

1 General

The following amendments are hereby made an integral part of the Contract Documents for the above project, including all applicable sub-contractors affected.

1.1 NOTES

- .1 Indicate the receipt of this Addendum on the specified Tender Form as required.
- .2 Included attachments are as follows:
 - .1 Reissued Architectural Drawings reissued for Tender and Permit dated March 25, 2024 from Bertrand Wheeler architecture inc. (5 pages, 24x36 size)
 - .1 A0.1, General Notes, OBC Matrix
 - .2 A0.2, Legends, Fire Separations and Door Details
 - .3 A1.0, Overall Site Plan
 - .4 A1.1, Detailed Site Plan, Existing & Selective Demolition
 - .5 A1.2, Detailed Site Plan, Proposed Work
 - .2 Various Architectural Drawing Revisions issued for Addenda dated March 25, 2024 from Bertrand Wheeler architecture inc. (3 pages, letter size)
 - .1 AD-1.1, Brick Masonry Clarifications
 - .2 AD-1.2, Ramp Landing Revisions
 - .3 AD-1.3, Ramp Landing Revisions
 - .3 Revised or New Architectural Specifications issued for Addenda
 - .1 Revised Specification Section 10800, Toilet, Bath and Laundry Accessories (4 pages, letter size).
 - .4 Mechanical & Electrical Addendum ME01 dated March 21, 2024 from Suppa Engineering (2 pages, letter size, plus 3 revised full size Drawings M201, M202 and E102).
 - .5 Lakeland Power Electrical Upgrade Information (10 pages, various sizes).
 - .6 Designated Substances Survey Report dated September 2022 from EHS Partnerships Limited. (22 pages, letter size).
- .3 List of Contractors in attendance at the Site Meeting dated March 18, 2024 is as follows. Note that the meeting was mandatory for General Contractors only.
 - .1 General Contractors (in alphabetical order)
 - Anacond Contracting
 - Helix Contracting
 - Quinan Construction
 - Stuart & Hill Construction
 - WS Morgan Contracting
 - Yousu Fi Renovation Inc.

2 Amendments

2.1 GENERAL AMENDMENTS AND CLARIFICATIONS

- .1 For all ramp framing and structure, for all discrepancies between the Architectural and Structural documents, the Structural Engineering Documents shall govern.
- .2 The decking for all decks, ramp and landings shall be revised to Composite Wood Decking with concealed fastener systems.
 - .1 Acceptable product Trex Transcend Lineage, with heat mitigating surfaces, or approved equal.
 - .2 (1) Colour to be later selected from manufacturer's full colour range.
 - .3 Install as per manufacturer's instructions.
- .3 The Contractor shall salvage all security and protective cages and enclosures for thermostats, baseboard heaters, etc and hand over to Owner in reusable condition.
- .4 The Contractor shall disconnect, remove, salvage and hand over to owner up to (20) cameras and security devices throughout the facility. Wiring to remain intact and identified for ease of reinstallation. Reinstallation shall be by Owner or others.

2.2 PROJECT MANUAL SPECIFICATIONS

- .1 Refer to Specifications Section 01021 Allowances, Paragraph 1.4 Cash Allowances, Item .9.
 - .1 Increase of cash allowances by \$2,500.00 for associated costs with Lakeland Power approvals.

CLARIFICATION: The overall amount of cash allowances shall be **\$27,500.00**.

- .2 Refer to Specification Section 00225 Designated Substances Survey, Geotechnical Report & Property Survey.
 - .1 Insert the attached Designated Substances Survey.
- .3 Refer to Specification Section 10800, Toilet, Bath and Laundry Accessories. Replace the Section with the attached revised Specification Section.
- .4 Refer to Specification Section 11603, Stainless Steel Countertops. No stainless steel countertops are included. Delete and remove this Section in its entirety.

2.3 PROJECT DRAWINGS

- .1 Replace Drawing A0.1 with reissued Drawing A0.1. Revisions are limited to numbering corrections.
- .2 Replace Drawing A0.2 with reissued Drawing A0.2. Note the refinements to the door trim and frame details.

- .3 Replace Drawing A1.0 with reissued Drawing A1.0, Overall Site Plan. Especially note path for electrical service trench.
- .4 Replace Drawing A1.1 with reissued Drawing A1.1, Detailed Site Plan, Existing & Selective Demolition. Especially note property fence replacement and existing courtyard fence scope.
- .5 Replace Drawing A1.2 with reissued Drawing A1.2, Detailed Site Plan, Proposed Work.
- .6 Refer to Drawing A2.0, Lower Level Plan
 - .1 Replace and extend window sills, jambs and headers for (2) windows along the north wall of Multipurpose Room 010. Install typical trims and casings. Trims and window returns shall be painted solid pine.
 - .2 Replace all pine wainscoting and wall finishes within Mech Services / Corridor 003 with painted GWB and trims to suit doors and frames.
- .7 Refer to Drawing A2.1, Main Level Plan
 - .1 Salvage and reinstall the existing baby change table for Washroom 109. Provide blocking to suit.
- .8 Refer to Drawing A3.1, Lower and Main Level Reflected Ceiling Plan
 - .1 Note that the ceiling finish within Office 012 is existing ACT. To remain.
- .9 Refer to Drawings A4.0 and A4.1, Elevations.
 - .1 Refer to Drawing AD-1.1 for revisions to Brick Masonry work.
- .10 Refer to Drawings A5.0, A5.1 and A5.2, Ramp Details.
 - .1 Refer to Drawings AD-1.2 and AD-1.3 for revisions to ramps and landings.

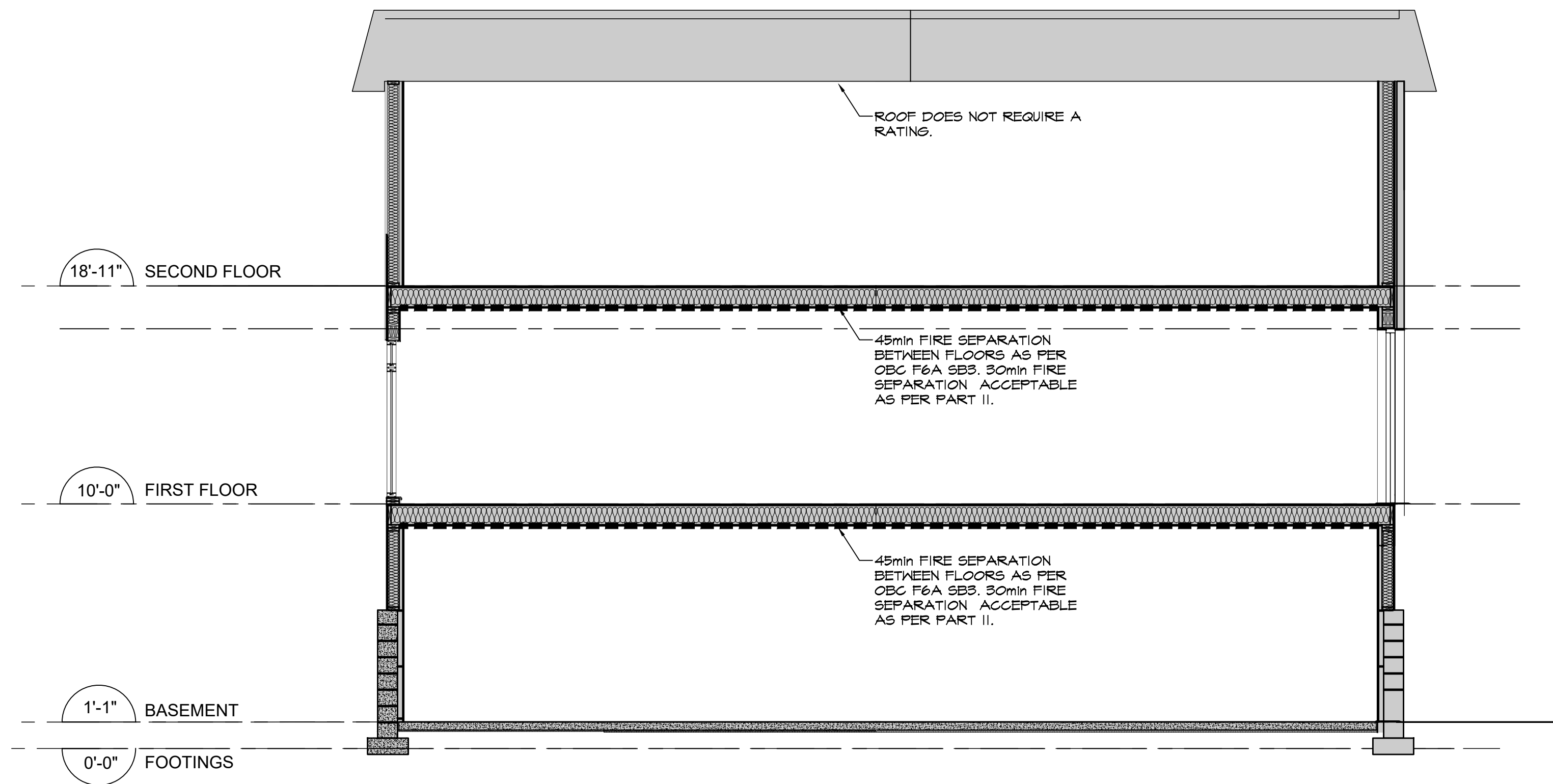
2.4 STRUCTURAL

- .1 none

2.5 MECHANICAL & ELECTRICAL

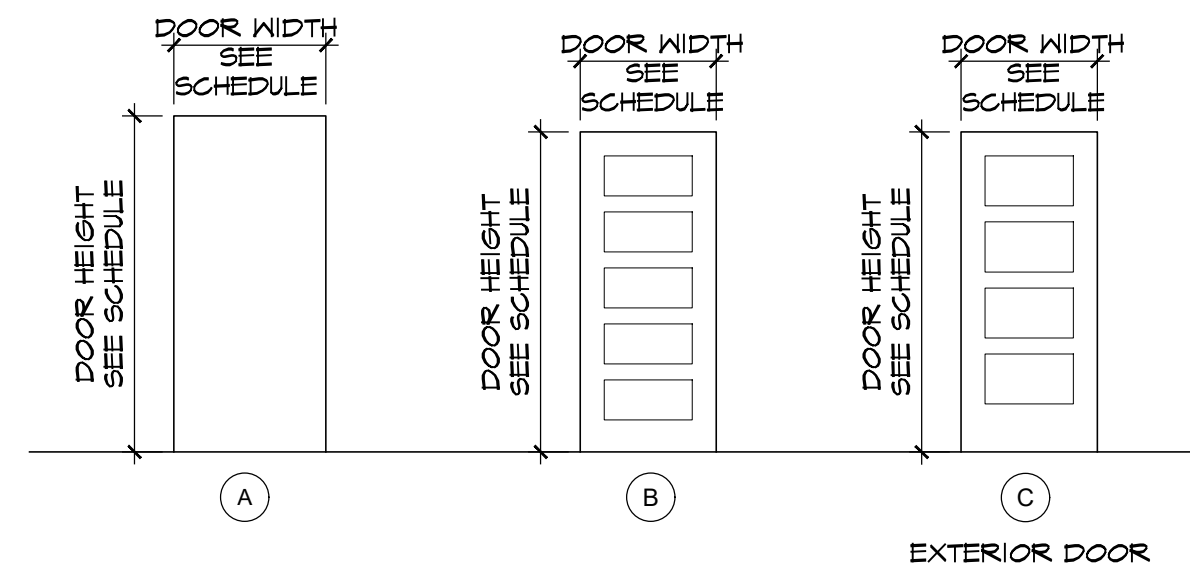
- .1 See attached Mechanical & Electrical Addendum ME01 from Suppa Engineering for full details.
- .2 Note that all sinks shall be undermount sinks.
- .3 Construct new concrete pads to suit new Condensing Unit details.

End of Addendum



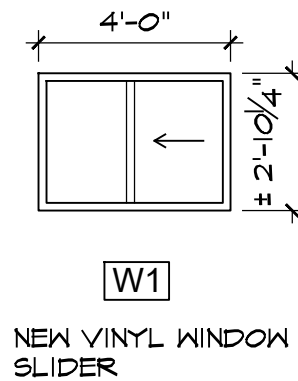
1 FIRE SEPARATION BUILDING SECTION
SCALE 1/4"=1'-0"

