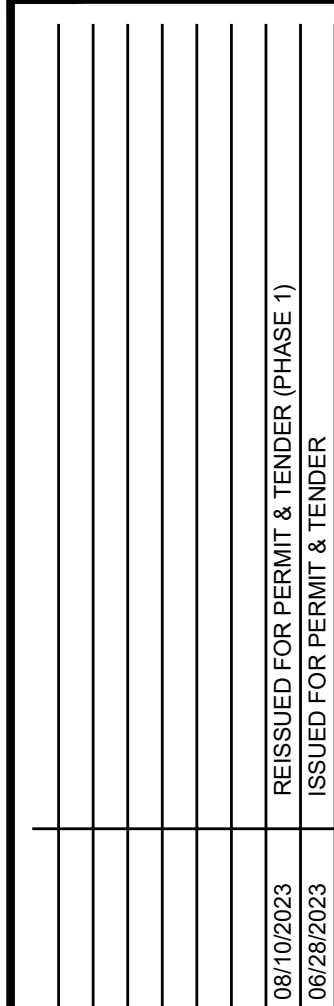
AREA OF FUTURE WASHROOM

MODIFY EXISTING ATTIC HATCH TO ABOVE LEVEL OF INSULATION. INSTALL NEW HATCH (G/N SPRINGLOADED HINGES AND PULL HANDLE) TO SUIT. SUPPORT NEW HATCH FOR CONTINUOUS SEAL AROUND ALL EDGES.

INSTALL (x8) 2'x8" INSECT SCREENED VENTS WITHIN WOOD SOFFIT FOR ATTIC VENTILATION (x4 EACH SIDE). COLOUR TO MATCH SOFFIT.

REPAINT SOFFIT G/N STRUCTURAL BEAMS AND RAFTERS

FUTURE LIGHTING. SEE ELECTRICAL.

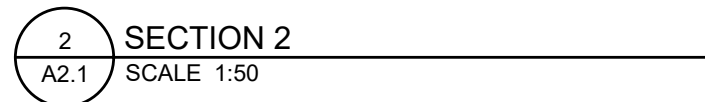
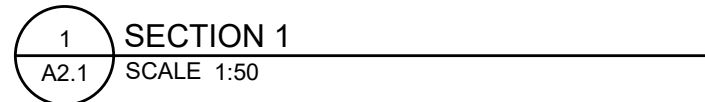


Bertrand Wheeler architecture inc.

Building Restoration - Phase 1

dwg.nc

Drawing name: C:\Users\marcus\Desktop\2232-Drawings-Phase 1-IFP-Aug10-2023.dwg



08/10/2023	REISSUED FOR PERMIT & TENDER (PHASE 1)
06/28/2023	ISSUED FOR PERMIT & TENDER



Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

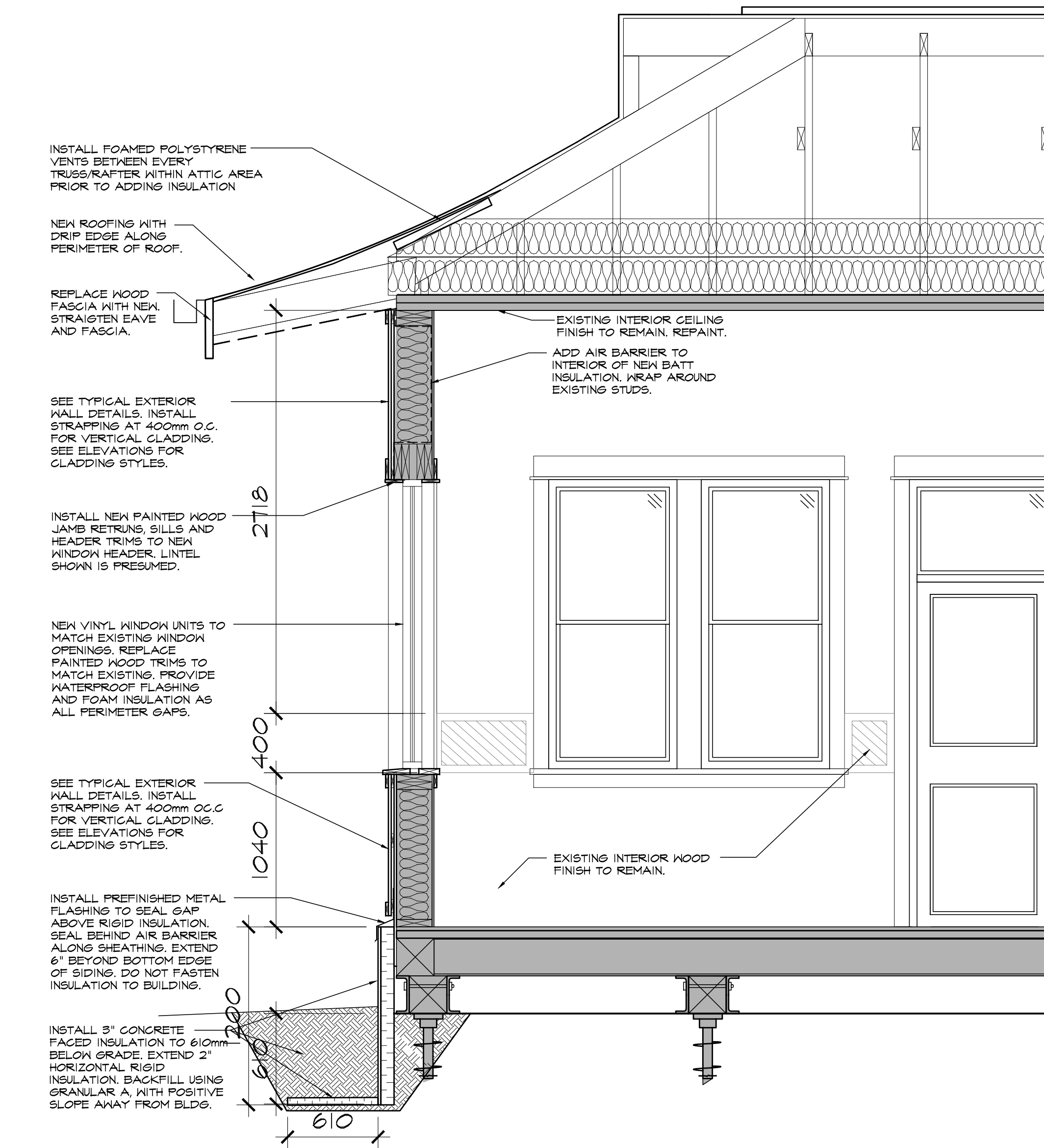
project: **SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1**
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

250

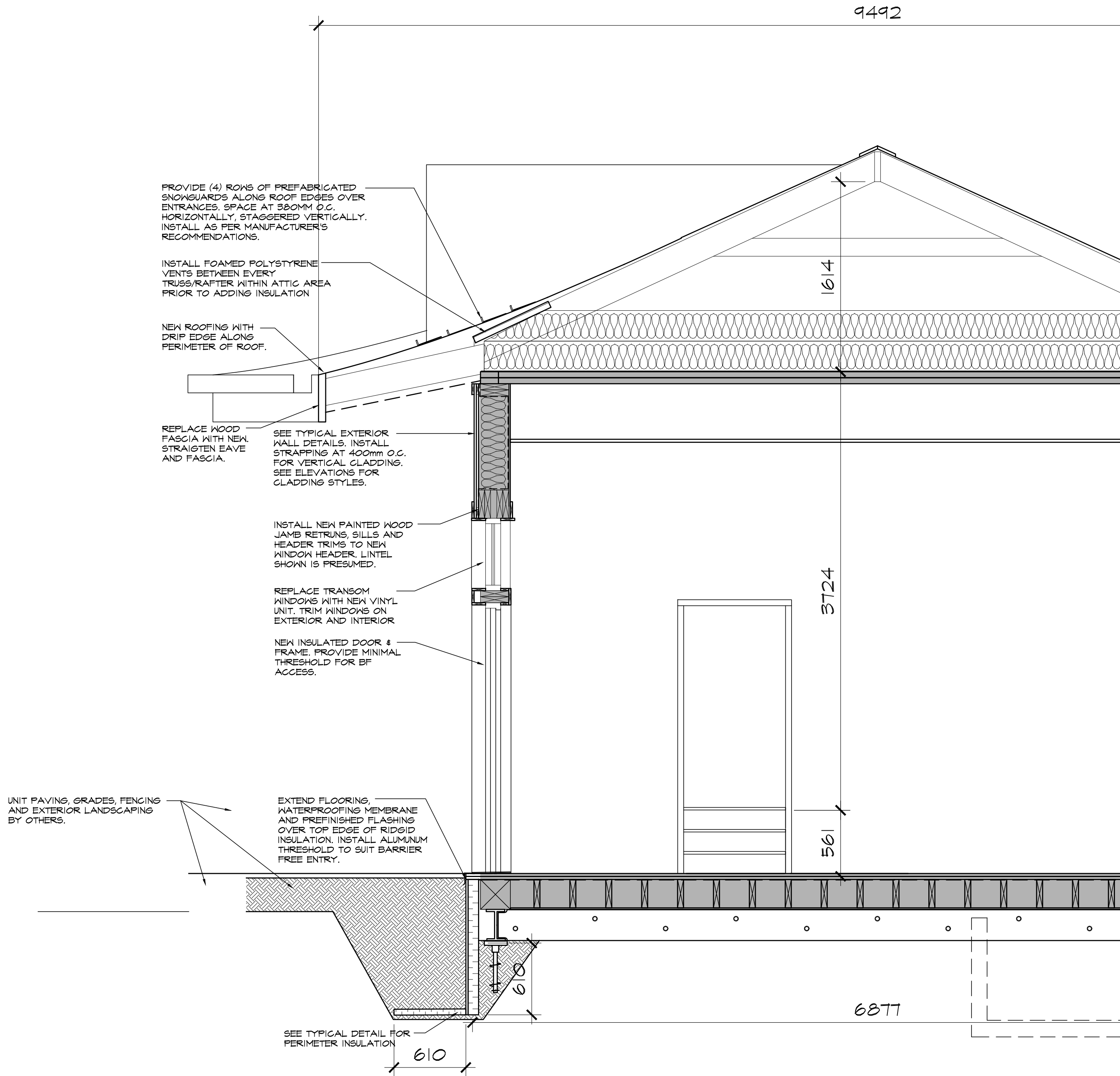
drawn by: MC/JRB	checked by: MW
scale: 1:50	project no: 2232
date plotted: Aug 10, 2023	
revision date:	

avg no:

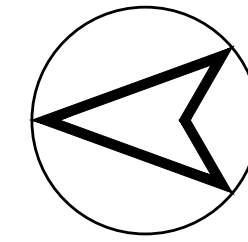
A2.1



1 TYPICAL EXTERIOR WALL SECTION THRU WINDOW
A2.2 SCALE 1:25



2 WALL SECTION @ ENTRY DOOR
A2.2 SCALE 1:25



REISSUED FOR PERMIT & TENDER (PHASE 1)
ISSUED FOR PERMIT & TENDER

08/10/2023
08/28/2023



Bertrand Wheeler architecture inc.

528 Cassels Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

project: SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

title: TYPICAL DETAILS
EXTERIOR WALL & INTERIOR DETAILS

drawn by:
MC/URB

checked by:
MW

scale:
1:50

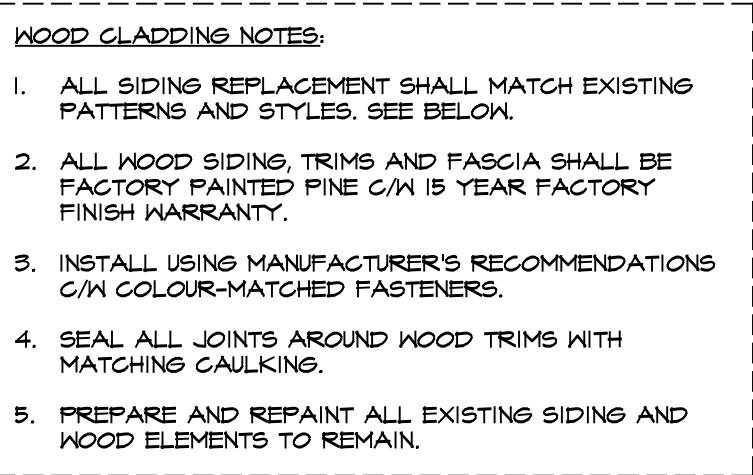
project no:
2232

date plotted:
Aug 10, 2023

revision date:

dwg no:

A2.2

[illegible]

Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

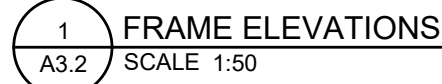
project: SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1

title:

drawn by: MC/JRB	checked MW
scale: 1:50	project no. 2232
date plotted: Aug 10, 2023	
revision date:	

dwg no:

A3.1



-
- CONFIRM MAXIMUM WIDTH FOR DOOR OPENING. UTILIZED OFFSET HINGES TO ALLOW NIDER OPENING FOR DOOR TO SUIT BARRIER FREE DESIGN.
- DOOR TYPE A
- 415
- 2225
- INSERT DOUBLE GLAZED THERMAL WINDOW UNIT FOR ALL EXTERIOR DOORS. TEMPERED GLASS ONLY.
- A
- RAISED PANELS
- DOOR TYPE B
- SEE SCHEDULE
- 2225
- B
- Technical drawing showing two door types, Door Type A and Door Type B, with dimensions and annotations. Door Type A has a width of 415 and a height of 2225. It features a double-glazed thermal window unit (A) and raised panels. Door Type B has a height of 2225 and refers to a schedule for its width. It also features a double-glazed thermal window unit (B) and raised panels. Annotations include: 'CONFIRM MAXIMUM WIDTH FOR DOOR OPENING. UTILIZED OFFSET HINGES TO ALLOW NIDER OPENING FOR DOOR TO SUIT BARRIER FREE DESIGN.' and 'INSERT DOUBLE GLAZED THERMAL WINDOW UNIT FOR ALL EXTERIOR DOORS. TEMPERED GLASS ONLY.'