DOOR ELEVATIONS



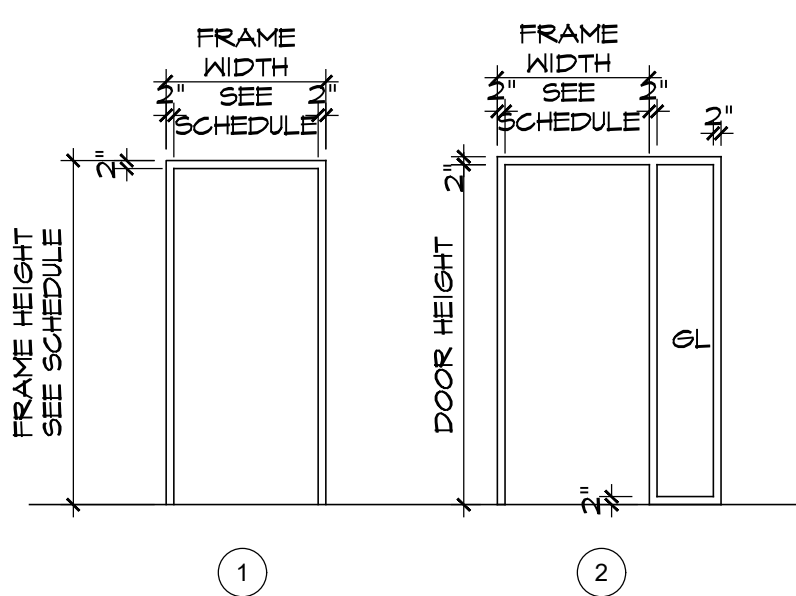
EXTERIOR DOOR

4 WINDOW ELEVATION
SCALE 1/4"=1'-0"

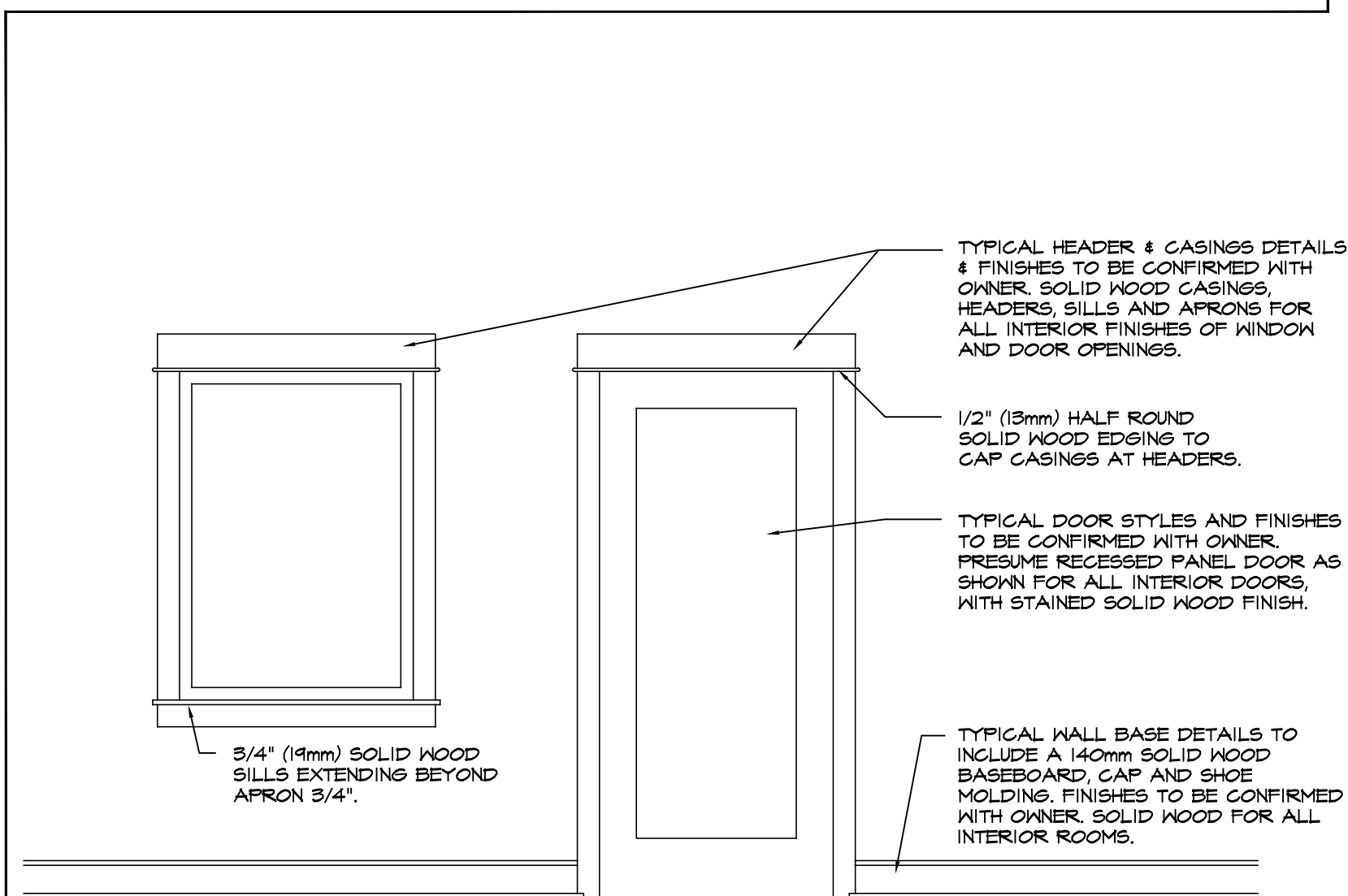


W1
NEW VINYL WINDOW SLIDER

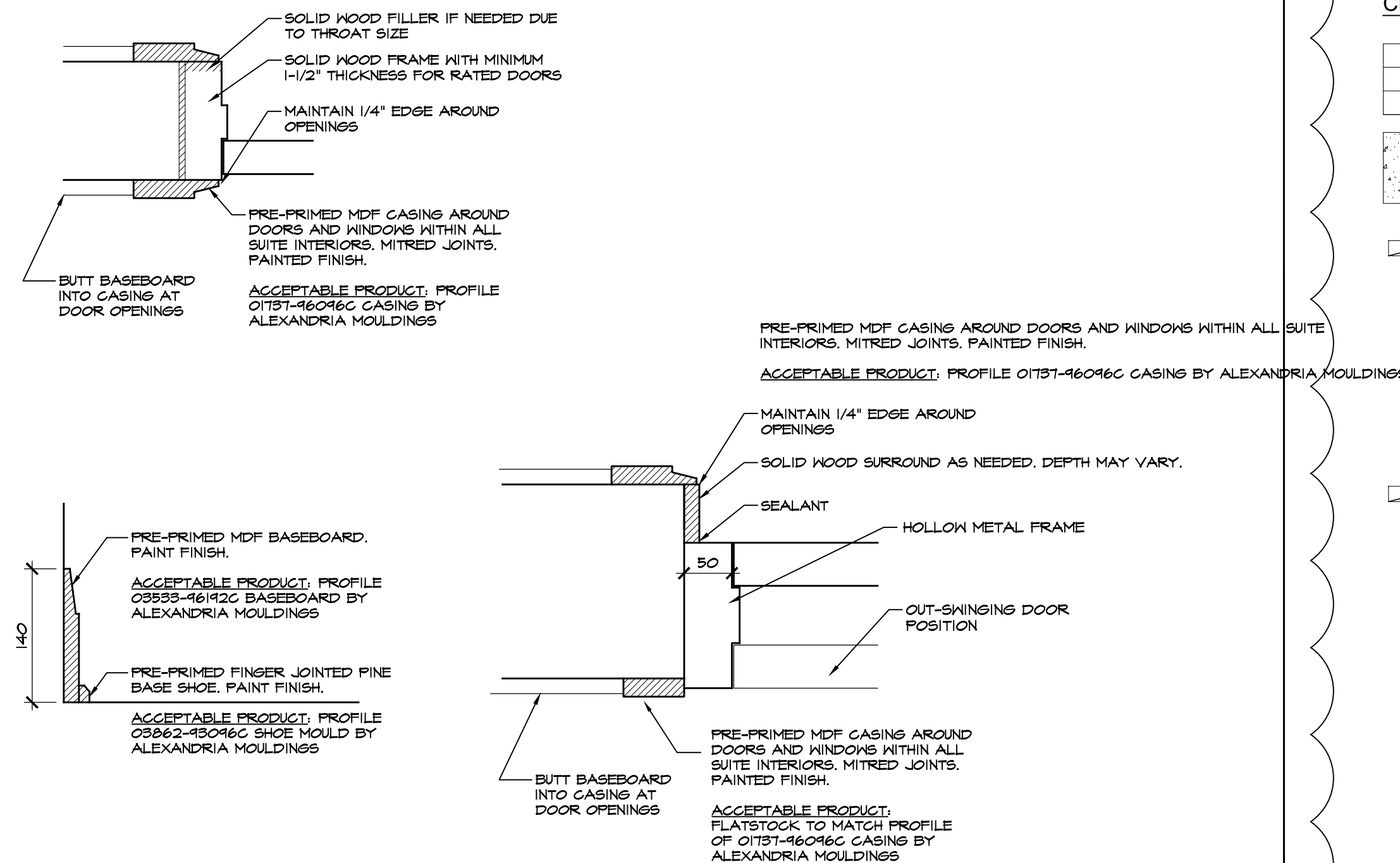
FRAME ELEVATIONS



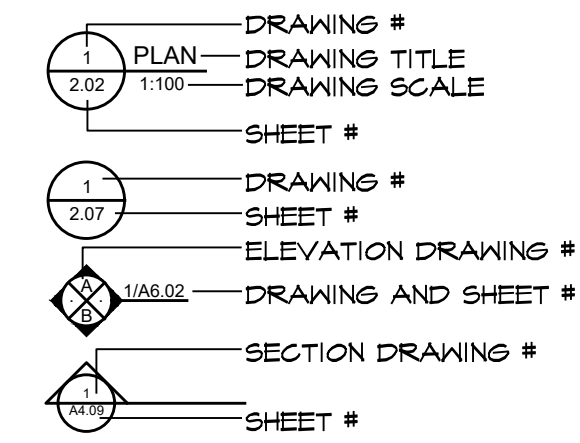
2 DOOR AND FRAME ELEVATIONS
SCALE 1/4"=1'-0"



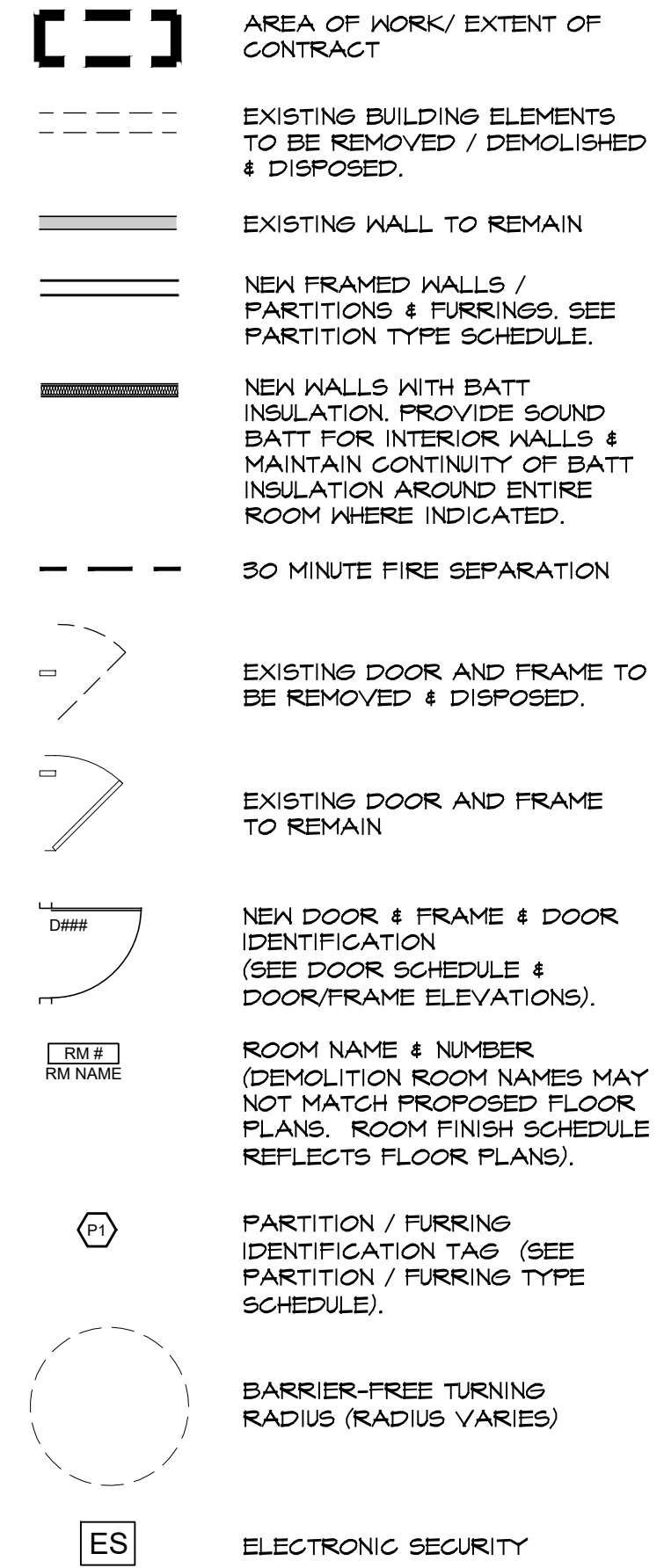
5 TYPICAL TRIM DETAILS
SCALE 1/2"=1'-0"



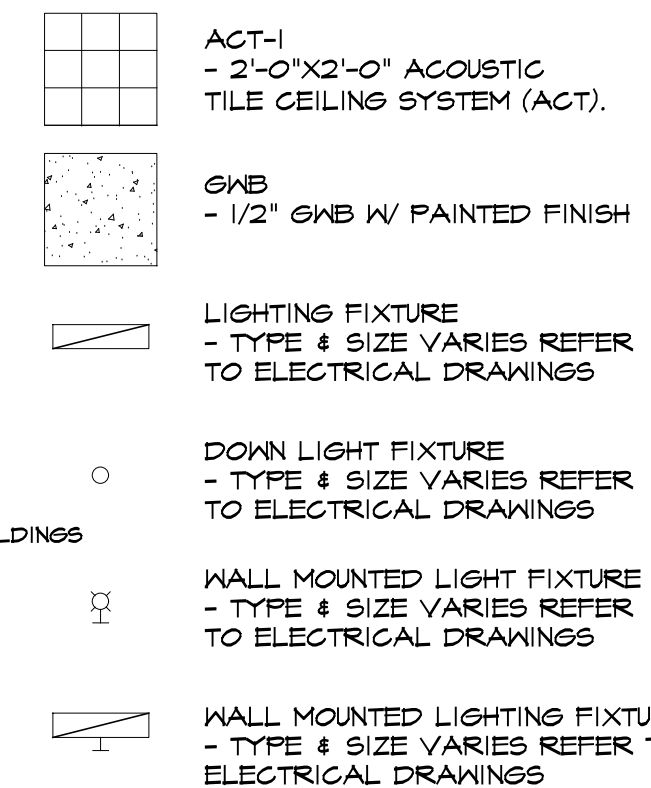
GENERAL SYMBOL LEGEND



LEGEND: DEMOLITION / FLOOR PLAN



CEILING PLAN LEGEND:

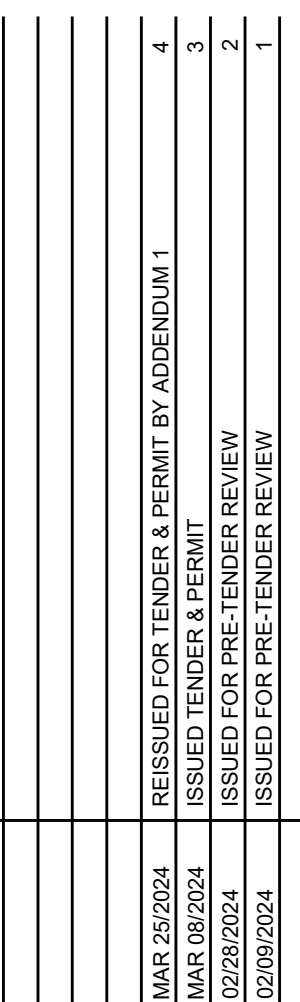
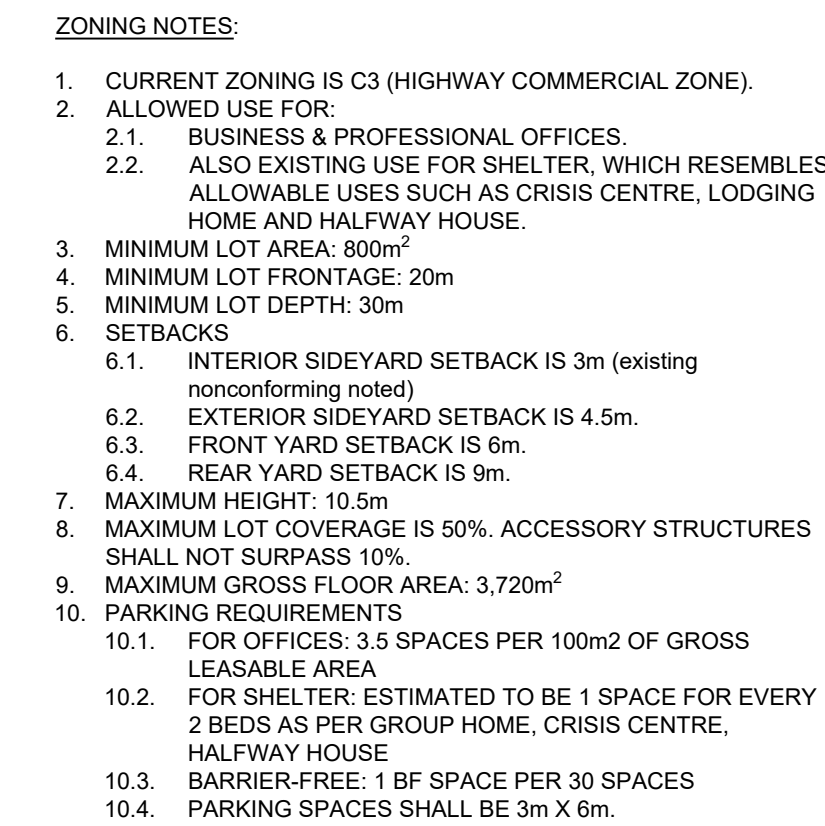


ESPRIT PLACE RENOVATION
DIST. OF PARRY SOUND SOCIAL SERVICES ADMIN. BD.
3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

LEGENDS
FIRE SEPARATION BUILDING SECTION
DOOR AND FRAME ELEVATIONS & DETAILS

drawn by: KD/JA
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date plotted: Mar 25, 2024
revision date: Mar 08, 2024
dwg no:

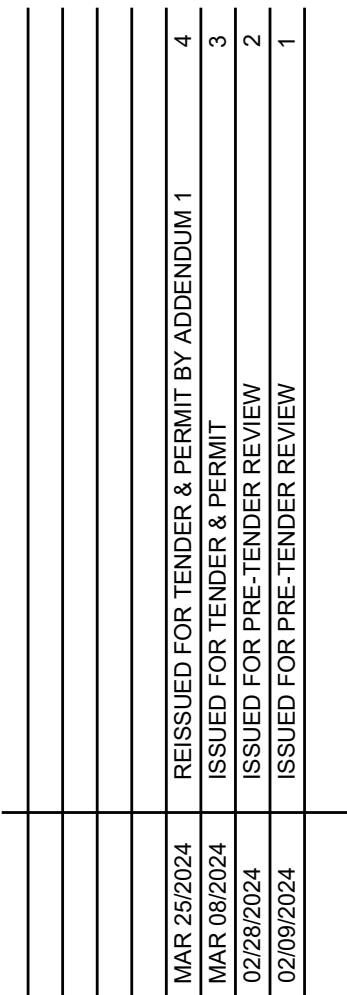
A0.2



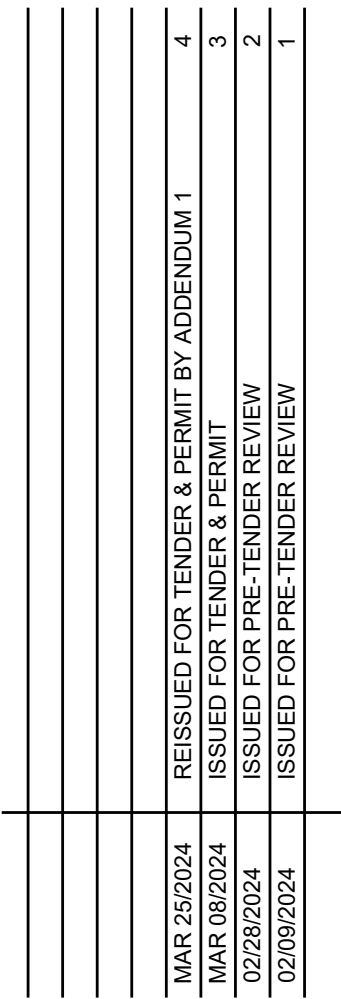
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revision date: Mar 08, 2024	

dwg no:

A1.0



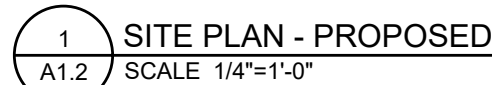
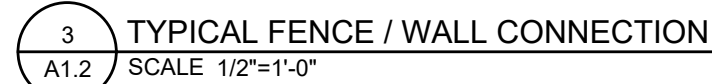
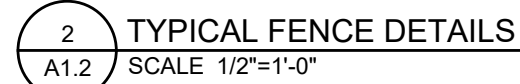
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date plotted: Mar 23, 2024	
revision date: Mar 04, 2024	



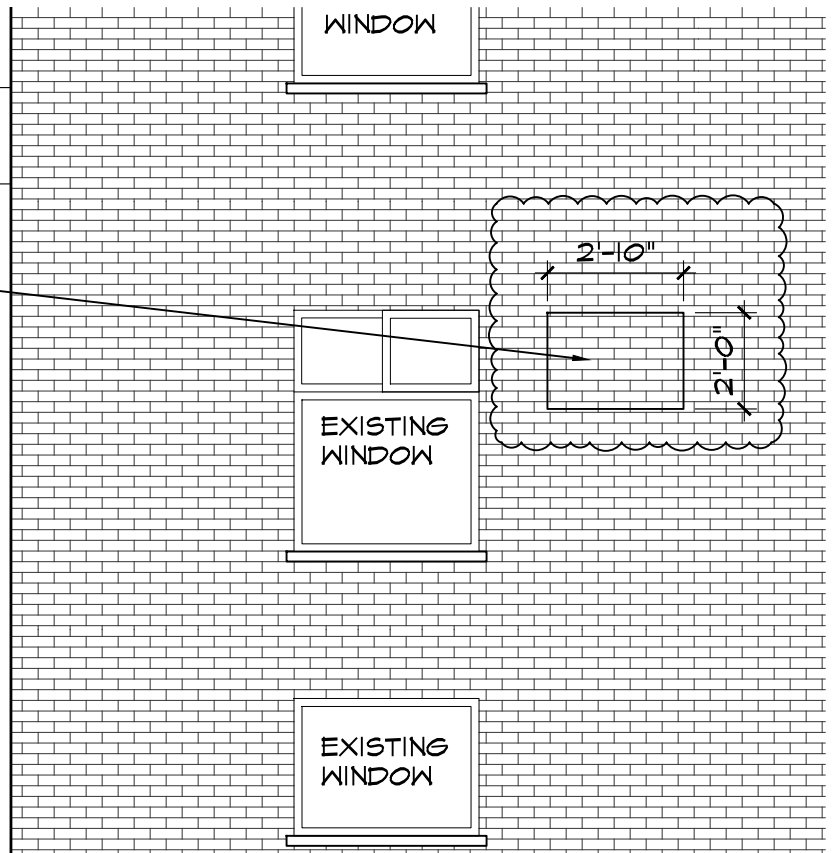
DETAILED SITE PLAN
PROPOSED WORK

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revision date: Mar 08, 2024	
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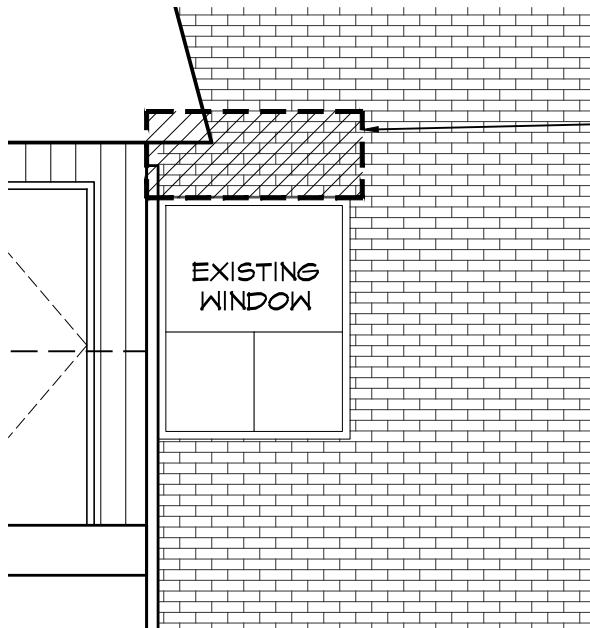
A1.2



REMOVE EXISTING THRU-WALL AIR CONDITIONER & ACCESSORIES. PATCH EXTERIOR WALL TO SUIT EXISTING CONSTRUCTION C/W 2x6" FRAMING, VAPOUR BARRIER, BATT INSULATION, SHEATHING, AIR BARRIER, AND BRICK VENEER. SEE BRICK VENEER NOTES.



WEST ELEVATION
SCALE 1:48



REPLACE BRICK VENEER MASONRY WITH NEW BRICK C/W STEEL MASONRY LINTEL. BRICK SIZE AND COLOUR TO MATCH EXISTING. NEW MORTAR TO MATCH EXISTING.

- ASSUME BRICK SIZE TO BE MODULAR SIZE, ARCHITECTURAL SERIES BY BRAMPTON BRICK OR APPROVED EQUAL.
- STEEL LINTEL ASSUMED TO BE 4"x4"x1/4" THICK C/W MINIMAL BEARING ON EACH END.

REPLACE EXISTING DECK

SOUTH ELEVATION
SCALE 1:48

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

project
ESPRIT PLACE RENOVATION

3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

title
**BRICK MASONRY
CLARIFICATIONS**

drawn by: MW	checked by: MW
scale: 1/4" = 1'	project no: 2356
date: Mar 23, 2024	

dwg no:
AD-1.1

REPLACE EXISTING WOOD DECK LANDING WITH EXISTING CONCRETE RAMP TO ASPHALT. INSTALL TACTILE WARNING ELEMENTS AS INDICATED.

PATCH & SEAL EXISTING ASPHALT SURFACE TO CONCRETE FOR SMOOTH FINISH.

RETAIN EXISTING RAMPED CONCRETE PAD. INTEGRATE WITH NEW RAMP DESIGN.

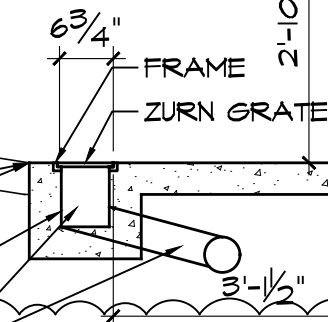
50MM UNDERSL INSULATION

1 MAIN ENTRY RAMP DETAIL
A5.1 SCALE 1/2"=1'

APPLY EXTERIOR RATED 38MM WIDE PAINTED COLOUR CONTRAST TREAD PATTERN STRIP AT LEADING EDGE OF ALL STAIR TREADS

EXPANSION JOINT

INSTALL NEW TRENCH DRAIN AND MAKE GOOD EXISTING BOTTOM LANDING AT BASEMENT AS REQUIRED.



CONNECT NEW 6-3/4" X 12" DEEP TRENCH DRAIN C/W EXTERIOR GRADE TRENCH GRATE COVER TO EXISTING DRAINAGE PIPES. TRENCH COVER TO BE ZURN MODEL Z886-HDS-LD REVEAL PERMA-TRENCH LINEAR TRENCH OR APPROVED EQUAL.

2 LOWER LEVEL RAMP DETAIL
A5.0 SCALE 1/2"=1'

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project
ESPRIT PLACE RENOVATION

3A BEECHWOOD DRIVE
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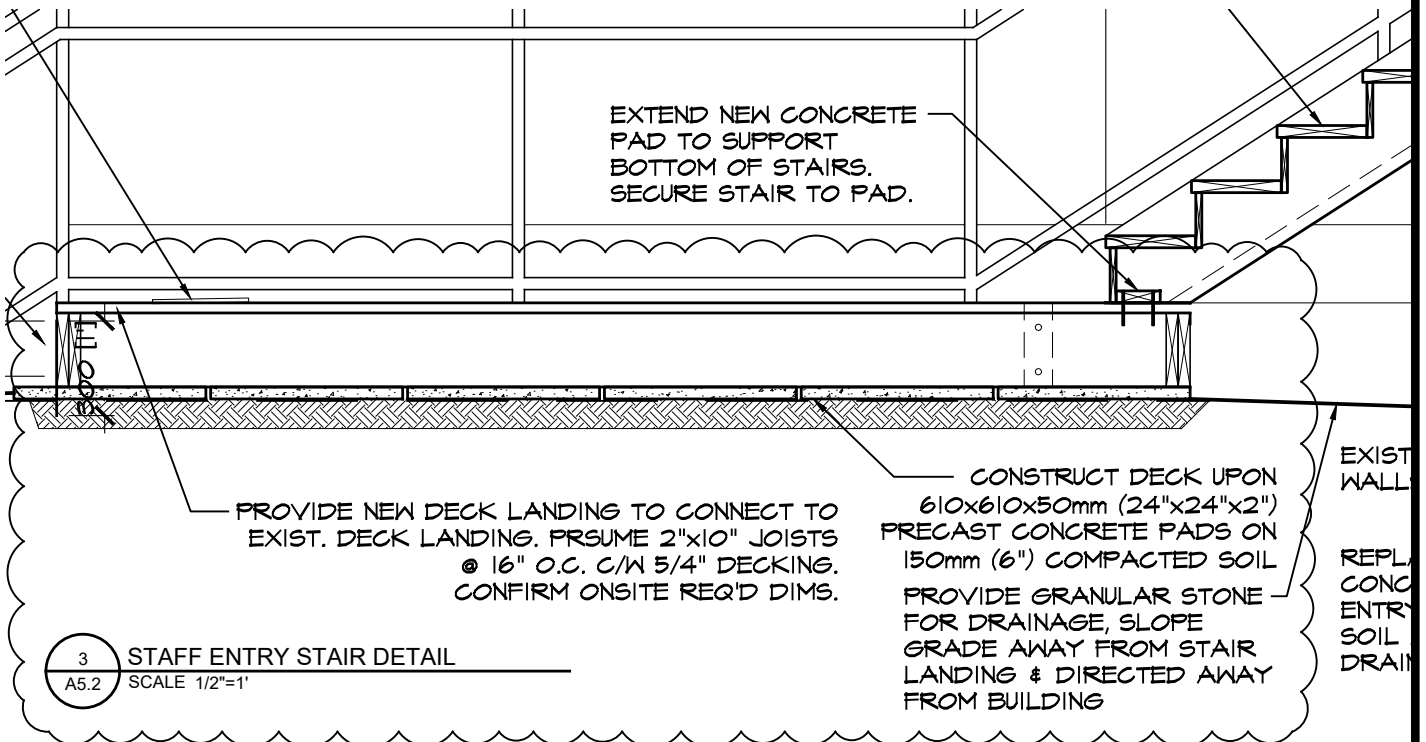
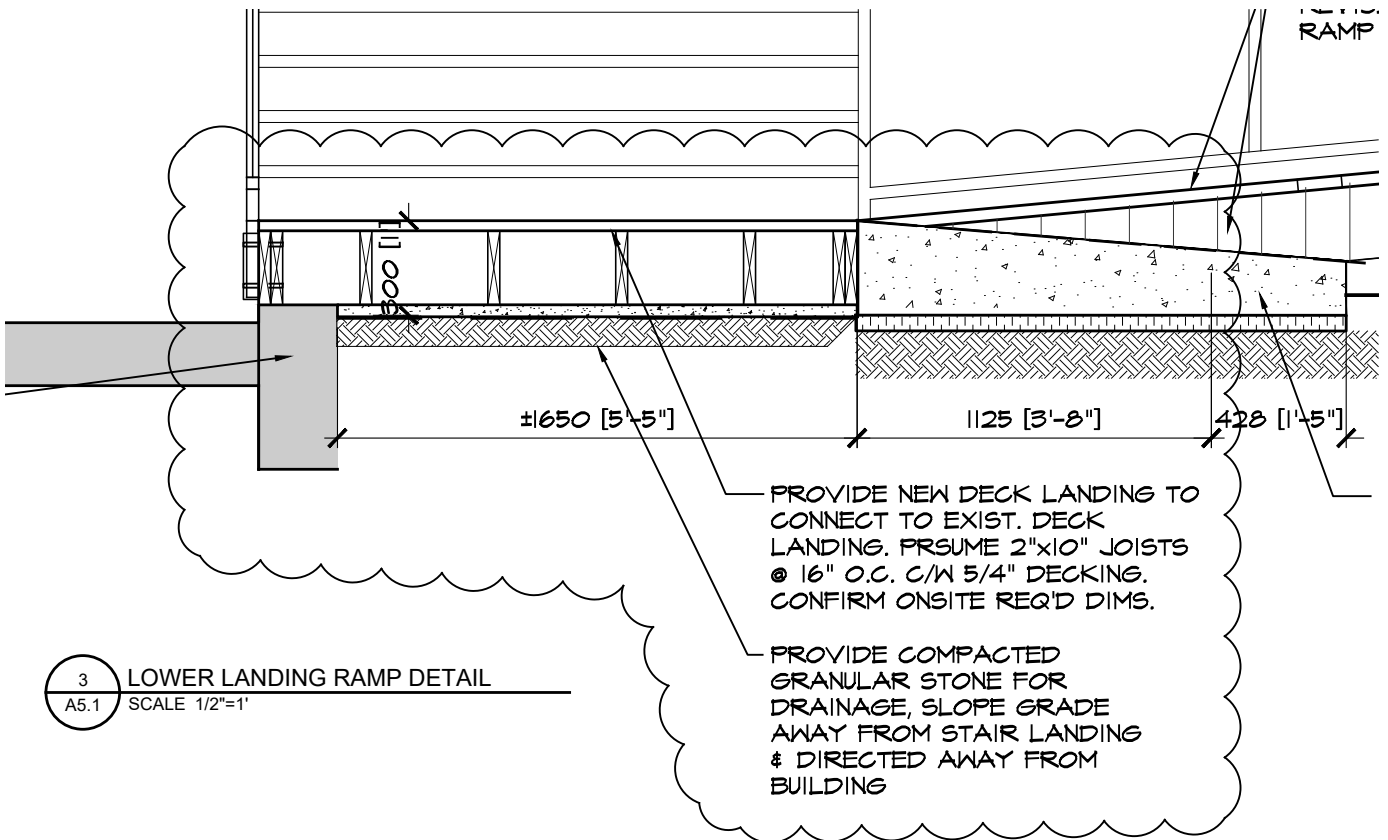
title
**RAMP LANDING DETAILS
REVISIONS**

drawn by: MW checked by: MW

scale: 1/4" = 1' project no: 2356

date: Mar 23, 2024

dwg no:
AD-1.2



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 528 Cassells Street North Bay, ON P1B 4S5
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 bertrandwheeler.ca

project
ESPRIT PLACE RENOVATION
 3A BEECHWOOD DRIVE
 PARRY SOUND, ONTARIO
 title
**RAMP LANDING DETAILS
 REVISIONS**

drawn by: MW	checked by: MW
scale: 1/4" = 1'	project no: 2356
date: Mar 23, 2024	
dwg no: AD-1.3	

1 GENERAL

1.1 Related Sections

- .1 Section 01330 - Submittal Procedures.
- .2 Section 01610 - Basic Product Requirements
- .3 Section 06200 - Finish Carpentry
- .4 Section 07900 - Sealants
- .5 Section 08800 - Glazing for custom mirrors
- .6 Division 16 - Electrical Hand Dryers

1.2 References

- .1 CAN/CGSB-12.5-M86, Mirrors, Silvered.
- .2 CAN/CSA-B651-95, Barrier-Free Design.
- .3 CAN/CSA-G164-M92, Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01330 - Submittal Procedures.
- .2 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, building-in details of anchors for grab bars.

1.4 Samples

- .1 Submit samples in accordance with Section 01330 - Submittal Procedures.
- .2 Samples to be returned for inclusion into work.

1.5 Closeout Submittals

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01780 - Closeout Submittals.

1.6 Extra Materials

- .1 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01780 - Closeout Submittals.
- .2 Deliver special tools to Owner.

1.7 Warranty

- .1 Submit warranty against defects in accordance with GC 12.3 but for (5) five years.

2 PRODUCTS

2.1 Materials

- .1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167, Type 304, with No. 4 finish.

- .3 Stainless steel tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.
- .4 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.
- .5 Solid Acrylic: Homogenous sheet material composed of acrylic resins, fire-retardant filler materials and colouring agents.
- .6 Manufacturer's or brand names on face of units is not acceptable.

2.2 Acceptable Products and Manufacturer's

- .1 Equivalent products from Frost Products Ltd., Bobrick Washroom Equipment of Canada Ltd., Watrous Inc. and Dunleavy Cordun Associates Inc. are acceptable.
- .2 Provide products for the work of this section from a single manufacturer and keyed alike.

2.3 Components

- .1 Toilet tissue holder: single roll, surface mounted, stainless steel, satin finish
 - .1 Acceptable material: ASI Group Canada, product #7314, dimensions: 5 3/16" x 3 3/8" x 2 3/16" (131 x 86 x 56mm)
- .2 Towel ring, stainless steel, satin finish
 - .1 Acceptable Material: ASI Group Canada, product #7306, dimensions: 7" dia. (178mm) extends 2 1/2" (64mm) from wall
- .3 Towel shelf with hanger rod, surface mounted, stainless steel, satin finish
 - .1 Acceptable Material: ASI Group Canada, product #7383, dimensions: 23 5/8" x 3 1/2" x 8 15/16" (600 x 89 x 227mm)
- .4 Robe hook: wall surface mounted, stainless steel, satin finish
 - .1 Single - Acceptable material: ASI Group Canada, product #7308, dimensions: extends 2 5/16" (59mm) from wall or door
 - .2 Double - Acceptable material: ASI Group Canada, product #7312, dimensions: extends 2 3/8" (60mm) from wall or door
- .3 Grab bars: 1.2 mm thick 30 mm diameter tubing of stainless steel, 80 mm diameter wall flanges; concealed screw attachment; Knurl bar at area of hand grips. Grab bar material and anchorage to withstand downward pull of 2.2 kN.
 - .1 Acceptable material: Bobrick Model Series 5806 to profiles indicated.
- .4 Fold down Grab bars: Wall-Mounted Swing Up Grab Bar; 1-1/4" (32mm) diameter tubing; Satin-Finish, slip-resistant surface stainless steel grab bar for bath/shower/toilet compartment. Exposed mounting.
 - .1 Acceptable product: Bobrick Model B-4998
- .6 Fixed Mirror: Stainless steel one piece tamper proof with 6mm thick mirror tempered glass (10 year warranty). Install 1000mm above finished floor.
 - .1 Acceptable material: Bobrick Model B-1658. Size 24"x36" unless otherwise indicated.
- .7 Mirrors with Shelf: Stainless steel one piece tamper proof with 6mm thick mirror tempered glass (10 year warranty).
 - .1 Acceptable material: Bobrick Model B-1668 series to sizes indicated. Size 24"x36" unless

otherwise indicated.

- .8 Liquid Soap Dispenser: Type 304 stainless steel with satin finish
 - .1 Acceptable material: Bobrick Model, Contura Series B-4112
- .9 Baby Change Station: Fold down, Wall mounted, Horizontal
 - .1 Acceptable product: Bobrick Model B-2210
- .10 Shower Seat: Fold down, Wall mounted, 13mm Solid Phenolic surface, Stainless Steel Brackets and supports, ADA compliant
 - .1 Acceptable product: Bobrick Model B-5181

2.4 Fabrication

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
 - .1 Brake form sheet metal work with 1.5 mm radius bends.
 - .2 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
 - .3 Back paint components where contact is made with building finishes to prevent electrolysis.
 - .4 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G164.
 - .5 Shop assemble components and package complete with anchors and fittings.
 - .6 Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates, details and instructions for building in anchors and inserts.
 - .7 Provide steel anchor plates and components for installation on studding and building framing.

2.5 Finishes

- .1 Chrome and nickel plating: to ASTM B456, satin finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma, apply one coat Type 2 primer to CAN/CGSB-1.81 and bake, apply two coats Type 2 enamel to CAN/CGSB-1.88 and bake to hard, durable finish. Sand between final coats. Colour selected from standard range by Consultant.
- .3 Manufacturer's or brand names on face of units not acceptable.

3 EXECUTION

3.1 Installation

- .1 Install and secure accessories rigidly in place as follows:
 - .1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.
 - .2 Hollow masonry units or existing plaster/drywall: use toggle bolts drilled into cell/wall cavity.
 - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
 - .4 Toilet/shower compartments: use male/female through bolts.
- .2 Install grab bars on built-in anchors provided by bar manufacturer.

- .3 Use tamper proof screws/bolts for fasteners.
- .4 Fill units with necessary supplies shortly before final acceptance of building.
- .5 Install mirrors in accordance with Section 08800 - Glazing.

3.2 Schedule of Washroom Accessories

- .1 Washroom 011
 - .1 Toilet tissue holder – 1
 - .2 Grab Bars - none
 - .3 Robe Hook – 3 as indicated on interior elevations
 - .4 Fixed Mirror – 1
 - .5 Towel ring – 1
- .2 Washroom 109
 - .1 Toilet tissue holder – 1
 - .2 Grab Bars – rear and (2) pull down style
 - .3 Robe Hook – 3
 - .4 Fixed Mirror – 1
 - .5 Towel ring – 1
 - .6 Salvage and reinstall existing baby change station (as directed by Owner)
- .3 Washrooms 203 and 210
 - .1 Toilet tissue holder – 1
 - .2 Grab Bars - none
 - .3 Robe Hook – 2 as indicated on interior elevations
 - .4 Fixed Mirror – 1
 - .5 Towel ring – 1
 - .6 Shower curtain – by Owner
- .4 Liquid Soap Dispensers and Waste Receptacles by Owner

3.3 General

- .1 Locate accessories where indicated on drawings and as per OBC Barrier Free requirements. Coordinate exact locations with consultant if not otherwise indicated.

END OF SECTION

Date: March 21, 2024
Project: Esprit Place
Project No: 22-033B
No: ADD-ME01

Distribution: Marcus Wheeler – Bertrand
Wheeler Architecture
Trevor Kitchen – HSC Corp

The following addendum shall be part and parcel of the tendering documents and shall supersede the drawings and/or specification where applicable.

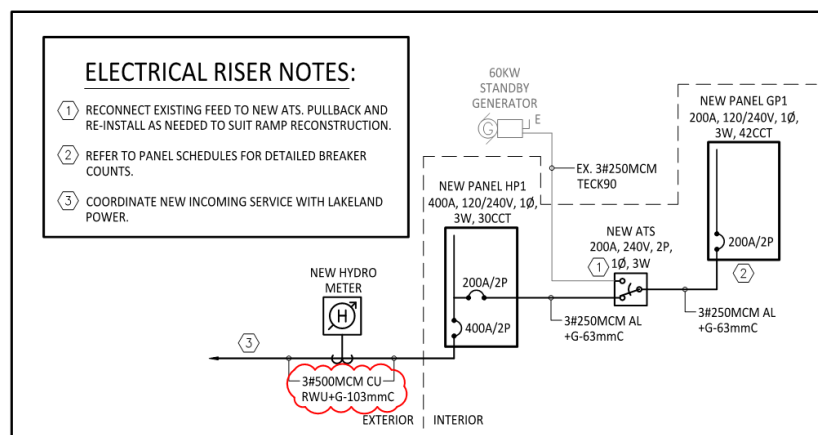
1 REFERENCE TO ELECTRICAL CLARIFICATIONS (E102 RE-ISSUED)

- .1 Revise Electrical General Notes as per sketch below.

GENERAL NOTES:

1. INCLUDE IN CONTRACT TO REMOVE ABANDONED WIRING WHEREVER IT IS ACCESSIBLE.
2. REMOVE ALL LIGHTING AND ASSOCIATED LIGHTING CONTROL. MAINTAIN CIRCUITS FOR RE-USE FOR NEW LIGHTING LAYOUT.
3. REFER TO ARCHITECTURAL LAYOUTS FOR EXTENT OF REMOVALS.
4. DOOR ACCESS AND INTERCOM SCOPE TO BE COMPLETED BY OWNERS FORCES. INCLUDE FOR ALL NECESSARY COORDINATION AS PART OF THIS SCOPE.
5. ALL CONDUIT FOR DOOR ACCESS AND INTERCOM TO BE ROUTED BACK TO SERVER RACK IN BASEMENT.
6. ALL EXISTING EXIT AND EMERGENCY LIGHTING TO REMAIN.

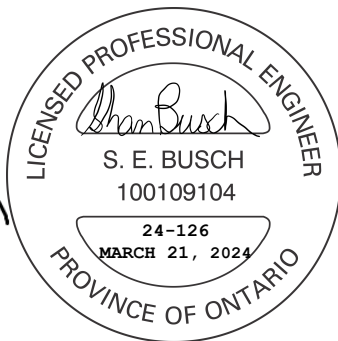
- .2 Refer to updated sketch below and re-issued drawing E102 for updated electrical riser diagram and clarifications of electrical site plan.