1 DOOR / ELEVATIONS
A3.2 SCALE 1:50



08/10/2023	REISSUED FOR PERMIT & TENDER (PHASE 1)
06/28/2023	ISSUED FOR PERMIT & TENDER



Bertrand Wheeler architecture inc.
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

WINDOW / BOOK / TABLE ELEVATIONS SCHEDULES

own by: C/JRB	checked by: MW
e: 50	project no: 2232
e plotted: Aug 10, 2023	
ision date:	

no:

A3.2

THE FOLLOWING PRODUCTS AND SPECIFICATIONS ARE MINIMUM SPECIFICATIONS ONLY. ALL PRODUCTS AND MATERIALS TO BE SUPPLIED AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND QUALITY CONSTRUCTION STANDARDS.

OWNER SELECTION

1. REVIEW ALL MATERIALS AND PRODUCTS WITH OWNER PRIOR TO ORDERING.
2. FOR THE FOLLOWING SPECIALTY ITEMS, OFFER AN ALLOWANCE FOR SELECTION WITHIN THE PRICE. THE BUILDER SHALL INCLUDE ALL COSTS FOR DELIVERIES AND INSTALLATION WITHIN BASE PRICE.
 - 2.1. SUPPLY MAIN ENTRY EXTERIOR DOOR
3. OFFER THE OWNER A FULL CHOICE OF COLORS, FINISHES AND VARIATIONS PRIOR TO ORDERING. COORDINATE ADEQUATE TIME FOR REVIEW AND RESPONSE. ADVISE OF ANY COST VARIATIONS.
4. PROVIDE OWNER WITH COLOURS AND OPTIONS IN A SINGLE PACKAGE, TO ALLOW FOR COORDINATION OF MATERIALS AND FINISHES.

EXCAVATION, SOILS & BACKFILL:

1. EXCAVATE TO LINES GRADES, ELEVATIONS AND DIMENSIONS AS INDICATED. REMOVE CONCRETE, MASONRY, PAVEMENTS, RUBBLE, LARGE ROCKS AND OTHER OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION.
2. BACKFILL: USE ONLY APPROVED GRANULAR 'A' AND GRANULAR 'B' TYPE '1', IN ACCORDANCE WITH OPSS 1010. BACKFILL AROUND INSTALLATIONS UNIFORMLY SUCH THAT NO STRESSES ARE INDUCED TO THE STRUCTURE
3. CLEAR (CRUSHED) STONE: 19mm CLEAR STONE IN ACCORDANCE WITH OPSS 1010.

WOOD FRAMING NOTES

1. ALL STRUCTURAL WOOD FRAMING TIMBER SHALL CONFORM TO CSA STANDARD 086-M80 SPF NO.2 SPRUCE OR BETTER UNLESS NOTED OTHERWISE.
2. TIMBER IN CONTACT WITH CONCRETE OR SOIL SHALL BE PRESSURE TREATED.

AIR BARRIER, VAPOUR BARRIERS & MEMBRANE FLASHINGS

1. INSTALL NEW AIR BARRIER (BUILDING WRAP) AROUND ENTIRE EXTERIOR. SHEET AIR BARRIER FOR FRAMED WALLS:
 - 1.1. TYVEK BY DUPONT CANADA, TYPAR BY REMMAY OR EQUAL.
 - 1.2. SEAL SEAMS WITH 3M SHEATHING TAPE
2. VAPOUR BARRIER ON WALLS:
 - 2.1. 6 MIL THICK POLYETHYLENE
 - 2.2. SEAL ALL SEAMS. INSTALL PURPOSE MADE BARRIERS AROUND RECEPTACLES AND PENETRATIONS.
 - 2.3. DO NOT CONCEAL WORK UNTIL INSPECTED.

BATT INSULATION:

1. INSTALL THERMAL BATT INSULATION TO SUIT FULL WALL CAVITY
2. ACCEPTABLE THERMAL PRODUCTS:
 - 2.1 OWENS CORNING: ECOTOUCH THERMAL INSULATION
 - 2.2 ROXUL: COMFORTBATT THERMAL INSULATION
 - 2.3. OR APPROVED EQUALS.
3. FIT INSULATION CLOSELY AROUND ELECTRICAL BOXES, PIPES, OBJECTS, FRAMES AND OTHER DUCTS IN OR PASSING THROUGH INSULATION.
4. DO NOT COMPRESS INSULATION TO FIT INTO SPACES.
5. KEEP INSULATION MINIMUM 3" (75mm) FROM HEAT EMITTING DEVICES SUCH AS RECESSED LIGHT FIXTURES.
6. DO NOT ENCLOSE INSULATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY CONSULTANT.

RIGID INSULATION

1. INSTALL TO THICKNESS AS INDICATED ON DRAWINGS
2. TAPE & SEAL ALL EDGES UNLESS OTHERWISE NOTED.
3. CONCRETE FACED RIGID INSULATION WITH GROOVED SEAMS. PROTECT FROM EXPOSURE TO GRADE & MOISTURE.
4. BELOW GRADE APPLICATIONS: STYROFOAM SM (TYPE 4) BY DOW CHEMICALS CANADA INC. OR APPROVED EQUAL.

FOAM IN PLACE INSULATION

1. LOW-EXPANSION SPRAY FOAM INSULATION AROUND DOOR AND WINDOW FRAMES FOR WEATHERTIGHT SEAL.

WOOD SIDING

1. HORIZONTAL, PROFILES TO MATCH EXISTING
2. PRODUCT TO BE EQUAL TO FRASER WOOD SIDING, FACTORY PAINTED WOOD CLADDING AND TRIMS.
3. UP TO (x4) CUSTOM SOLID COLOURS WITH 15 YEAR WARRANTY, OR APPROVED EQUAL.
4. PROVIDE ALL TRIM PIECES AND COLOUR MATCHED FASTENERS, INCLUDING OUTSIDE CORNERS, INSIDE CORNERS, J-STARTER STRIP, UNDERSILL TRIMS, WINDOW AND DOOR SURROUNDS, VENTS, H-TRIM ETC.

ASPHALT SHINGLE ROOFING

1. REMOVE ALL LAYERS OF EXISTING SHINGLES AND REPLACE WITH NEW 35 YEAR SHINGLES, TO MATCH EXISTING.
- 1.1. ACCEPTABLE SHINGLE PRODUCT: EVEREST ASPHALT SHINGLES, AS MANUFACTURED BY BFGOODRICH OR APPROVED EQUAL.
- 1.2. INSTALL ROOF FLOORING, SHEATHING PAPER, ROOFING FELT BELOW SHINGLES.
2. PROVIDE ICE/WATER SHIELD OVER EDGES OF THE ROOF AS INDICATED.
3. APPLY ICE SHIELD OVER ENTIRE ROOF.
4. CONTRACTOR TO INSPECT CONDITION OF EXISTING ROOF DECK AND REPORT TO THE ARCHITECT THE CONDITION OF THE DECK, PRIOR TO DOING THE WORK. DAMAGED/DECAYED DECKING TO BE REPAIRED AS REQUIRED TO MATCH EXISTING CONSTRUCTION.
4. PROVIDE ROOF VENTS AS INDICATED.
- 4.1. SHINGLED OVER RIDGE VENTS: COBRA SNOW COUNTRY ADVANCED BY GAF. COMPATIBLE WITH 12" WIDE RIGID INSULATION. PROVIDE 1/2" AIR GAP. DAMAGED/PEN PER LINEAR FOOT.
5. INSTALL PREFINISHED METAL Drip EDGE, COLOUR TO MATCH FASCIA.

PREFINISHED METALS FLASHINGS:

1. METAL FLASHINGS: FORM FLASHINGS, COPINGS AND FASCIAS TO MATCH EXISTING PROFILES OF 0.56MM (26 GAUGE) THICK PRE-FINISHED SHEET STEEL.
2. INSTALL NEW PREFINISHED ALUMINUM FLASHINGS AROUND EXTERIOR OF NEW WINDOWS AND DOORS. SEAL TO EDGES OF SIDING.
3. INSTALL DRIP EDGE UNDER FRONT EDGE OF ROOFING - COORDINATE COLOUR WITH FASCIA.
4. COORDINATE COLOURS WITH OWNER. INSTALL WITH MATCH FASTENERS.

EAVESTROUGH AND DOWNSPOUTS

1. INSTALL SEAMLESS ALUMINUM EAVESTROUGHS INSTALLED WITH MATCHING DOWNSPOUTS.
2. UTILIZE PREMANUFACTURED BENDS, GOOSENECKS, OUTLETS, STRAINER BASKETS AND NECESSARY FASTENINGS AROUND SOFFITS AND PROJECTIONS.
3. COORDINATE LOCATIONS OF DOWNSPOUTS WITH SURFACE DRAINS AND/OR OWNER.
4. PROVIDE PRECAST CONCRETE SPLASH PANS WHERE SPOUTS DRAIN DIRECTLY ONTO GRADE.
5. COORDINATE COLOURS WITH OWNER. INSTALL WITH MATCH FASTENERS.

SEALANTS

1. EXTERIOR LOCATIONS: SEAL AROUND ALL OPENINGS WITH EPOXIDIZED POLYURETHANE.
2. INTERIOR LOCATIONS: PAINTABLE, SILICONE BASE
3. APPLY SEALANT AROUND OTHER EQUIPMENT & FIXTURES AS PER MANUFACTURERS RECOMMENDATIONS.
4. COLOUR(S) TO MATCH ADJACENT FINISHES.

EXTERIOR DOORS

1. INSTALL PRE-HUNG 1-3/4" HEAVY-DUTY GALVANIZED STEEL DOORS WITH PREFINISHED WHITE FINISH.
2. SIZES & STYLES TO SUIT EXISTING OPENINGS AND AS INDICATED.
3. ALL EXTERIOR DOORS AND FRAMES TO BE INSULATED AND THERMALLY BROKEN.
4. FRAME INSTALLATION
 - 4.1. SET FRAMES PLUMB, SQUARE, LEVEL AND AT CORRECT ELEVATION.
 - 4.2. SECURE ANCHORAGES AND CONNECTIONS TO ADJACENT CONSTRUCTION.
 - 4.3. MAKE ALLOWANCES FOR DEFLECTION OF STRUCTURE TO ENSURE STRUCTURAL LOADS ARE NOT TRANSMITTED TO FRAMES.
 - 4.4. CAULK PERIMETER OF FRAMES BETWEEN FRAME AND ADJACENT MATERIAL.
 - 4.5. MAINTAIN CONTINUITY OF AIR AND VAPOUR BARRIER.
5. DOOR INSTALLATION
 - 5.1. INSTALL DOORS AND HARDWARE IN ACCORDANCE WITH HARDWARE TEMPLATES AND MANUFACTURER'S INSTRUCTIONS.
 - 5.2. PROVIDE EVEN MARGINS BETWEEN DOORS AND JAMBS AND DOORS AND ADJACENT FLOOR FINISHES INCLUDING DECK SURFACES.
6. PREPARE AND INSTALL HARDWARE
16. WHERE BARRIER-FREE ACCESS IS REQUIRED, DOOR SILLS TO BE MAXIMUM 13MM (1/2") HIGH FOR BARRIER-FREE ACCESS.

HARDWARE

1. COMBINATION OF RESIDENTIAL & COMMERCIAL GRADE DOOR HARDWARE TO BE PROVIDED INCLUDING HINGES, CLOSURES, LOCKSETS, DEADBOLTS, SMOKE SEALS, DOOR STOPS, PULLS, THRESHOLDS SHALL BE USED AT NEW DOOR OPENINGS.
2. PROVIDE DUTY HARDWARE SHALL BE USED AT ALL EXISTING ENTRY DOOR LOCATIONS INCLUDING BALL BEARING HINGES AND CONTINUOUS PIANO STYLE HINGES.
3. PROVIDE CYLINDRICAL LOCKSETS WITH LEVER HANDLES. PROVIDE ADDITIONAL DEADBOLTS ON ALL EXTERIOR DOORS.
4. PROVIDE ENTRY OPERATORS AT MAIN ENTRY, ALL BARRIER-FREE WASHROOMS, AND ALL UNIVERSAL WASHROOMS. PROVIDE UNIVERSAL WASHROOM HARDWARE KIT IN ALL UNIVERSAL WASHROOMS AS PER OBC. COORDINATE WITH ELECTRICAL.
5. COORDINATE KEYING OF ALL LOCKS WITH OWNER. MATCH KEYING OF ALL LOCKS ON A SINGLE FLOOR. PROVIDE 4 KEYS SHALL BE PROVIDED FOR PHYSICAL CONTROL, KEY ACCESS AND HAND OVER ALL KEYS TO OWNER PRIOR TO FINISH OF WORK.