2 REGARDING CONDENSING UNIT MOUNTING

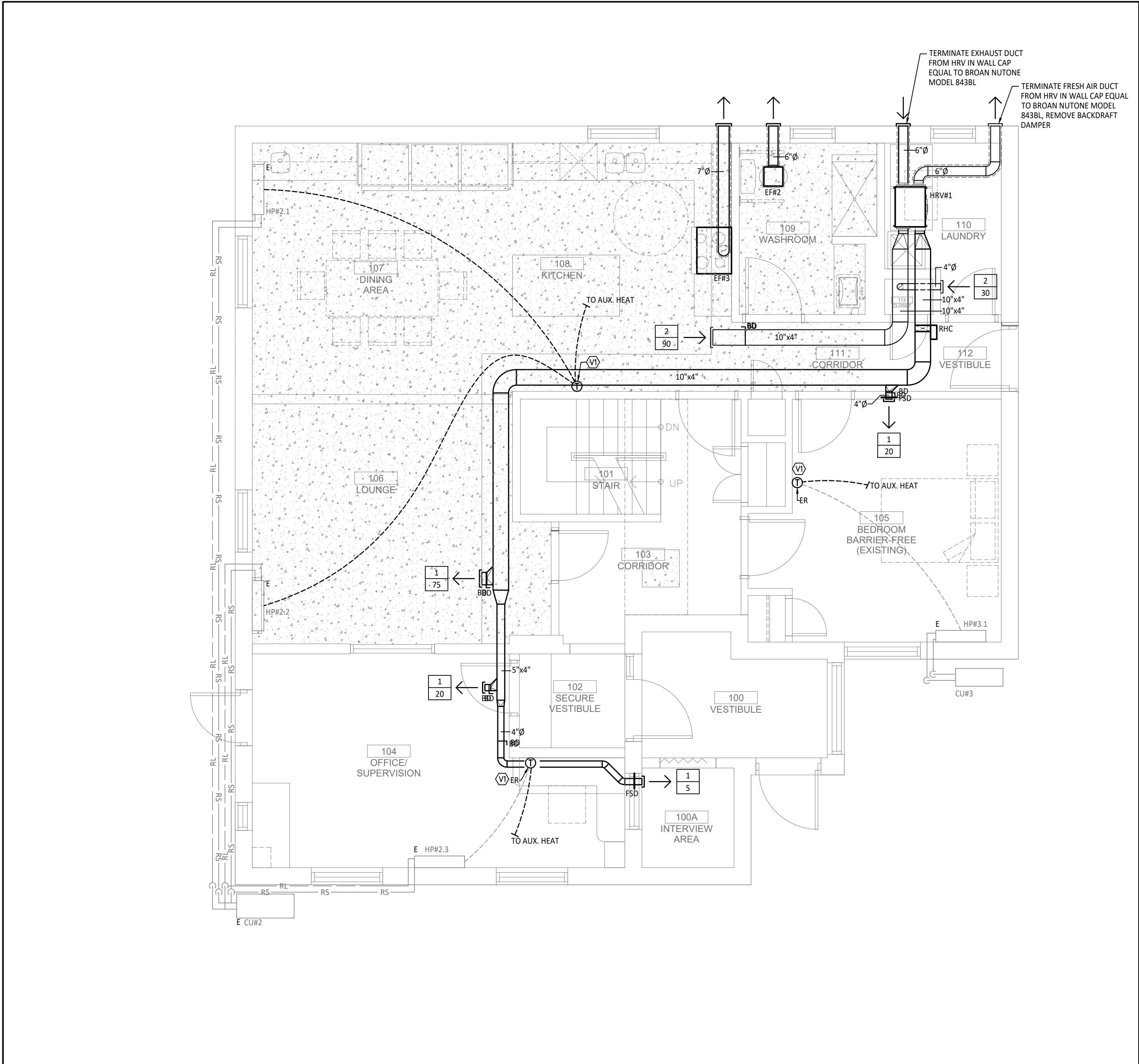
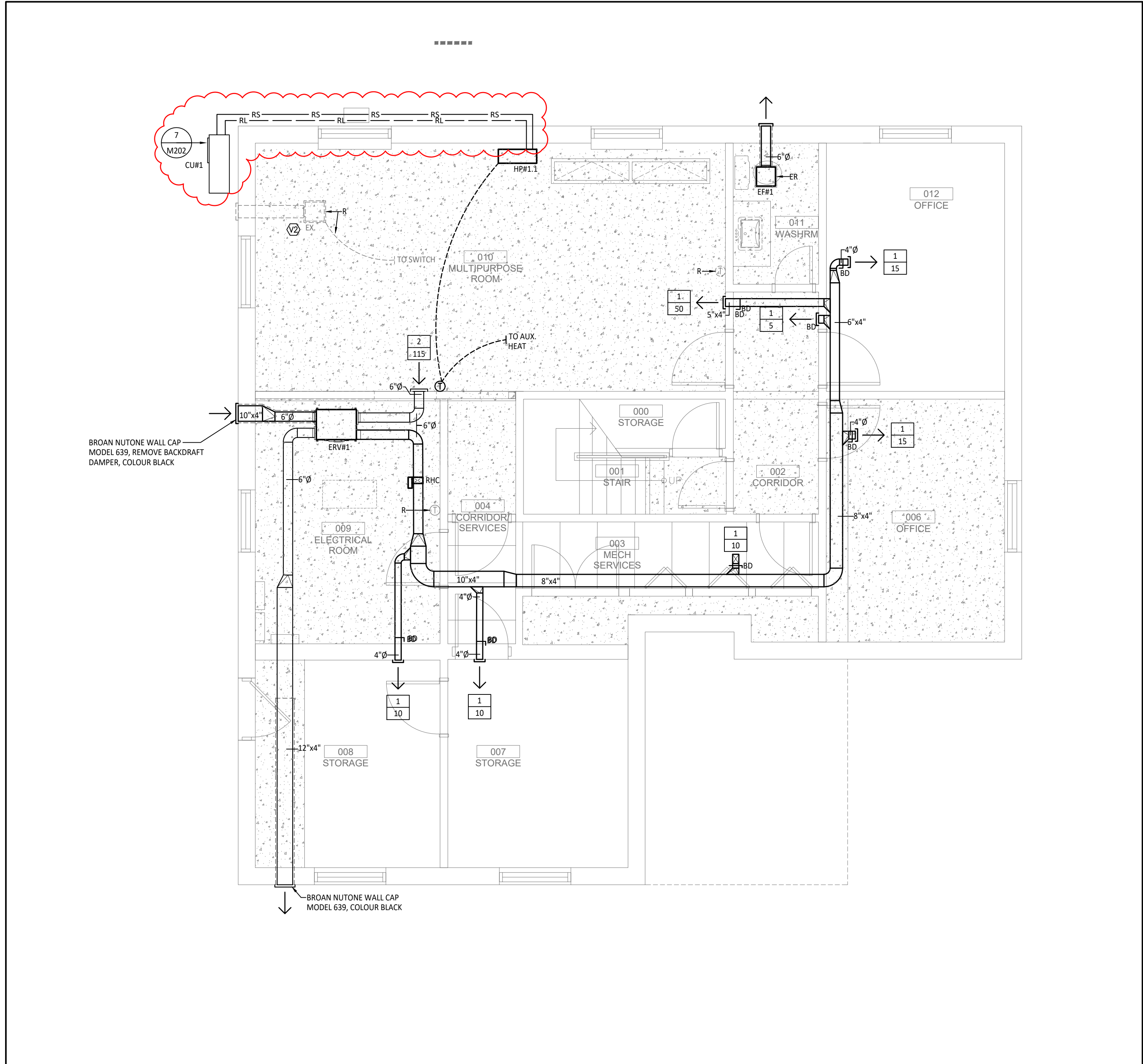
- .1 Refer to reissued drawings M201 and M202 for revised condensing unit mounting locations and details.

Shannon Busch
Shannon Busch, P.Eng.
Electrical Engineer
Suppa Engineering



Brenden Wendover
Brenden Wendover, P.Eng.
Mechanical Engineer
Suppa Engineering





1

BASEMENT - FLOOR PLAN - PROPOSED VENTILATION

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

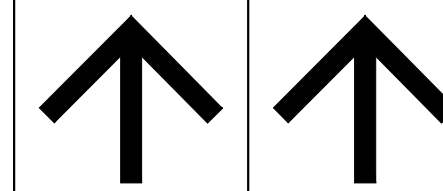
2

MAIN LEVEL - FLOOR PLAN - PROPOSED VENTILATION

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

VENTILATION DRAWING NOTES:

- CONTRACTOR SHALL CONFIRM AND COORDINATE REPLACEMENT OF HEAT PUMP CONTROLLER WITH NEW AS PER SCHEDULE. ALL WIRING, CONDUIT, RELAYS, ETC. REQUIRED TO FACILITATE REPLACEMENT TO BE PROVIDED. CONFIRM AND COORDINATE WITH ASSOCIATED TRADES AS REQUIRED.
- CONFIRM AND COORDINATE EXISTING EF REMOVALS INCLUDING ALL WIRING, SWITCHES, DUCTWORK AND ASSOCIATE WALL CAP, PATCH AND PAINT ANY OPENINGS CREATED BY WORK. ALL REQUIREMENTS TO BE VERIFIED ON SITE.



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 REVIEW	JAN. 12, 2024
1	ISSUED FOR TENDER	FEB. 27, 2024
2	ISSUED FOR TENDER	MAR. 08, 2024
3	ISSUED FOR ADDENDUM ADD-MED1	MAR. 20, 2024

Project Status:
**ISSUED FOR
ADDENDUM**

Seal:



**SUPPA
ENGINEERING**

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

Project:
**ESPRIT WOMEN'S
SHELTER
RENOVATION**

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:
**MECHANICAL
VENTILATION
FLOOR PLAN AND NOTES**

Project No:

22-033B

Drawn By: zz Date: Mar. 20, 24

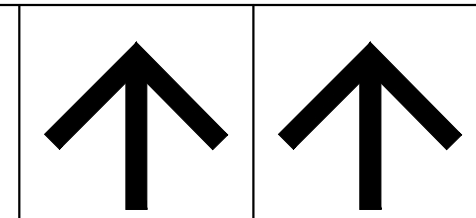
Checked By: BW Scale: 1/4" = 1' - 0"

Drawing No: Revision:

M201

3

M202	3
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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.
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5. DO NOT SCALE THE DRAWINGS.

REVISION SCHEDULE

No.	DESCRIPTION	DATE
0	ISSUED FOR TENDER	MAR. 08, 2024
1	ISSUED FOR ADD-ME01	MAR. 20, 2024

Project Status:

ISSUED FOR TENDER

Seal:



SUPPA ENGINEERING

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

Project:

ESPRIT WOMEN'S SHELTER RENOVATION

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:

ELECTRICAL SITE PLAN

Project No:

22-033B

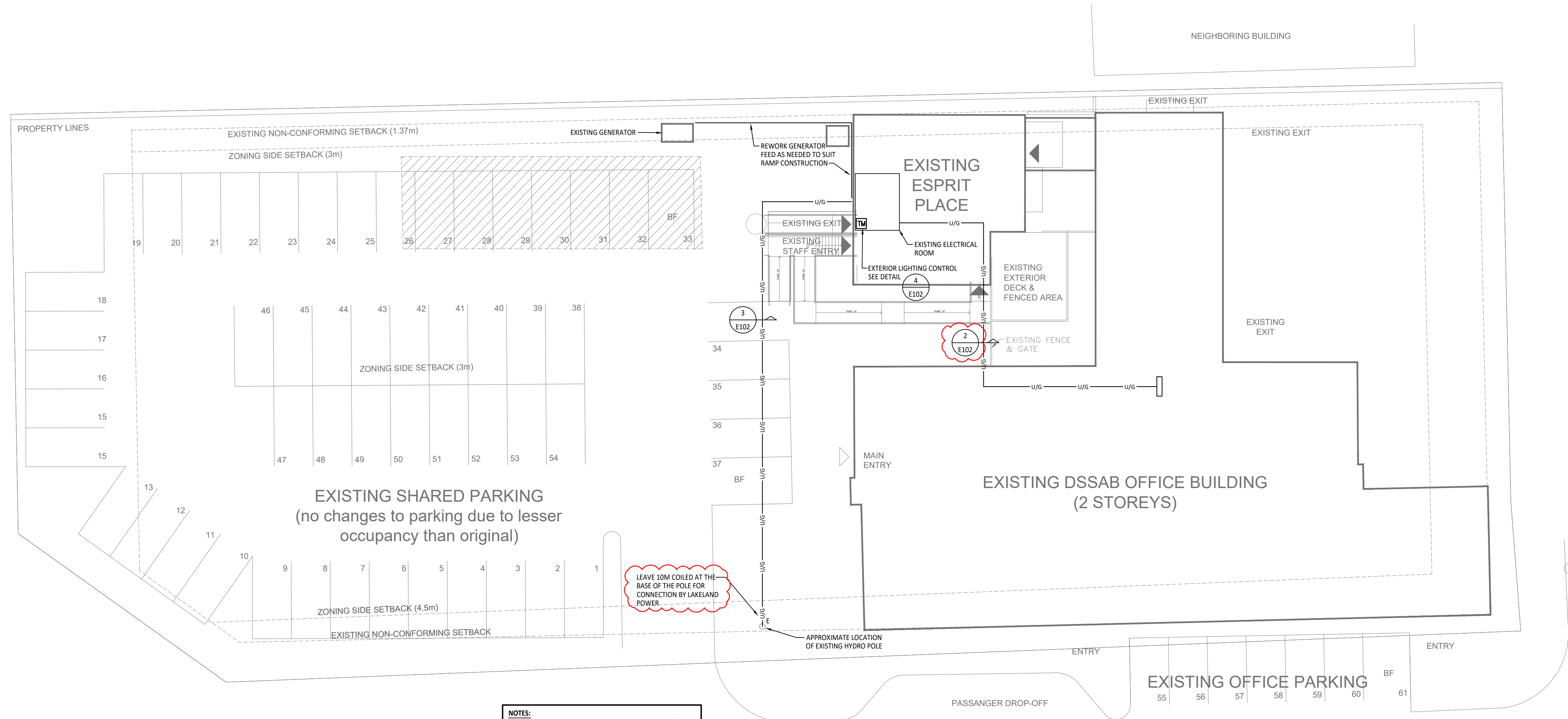
Drawn By: BR Date: Mar. 20, 24

Checked By: SB Scale: AS INDICATED

Drawing No: Revision:

E102

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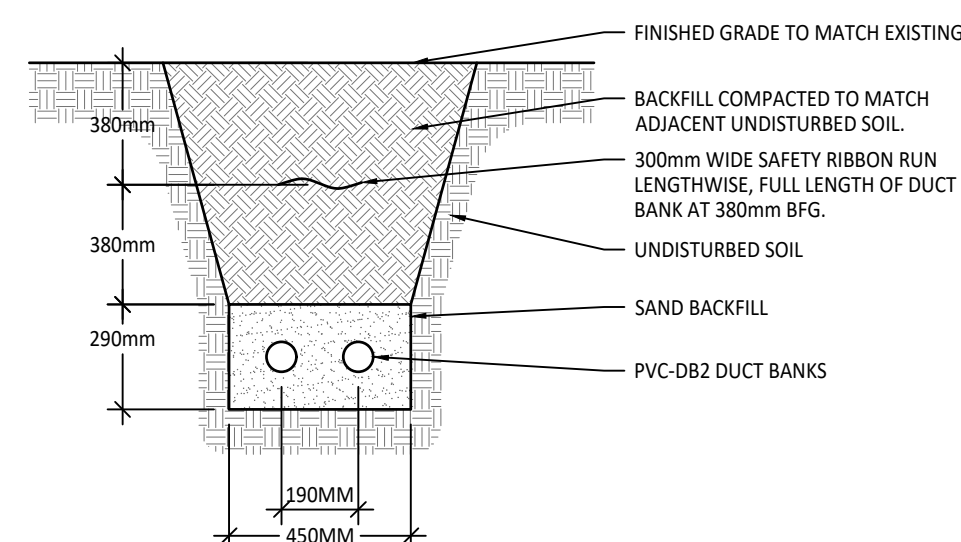


- NOTES:
1. COORDINATE SERVICE UPGRADE WITH LAKELAND POWER. CARRY ALL COSTS ASSOCIATED WITH SERVICE UPGRADE.
2. CAREFULLY COORDINATE UNDERGROUND HYDRO SERVICE WITH SANITARY CASEMENT.
3. INSTALLATION TO MEET LAKELAND POWER STANDARDS.

1

ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'0"

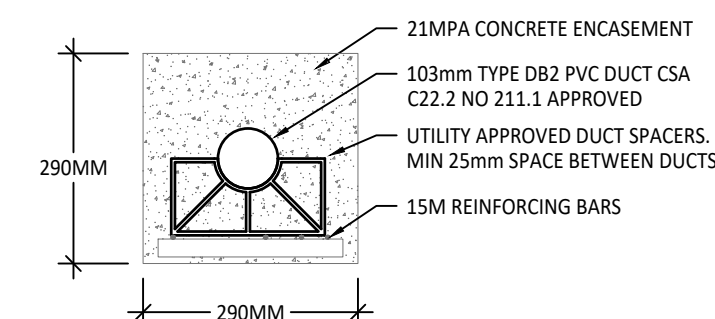
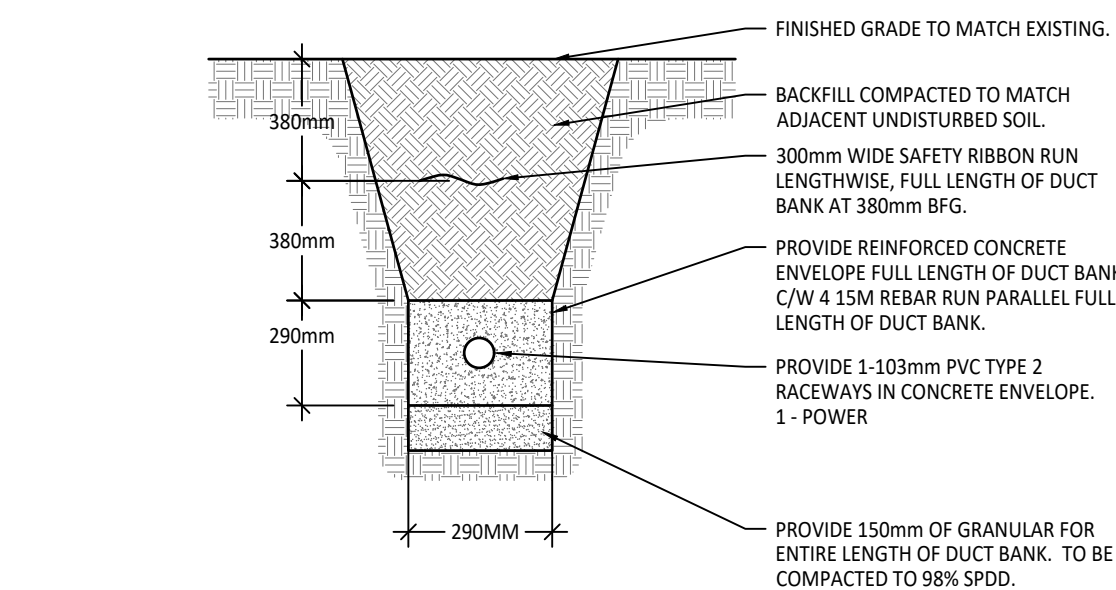


- NOTES:
1. CABLE INSTALLATION TO BE AS PER OESC DIAGRAM D11 DETAIL 2.
2. CONTRACTOR TO RETURN ALL FINISHED GRADE TO MATCH EXISTING AFTER INSTALLATION.