VINYL WINDOWS:

1. VINYL UNITS WITH OPERABLE UNIT. LOCKABLE, TILT-OUT CLEANABLE. COORDINATE ALL OPERABLE PARTS WITH OWNER PRIOR TO ORDERING.
2. DOUBLE GLAZED, LOW-E THERMAL UNIT.
3. PROVIDE INTEGRAL CHANNEL AT PERIMETER OF INTERIOR FRAME FOR TIGHT INSERTION OF JAMB/HEADER/SILL MATERIAL.
4. REMOVABLE INSECT SCREENS.
5. GLAZING TO BE 6MM TEMPERED GLASS UNLESS OTHERWISE NOTED.
6. FOR ADDED WATER CONTROL USE A SELF-ADHESIVE MEMBRANE FLASHING AROUND ENTIRE EXISTING WINDOW FRAMING OPENING.
7. INSULATE ALL VOIDS AROUND FRAMES USING LOW-EXPANSION FOAM FOR SEAL AND AIR BARRIER.
8. COORDINATE WITH INTERIOR AND EXTERIOR SIDES. CAULKING COLOUR TO MATCH SURROUNDING FINISHES.

FINISHING NOTES

1. ALL MATERIALS AND COLOURS TO BE LATER SELECTED BY OWNER. REFER ALSO TO ROOM FINISH SCHEDULE, WHERE PROVIDED.
2. PROTECT ALL FLOORING TO REMAIN.
3. USE SUITABLE THRESHOLDS FOR ALL FLOORING CHANGES BETWEEN DISSIMILAR FLOOR FINISHES. NO THRESHOLD SHALL BE GREATER THAN 10mm IN HEIGHT.

PAINTING

1. PRIME & PAINT ALL NEW AND EXISTING AREAS AFFECTED BY THE WORK, INCLUDING FINISHES, DOORS, TRIMS AND FRAMES. REFER ALSO TO ROOM FINISH SCHEDULE, WHERE PROVIDED.
2. COLOURS TO BE SELECTED BY OWNER AS PROJECT PROCEEDS.

ELECTRICAL NOTES:

1. PERFORM ALL ELECTRICAL WORK USING APPROVED & LICENSED TRADEPERSONS. PERFORM ALL WORK IN STRICT ACCORDANCE WITH ELECTRICAL AUTHORITIES.
2. PROTECT EXISTING ELECTRICAL SYSTEM. MAINTAIN POWER THROUGH BUILD.
3. REMOVE ALL ABANDONED WIRING & FIXTURES.
4. REFASTEN ALL TEMPORARILY REMOVED WIRES.
5. REVIEW ALL NEW FIXTURES AND SWITCHING WITH OWNER PRIOR TO ORDERING AND INSTALLATION.
6. COORDINATE LOCATIONS AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT AND POWER DOOR HARDWARE.

[illegible]

Bertrand Wheeler architecture inc.
529 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-9888 fax: 705-472-2486

Project: SOUTH RIVER TRAIN STATION
BUILDING RESTORATION - PHASE 1
OTTAWA AVENUE
SOUTH RIVER, ONTARIO

Title: SPECIFICATIONS

drawn by: KD	checked MBW
scale: AS NOTED	project n 2232
date plotted: Aug 10, 2023	
revision date: Jun 28, 2023	

dwg no:

A4.1

Part 1MECHANICAL GENERAL CONDITIONS

1. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOUR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

2. THE WORK SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

3. THE CONTRACTOR SHALL PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.

4. ONLY COMMERCIAL GRADE EQUIPMENT AND MATERIALS SHALL BE INSTALLED.

5. THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP, AND TO CALL FOR ANY TEST WHICH HE/SHE DEEMS NECESSARY DURING THE PROCESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT COMPLETION OF THE WORK. THE COSTS OF SUCH TESTS SHALL BE INCLUDED IN THE TENDER PRICE.

Part 2PERMITS AND INSPECTION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, CERTIFICATES, ETC. REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND SHALL PAY FOR SAME.

2. COSTS FOR PERMITS, INSPECTIONS, ETC. SHALL BE INCLUDED IN THE TENDER PRICE.

3. ALL PERMITS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE.

Part 3SCOPE OF WORK

1. THE WORK SHALL CONSIST OF BUT NOT LIMITED TO PLUMBING AND VENTILATION MODIFICATIONS IN CONJUNCTION WITH THE MINOR INTERIOR RENOVATION.

Part 4AS-BUILT DRAWINGS

1. CONTRACTOR SHALL KEEP A SEPARATE SET OF REDLINE DRAWINGS ON SITE AND NOTE ALL CHANGE AND DEVIATIONS FROM THE ORIGINAL DESIGN.

2. TWO SETS OF THESE PLANS SHOWING ALL AS BUILT CONDITIONS SHALL BE FORWARDED TO THE OWNER AT THE COMPLETION OF THE CONTRACT AND BEFORE APPLYING FOR FINAL PAYMENT.

Part 5SHOP DRAWINGS

1. SUBMIT ELECTRONIC COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO PLACING ORDER FOR ALL EQUIPMENT AND MATERIAL RELATED TO THIS CONTRACT.

2. SHOP DRAWINGS TO INCLUDE PRODUCT CHARACTERISTICS, PERFORMANCE CRITERIA, PHYSICAL SIZE, FINISH, AND LIMITATIONS.

Part 6EXAMINATION OF THE SITE

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROJECT AND FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.

2. ANY DEVIATION AND/OR CONFLICTS ON SITE SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING THE TENDER.

3. ALL DIMENSIONS, CONFIGURATIONS, EQUIPMENT LOCATIONS, ETC. TO BE CHECKED AND VERIFIED ON SITE.

Part 7CONSTRUCTION SCHEDULE

1. MECHANICAL CONTRACTOR SHALL SCHEDULE AND PERFORM HIS/HER WORK TO MEET THE COMPLETION SCHEDULE AS SET OUT BY THE OWNERS. ANY OVERTIME WORK SHALL BE INCLUDED IN HIS TENDER.

2. CONTRACTOR SHALL ADVISE OF ANY SHUTDOWNS OR DISRUPTIONS OF SERVICES WITH A MINIMUM OF 48 HOURS NOTICE.

Part 8CHANGE CONTROL

1. NO ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL BE PAID UNLESS AN APPROVED CHANGE ORDER HAS BEEN ISSUED BY THE ENGINEER.

2. CLAIMS FOR EXTRAS SHALL BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC.

Part 9CLEAN-UP

1. CONTRACTOR SHALL BE RESPONSIBLE TO PERIODICALLY REMOVE ALL DEBRIS AND TO KEEP THIS AREA CLEAN AT ALL TIMES.

Part 10EQUIPMENT AND MATERIAL

1. ALL MATERIALS USED ON THIS PROJECT SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT.

2. ALL MATERIAL AND EQUIPMENT SHALL BE OF THE TYPE SUBJECT TO FACTORY MUTUAL, UNDERWRITER'S LABORATORIES OF CANADA OR CANADIAN STANDARDS ASSOCIATION, INSPECTION AND APPROVAL AND SHALL BEAR UL/C OR CSA LABELS.

Part 11TESTING

1. PERFORM TESTS ON EACH SYSTEM TO THE SATISFACTION OF THE ENGINEER AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF WORK AND IN CONFORMANCE WITH THE AUTHORITY HAVING LOCAL JURISDICTION.

Part 12DEMONSTRATION OF SYSTEM

1. CONTRACTOR TO DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM TO THE MAINTENANCE STAFF OR THE OWNER'S REPRESENTATIVE.

Part 13IDENTIFICATION

1. ALL PIPING AND DUCTWORK TO BE LABELED AND PAINTED IN CONFORMANCE WITH CGSB 24-GP-3A.

2. ALL LABELING TO BE INSTALLED ON LONG STRAIGHT RUNS CLEARLY VISIBLE AND UNOBSTRUCTED.

Part 14COORDINATION

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF EQUIPMENT, DUCTWORK, PIPING, DIFFUSERS, GRILLES, ETC. WITH ALL OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.

Part 15ACCESSIBILITY

1. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS.

2. MANUFACTURERS INSTALLATION REQUIREMENTS TO BE REVIEWED - PROVIDE ALL REQUIRED SERVICE SPACE ALLOCATIONS FOR ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

Part 16RESPONSIBILITY

1. THIS TRADE SHALL BE RESPONSIBLE FOR HIS/HER WORK UNTIL COMPLETION AND FINAL ACCEPTANCE, AND FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ANY ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

Part 17WARRANTY

1. CONTRACTOR SHALL WARRANT ALL WORK AND APPARATUS INSTALLED UNDER THIS CONTRACT AGAINST DEFECTS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND THE OWNER.

Part 18FIREPROOFING

1. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED FIRE STOP SYSTEM TO SUIT FIRE RATED ASSEMBLY.

2. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

3. SUBMIT FIRE STOP SYSTEM SHOP DRAWINGS FOR REVIEW BY ALL AUTHORITY SUPPLIED UNDER THIS COMPLETING WORK.

Part 19CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING, PATCHING, AND PAINTING FOR MECHANICAL WORK SHALL BE DONE BY THE MECHANICAL CONTRACTOR.

2. OBTAIN ANY/ALL APPROVALS PRIOR TO CUTTING STRUCTURAL MEMBERS.

3. UPON REMOVAL OF PIPING/DUCTWORK, THERMOSTATS, CONTROL WIRING, ETC. PATCH ALL HOLES CREATED FROM REMOVALS AND MATCH EXISTING FINISHES.

4. PROVIDE STEEL PIPE SLEEVES WHERE PIPING PASSES THROUGH MASONRY OR CONCRETE.

5. PROVIDE FIRE STOP SYSTEM CAULKING AS PER MANUFACTURER'S RECOMMENDATIONS FOR ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.

6. ALL PENETRATIONS THROUGH EXTERIOR WALL ASSEMBLIES TO BE INSULATED AND SEALED TO MAKE WEATHER TIGHT. SEAL WITH NON-HARDENING MASTIC.

Part 20ACCESS DOORS

1. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES, EQUIPMENT, CONTROLS, ETC.

2. LOCATE ACCESS DOORS TO ALLOW FOR PROPER OPERATION, INSPECTION, ADJUSTMENT AND SERVICING.

3. ACCESS DOORS TO BE FLUSH MOUNTED. PROVIDE MINIMUM 24"x24" WHERE FULL BODY ACCESS IS REQUIRED, AND MINIMUM 12"x12" WHERE HAND ENTRY IS REQUIRED.

4. COORDINATE FINISH WITH ENGINEER. PRIMED AND PAINTABLE STEEL ACCESS DOORS TO BE PROVIDED IN ALL AREAS.

Part 21OPERATIONAL AND MAINTENANCE MANUALS

1. MECHANICAL CONTRACTOR SHALL PROVIDE TO THE OWNER THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT.

Part 22INSULATION AND JACKETING

1. INSULATION AND JACKETING TO HAVE MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPMENT RATING OF 50 WHEN TESTED IN ACCORDANCE WITH CAN/ULC S102.

2. INSULATE PIPING WITH RIGID MINERAL FIBRE SLEEVING WITH FOILCRAFT LAMINATE PACKET WITH OPEN MESH FIBRE SCIM REINFORCING. INSULATION THICKNESS AS PER ASHRAE 90.1-2013 TABLES 6.8.3.1 AND 6.8.3.2.

3. EXPOSED PIPING TO BE PVC JACKETED AND LABELED.

4. FRESH AIR INTAKES, FIRST 10' OF EXHAUST DUCTWORK, AND HRV INTAKE AND EXHAUST FULL LENGTH) TO BE INSULATED WITH 1" THICK THERMAL INSULATION AND ALUMINUM FOIL JACKET - INSULATION TO BE FLEXIBLE FOR ROUND DUCTWORK, RIGID FOR RECTANGULAR DUCTWORK.

5. EXPOSED DUCTWORK IN MECHANICAL ROOMS TO BE CANVAS WRAPPED.

Part 23METAL DUCTS - LOW PRESSURE TO 500 PA

1. GALVANIZED INDOOR AIR QUALITY AS PER ASHRAE STANDARDS.

2. LOCK FORMING QUALITY: TO ASTM A 653/A653M, 290 ZINC COATING.

3. THICKNESS, FABRICATION AND REINFORCEMENT: TO ASHRAE AND SMACNA.

4. JOINTS: TO ASHRAE AND SMACNA OR PROPRIETARY MANUFACTURED DUCT JOINT.

5. PROPRIETARY MANUFACTURED FLANGED DUCT JOINT TO BE CONSIDERED TO BE A CLASS A SEAL.

5. HANGERS: GALVANIZED STEEL ANGLE WITH GALVANIZED STEEL RODS TO ASHRAE AND SMACNA.

Part 24FLOOR DRAINS

1. FINISHED AREAS:

1. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD HEAVY DUTY 5" DIAMETER, POLISHED STAINLESS STEEL STRAINER.

EQUAL TO MIFAB SERIES F1000-3

FOR MEMBRANE FLOORS - EQUAL TO MIFAB F1000-C-3-C.

2. TILED AREAS:

1. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD HEAVY DUTY SQUARE POLISHED STAINLESS STEEL STRAINER.

EQUAL TO MIFAB SERIES F1100-5 (*) 3"1" STRAINER SIZE)

FOR MEMBRANE FLOORS - EQUAL TO F1100-5 (*) 3-C (*) STRAINER SIZE)

3. NON-FINISHED AREAS:

1. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD HEAVY DUTY 5" DIAMETER, DUCTILE IRON STRAINER.

EQUAL TO MIFAB SERIES F1100-4

FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-4

4. FLOOR DRAIN WITH SURFACE MEMBRANE CLAMP:

1. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND "FC" 7" DIAMETER HEAVY DUTY POLISHED STAINLESS STEEL STRAINER WITH SURFACE MEMBRANE CLAMP.

EQUAL TO MIFAB SERIES F1100-FC-3

FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-FC-3

5. FLOOR DRAIN WITH FUNNEL:

1. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD 4" X 9" (102 X 229) OVAL SATIN FINISHED NICKEL BRONZE OPEN THROAT FUNNEL.

EQUAL TO MIFAB SERIES F1100-EG

FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-EG SERIES

2. LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES AND STANDARD 4" (102) ROUND SATIN FINISHED NICKEL BRONZE FUNNEL ASSEMBLY.

EQUAL TO MIFAB SERIES F1100-FF

FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-FF SERIES

Part 25CLEANOUTS

1. FLOOR CLEANOUTS:

1. CLEANOUTS SHALL HAVE LACQUERED CAST IRON BODIES WITH ANCHOR FLANGE, SECONDARY "O" RING TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER AND PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL.

2. CLEANOUTS IN FINISHED FLOOR TO BE ROUND TOP OR C1000-5-3 SQUARE TOP WITH HEAVY DUTY POLISHED STAINLESS STEEL FINISH AND MAXIMUM LOAD RATING OF 7,499 LBS.

EQUAL TO MIFAB C1000-R-3

3. CLEANOUTS IN UNFINISHED AREAS TO BE ROUND TOP WITH DUCTILE IRON COVER WITH MAXIMUM LOAD RATING OF 7,499 LBS.

EQUAL TO MIFAB C1100-XR-4

4. CLEANOUTS IN FINITLED FLOOR TO BE ROUND TOP OR C1100-TS-3 (SQUARE TOP) WITH A HEAVY DUTY LOAD RATED POLISHED STAINLESS STEEL TOP.

EQUAL TO MIFAB C1100-T-3

5. CLEANOUTS IN CARPETED AREAS TO BE WITH A HEAVY DUTY LOAD RATED POLISHED STAINLESS STEEL TOP AND STAINLESS STEEL CARPET MARKER.

EQUAL TO MIFAB C1100-RC-3

6. SURFACE MEMBRANE CLAMP FOR PLENUM FLOORS TO BE LACQUERED CAST IRON CLEANOUT WITH ANCHOR FLANGE, WEEPHOLES, AND "RFC" 7" DIAMETER REINFORCED COMBINED STAINLESS STEEL COVER WITH PLUG AND SURFACE MEMBRANE CLAMP.

EQUAL TO MIFAB SERIES C1100-RFC7-3-34

2. WALL CLEANOUTS:

1. CAST IRON LINE CLEANOUT TO BE LACQUERED CAST IRON CLEANOUT FERRULE WITH 1/2" (13) THICK DUCTILE IRON COMBINED COVER AND PLUG.

EQUAL TO MIFAB SERIES C1450

2. CAST IRON STACK CLEANOUT TO BE LACQUERED CAST IRON CLEANOUT WITH LARGE ACCESS AREA AND THREADED PLUG.

EQUAL TO MIFAB SERIES C1460

3. EXPANDABLE LINE CLEANOUT TO BE LACQUERED PLUG WITH EXPANDABLE CLEANOUT. LINE CLEANOUT TO BE SUPPLIED IN CONJUNCTION WITH THE APPROPRIATE SIZE STAINLESS STEEL COVER AND VANDAL PROOF SCREW.

EQUAL TO MIFAB SERIES C1440-RD

Part 26DRAINAGE WASTE AND VENT PIPING - PLASTIC, CAST IRON AND COPPER

1. DRAINAGE AND VENT LINES INSIDE BUILDING TO BE CAST IRON OR COPPER BELOW 2".

2. PVC PIPING MAY BE USED ABOVE LEVEL OF CAST OR COPPER.

3. ALL PIPING IN PLENUM SPACES TO BE RATED FOR SUCH DUTY - PLASTIC PIPING IN PLENUM SPACES TO BE SYSTEM XFR PVC.

Part 27DOMESTIC WATER PIPING - COPPER

1. ABOVE GROUND: COPPER TUBE, HARD DRAWN, TYPE L: TO ASTM 8 88M.

2. BURIED OR EMBEDDED: COPPER TUBE, SOFT ANNEALED, TYPE K: TO ASTM 8 88M, IN LONG LENGTHS AND WITH NO BURIED JOINTS.

Part 28BALL VALVES

1. NPS 2 AND UNDER, SOLDERED:

2. TO ANSI/ASME B16.18, CLASS 150.

3. BRONZE BODY, CHROME PLATED BRASS BALL, PTFE ADJUSTABLE PACKING, BRASS GLAND AND PTFE SEAL, STEEL LEVER HANDLE, WITH NPT TO COPPER ADAPTORS AS SPECIFIED SECTION 23.08-23.02 - VALVES - BRONZE.

Part 29PLUMBING FIXTURES

1. PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.

WC#1 - FLOOR MOUNTED TOILET - VITREOUS CHINA - TANK TYPE

ZURN Z2555-K HIGH PERFORMANCE TWO PIECE WATER CLOSET, VITREOUS CHINA, AT 425 MM (16 23/32 IN) HEIGHT, ELONGATED BOWL, SIPHON JET ACTION, 76 MM (3 IN) FLUSH VALVE, 51 MM (2 IN) COMPLETELY GLAZED TRAPWAY, CHROME FINISH METAL HANDLE, BOLT CAPS, 4.8 L (1.28 US GAL) PER FLUSH, WATER PRESSURE RANGE 20 TO 80 PSI, ZH8824CRUKQ-8870-12-PC EXTRA HEAVY DUTY QUARTER TURN STOPS, DN 1/2 IN COMPRESSION, LOOSE KEY, VERTICAL FLEXIBLE STAINLESS BRAIDED HOSE OF 10 X 300 MM (3/8 X 12 IN), FLANGE, CHROME PLATED FINISH, Z5957SS-EL HEAVY DUTY SOLID PLASTIC ELONGATED SEAT, OPEN FRONT, WITH COVER, MOLDED BUMPER GUARD, STAINLESS STEEL CHECK HINGES. (WHITE).

UR1 - WALL MOUNTED URINAL - VITREOUS CHINA

ZURN ZK2765 ECOVANTAGE URINAL - 0.125 GPF (0.5 LPS) TO 1.9 GPF (3.8 LPS) VITREOUS CHINA, WALL HUNG, INTEGRAL TRAP, WASHDOWN URINAL COMPLETE WITH 3/4" BACK SPUD CONNECTION, CONCEALED UNIVERSAL RETROFIT WALL BRACKET, 2" OUTLET CONNECTION AND VANDAL RESISTANT OUTLET STRAINER, ZEM5619SAV-W51 - CONCEALED HARDWIRED SENSOR OPERATED URINAL FLUSH VALVE FOR 1.0 GPF (3.8 LPS)

LR3 - WALL HUNG LAVATORY - BARRIER FREE - VITREOUS CHINA

Z5324 VITREOUS CHINA WALL HUNG LAVATORY FOR BARRIER-FREE APPLICATION, 581 X 514 MM (22 7/8 X 20 1/4 IN), BACKSPASH, FRONT OVERFLOW, PRE-DRILLED FOR CONCEALED ARMS, DRILLED 3 HOLES AT 102 MM (4 IN) SPACING, Z81104-XL-3M POLISHED CHROME-PLATED LOW LEAD CAST BRASS FAUCET WITH INTEGRAL SHAWNS, 102 MM (4 IN) CENTER, QUARTER TURN CERAMIC DISC CARTRIDGES, 102 MM (4 IN) VANDAL-RESISTANT COLOR-CODED METAL WRIST BLADE HANDLES, WITH 1.9 L/MIN. (0.5 USGPM) PRESSURE COMPENSATING AERATOR, ZH8824X-LRLKC-PC (2) EXTRA HEAVY DUTY QUARTER TURN STOPS, LOW LEAD, DN 1/2 PO COMPRESSION, LOOSE KEY, VERTICAL FLEXIBLE HOSES OF 10 X 300 MM (3/8 X 12 PO), FLANGES CHROME PLATED FINISH, Z8746-PC STRAINER OFFSET DRAIN ASSEMBLY, CAST BRASS BODY, 32 MM (1 1/4 IN), POLISHED CHROME FINISH, Z8709-PC-8D CAST BRASS ADJUSTABLE P-TRAP, 32 MM (1 1/4 IN) WITH DEEP WALL FLANGE AND CLEANOUT, CHROME PLATE FINISH, Z1231 BACK TO BACK CONCEALED WALL HUNG CARRIER, STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEALED ARMS, ALIGNMENT TRUSS AND MOUNTING FASTENERS, Z8846-3-MT ANTIMICROBIAL PROTECTORS, RESISTS THERMAL TRANSFERS FOR P-TRAP, OFFSET DRAIN ASSEMBLY, STOP AND SUPPLY.

Part 30TESTING, ADJUSTING, AND BALANCING FOR HVAC SYSTEMS

1. CONTRACTOR TO CARRY SERVICES OF AIR BALANCING SUBCONTRACTOR IN TENDER PRICE FOR WORK OUTLINED IN CONTRACT DOCUMENTS.

2. SUBMIT AIR BALANCING REPORT TO ENGINEER FOR REVIEW AND ACCEPTANCE UPON COMPLETION OF BALANCING.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE NAME	COLD WATER PIPE SIZE	HOT WATER PIPE SIZE	SANITARY PIPE SIZE	VENT PIPE SIZE	NOTES	ACCESSORIES
WC	WATER CLOSET FLUSH TANK	1/2"	-	4"	1 1/2"		
U	URINAL	1"	-	2"	1 1/4"		
L	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"		
FD	FLOOR DRAIN	-	-	3"	1 1/2"		

Notes:

1.

Accessories:

A:

MINIMAL PIPE INSULATION - METALLIC PIPE

TEMP °F	DOMESTIC C.W.	DOMESTIC H.W.
PIPE SIZE	40-60 °F	141-200 °F
1/2" TO 3/4"	1"	1 1/2"
1" TO 1 1/2"	1"	1 1/2"
1 1/2" TO 3"	1"	2"
4" TO 8"	1"	2"
8" AND ABOVE	1"	2"

MINIMAL PIPE INSULATION - PEX PIPE

TEMP °F	DOMESTIC C.W.	DOMESTIC H.W.
PIPE SIZE	40-60 °F	141-200 °F
1/2" TO 3/4"	1"	1 1/2"
1" TO 1 1/2"	1"	1 1/2"
1 1/2" TO 3"	1"	1 1/2"
4" TO 8"	1"	1 1/2"
8" AND ABOVE	1"	2"

DIFFUSER AND GRILLE SCHEDULE

TAG	MANUFACTURER	DESCRIPTION	MODEL	OVERALL SIZE	NECK SIZE	NOTES	ACCESSORIES
1	NAILOS	ALUMINUM DOUBLE DEFLECTION SUPPLY AIR GRILLE	51DH	8"x4" 6"x6", 10"x4"	6"Ø	1	A
2	NAILOS	ALUMINUM FIXED 45° SINGLE DEFLECTION RETURN AIR GRILLE	5145H	8"x6" 10"x5", 12"x4"		1	A

Notes:

1. Coordinate connection to duct trunks on site. Confirm and coordinate all requirements.

Accessories:

A: Opposed blade damper

HEAT RECOVERY VENTILATOR SCHEDULE

TAG	MANUFACTURER	MODEL	E.S.P. in W.C.	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	MOTOR /POWER REQUIREMENTS	NOTES	ACCESSORIES
HRV#1	LIFEBREATH	ERV120D	0.3	130	130	610W 120V SP	1,2	A,B,C,D,E

Notes:

1. Fresh air and exhaust air ductwork to be insulated to unit.

2. Wall mounted as per manufacturers recommended installation instructions.

Accessories:

A: Back draft damper on exhaust port

B: Disconnect switch

C: 20/40/60 min. high speed override pushbutton

D: Provide programmable wall control with default Normal Speed/High Speed option to be only modes available.

E: Electric reheat coil 1.5 KW c/w discharge air temperature sensor, SCR controller, thermal cut out switch, fan relay, airflow sensor, etc.

PLUMBING GENERAL NOTES:

1. INSTALLATION SHALL BE IN ACCORDANCE TO THE ONTARIO BUILDING CODE, AWWA STANDARDS/GUIDELINES AND ALL AUTHORITIES HAVING JURISDICTION.