2

UNDERGROUND RACEWAY - 2 DUCTS

SCALE: N.T.S.

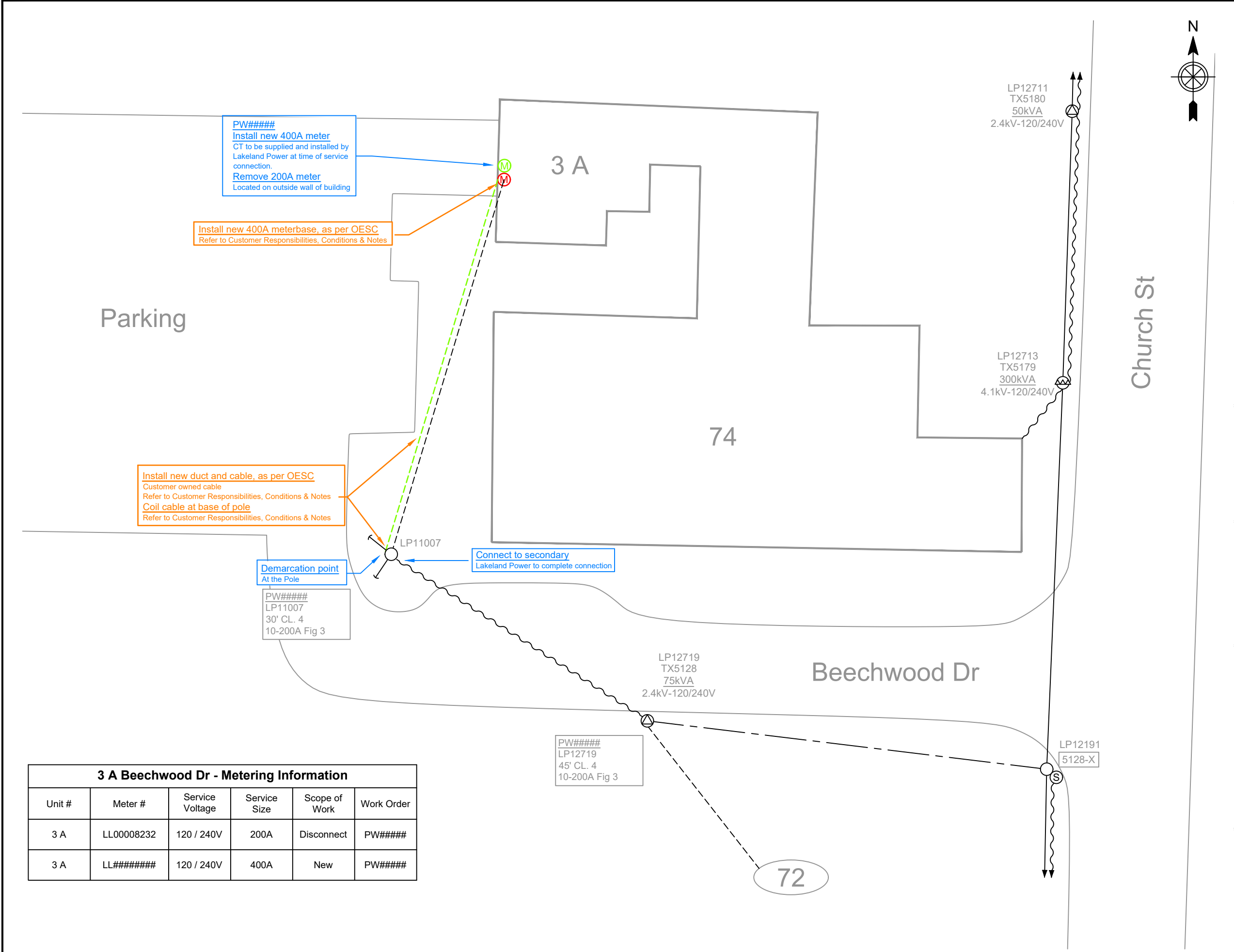


- NOTES:
1. CABLE INSTALLATION TO BE AS PER OESC DIAGRAM D11 DETAIL 1.
2. CONTRACTOR TO RETURN ALL FINISHED GRADE TO MATCH EXISTING AFTER INSTALLATION.
3. USE NON-METALLIC TIES AT 1500mm SPACING.

3

CONCRETE ENCASED DUCT BANK - 1 DUCT

SCALE: N.T.S.



LEGEND:

EXISTING PLANT	GUY & ANCHOR
INSTALL PLANT	PRIMARY O/H
REMOVE PLANT	PRIMARY U/G
LAKELAND WORK	SECONDARY O/H
CUSTOMER WORK	SECONDARY U/G
EASEMENTS	SPAN GUY
ANNOTATION	BUS BREAK

POLE	METER
1φ POLE TRANSFORMER	SWITCH
3φ POLE TRANSFORMER	RECLOSER
1φ PAD TRANSFORMER	SWITCHGEAR
3φ PAD TRANSFORMER	JUNCTION CUBICLE

NOTES:

WORK IS SUBJECT TO LAKELAND POWER [CONDITIONS OF SERVICE](#) AND SINGLE-PHASE GENERAL REQUIREMENTS.

DRAWING IS NOT TO SCALE.

PROPERTY LINES, UTILITIES, STRUCTURES, ROADS, DRIVEWAYS, AND OTHER TERRAIN IS NOT NECESSARILY SHOWN. THE ACCURACY OF DETAILS SHOWN IS NOT GUARANTEED.

BUILD TO LAKELAND POWER STANDARDS:
FIG 1 - ARRANGEMENT FOR 1 - 4 DUCTS ENCASED IN CONCRETE
FIG 2 - SECONDARY SERVICE DUCT INSULATION 1φ OR 3φ
FIG 3 - UNDERGROUND SECONDARY SERVICE DUCT
FIG 4 - TYPICAL SERVICE TRENCH SECTION
FIG 5 - 1φ PADMOUNT EQUIPMENT FOUNDATION AND GROUND GRID
FIG 6 - GUARD POST INSTALLATION AND GROUNDING

SERVICE & CUSTOMER INFORMATION:

ADDRESS: 3 A BEECHWOOD LAYOUT TOWN: PARRY SOUND	WORK ORDER: PW23020 SERVICE: 400A U/G VOLTAGE: 120/240V
CONTACT: SHANNON BUSCH PHONE: (705) 561-4574 COMPANY: SUPPA ENGINEERING CUSTOMER: FAMILY RESOURCE CENTRE PHONE: (705) 345-5714	BASE COST: \$1,859.44 TAXES: \$241.73 TOTAL COST: \$2,101.17

CONSTRUCTION INSPECTION:

THIS CERTIFIES THAT THE CONSTRUCTION RECORDED ON THESE DOCUMENTS FOR LAKELAND POWER DISTRIBUTION LTD. IS CONSISTENT WITH THE APPROVED PLAN, STANDARD DESIGNS, WORK INSTRUCTIONS OR LEGACY CONSTRUCTION AND THAT APPROVED EQUIPMENT WAS USED. CONSTRUCTION MEETS THE SAFETY REQUIREMENT OF SECTION 4 OF ONTARIO REG. 22/04.

CONTACT:	TITLE:
SIGNATURE:	DATE:

VERSION HISTORY:

#	YYYY-MM-DD	VERSION:	APPROVED:
1	2024-02-12	INITIAL LAYOUT PROPOSAL	

REVIEWED BY: JORDAN NICKASON, C.E.T.

TECHNICAL CONTACT:
NAME: CRAIG KEITH
PHONE: 1-705-645-2670 EXT. 514
EMAIL: CKEITH@LAKELANDPOWER.ON.CA

3 A Beechwood Dr - Metering Information					
Unit #	Meter #	Service Voltage	Service Size	Scope of Work	Work Order
3 A	LL00008232	120 / 240V	200A	Disconnect	PW#####
3 A	LL#####	120 / 240V	400A	New	PW#####

General Requirements For Single Phase Services

1 GENERAL

- 1.1 All documents must be used in conjunction with the latest revision of Lakeland Power Distribution Ltd. ('LPDL') Conditions of Service as posted on www.lakelandpower.on.ca.
- 1.2 The demarcation point shall be specified on the offer to connect layout per Lakeland Power's latest conditions of service.
- 1.3 All service entrance equipment (mast, meter base, load wiring, etc.) is the responsibility of the customer and must meet the requirements of the Ontario Electrical Safety Code ("OESC"). LPDL will not make any connections or reconnections prior to receiving a Connection Authorization from the Electrical Safety Authority ("ESA").
- 1.4 LPDL will specify the meter location and point of supply for the service. There is only one point of supply allowed per individual dwelling per Lakeland Power's latest Conditions of Service.
- 1.5 LPDL will supply a single phase service, rated at 120/240 volts, to a maximum of 400 amps per Lakeland Power's Conditions of Service.
- 1.6 Temporary services are approved for connection up to 6 months. Service connection can be extended at the discretion of Lakeland Power pending a connection extension request from the customer and submission of an ESA inspection.

2 REQUESTING SERVICE

- 2.1 Determine the scope of work in detail.
- 2.2 Complete a Service Request form to schedule a technician's review of the proposed request.
- 2.3 Receive an Offer to Connect Layout that specifies LPDL requirements and charges.
- 2.4 Make applicable payments to Lakeland Power Distribution Ltd. by money order or cash or cheque at our Bracebridge or Huntsville office.
- 2.5 Call the LPDL Engineering Technician/Technologist that issued the offer to connect layout at 705-645-2670 to schedule the work.

3 SERVICE LAYOUT CONDITIONS

- 3.1 Drawings are not to scale. Property lines, utilities, structures, roads, driveways, and other terrain is not necessarily shown. The accuracy of details shown is not guaranteed.
- 3.2 Additional charges will apply above estimate for work not anticipated.
- 3.3 Customer is responsible for all required surveys, easements, permits, or other requirements from all parties.
- 3.4 Work may be subject to approval from the applicable road authority.

- 3.5 Work may be subject to change based on requirements of other affected parties such as communications companies or other utility owners.
- 3.6 Customer is responsible for ensuring work area is accessible and clear of all vehicles, snow, fill, debris or other obstructions.
- 3.7 Payment in full required prior to commencement of work.
- 3.8 Service layout is valid for 6 months from the time received by the customer.
- 3.9 Equipment and/or transformers to be ordered upon project approval and payment in full by the customer. Delivery times are subject to any supply chain issues and are, at times, expected to be greater than 18 months.

4 METER BASE REQUIREMENTS

- 4.1 The revenue meter is the property of LPDL and must be easily accessible by LPDL. If, in the opinion of LPDL, obstructions such as A/C units, gas meters, window wells, trees, bushes, etc., render the meter inaccessible, the meter must be relocated to a LPDL approved location at the customer's expense, or, the obstruction be removed or relocated 1m away from the meter.
- 4.2 Existing meter bases must be replaced if i) they do not pass ESA inspection; ii) measure 8"x8" or less; iii) is an A-Base style iii) are located inside; and/or iv) fail during disconnect/reconnect of the meter. LPDL may require other service entrance equipment to be replaced for safety and/or reliability reasons.
- 4.3 The center of the meter must be 1.73m±100mm above finished grade.
- 4.4 Meter base shall be located a minimum of 3.0m from propane gas regulator vent and 1m from natural gas regulator vent.
- 4.5 Line side and load side connections are to be completed in the meter base prior to LPDL arriving on site.
- 4.6 **400A Meter Bases:** To be Microelectric JS4 series or equivalent. CT to be supplied and installed by LPDL at time of service connection, at customers expense.
- 4.7 **Service Identification:** Permanently and legibly identify all metered services with respect to correct municipal civic address and unit number. Assigned unit numbers must correspond with the Offer to Connect Layout and ESA's Connection Authorization.

5 OVERHEAD REQUIREMENTS

- 5.1 All trees and woody growth adjacent to a line shall be trimmed so that minimum clearance to the nearest conductor horizontally at maximum conductor swing and vertically at a maximum sag shall meet LPDL's latest Tree Trimming Specifications available on the website or OESC for privately-owned lines.

General Requirements For Single Phase Services

- 5.2 Residential customer's service mast, first service pole, or downpipe, must be located within 38m of connection point indicated in the offer to connect layout.
- 5.3 All customer owned pole lines to be supplied and installed by the customer as per OESC. Primary and neutral conductors to be coiled at first customer pole for connection to LPDL pole line by LPDL unless otherwise specified in the offer to connect layout.
- 5.4 LPDL will make the final connections at the customer's service mast.

6 UNDERGROUND REQUIREMENTS

6.1 General Requirements:

- 6.1.1 All cable runs must be complete with a heat or cold shrink cap immediately after cutting.
- 6.1.2 All duct and cable to be installed per table below unless subject to additional requirements by the road authority.

Trench and Cable Depths		
Cable Type	Cable Depth	Trench Depth
Primary	900mm (36")	1050mm (42")
Secondary	750mm (30")	900mm (36")

Refer to Figure 4.

- 6.1.3 Where depth cannot be achieved, cables must be encased in concrete per LPDL specification. Refer to standard Figure 1 for concrete encasement specs.
- 6.1.4 All underground cables are to be installed in either i) 100mm Type DB2/ES2 PVC duct or, ii) smooth-wall SDR-13.5 HDPE duct.
- 6.1.5 All duct to be installed with 150mm of grit-free masonry mortar sand above and below the conduit.
- 6.1.6 Supply and install Buried Cable Warning Tape at 8" below finished grade spanning full length of trench.
- 6.1.7 Route of all cables to be approved by Lakeland Power.
- 6.1.8 All 90 degree bends in conduit to be a minimum 1m radius.
- 6.1.9 **Locates:** All utilities (water, sewer, hydro, telephone, cable TV, etc) must be contacted prior to excavation. Contact Ontario One Call at 1-800-400-2255 or visit <https://ontarioonecall.ca/> to request locates for all underground utilities.
- 6.1.10 LPDL to be on-site to supervise all excavation within 2m of transformer, switchgear, junction cubical and splice vaults.
- 6.1.11 **Inspection:** Coordinate with LPDL for trench, vault, ground grid inspection. All inspections require a minimum of 48 hours notice. Duct banks to be inspected prior to being backfilled or concrete encased.
- 6.1.12 Customer to restore all existing finishes to like condition or better.

- 6.1.13 Cable and conduit shall not be installed below -10c temperature because of high risk of duct damage and/or coupling separation.

6.2 LPDL-Owned Primary Cable:

- 6.2.1 Installations must meet all requirements in section 6.1.
- 6.2.2 Supply and install primary cable; 28KV 2/0 Alum TR-XLPE PEEJ primary underground cable with 100% concentric.
- 6.2.3 Cable to be installed in approved duct (See section 6.1.4) as per routing shown on offer to connect layout. Supply and install spare duct complete with 1/4" poly rope and capped at both ends.
- 6.2.4 Duct to end at the pole as per Figure 2.

6.3 LPDL-Owned Secondary Cable:

- 6.3.1 Installations must meet all requirements in section 6.1.
- 6.3.2 Customer to supply and install 3/0 USEi90 secondary cable up to 60m in length or 250MCM up to 90m in length.
- 6.3.3 Cable to be installed in approved duct (See section 6.1.4) from the meter base downpipe to the point of supply.
- 6.3.4 Secondary cable duct ends at pole to be installed as per Figure 2.
- 6.3.5 Secondary cable duct ends at meter base to be installed as per Figure 3.

6.4 Customer-Owned Primary Cable:

- 6.4.1 Supply and install all primary cable per Ontario Electrical Safety Code.
- 6.4.2 Cable to be 28KV 2/0 Alum primary underground cable with 100% concentric.

6.5 Customer-Owned Secondary Cable:

- 6.5.1 Supply and install secondary cable per OESC.
- 6.5.2 LPDL will not take ownership of ACWU cable.
- 6.5.3 For AWCU cable, provide a PVC weather head, 1 length of conduit and a minimum of 10 metal saddle clips per run of cable for installation on pole.
- 6.5.4 Maximum conductor size is 500MCM and the customer is to inform LPDL in writing as to the size, type and number of service conductors. LPDL will supply and install connections between the riser 'tail' and transformer or bus.

General Requirements For Single Phase Services

6.6 Cable Coils:

- 6.6.1 A minimum of 15' of each run of primary and secondary cable must be left coiled in the vault.
- 6.6.2 Secondary cable to be coiled a minimum of 35' at the base of pole for connection, unless otherwise specified in the service layout.
- 6.6.3 Primary cable to be coiled a minimum of 45' at the base of pole for connection, unless otherwise specified in the service layout.
- 6.6.4 Cables to be trenched to a location at the pole that does not interfere with existing equipment or attachments.

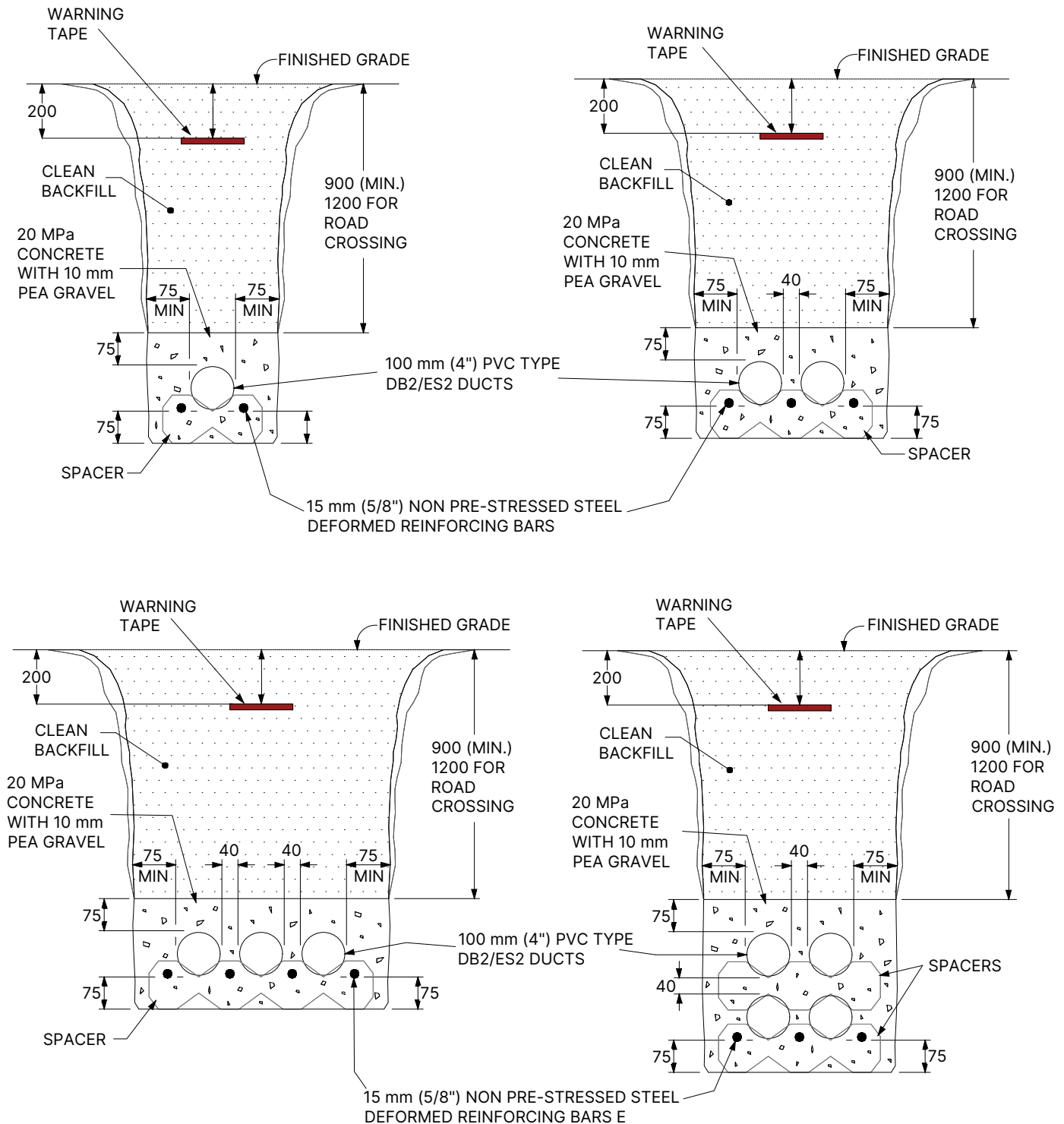
6.7 LPDL-Owned Transformers - Vaults:

- 6.7.1 Supply and install BCP110PC vault and ground grid for transformer. Vaults must be within 10ft of a near-level road or driveway (min 15ft wide) and be accessible by bucket and/or digger truck at all times. Exact location to be approved by Lakeland Power.
- 6.7.2 Vaults must be level. Any knockouts not used are to be securely plugged.
- 6.7.3 Install ground grid for transformer. Refer to supplied standard Figure 5.
- 6.7.4 All duct ends shall be fitted through the knockouts and end inside the vault. Lakeland Power to assist with cable pulls where required.
- 6.7.5 Vault and ground grid installation subject to Lakeland Power inspection. Backfill before inspection may require re-excavation.
- 6.7.6 Bollards may be required at the discretion of LPDL. Refer to Figure 6.