2. CONTRACTOR SHALL VERIFY ALL TIE IN POINTS TO EXISTING PLUMBING, SANITARY AND VENT LINES PRIOR TO STARTING WORK.

3. CONTRACTOR TO PROVIDE ALL FITTINGS, ACCESSORIES, AND MATERIALS REQUIRED TO FACILITATE THE COMPLETION OF THE WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

4. REMOVE AND DISPOSE OF ALL UNUSED FIXTURES, EQUIPMENT, PIPING, VALVES, HANGERS/SUPPORTS ETC. UNLESS OTHERWISE NOTED.

5. ALL PIPING SHALL BE ROUTED ABOVE CEILING SPACE UNLESS OTHERWISE NOTED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE, TIGHT TO THE UNDERSIDE OF THE STRUCTURE AND WRAPPED IN PVC JACKET.

6. ALL PIPING SHALL BE CONCEALED IN WALL SPACE AND BEHIND FIXED FURNISHINGS (MILLWORK) UNLESS OTHERWISE NOTED.

7. SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS ETC. AS REQUIRED FOR PIPING. VERIFY LOCATION OF ANY AND ALL STRUCTURAL BEAMS, JOISTS, ETC. PRIOR TO COMMENCEMENT OF DRILLING. CONFIRM AND COORDINATE ALL REQUIREMENTS AND ALL COSTS.

8. CONTRACTOR TO PROVIDE TEST PLUGS IN ALL PLUMBING AND SANITARY/VENT PIPING DURING CONSTRUCTION TO PREVENT ANY DEBRIS FROM ENTERING SYSTEM UNTIL FINAL PRODUCT IS INSTALLED.

9. WHEREVER FOUNDATIONS, EXTERIOR WALLS OR ROOFING SYSTEMS ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.

10. ACCESS PANELS TO BE PROVIDED WHERE VALVES, CONTROL DEVICES, ETC. ARE CONCEALED WITHIN WALLS OR CEILING ASSEMBLIES. ALL DEVICES REQUIRING ACCESS FOR MAINTENANCE OR ADJUSTMENT SHALL BE MADE ACCESSIBLE.

11. ALL CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING SHALL BE PROTECTED WITH AN ISOLATION, DIELECTRIC UNION/COUPLING.

12. FIRE-STOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRE STOPPING SYSTEM/MATERIALS.

13. PROVIDE A METHOD OF ISOLATION IE: BALL VALVES, FOR ALL DOMESTIC HOT AND COLD WATER BRANCHES OFF THE MAIN. ENSURE ADEQUATE ACCESS PROVIDED FOR ISOLATION DEVICES AS INDICATED ABOVE.

14. ALL PIPING, INSULATIONS, SANITARY AND VENT LINES RUN IN A PLENUM SPACE SHALL BE RATED FOR SUCH DUTY.

15. ALL FIXTURES AND DEVICES ASSOCIATED WITH DOMESTIC HOT AND COLD WATER TO MEET NSF/ANSI STANDARD 61 FOR LEAD CONTENT.

16. PRIME ALL FLOOR DRAINS TO NEAREST COLD WATER LINE COMPLETE WITH LEAD FREE TRAP PRIMER VALVE.

VENTILATION GENERAL NOTES:

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, AND ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.

2. ALL EQUIPMENT TO BEAR THE CSA AND ULC LABELS.

3. REMOVE AND LEGALLY DISPOSE OF ALL UNUSED EQUIPMENT, DUCTWORK, PIPING, VALVES, DIFFUSERS/GRILLES, HANGERS/SUPPORTS, CONTROL WIRING ETC. UNLESS OTHERWISE NOTED. ALL OPENINGS CREATED BY THE REMOVAL PROCESS TO BE PROPERLY SEALED AND MATCH ALL EXISTING RATINGS.

4. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, VERIFY ALL LOCATIONS, ROUTING, PENETRATIONS AND SIZES FOR DUCT, PIPE, EQUIPMENT ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE CONSULTANT.

5. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.

6. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A METHOD OF DISCONNECTION AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND ELECTRICAL DRAWINGS. DISCONNECT SWITCH TO BE SUPPLIED BY MECHANICAL DIVISION, INSTALLED AND WIRED BY ELECTRICAL DIVISION.

7. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. ALL CONTROL WIRING TO BE ITS PLENUM RATED WHERE RUNNING IN RETURN AIR PLENUMS.

8. UNLESS OTHERWISE NOTED, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

9. CONNECTIONS TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS, TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.

10. DUCT CONSTRUCTION INCLUDING GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND ASHRAE GUIDELINES.

11. UNLESS OTHERWISE NOTED PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT.

12. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. PROVIDE LINTELS AS REQUIRED AND CARRY ALL COSTS.

13. COORDINATE ALL DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.

14. LOCATE ERY CONTROLS, THERMOSTATS AT 47" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.

15. ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, AS SPECIFIED AND AS PER SMACNA GUIDELINES. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.

16. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.

17. ACCESS PANELS IN DUCTWORK AND CEILING SHALL BE PROVIDED WHERE REQUIRED FOR OPERATIONS, BALANCING OR MAINTENANCE OF MECHANICAL EQUIPMENT. NOTE THAT WHERE REMOVABLE CEILING PANELS EXISTS, ACCESS DOORS/PANELS ARE NOT REQUIRED.

18. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS ETC. TO ALLOW SMOOTH FLOWS.

19. VERIFY ALL FINISHES AND COLOURS WITH ARCHITECT PRIOR TO PURCHASING ANY/ALL DIFFUSERS, GRILLES, REGISTERS, LOUVERS AND DISTRIBUTION DEVICES.

20. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTION TO EACH FAN, HRV, AIR HANDLING UNITS, AND FAN COIL UNITS AND ANY OTHER EQUIPMENT CAPABLE OF TRANSFERRING VIBRATIONS CONNECTED WITH DUCTWORK.

21. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES, PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.

22. FIRE STOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRE STOP SYSTEM MATCHING WALL/FLOOR ASSEMBLY'S FIRE RATING. CONFIRM WITH ARCHITECTURAL DRAWINGS FOR EXACT RATINGS AND LOCATIONS.

23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" FROM ANY/ALL PLUMBING VENTS AND EXHAUSTS AIR DISCHARGE LOCATIONS.

24. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.

25. INSULATE ALL AIR INTAKE DUCTWORK AND ALL EXHAUST DUCTWORKS A MINIMUM OF 10" FROM EXHAUST LOUVER.

26. PROVIDE BALANCING DAMPERS FOR ALL NEW DUCTWORK THAT HAS BRANCH CONNECTIONS, ENSURE ADEQUATE ACCESS AVAILABLE IF NOT THEN ACCESS TO BE PROVIDED AS PART OF THE SCOPE OF WORK.

27. PROVIDE VIBRATION ISOLATION FOR ALL SUSPENDED EQUIPMENT.

MECHANICAL LEGEND

DOMESTIC COLD WATER

DOMESTIC HOT WATER

SANITARY ABOVE GRADE

SANITARY BELOW GRADE

VENT ABOVE GRADE

BALL VALVE

THERMOSTATIC MIXING VALVE

PIPE DROP

PIPE RISE

PLUMBING VENT RISER

DRAIN CONNECTION

BACKFLOW PREVENTOR

WATER METER

P-TRAP

UNION

FLOOR DRAIN

SANITARY CLEANOUT (IN FLOOR)

SANITARY CLEANOUT (IN WALL/CEILING)

FIRE EXTINGUISHER

EXISTING TO REMAIN

DUCT WITH DIMENSIONS, FIRST DIMENSION IS SIDE SHOWN

DUCT C/W INSULATION

DUCT SECTION UP

DUCT SECTION DOWN

BRANCH TAKE-OFF - C/W BALANCING DAMPER

WALL REGISTER - SUPPLY

WALL REGISTER - RETURN

MANUAL BALANCING DAMPER

IN DUCT HEATING COIL

DIFFUSER / GRILLE TYPE AND AIRFLOW
A = TYPE (EX = EXISTING), B = AIR FLOW

AIR TEMPERATURE SENSOR

ERV CONTROLLER

PUSH BUTTON AS NOTED

TRUE NORTH

PROJECT NORTH

GENERAL NOTES:

1. THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST BE REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK.

3. ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.

4. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS.

5. DO NOT SCALE THE DRAWINGS.

REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	ISSUE FOR PERMIT AND TENDER.	JUN. 28, 2023

Project Status:

ISSUED FOR PERMIT AND TENDER

Seal:

LICENSED PROFESSIONAL ENGINEER
23-300
JUN. 28, 2023
B.R. WEIDNER
100149107
PROVINCE OF ONTARIO

SUPPA
ENGINEERING

Suppa Engineering
592 Cassells Street
North Bay, ON P1B 3Z7
Tel: 705-707-2121
www.suppaengineering.ca

Project:

SOUTH RIVER TRAIN STATION

Address:
South River, Ontario

Drawing Title:

MECHANICAL
PLUMBING & VENTILATION
LEGEND, NOTES, SCHEDULES
AND SPECIFICATION

Project No:

22-052

Drawn By: MBM

Date: Jun. 29, 23

Checked By: BW

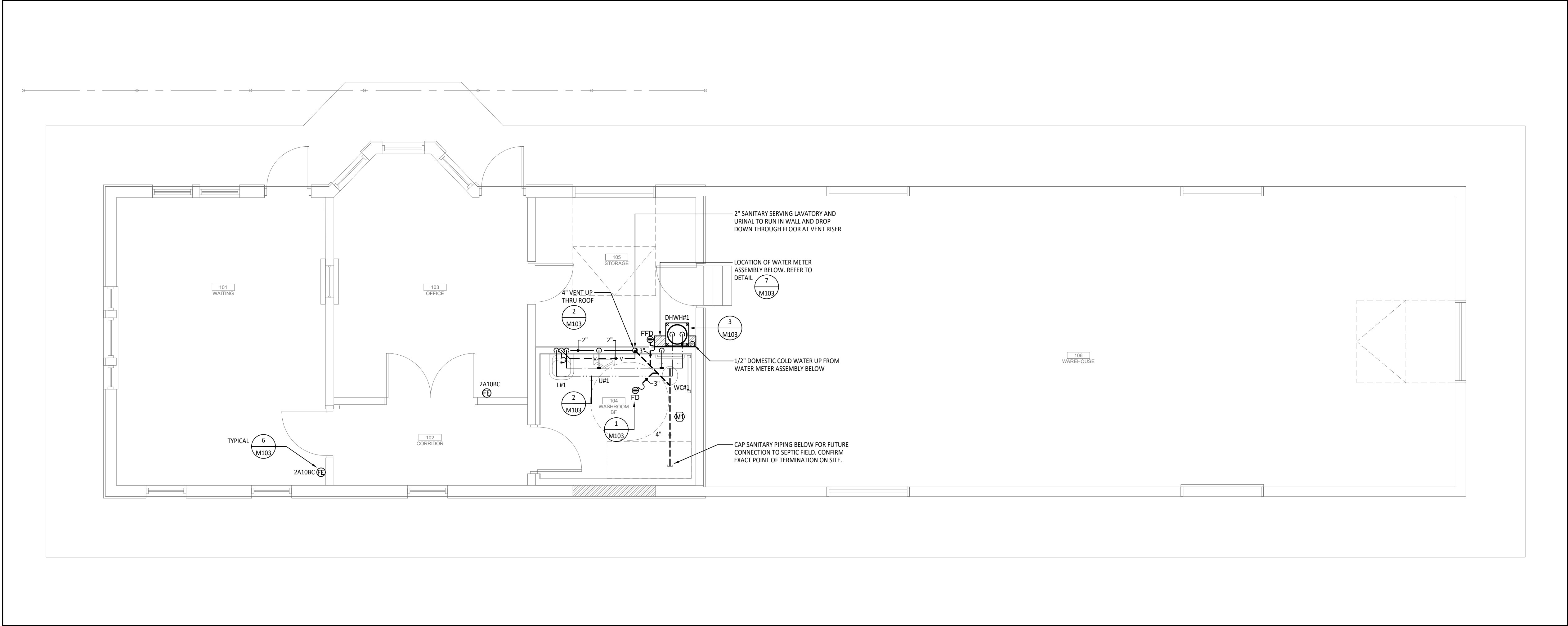
Scale: AS NOTED

Drawing No:

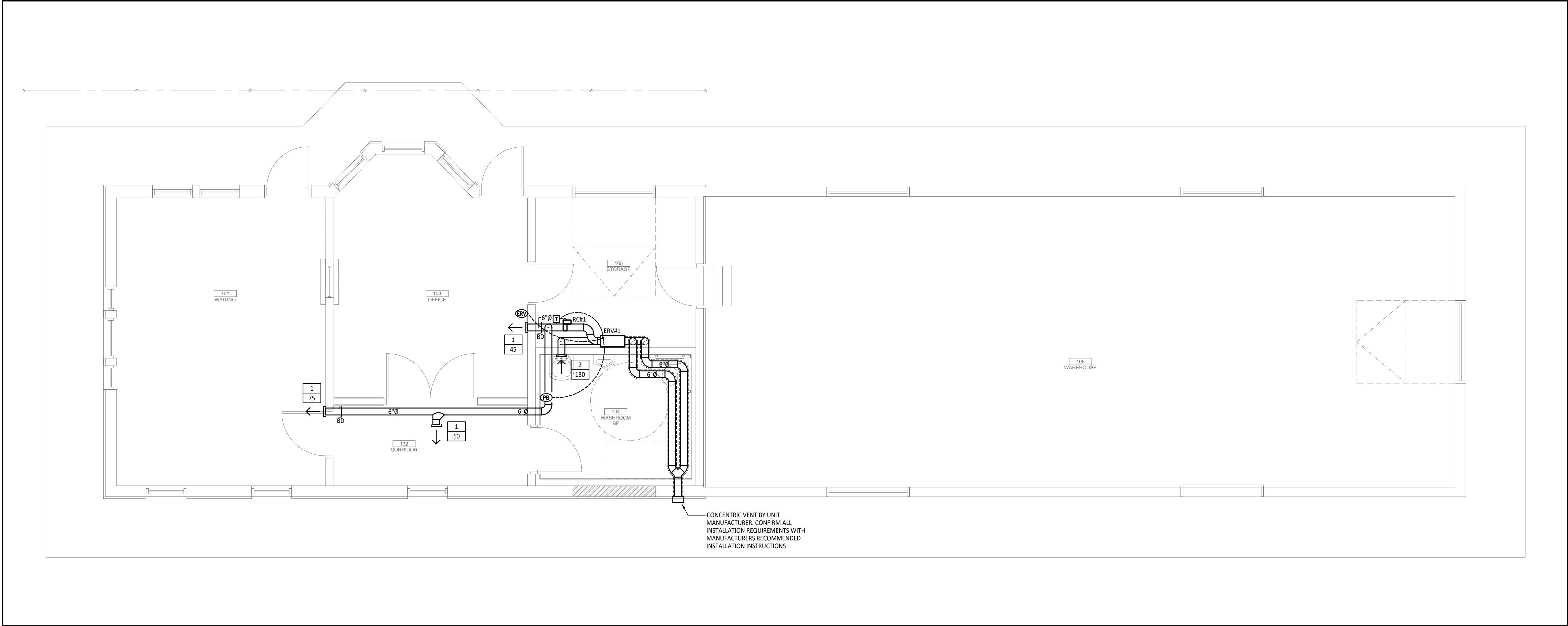
M101

Revision:

0



1 PLUMBING FLOOR PLAN
SCALE: 1:50



2 VENTILATION FLOOR PLAN
SCALE: 1:50

MECHANICAL DRAWING NOTES:
ALL SANITARY AND VENT PIPING IN OPENING BELOW THE FLOOR ASSEMBLY TO BE INSULATED AS FOLLOWS:
1. PROVIDE MINIMUM 2" FOIL BACK INSULATION WITH WEATHERPROOF JACKETING TO ALL PIPING. ALL PIPING TO BE HEAT TRACED PRIOR TO INSULATING. COORDINATE WORK WITH ELECTRICAL CONTRACTOR.
2. SEAL ALL INSULATION AT PIPE PENETRATIONS TO UNDERSIDE OF FLOOR WEATHER TIGHT. PROVIDE ESCUTCHEON PLATE AS REQUIRED.

↑

TRUE NORTH

↑

PROJECT NORTH

GENERAL NOTES:
1. THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST BE REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS.
5. DO NOT SCALE THE DRAWINGS.

REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT AND TENDER	JUN. 28, 2023

Project Status:
ISSUED FOR PERMIT AND TENDER

Seal:

LICENSED PROFESSIONAL ENGINEER
23-300
JUN 28, 2023
B. R. WENDOVER
100149707
PROVINCE OF ONTARIO

SUPPA
ENGINEERING

Suppa Engineering
592 Cassells Street
North Bay, ON P1B 3Z7
Tel: 705-707-2121
www.suppaengineering.ca

Project:
SOUTH RIVER TRAIN STATION

Address:
South River, Ontario

Drawing Title:
**MECHANICAL
PLUMBING & VENTILATION
FLOOR PLANS**

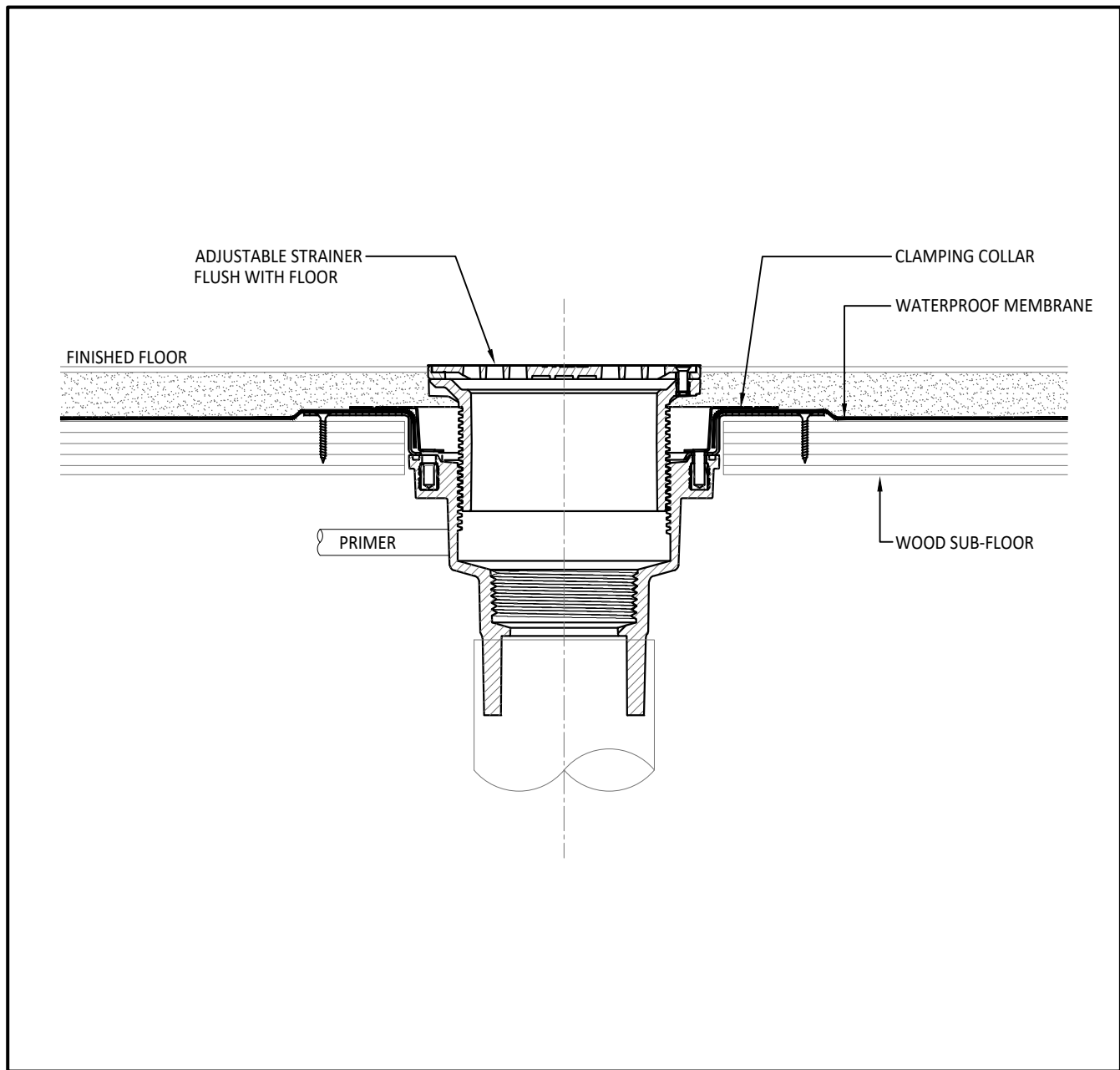
Project No:
22-052

Drawn By: MBM
Checked By: BW
Drawing No:

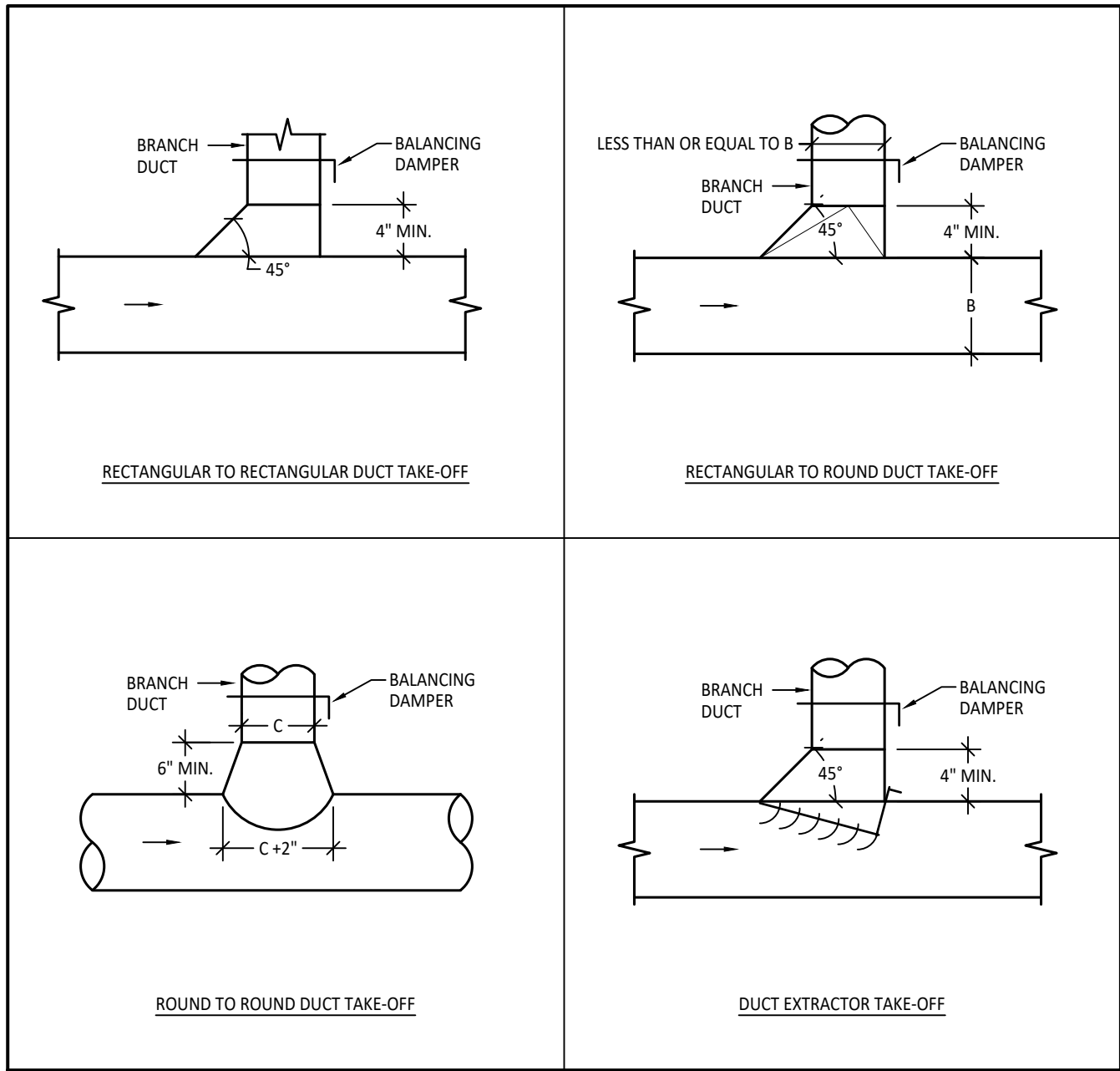
Date: Jun. 29, 23
Scale: AS NOTED
Revision:

M102

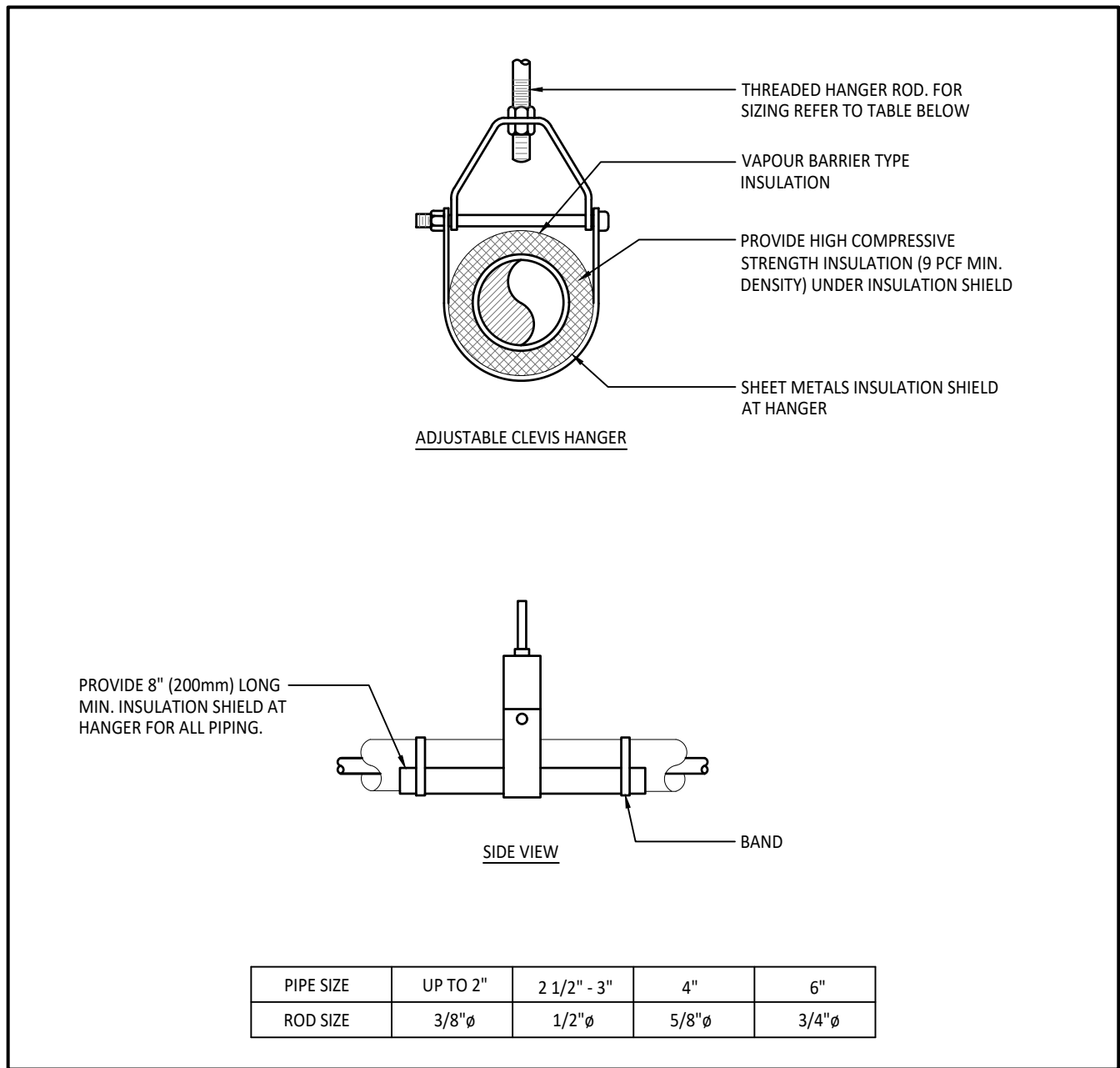
0



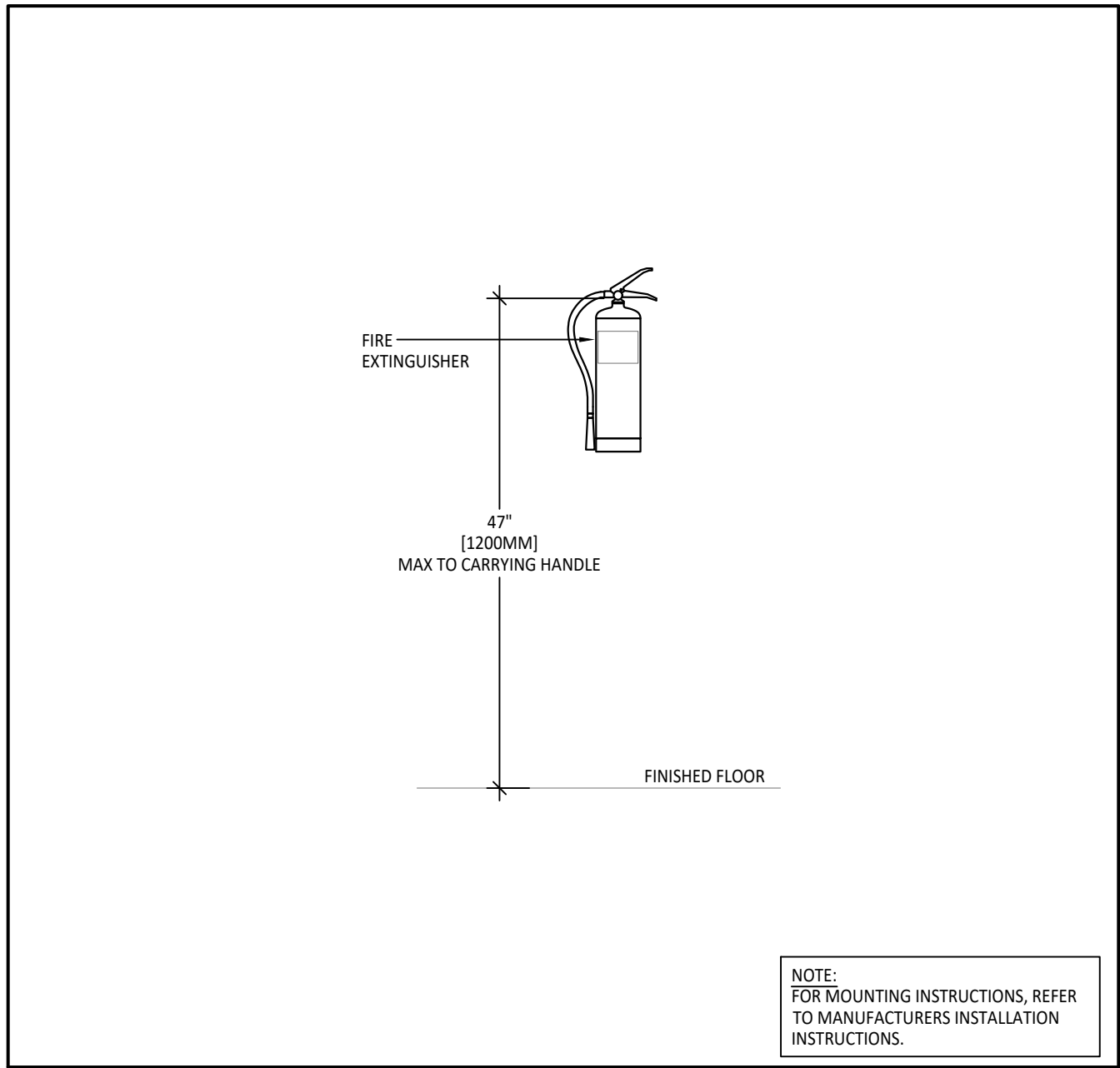
1 FLOOR DRAIN INSTALLATION DETAIL - WOOD FLOOR
SCALE: N.T.S.



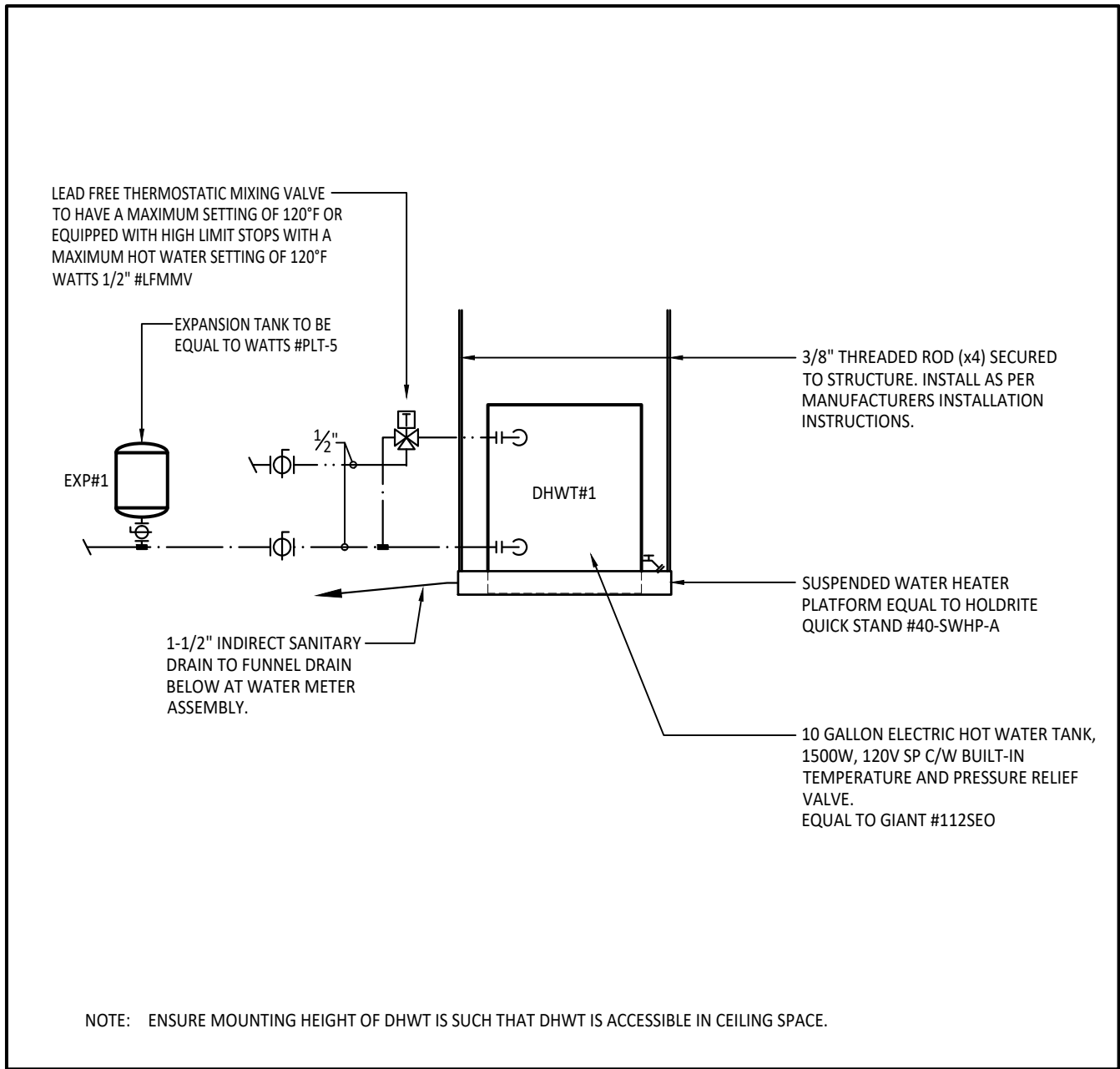
5 DUCT TAKE-OFF INSTALLATION DETAIL
SCALE: N.T.S.



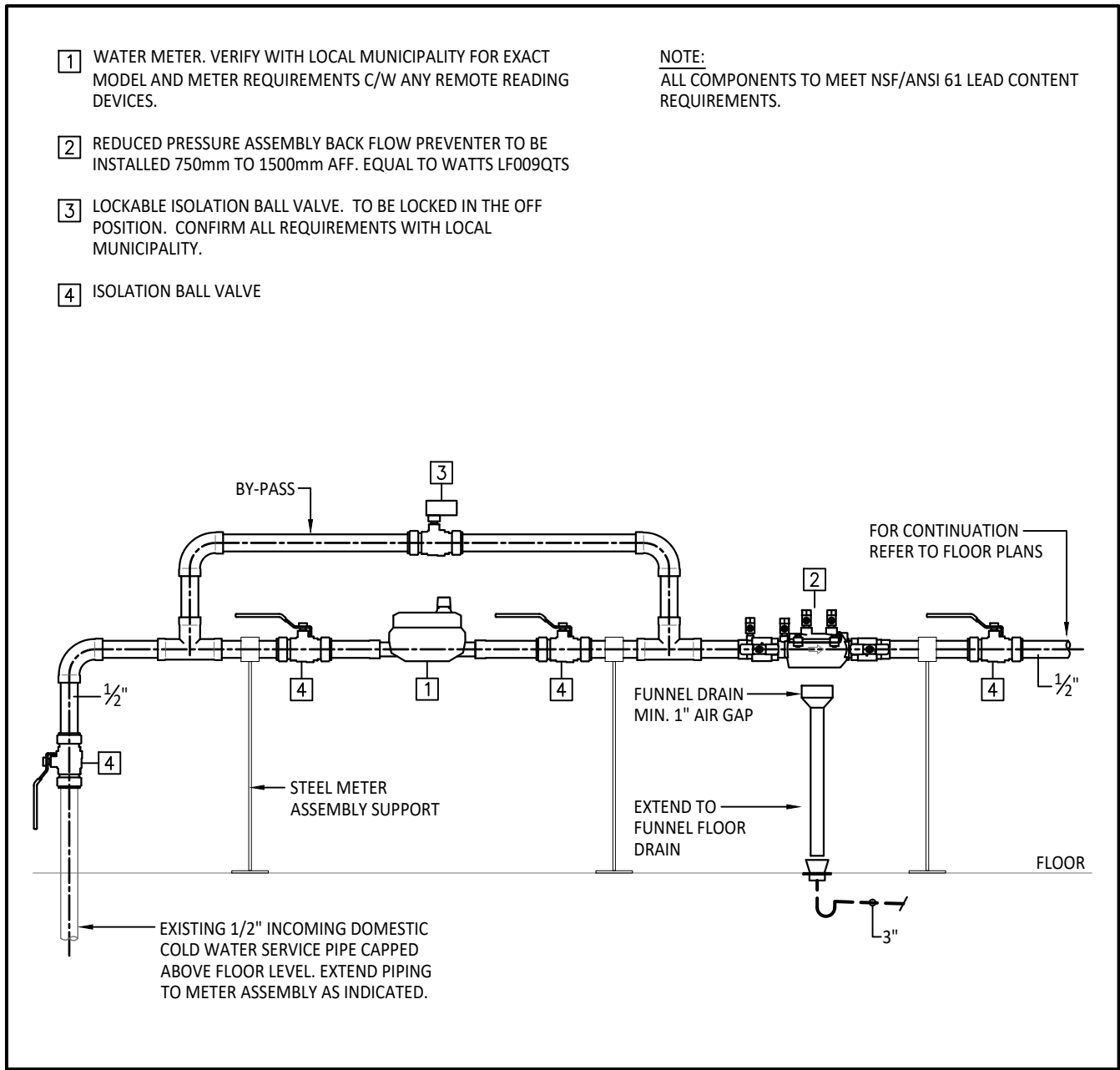
2 TYPICAL PIPE HANGER SUPPORT DETAIL
SCALE: N.T.S.