6.8 Customer-Owned Transformers Vaults:

- 6.8.1 Supply and install vault for transformer per Ontario Electrical Safety Code. Size BCP-110PC or equivalent.
- 6.8.2 Vault must be within 10ft of a near-level road or driveway and be accessible by bucket and/or digger truck at all times. Exact location to be approved by Lakeland Power.
- 6.8.3 Install ground grid for transformer for transformer per OESC.

FIGURE 1 ARRANGEMENT FOR 1-4 DUCTS ENCASED IN CONCRETE



* ALL UNITS OF MEASUREMENT ARE IN
MILLIMETERS UNLESS OTHERWISE STATED

FIGURE 1A

REQUIREMENTS FOR 1-4 DUCTS ENCASED IN CONCRETE

1. DESIGN CONSIDERATIONS

- 1.1. BENDS AND TURNS IN A DUCT RUN SHALL BE ACCOMPLISHED BY A GRADUAL SWEEP. ALL 90 DEGREE CHANGES IN DIRECTION SHALL BE MADE OF 1000mm RADIUS ELBOW AND BE LIMITED TO TWO PER RUN
- 1.2. DUCT BANKS SHALL BE BURIED WITH A MINIMUM COVER OF 900 mm, WITH THE EXCEPTION OF ROAD CROSSINGS WHICH SHALL BE BURIED WITH A MINIMUM COVER OF 1200 mm.
- 1.3. TRENCH RESTORATION SHALL BE MADE UP OF CLEAN BACKFILL ON DUCT BANKS INSTALLED UNDER LAWNS AND PARKWAYS. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL HAVE BACKFILL MATERIALS AND TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
- 1.4. CUSTOMER'S DUCT BANK SHALL HAVE A MINIMUM SLOPE OF 1% AWAY FROM THE BUILDING. CONSULT DISTRIBUTOR'S INSPECTOR WHERE THE ABOVE REQUIREMENT CANNOT BE MET (ie. FRENCH DRAIN REQUIRED).
- 1.5. THE AREA WITHIN TWO METRES AT EACH END OF A DUCT BANK SHALL BE FREE OF ANY FOREIGN OBJECTS SUCH AS CABLES OR PIPES, FOR BACKHOE DIGGING.
- 1.6. DUCT BANK SHALL BE TERMINATED IN A LANDSCAPED AREA AT THE LOCATION GIVEN BY THE DISTRIBUTOR.
- 1.7. CONFIGURATIONS NOT COVERED TO STANDARDS SHALL BE ARRANGED IN A SIMILAR MANNER SUBJECT TO DISTRIBUTOR'S APPROVAL.

2. DUCT BANK CONSTRUCTION

- 2.1. THE DUCT SHALL BE 100 mm (4") DIAMETER, PVC TYPE DB2/ES2 (SOLID WALL ONLY) C/W BELL END AND BE APPROVED AS PER CSA STANDARD C22.2 No. 211.1 (LATEST REVISION) AND THE DISTRIBUTOR.
- 2.2. ALL FITTINGS AND BENDS SHALL BE PVC TYPE DB2/ES2. APPROVED SOLVENT CEMENT SHALL BE USED TO JOIN ALL DUCTS, FITTINGS AND BENDS AT MINIMUM 30 MINUTES PRIOR TO POURING CONCRETE.
- 2.3. ALL DUCTS AT THE FACE OF THE DUCT BANK SHALL BE ORIENTED AND TERMINATED WITH EITHER BELL ENDS SUPPORTING CABLES OR PLUGS FOR SPARE DUCTS
- 2.4. DUCTS SHALL BE SUPPORTED WITH APPROVED SPACERS EVERY 1.5 m (5 ft) AND BE ANCHORED SO AS NOT TO FLOAT DURING CONCRETE POURING.
- 2.5. ALL DUCT BANKS SHALL BE REINFORCED WITH NON PRE-STRESSED STEEL REINFORCING BARS - GRADE 400 AND CONFORMED WITH CSA G30.12 (LATEST REVISION). STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, MINIMUM 300 mm OVERLAP AND TIED, AND BE LOCATED AT THE BOTTOM OF THE DUCT BANK
- 2.6. STEEL REINFORCING BARS SHALL BE EXTENDED BEYOND THE DUCT BANK FOR FUTURE DUCT BANK EXTENSION. REINFORCING BARS SHALL BE PASSED CONTINUOUSLY FROM ONE DUCT BANK TO THE OTHER.
- 2.7. DUCTS SHALL BE ENCASED IN 20MPa CONCRETE WITH 10 mm PEA GRAVEL AGGREGATE. SLUMP MUST NOT EXCEED 100 mm (4") UNDER STANDARD SLUMP TEST. EARTH UNDER DUCT BANK SHALL BE THOROUGHLY COMPACTED PRIOR TO DUCT BANK INSTALLATION TO ELIMINATE SETTLING OF FINISHED DUCT BANK.
- 2.8. ALL DUCTS SHALL BE MANDRELLED AND BE CLEANED AFTER DUCT BANK INSTALLATION.
- 2.9. ALL DUCTS SHALL BE EQUIPPED WITH 10 mm (3/8") DIAMETER POLYPROPYLENE ROPE. ALL DUCTS SHALL HAVE THE ENDS SEALED WITH AN APPROVED DUCT PLUG IMMEDIATELY AFTER DUCT BANK INSTALLATION
- 2.10. END OF DUCT BANK AND ROAD CROSSING SHALL BE MARKED WITH AN ELECTRONIC

3. CUSTOMER OBLIGATIONS

- 3.1. CUSTOMER'S DUCT BANK INSTALLATION SHALL BE SUBJECTED TO DISTRIBUTOR'S INSPECTION AND ACCEPTANCE PRIOR TO POURING OF CONCRETE OR ANY BACKFILL MATERIAL, OR WILL NOT BE PASSED. CUSTOMER SHALL CONTACT DISTRIBUTOR INSPECTION DEPARTMENT TO ARRANGE FOR INSPECTION 48 HOURS IN ADVANCE OF POURING CONCRETE
- 3.2. THE CUSTOMER SHALL FOLLOW DIRECTIONS GIVEN BY THE DISTRIBUTOR'S INSPECTOR FOR ANY SITUATION NOT COVERED IN THIS SPECIFICATION.
- 3.3. DUCTS SHALL BE PROBED PRIOR TO CABLE INSTALLATION. CABLE SHALL NOT BE INSTALLED IN DUCT WHICH DOES NOT ALLOW PASSAGE OF A TEST MANDREL SIZED TO 95 % OF THE DIAMETER OF THE PVC TYPE DB2/ES2 DUCT.
- 3.4. LANDSCAPING, PAVING AND CURBS SHALL NOT BE COMPLETED UNTIL DISTRIBUTOR'S CABLE INSTALLATION IS COMPLETE. OTHERWISE, ALL RESTORATION SHALL BE DONE BY THE CUSTOMER AT THEIR OWN EXPENSE.

FIGURE 2 SECONDARY SERVICE DUCT INSULATION 1-PHASE OR 3-PHASE SERVICES

1. WHENEVER POSSIBLE, THE RISER CABLES SHOULD BE LOCATED TO THE SIDE OF POLE OPPOSITE TO ON-COMING TRAFFIC (OESC BULLETIN DTB-06/06).
2. DUCT TO BE ENCASED IN CONCRETE IF MINIMUM DEPTH CAN NOT BE MET. SEE FIGURE 1 AND FIGURE 1A.

* ALL UNITS OF MEASUREMENT ARE IN MILLIMETERS UNLESS OTHERWISE STATED

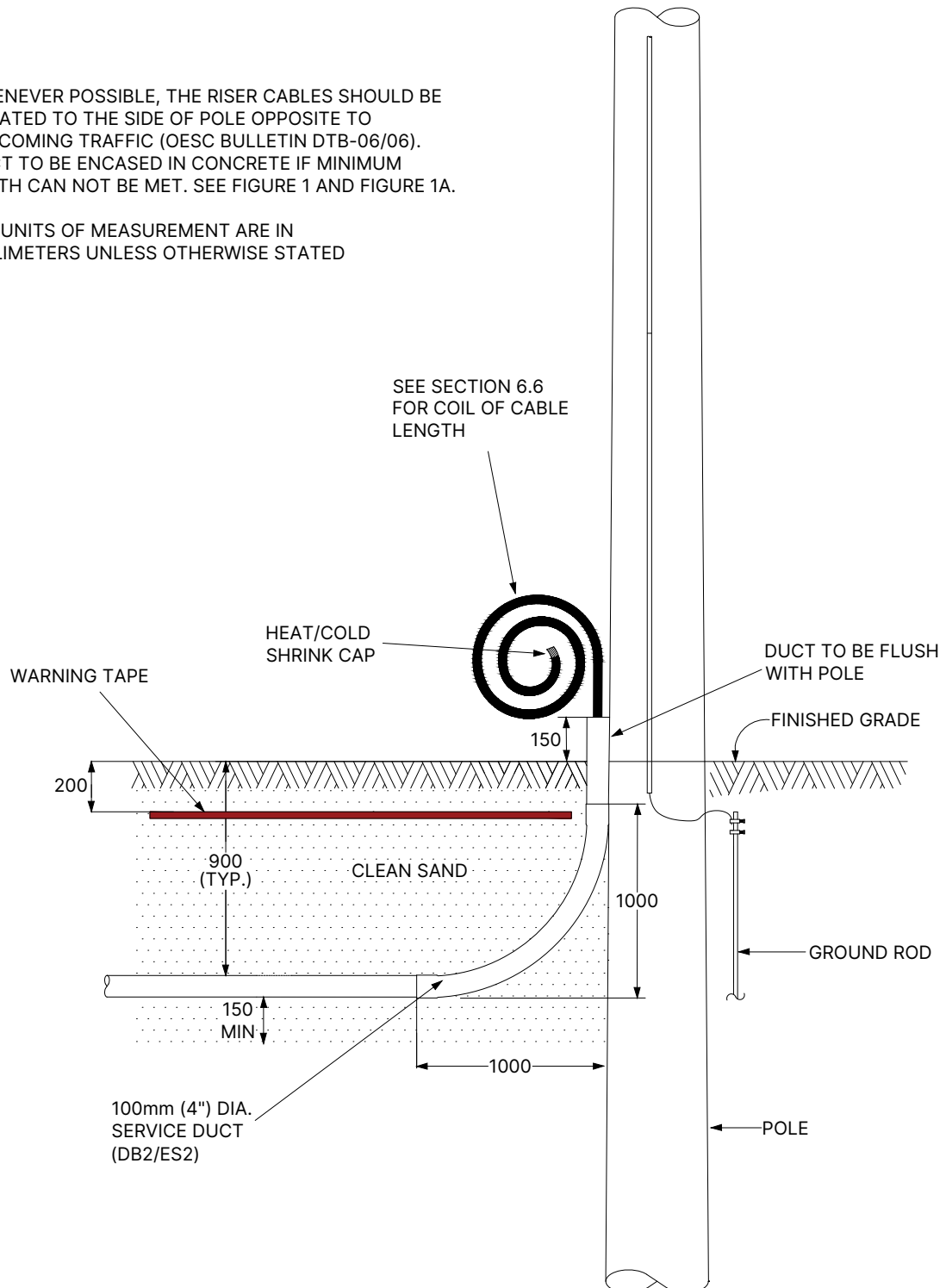
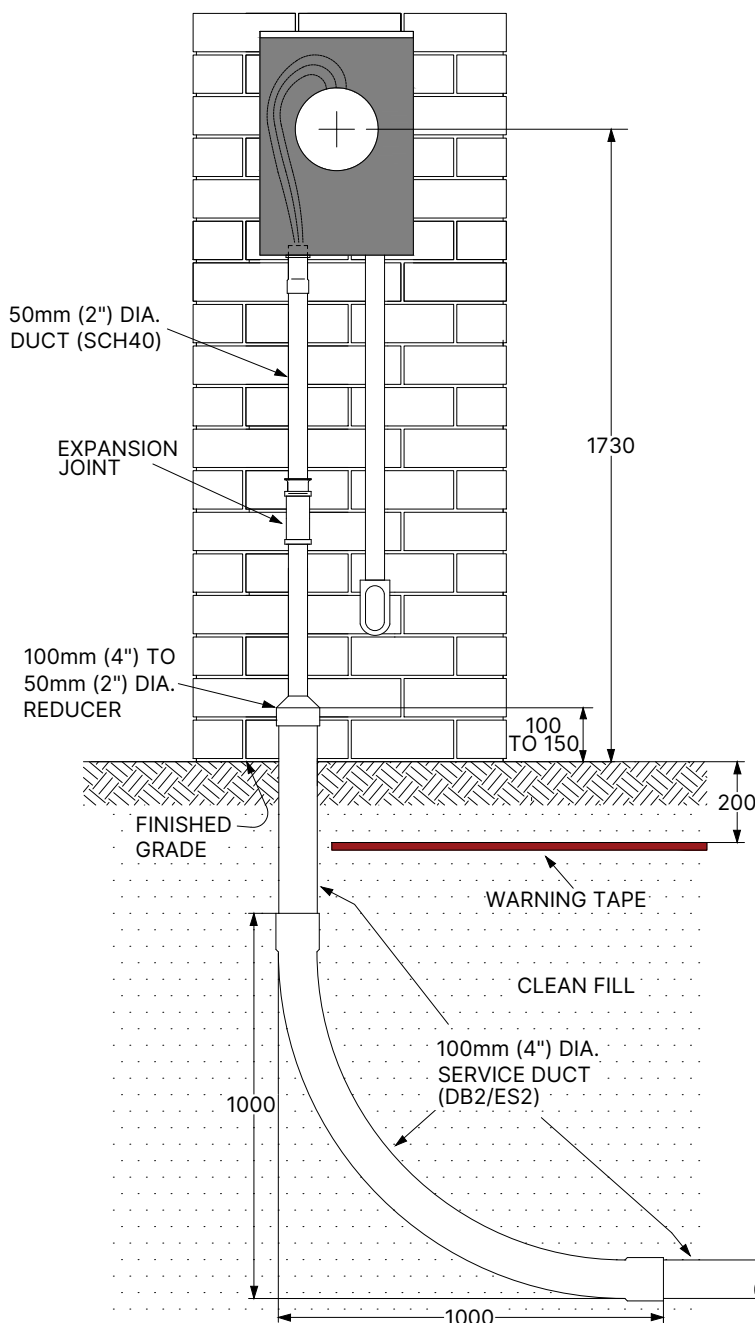


FIGURE 3 AND 4 UNDERGROUND SECONDARY SERVICE DUCT AND TYPICAL SERVICE TRENCH EXAMPLE

FIG 3

UNDERGROUND SECONDARY
SERVICE DUCT

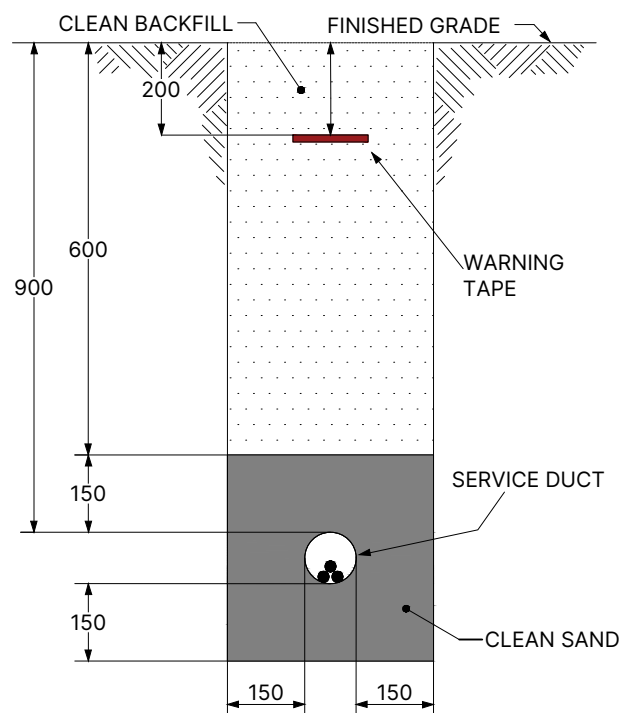


1. ALL UNDERGROUND CABLES ARE TO BE INSTALLED IN EITHER, I. 100mm TYPE DB2/ES2 PVC DUCT OR, II. SMOOTH-WALL SDR-13.5 HDPE DUCT
2. ALL DUCT TO BE INSTALLED WITH 150MM OF GRIT-FREE MASONRY MORTAR SAND ABOVE AND BELOW THE CONDUIT.
3. DUCT TO BE CONCRETE ENCASED IF REQUIRED. SEE FIGURE 1 AND FIGURE 1A.
4. SUPPLY AND INSTALL BURIED CABLE WARNING TAPE AT 200mm BELOW FINISHED GRADE SPANNING FULL LENGTH OF TRENCH
5. ALL 90 DEGREE BENDS IN CONDUIT TO BE A MINIMUM 1000mm RADIUS
6. SERVICE DUCT TO BE INSPECTED BY LAKELAND POWER BEFORE SERVICE TRENCH IS BACKFILLED

* ALL UNITS OF MEASUREMENT ARE IN MILLIMETERS UNLESS OTHERWISE STATED

FIG 4

TYPICAL SERVICE TRENCH SECTION



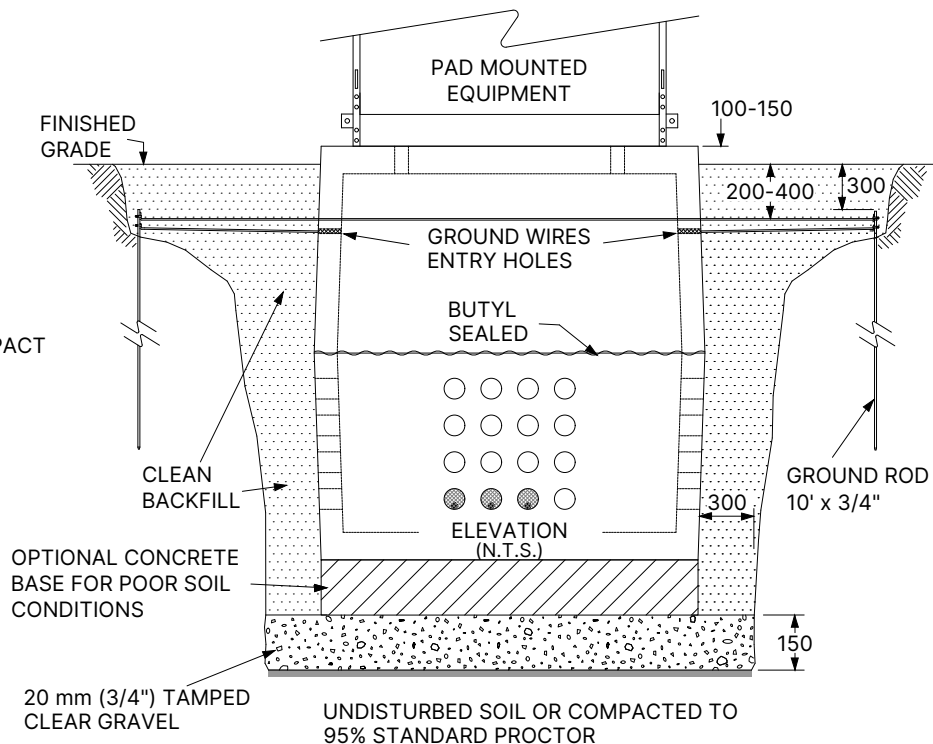
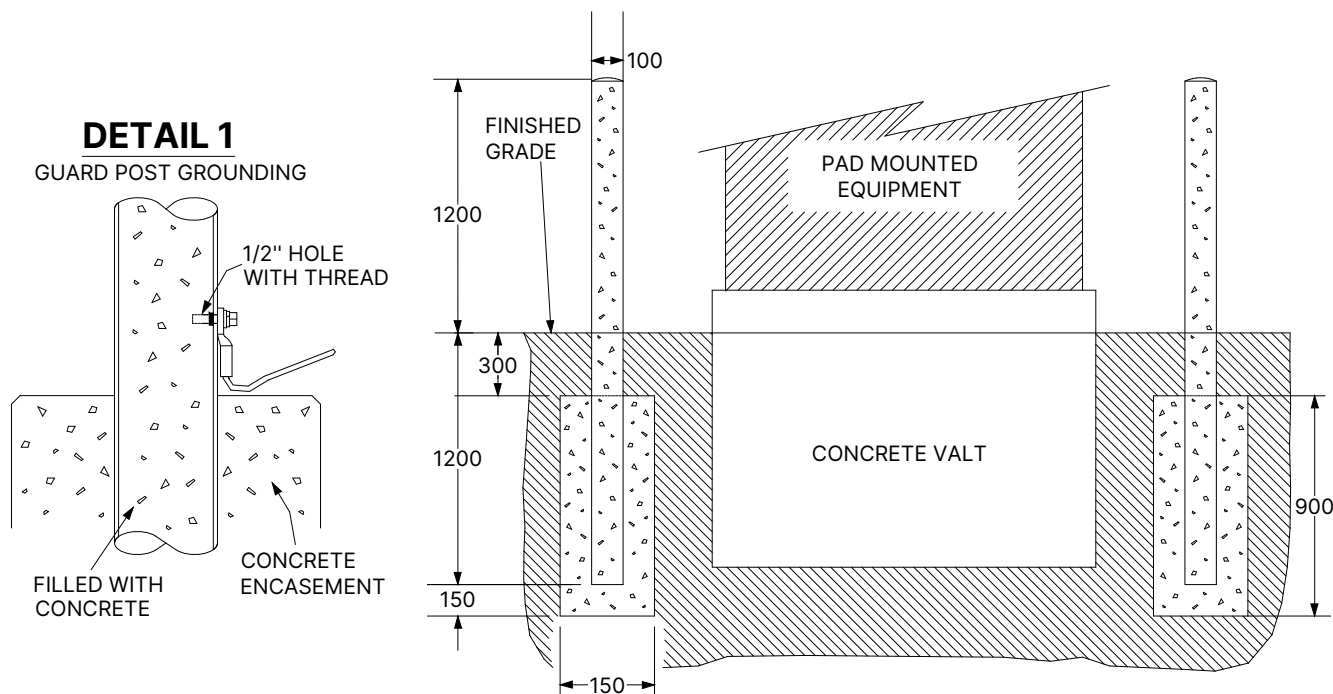
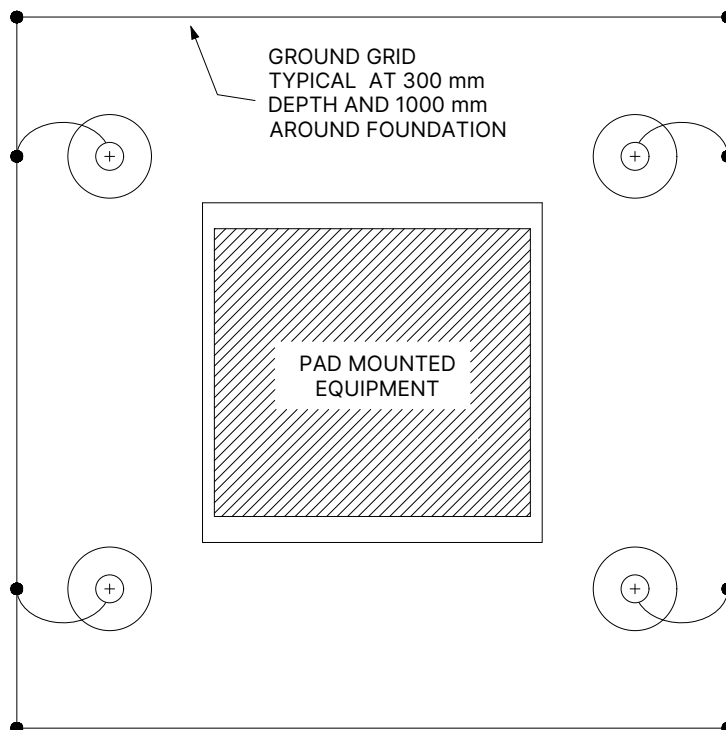


FIGURE 6 DETAIL FOR BOLLARD GUARD POST INSTALLATION AND GROUNDING



1. GUARD POST SHALL BE 100mm GALVANIZED STEEL OR PAINTED WITH RUST-RESISTANT PAINT. PLASTIC COVERS MAY BE INSTALLED.
2. DIMENSIONS EQUIPMENT GIVEN IN THIS FIGURE ARE TYPICAL. ACTUAL DIMENSIONS SHALL BE DETERMINED IN ACCORDANCE WITH THE SPECIFIC EQUIPMENT BEING INSTALLED.
3. EQUIPMENT IN HIGH-TRAFFIC AREA MIGHT REQUIRE ADDITIONAL GUARD POSTS ON THE PERIMETER.
4. GUARD POST LOCATIONS TO BE DETERMINED BASED ON THE DIRECTION OF POTENTIAL THREAT.
5. CARE SHOULD BE TAKEN TO ENSURE THAT THE GUARD POST DOES NOT HINDER THE OPERATION, MAINTENANCE, OR REPLACEMENT OF THE EQUIPMENT.
6. GUARD POST SHALL BE CONNECTED TO GROUND GRID (AS SHOWN) OR TO GROUND ROD AS SHOWN, OR WITH APPROVED CONNECTION.

* ALL UNITS OF MEASUREMENT ARE IN MILLIMETERS UNLESS OTHERWISE STATED



Work Order Approval Form



CUSTOMER APPROVAL		
I authorize approval to perform the work as estimated and will pay all costs outlined below including applicable taxes.		
	Estimated Cost:	\$1,859.44
	Taxes:	\$241.73
	Total	\$2,101.17
<hr/>	<hr/>	<hr/>
Name (I have authority to authorize costs)	Signature	Date



DESIGNATED SUBSTANCES SURVEY REPORT

**3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO**

EHS^P Project: 04-0040-22-003

Prepared by:

EHS Partnerships Ltd.
406 – 2 Gurdwara Road
Ottawa, ON
K2E 1A2

Prepared for:

Sharon Davis
Manager, Housing Operations
District of Parry Sound Social Services Administration Board
1 Beechwood Drive
Parry Sound, ON P2A 1J2

September 2022

Prepared by:

Joel Marcellus
Project Manager

Reviewed by:

Trent Windsor, C.E.T.
Partner

CONFIDENTIAL

Distribution:

1 PDF – District of Parry Sound Social Services Administration Board
1 copy - EHS Partnerships Ltd

EXECUTIVE SUMMARY

INTRODUCTION

EHS Partnerships Limited (EHS^P) was retained by The District of Parry Sound Social Services Administration Board (PSDSSAB) to conduct a Designated Substances Survey (DSS) of the building located at 3A Beechwood Drive in Parry Sound, Ontario (Subject Property).

The DSS was requested to satisfy Section 30 of the Occupational Health and Safety Act and Ontario Regulation 278/05 “Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations (O. Reg. 278/05) in order to identify any designated and hazardous materials that may be present throughout the building.

Joel Marcellus of EHS^P completed the field work on September 1, 2022.

SCOPE OF WORK

The scope of work is based on the Canada Labour Code Part II, which requires all asbestos-containing material (ACM) be detailed in a survey for both friable and non-friable materials, as well as O. Reg. 278/05.

The scope of work included a site investigation, the collection and analysis of suspect materials, and Specifications for abatement. Specifically, the following was conducted:

- Detailed site investigation of the subject building;
- Sample collection of twenty-eight (28) samples of suspected asbestos-containing materials and two (2) samples of suspected lead containing paints;
- Visual assessment for other potential hazardous building materials including but not limited to acrylonitrile, arsenic, benzene, ethylene oxide, isocyanates, mercury, silica, vinyl chloride, polychlorinated biphenyls, and ozone depleting substances;
- Review, interpretation, and organization of all field and laboratory findings; and
- Preparation of a final report outlining findings and providing recommendations for abatement where required.

CONCLUSIONS AND RECOMMENDATIONS

The Occupational Health and Safety Act require building owners and their agents to notify all employees, and contractors of the presence of designated substances at a Subject Property. OCH commissioned this report as part of their obligations under the Occupational Health and Safety Act of Ontario, Section 30 duty of Project Owners and Ontario Regulation 278/05. Additional assessment of designated substances may be required during planned renovations of the Subject Property.

Provide a copy of this report to all prospective contractors who will participate in the renovation, alteration, or demolition of the Subject Property.

Asbestos

- Asbestos containing door frame caulking was identified at the Site. The caulking was observed to be in good condition at the time of the assessment. Asbestos containing materials that could potentially be impacted should be removed in accordance with Ontario Regulation 278/05 –

Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations prior to any renovations or demolition.

- Any work that may disturb the asbestos must be conducted by properly certified and experienced asbestos abatement personnel.
- All asbestos waste generated by asbestos abatement operations must be disposed of in accordance with O.Reg. 347/90 (as amended). Asbestos waste may be disposed of at any municipal landfill approved by the MOE to accept this type of waste pending notification to, and acceptance by the landfill operator.
- The owner must notify all employees and contractors involved with renovations, repairs, alterations, or demolitions involving ACM which may be disturbed. A copy of this PSDSS must be made available for review by any maintenance personnel or contractors working in the areas where ACM may be disturbed. As a good management practice, the owner should maintain a record of this notification.

Lead

Lead-containing paint is present at the Subject Property. All paint is expected to contain some level of lead and such the following is recommended.

- Measures must be implemented to control the lead dust hazard during any construction or demolition activity that would result in the disturbance of any painted surface. The measures implemented must be in accordance with the “Guideline – Lead on Construction Projects” (Ministry of Labour, September 2004).
- Waste generated from demolition activities that contain painted surfaces must undergo Toxicity Characteristic Leaching Procedure testing in order to classify the waste. If the concentration of lead exceeds that of the leachate quality criteria, then waste must be classified as hazardous and must be disposed of at a landfill that accepts hazardous waste in accordance with O. Reg 347, as amended.

Silica

Measures prescribed in the Ministry of Labour’s Guideline titled Silica on Construction Projects should be followed during the alteration of all silica-containing materials.

Ozone Depleting Substances

Non-base building units (i.e., refrigerators, freezers & AC units) should be relocated or reused rather than destroyed. If the units will not be relocated, then all ozone depleting refrigerants must be removed from the units prior to disposal. The removal of the refrigerants must be conducted by an individual licensed to perform such work in accordance with the Ozone-depleting Substances and Halocarbon Alternatives Regulations SOR/2016-137.

Benzene and Vinyl Chloride

Excessive heat must not be used on wire coatings, plastic materials, or PVC as heat may release benzene. If these practices cannot be avoided, then implement control measures appropriate for the control of benzene prescribed in Ontario Regulation 490/09 – Designated Substances.

Other Designated Substances and Hazardous Materials

Small amounts of benzene and vinyl chloride may be present in plastic wire coatings and PVC piping. No other designated substances are anticipated to be present at the Subject Property. There may be a potential exposure hazard to occupants, workers, or others if any plastic or rubber materials are exposed to excessive heat.

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APPENDICES

APPENDIX A – Laboratory Report

1.0 INTRODUCTION

EHS Partnerships Limited (EHS^P) was retained by The District of Parry Sound Social Services Administration Board (PSDSSAB) to conduct a Designated Substances Survey (DSS) of the apartment building located at 3A Beechwood Drive in Parry Sound, Ontario (Subject Property).

The DSS was requested to satisfy Section 30 of the Occupational Health and Safety Act and Ontario Regulation 278/05 “Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations (O. Reg. 278/05) in order to identify any designated and hazardous materials that may be present throughout the building.

Joel Marcellus of EHS^P completed the field work on September 1, 2022.

2.0 SCOPE OF WORK

The scope of work is based on the Canada Labour Code Part II, which requires all asbestos-containing material (ACM) be detailed in a survey for both friable and non-friable materials, as well as O. Reg. 278/05.

The scope of work included a site investigation, the collection and analysis of suspect materials, and Specifications for abatement. Specifically, the following was conducted:

- Detailed site investigation of the subject building;
- Sample collection of thirty-six (36) samples of suspected asbestos-containing materials and six (6) samples of suspected lead-based paints;
- Visual assessment for other potential hazardous building materials including but not limited to acrylonitrile, arsenic, benzene, ethylene oxide, isocyanates, mercury, silica, vinyl chloride, polychlorinated biphenyls, and ozone depleting substances;
- Review, interpretation, and organization of all field and laboratory findings; and
- Preparation of a final report outlining findings and providing recommendations for abatement where required.

3.0 REGULATIONS, STANDARDS, AND GUIDELINES

In Ontario a designated substance survey (DSS) is required under section 30 of the Occupational Health and Safety Act (OHSA) R.S.O 1990, enforced by the Ontario Ministry of Labour prior to the undertaking of a renovation or demolition in an area that may contain dangerous or hazardous building materials.

Designated substances in Ontario are defined in accordance with OHSA as a biological, chemical, or physical agent or combination thereof as a designated substance to which the exposure of a worker is prohibited, regulated, restricted, limited or controlled. Under section 30 of OHSA – “Duty of Project Owners”, owners are required to determine if designated substances are present at a project site and disclose this information to project participants. The 11 designated substances in Ontario are:

Acrylonitrile	Coke oven emissions	Mercury
Arsenic	Ethylene oxide	Silica
Asbestos	Isocyanates	Vinyl chloride
Benzene	Lead	

Designated substances that individuals are likely to be exposed to during construction projects include; asbestos, lead, mercury, and silica. The Ontario Ministry of Labour provides guidance regarding these substances during construction in the following documents:

- Ontario Regulation 490/09 (O.Reg. 490/09): Designated Substances;
- Ontario Regulation 278/05 (O.Reg. 278/05): Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations;
- Guideline – Silica on Construction Projects, Ministry of Labour 2004; and,
- Guideline – Lead on Construction Projects, Ministry of Labour 2004.

3.1 Asbestos Containing Materials (ACM)

ACM are also regulated under the Ontario Regulation 278/05 Asbestos on Construction Projects and in Buildings and Repair Operations (O.Reg. 278/05). The Regulation provides definitions, outlines assessment requirements, and procedures for the handling of ACM. O.Reg. 278/05 defines an ACM as a “material that contains 0.5 per cent or more asbestos by dry weight.” The Regulation defines a friable material as “a material that, when dry, can be crumbled, pulverized or powdered by hand pressure.” Subsection 3 (3) Table 1 of the Regulation determines the minimum required number of samples per material to be collected during an assessment. The Regulation also lists information that is required for the constructor or employer to provide to any worker involved with ACM or suspect ACM at the work site. This information includes the location of the ACM, its friability, and in the case of sprayed-on ACM the specified type of asbestos.

All ACM that may be disturbed must be removed to the extent practicable and will be subject to special handling and disposal. O. Reg. 278/05 classifies asbestos removal into either Type 1, Type 2, or Type 3 operations. Where Type 1 operations have the lowest exposure risk, and Type 3 operations have the highest potential to generate concentrations of airborne asbestos fibres.

3.2 Lead

Ontario Regulation 490/09 – Designated Substances (O. Reg. 490/09) applies to every employer and worker at a workplace where lead is present, and at which the worker is likely to be exposed to lead. In the province of Ontario, the regulations or guidelines do not provide a specific definition for a lead containing paint. The Canadian Federal Government has been limiting the amount of lead in paint to 0.5 % (5,000 ppm) since 1976. The Surface Coating Materials Regulation (SOR/2016-193), pursuant to the 2005 Hazardous Products Act, indicates that under Canadian federal law a paint containing more than 0.009 % (90 ppm) of lead are considered lead-containing paint. However, this is a value to keep the lead concentration in surface coatings as low as possible and should not be confused with health based standards which correlates to acceptable blood lead levels. The Guideline for Lead on Construction Projects (Ontario Ministry of Labour 2004) indicates that the disturbance of any painted surface is subject to the guideline to ensure that airborne levels of lead are maintained below the Ontario Time Weighted Average (TWA) of 0.05 mg/m³.

Other organizations such as the Environmental Abatement Council of Canada (EACC) have determined a “Virtually Safe” level for paints and coatings. The EACC virtually safe level indicates that paints or surface coatings containing less than or equal to 0.1% lead by weight (1,000 ppm) are considered low-level lead paints or coatings. If these materials are disturbed in a non-aggressive manner, where the airborne levels will remain below the Ontario TWA, then worker protection from the inhalation of lead is not required.

For the purposes of this assessment, paints identified to contain concentrations of lead greater than 90 ppm are considered lead-containing. Paints above 1,000 ppm are in exceedance of the Virtually Safe levels and have a potential of creating worker exposure values over 50% of the TWA.

3.3 Silica

Exposure to airborne silica is regulated under Ontario Regulation 845/90 Designated Substance – Silica. Silica dust may be generated and become airborne during construction activities including blasting, grinding, crushing, and sandblasting silica-containing materials. The Ontario Ministry of Labour's guideline document Silica on Construction Projects outlines precautions that must be taken to prevent silica-containing particles from becoming airborne during such activities.

3.4 Polychlorinated Biphenyls (PCBs)

Canadian federal regulation SOR/2008/-273 PCB Regulations, and Ontario Regulations 347/90 General – Waste Management and 362/90 Waste Management – PCB's, outline the requirements for handling, storage, and removal of equipment containing PCBs.