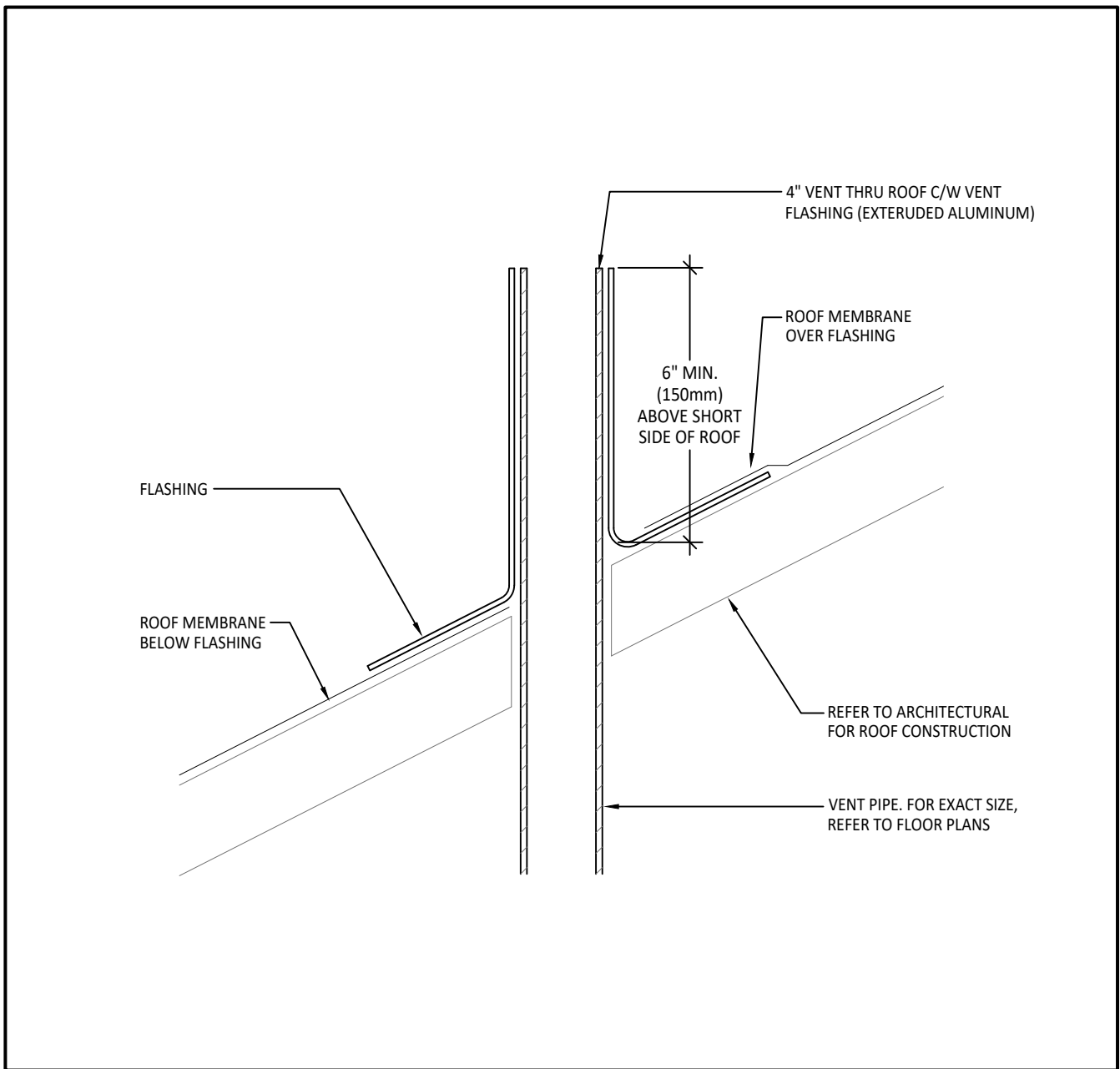
6 WALL MOUNTED FIRE EXTINGUISHER DETAIL
SCALE: N.T.S.



3 ABOVE CEILING - DOMESTIC HOT WATER TANK INSTALLATION
SCALE: N.T.S.



7 WATER METER ASSEMBLY DETAIL
SCALE: N.T.S.



4 VENT THRU SLOPED ROOF INSTALLATION DETAIL
SCALE: N.T.S.

↑

TRUE NORTH

↑

PROJECT NORTH

GENERAL NOTES:
1. THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST BE REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS.
5. DO NOT SCALE THE DRAWINGS.

REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT AND TENDER	JUN. 28, 2023

Project Status:

ISSUED FOR PERMIT AND TENDER

Seal:

LICENSED PROFESSIONAL ENGINEER
23-300
Jun 28, 2023
B. R. WENDOVER
100149707
PROVINCE OF ONTARIO

SUPPA
ENGINEERING

Suppa Engineering
592 Cassells Street
North Bay, ON P1B 3Z7
Tel: 705-707-2121
www.suppaengineering.ca

Project:

SOUTH RIVER
TRAIN STATION

Address:
South River, Ontario

Drawing Title:
MECHANICAL
PLUMBING & VENTILATION
DETAILS

Project No:

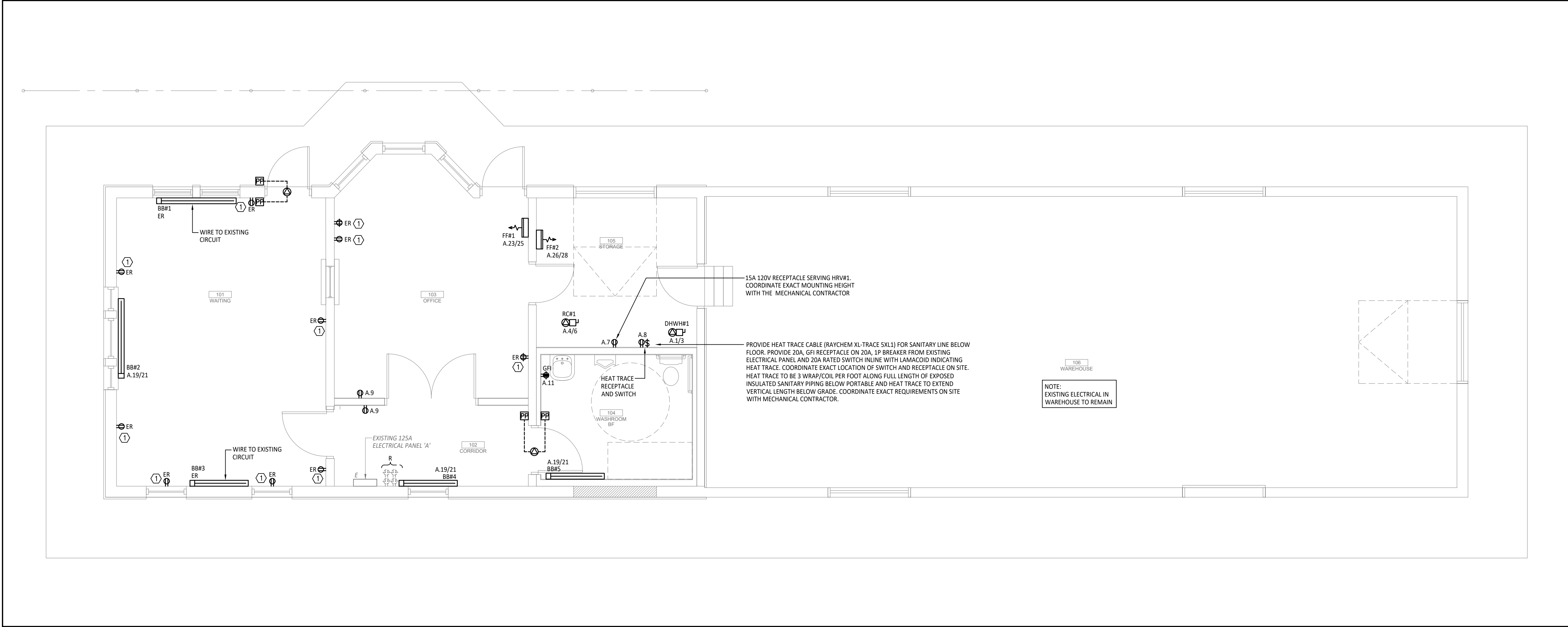
22-052

Drawn By: MBM
Checked By: BW
Drawing No:

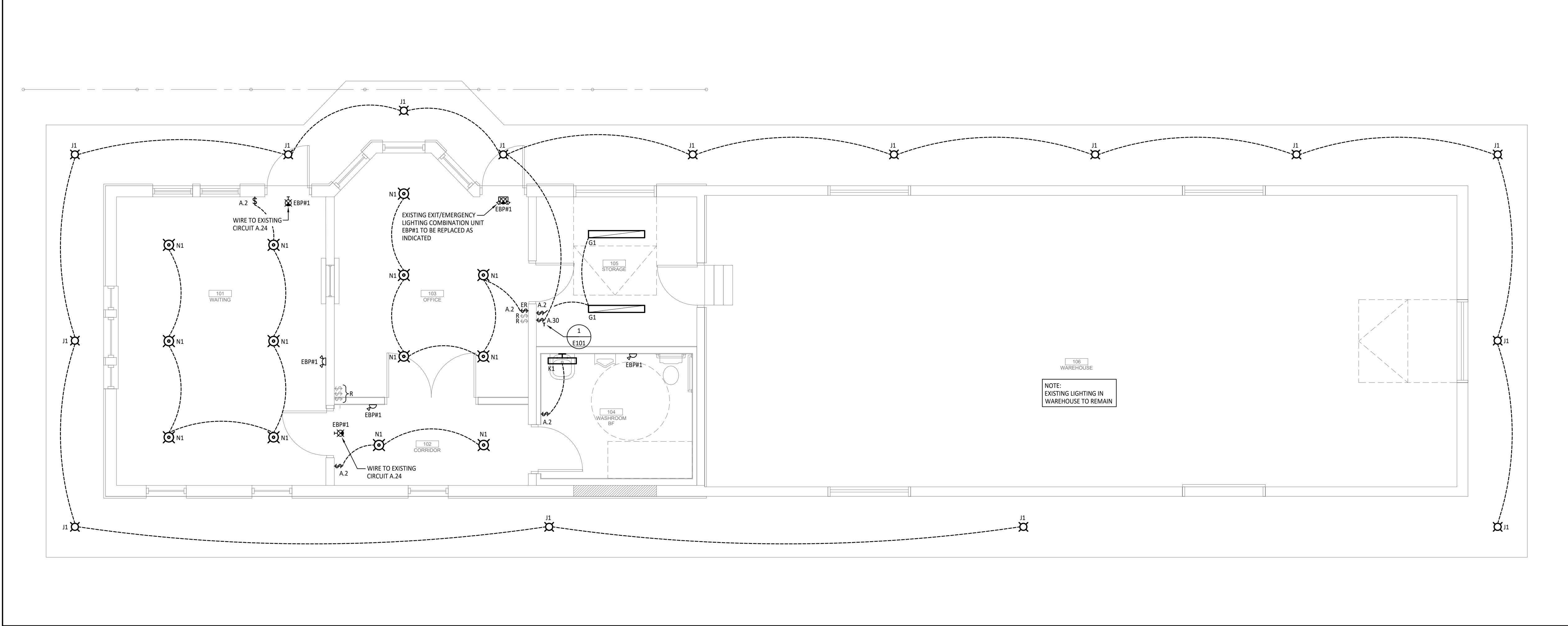
Date: Jun. 29, 23
Scale: AS NOTED
Revision:

M103

0



1 POWER FLOOR PLAN
SCALE: 1:50



2 LIGHTING FLOOR PLAN
SCALE: 1:50

ELECTRICAL DRAWING NOTES:

① EXISTING RECEPTACLES TO BE REPLACED WITH NEW C/W STAINLESS STEEL COVER PLATE. EXISTING WIRING AND CIRCUIT TO REMAIN. REFER TO SPECIFICATION FOR MORE DETAILS.

REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT AND TENDER	JUN. 28, 2023

Project Status:

ISSUED FOR PERMIT AND TENDER

Seal:

SUPPA ENGINEERING

Suppa Engineering
592 Cassells Street
North Bay, ON P1B 3Z7
Tel: 705-707-2121
www.suppaengineering.ca

Project:

SOUTH RIVER TRAIN STATION

Address:
South River, Ontario

Drawing Title:

ELECTRICAL POWER AND LIGHTING FLOOR PLANS

Project No:

22-052

Drawn By: MBM	Date: Jun. 29, 23
Checked By: RS	Scale: AS NOTED
Drawing No:	Revision:

E102

0