3.5 Ozone Depleting Substances (ODS)

Ontario Regulation 189/94 Refrigerants describes the procedures for removal and disposal of refrigeration equipment. Such activities should only be undertaken by persons with valid ozone depleting prevention cards.

This Regulation applies to refrigerants containing any of the following substances:

1. Chlorofluorocarbon;
2. Hydrochlorofluorocarbon, and;
3. Hydrofluorocarbon. O. Reg. 189/94, s. 2.

3.6 Mercury

Dangerous Goods Handling and Transportation Act, Classification Criteria for Products, Substances and Organisms Regulation (M.R. 282/87), Dangerous Goods Handling and Transportation Regulation (M.R. 55/2003) Generator, Registration and Carrier Licensing Regulation (M.R. 175/87), and Manifest Regulation (M.R. 139/88).

3.7 Other Designated Substances and Hazardous Materials

All remaining designated substances and hazardous materials outlined in this report are defined under the Occupational Safety and Health Act (OSHA). These include the following designated substances: acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride. The remaining hazardous materials including mould, UFFI, and radioactive materials are also regulated under OSHA.

4.0 METHODOLOGY

4.1 Asbestos Containing Material (ACM)

ACM sampling was conducted in accordance with O. Reg. 278/05. EHS_P conducted a systematic visual inspection of structural, mechanical, and architectural elements, of the Subject Property where applicable. Building materials suspected of containing asbestos were sampled, their locations documented, and classified as either friable or non-friable. EHS_P submitted the samples to EMSL Canada Incorporated (EMSL) of Ottawa, Ontario for analysis. The samples were analyzed by Polarized Light Microscopy (PLM)

following US Environmental Protection Agency Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Samples were collected in accordance with subsection 3(3) Table 1 of O.Reg. 278/05. The Regulation provides the requirements for the minimum number of samples to be collected from area of homogeneous material and is summarized in Table 4.1.1 of this report.

Table 1: O. Reg. 278/05 Bulk Material Samples

Type of Material	Size of Area of Homogeneous Material	Minimum Number of Samples Collected
Surfacing material, including without limitation material that is applied to surfaces by spraying, by troweling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 m ² (<1,000 ft ²)	3
	90 m ² or more but less than 450 m ² (1,000 - 4,900 ft ²)	5
	450 m ² or more (>4,900 ft ²)	7
Thermal insulation, except as described below	Any Size	3
Thermal insulation patch	Less than 2 m or 0.5 m ²	1
Other material	Any Size	3

4.2 Lead

EHS^P conducted a visual assessment and lead-based materials. Samples suspected to contain lead were submitted under chain of custody to EMSL Analytical Inc. of Mississauga, Ontario for lead analysis via Metals by ICP-OES.

4.3 Other Designated Substances and Hazardous Materials

All other potential designated substances and/or hazardous materials were visually identified and documented at the Subject Property as required.

5.0 FINDINGS, RESULTS, AND DISCUSSION

5.1 Asbestos Containing Materials

EHS^P personnel completed Subject Property reconnaissance including visual inspection and sampling of potential ACM on September 1, 2022. Based on the findings of the visual inspection, suspect materials were documented, collected, and subsequently submitted for analysis at a 3rd party analytical laboratory.

As part of the ACM survey, EHS^P collected twenty-eight (28) representative samples from eight (8) distinct building materials that were suspected to contain asbestos. Suspected ACM sampled during the DSS

included drywall joint compound, ceiling stipple, caulking, vinyl flooring, ceiling tiles, cove base mastic and brick mortar.

Sampled materials were submitted using a chain of custody to EMSL Canada Inc., of Ottawa, Ontario. The analytical results are presented in **Appendix A** and are summarized in the following table:

The analytical results are summarized in Table 2 and the laboratory report is presented in **Appendix A**.

**Table 2: Laboratory Results – Asbestos-Containing Material Sampling
3A Beechwood Drive, Parry Sound, ON**

Sample ID	Sample Location	Material Description	Asbestos Concentration (%)	ACM ⁽¹⁾ (Yes/No)	Friable / Non-friable	Condition
AT-01A-C	2 nd Floor Hallway	2' x 2' Acoustic Ceiling Tiles	None Detected	No	N/A	N/A
CM-01A-C	Maple Room	Cove Base Mastic	None Detected	No	N/A	N/A
SVF-01A-C	Beneath Laminate Flooring	Sheet Vinyl Flooring (grey)	None Detected	No	N/A	N/A
ST-01A-C	Gym	Ceiling Stipple	None Detected	No	N/A	N/A
CLK-01A-C	Exterior Exit	Door Frame Caulking (grey)	2% Chrysotile	Yes	Non-friable	Good
MOR-01A-C	Exterior Exit	Mortar	None Detected	No	N/A	N/A
AT-02A-C	Electrical Room	2' x 4' Acoustic Ceiling Tile	None Detected	No	N/A	N/A
DJC-01A-G	Throughout Building	Drywall Joint Compound	None Detected	No	N/A	N/A

Notes

- (1) ACM - Asbestos containing material
- (2) N/A - not applicable
- (3) **Bold** - indicates asbestos containing material

The attic space was inspected for suspected asbestos-containing insulation. The attic space was observed to be insulated with fiberglass-batt insulation. There are no concerns with regards to asbestos.

Based on the analytical results and visual inspection asbestos was identified in the exterior doorframe caulking. No asbestos was detected in any of the samples of drywall joint compound, ceiling stipple, ceiling tiles, brick mortar, cove base mastic or vinyl flooring submitted for analysis.

5.2 Lead

EHS^P completed the assessment including visual inspection of potential lead-based paints. Painted surfaces were observed throughout the Subject Property. Two (2) samples of paint were collected and submitted for analysis. The analytical results are presented in **Appendix A** and a summary of the lead paint results are presented below in Table 3.

Table 3: Laboratory Results – Lead Paint Sampling
3A Beechwood Drive, Parry Sound, ON

Sample ID	Colour (Painted Surface)	Location	Lead Concentration (ppm)
Pb-01	Door Paint	Rear Exit Door	<180
Pb-02	Exterior Doorframe Paint	Rear Exit Doorframe	1,100

Notes:

(1) **Bold** - Indicates lead containing paint as it is greater than 90ppm lead content.

For the purposes of this assessment, paints identified to contain concentrations of lead greater than 90 ppm are considered lead-containing and a lead-based paint is identified as any paint identified to contain concentrations of lead greater than 5,000 ppm. Paints identified to contain concentrations of lead greater than 1,000ppm are in exceedance of the EACC “virtually safe” guideline.

The sample of paint (Pb-02), from the exterior door frame was found to contain a lead concentration in exceedance of the 1,000ppm EACC “virtually safe” guideline.

All paint is expected to contain some level of lead. Lead is also likely to be present in the solder of copper pipes within the Subject Property.

5.3 Silica

The following materials were observed within the Subject Property and are presumed to contain silica:

- Drywall materials;
- Brick and associated mortar;
- Ceiling stipple;
- Acoustic ceiling tiles;
- Poured concrete;
- Vinyl flooring and mastics; and
- Any other cementitious materials.

5.4 Mercury

Mercury containing fluorescent light tubes were observed at the Subject Property.

5.5 Polychlorinated Biphenyls (PCBs)

No potential PCB containing light ballasts were observed during the DSS.

5.6 Urea-formaldehyde Foam Insulation (UFFI)

UFFI was not observed within the Subject Property at the time of the assessment.

5.7 Ozone Depleting Substances (ODS)

A visual assessment for ODS-containing equipment was performed. Refrigerators and air conditioning units at the Subject Property potentially contain ODSs.

5.8 Other Designated Substances & Hazardous Materials

A visual assessment was conducted to determine the presence of acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride.

6.0 CONCLUSIONS AND RECOMMENDATIONS

General

The Occupational Health and Safety Act require building owners and their agents to notify all employees, and contractors of the presence of designated substances at a Subject Property. OCH commissioned this report as part of their obligations under the Occupational Health and Safety Act of Ontario, Section 30 duty of Project Owners and Ontario Regulation 278/05. Additional assessment of designated substances may be required during planned renovations of the Subject Property.

Provide a copy of this report to all prospective contractors who will participate in the renovation, alteration, or demolition of the Subject Property.

Asbestos

- Asbestos containing door frame caulking was identified at the Site. The caulking was observed to be in good condition at the time of the assessment. Prior to renovations any asbestos containing materials that could potentially be impacted should be removed in accordance with Ontario Regulation 278/05 – Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations.
- Any work that may disturb the asbestos must be conducted by properly certified and experienced asbestos abatement personnel.
- All asbestos waste generated by asbestos abatement operations must be disposed of in accordance with O.Reg. 347/90 (as amended). Asbestos waste may be disposed of at any municipal landfill approved by the MOE to accept this type of waste pending notification to, and acceptance by the landfill operator.
- The owner must notify all employees and contractors involved with renovations, repairs, alterations, or demolitions involving ACM which may be disturbed. A copy of this PSDSS must be made available for review by any maintenance personnel or contractors working in the areas where ACM may be disturbed. As a good management practice, the owner should maintain a record of this notification.

Benzene

Excessive heat must not be used on wire coatings, plastic materials, or PVC as heat may release benzene. If these practices cannot be avoided, then implement control measures appropriate for the control of benzene prescribed in Ontario Regulation 490/09 – Designated Substances.

Lead

Lead-containing paint is present at the Subject Property. All paint is expected to contain some level of lead and such the following is recommended.

1. Measures must be implemented to control the lead dust hazard during any construction or demolition activity that would result in the disturbance of any painted surface. The measures implemented must be in accordance with the “Guideline – Lead on Construction Projects” (Ministry of Labour, September 2004).
2. Waste generated from demolition activities that contain painted surfaces must undergo Toxicity Characteristic Leaching Procedure testing in order to classify the waste. If the concentration of lead exceeds that of the leachate quality criteria, then waste must be classified as hazardous and must be disposed of at a landfill that accepts hazardous waste in accordance with O. Reg 347, as amended.

Ozone Depleting Substances

Non-base building units (i.e., refrigerators, freezers & AC units) should be relocated or reused rather than destroyed. If the units will not be relocated, then all ozone depleting refrigerants must be removed from the units prior to disposal. The removal of the refrigerants must be conducted by an individual licensed to perform such work in accordance with the Ozone-depleting Substances and Halocarbon Alternatives Regulations SOR/2016-137.

Silica

Measures prescribed in the Ministry of Labour’s Guideline titled Silica on Construction Projects should be followed during the alteration of all silica-containing materials.

Other Designated Substances and Hazardous Materials

Small amounts of benzene and vinyl chloride may be present in plastic wire coatings and PVC piping. No other designated substances are anticipated to be present at the Subject Property. There may be a potential exposure hazard to occupants, workers, or others if any plastic or rubber materials are exposed to excessive heat.

7.0 LIMITATIONS

The conclusions and recommendations contained in this assessment report are based upon professional opinions with regard to the subject matter. These opinions are in accordance with currently accepted environmental assessment standards and practices applicable to these locations and are subject to the following inherent limitations:

1. The data and findings presented in this report are valid as of the dates of the investigations. The passage of time, manifestation of latent conditions or occurrence of future events may warrant further exploration at the properties, analysis of the data, and re-evaluation of the findings, observations, and conclusions expressed in this report.
2. The data reported and the findings, observations and conclusions expressed in this report are limited by the Scope of Work. The Scope of Work was defined by the request of the client, the time and budgetary constraints imposed by the client, and availability of access to the properties.
3. Because of the limitations stated above, the findings, observations and conclusions expressed by EHS^P in this report are not, and should not be, considered an opinion concerning compliance of any past or present owner or operator of the Subject Property with any federal, provincial, or local laws or regulations.
4. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, and conclusions, which are based solely upon Subject Property conditions in existence at the time of investigation.
5. EHS^P assessment reports present professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of federal, provincial, or local governmental agencies. Any use of the assessment report constitutes acceptance of the limits of EHS^P's liability. EHS^P's liability extends only to its client and not to other parties who may obtain this assessment report. Issues raised by the report should be reviewed by appropriate legal counsel.

Appendix A

Analytical Laboratory Results - Asbestos

Designated Substance Survey
District of Parry Sound Social Services Administration Board
3A Beechwood Drive
Parry Sound, Ontario
EHS^P Project No.: 04-0040-22-003

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L4T 1G3

Phone/Fax: (289) 997-4602 / (289) 997-4607

<http://www.EMSL.com>torontolab@emsl.com

EMSL Canada Or 552213606
CustomerID: 55SEAC63
CustomerPO: 04-0040-22-003
ProjectID:

Attn: **Joel Marcellus**
EHS Partnerships Ltd.
2 Gurdwara Road Suite 406
Nepean, ON K2E 1A2

Phone: (613) 828-8989
Fax: (613) 828-9404
Received: 9/7/2022 10:00 AM
Collected: 9/1/2022

Project: **04-0040-22-003 - 3A Beachwood Drive****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
Pb-1 552213606-0001	9/1/2022	9/7/2022	0.1118 g	180 ppm	<180 ppm
Site: door paint exit Desc: exterior Insufficient sample to reach reporting limit.					
Pb-2 552213606-0002	9/1/2022	9/7/2022	0.1022 g	200 ppm	1100 ppm
Site: door frame paint exit Desc: exterior					

Rowena Fanto, Lead Supervisor
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA-LAP, LLC - ELLAP #196142

Initial report from 09/09/2022 08:55:08



EMSL Canada Inc.

22 Antares Drive Suite 102 Ottawa, ON K2E 7Z6
Phone/Fax: (343) 882-6076 / (343) 882-6077
<http://www.EMSL.com> / ottawalab@EMSL.com

EMSL Canada Order 672201722
Customer ID: 55SEAC63
Customer PO:
Project ID:

Attn: Joel Marcellus
EHS Partnerships Ltd.
2 Gurdwara Road Suite 406
Nepean, ON K2E 1A2

Phone: (613) 828-8989
Fax: (613) 828-9404
Collected: 9/ 1/2022
Received: 9/06/2022
Analyzed: 9/07/2022

Proj: 04-0040-22-003 - 3A Beechwood Drive

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: AT-01A

Lab Sample ID: 672201722-0001

Sample Description: 2nd floor hallway/Acoustic Ceiling tiles (2 x 2)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	65.0%	35.0%	None Detected	

Client Sample ID: AT-01B

Lab Sample ID: 672201722-0002

Sample Description: 2nd floor hallway/Acoustic Ceiling tiles (2 x 2)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	65.0%	35.0%	None Detected	

Client Sample ID: AT-01C

Lab Sample ID: 672201722-0003

Sample Description: 2nd floor hallway/Acoustic Ceiling tiles (2 x 2)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	65.0%	35.0%	None Detected	

Client Sample ID: CM-01A-Joint Compound

Lab Sample ID: 672201722-0004

Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: CM-01A-Mastic

Lab Sample ID: 672201722-0004A

Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: CM-01A-Cove Base

Lab Sample ID: 672201722-0004B

Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	0.0%	100.0%	None Detected	

Client Sample ID: CM-01B-Joint Compound

Lab Sample ID: 672201722-0005

Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	



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Client Sample ID: CM-01B-Mastic **Lab Sample ID:** 672201722-0005A
Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: CM-01B-Cove Base **Lab Sample ID:** 672201722-0005B
Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	0.0%	100.0%	None Detected	

Client Sample ID: CM-01C-Joint Compound **Lab Sample ID:** 672201722-0006
Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: CM-01C-Mastic **Lab Sample ID:** 672201722-0006A
Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Beige	0.0%	100.0%	None Detected	

Client Sample ID: CM-01C-Cove Base **Lab Sample ID:** 672201722-0006B
Sample Description: maple room/Cove Base mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	0.0%	100.0%	None Detected	

Client Sample ID: SVF-01A **Lab Sample ID:** 672201722-0007
Sample Description: Beneath laminate/Sheet Vinyl flooring

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray/Beige	35.0%	65.0%	None Detected	

Client Sample ID: SVF-01B **Lab Sample ID:** 672201722-0008
Sample Description: Beneath laminate/Sheet Vinyl flooring

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray/Beige	36.0%	64.0%	None Detected	

Client Sample ID: SVF-01C **Lab Sample ID:** 672201722-0009
Sample Description: Beneath laminate/Sheet Vinyl flooring

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray/Beige	35.0%	65.0%	None Detected	



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Client Sample ID: ST-01A **Lab Sample ID:** 672201722-0010
Sample Description: Gym/Ceiling stipple

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: ST-01B **Lab Sample ID:** 672201722-0011
Sample Description: Gym/Ceiling stipple

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: ST-01C **Lab Sample ID:** 672201722-0012
Sample Description: Gym/Ceiling stipple

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: CLK-01A **Lab Sample ID:** 672201722-0013
Sample Description: Exterior/Caulking (grey)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	0.0%	98.0%	2% Chrysotile	

Client Sample ID: CLK-01B **Lab Sample ID:** 672201722-0014
Sample Description: Exterior/Caulking (grey)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022					Positive Stop (Not Analyzed)

Client Sample ID: CLK-01C **Lab Sample ID:** 672201722-0015
Sample Description: Exterior/Caulking (grey)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022					Positive Stop (Not Analyzed)

Client Sample ID: MOR-01A-Layer 1 **Lab Sample ID:** 672201722-0016
Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: MOR-01A-Layer 2 **Lab Sample ID:** 672201722-0016A
Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Red	0.0%	100.0%	None Detected	



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Client Sample ID: MOR-01B-Layer 1

Lab Sample ID: 672201722-0017

Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: MOR-01B-Layer 2

Lab Sample ID: 672201722-0017A

Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Red	0.0%	100.0%	None Detected	

Client Sample ID: MOR-01C-Layer 1

Lab Sample ID: 672201722-0018

Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Gray	0.0%	100.0%	None Detected	

Client Sample ID: MOR-01C-Layer 2

Lab Sample ID: 672201722-0018A

Sample Description: Exterior/Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Red	0.0%	100.0%	None Detected	

Client Sample ID: AT-02A

Lab Sample ID: 672201722-0019

Sample Description: Elec. Room/Acoustic Ceiling tiles (2 x 4)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	95.0%	5.0%	None Detected	

Client Sample ID: AT-02B

Lab Sample ID: 672201722-0020

Sample Description: Elec. Room/Acoustic Ceiling tiles (2 x 4)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	95.0%	5.0%	None Detected	

Client Sample ID: AT-02C

Lab Sample ID: 672201722-0021

Sample Description: Elec. Room/Acoustic Ceiling tiles (2 x 4)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	Brown	95.0%	5.0%	None Detected	

Client Sample ID: DJC-01A

Lab Sample ID: 672201722-0022

Sample Description: 2nd floor hallway/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	



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Client Sample ID: DJC-01B **Lab Sample ID:** 672201722-0023
Sample Description: maple room/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: DJC-01C **Lab Sample ID:** 672201722-0024
Sample Description: oak room/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: DJC-01D **Lab Sample ID:** 672201722-0025
Sample Description: main floor exit/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: DJC-01E **Lab Sample ID:** 672201722-0026
Sample Description: main floor stair/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: DJC-01F **Lab Sample ID:** 672201722-0027
Sample Description: Elec. Room/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	

Client Sample ID: DJC-01G **Lab Sample ID:** 672201722-0028
Sample Description: basement Hallway/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/07/2022	White	0.0%	100.0%	None Detected	



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Analyst(s):

Brianne Bedard PLM (24)
Ewa Krupinska PLM (11)

Reviewed and approved by:

Ewa Krupinska, Laboratory Manager
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government.

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