Sertrand Wheeler architecture

g no:

A0.0

# ESPRIT PLACE RENOVATION

DIST. OF PARRY SOUND SOCIAL SERVICES ADMINISTRATION BOARD

3A BEECHWOOD DRIVE PARRY SOUND, ONTARIO

# ISSUED FOR TENDER & PERMIT

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# Bertrand Wheeler architecture inc.

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#### **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.
- 3. PROMPTLY REPORT ALL DRAWING DISCREPANCIES TO THE CONSULTANT.

#### SCOPE OF WORK:

- THE FOLLOWING IS A BRIEF SUMMARY FOR OVERALL DESCRIPTIONS ONLY. REFER TO DOCUMENTS FOR FULL SCOPE.
- REMOVE AND MAKE GOOD EXISTING ROOF 'BRIDGE' SPANNED ACROSS RESIDENCE AND OFFICE BUILDING RECONSTRUCT ROOF CONNECTIONS TO MATCH ADJACENT FINISHES.PATCH/REPAIR SINGLE PLY EPDM MEMBRANE FOR WATERTIGHT ROOF
- 2. RECONSTRUCT/MODIFY EXISTING EXTERIOR RAMPS AND STAIRS. REPLACE EXISTING REAR DECK AND FENCING. 3. CONSTRUCT OPENING ON MAIN FLOOR AND REPLACE
- ENTIRE KITCHEN.
- 4. UPGRADE SELECTIVE WASHROOMS.
- 5. REPLACE AND REFINISH INTERIORS, INCLUDING FLOORING, TRIMS, CEILINGS, TRIMS, DOORS, CASINGS THROUGHOUT. REPAINT ENTIRE FACILITY.
- UPGRADE HVAC.
- UPGRADE ELECTRICAL PANEL AND DISTRIBUTION.
- 8. UPGRADE FIRE AND SMOKE ALARMS.

#### OWNER OCCUPANCY AND USE DURING CONSTRUCTION

- DWELLING UNIT IS NOT INTENDED TO REMAIN OCCUPIED DURING ENTIRE CONSTRUCTION.
- 2. THE OFFICE BUILDING IS INTENDED TO REMAIN OCCUPIED DURING CONSTRUCTION.
- 3. THE LOCALIZED AREA WILL BE EVACUATED DURING THE CONSTRUCTION AND DEMOLITION ACTIVITY. SCHEDULE TIMES WITH OWNER.
- 4. COORDINATE WORK TO AVOID SERVICE DISRUPTIONS AND INCONVENIENCES TO OCCUPANTS
- 5. ENSURE SAFETY AND SAFE EGRESS FOR OCCUPANTS AT ALL TIMES
- MAINTAIN SITE SERVICES, ELECTRICAL AND WATERTIGHT STRUCTURE AT ALL TIMES

#### CONTRACTING NOTES:

- 1. THE CONTRACTOR SHALL APPLY, ARRANGE AND PAY FOR THE BUILDING PERMIT
- 2. SUBMIT COPY OF BUILDING PERMIT(S) TO OWNER AND CONSULTANT PRIOR TO COMMENCING WORK ON SITE.
- COORDINATE SITE INSPECTIONS AND REVIEWS FOR THE BUILDING OFFICIAL AND CONSULTANT AS REQUIRED FORWARD ALL REPORTS TO THE OWNER AND CONSULTANT.
- SITE REVIEW FOR THE FOLLOWING COMPONENTS SHALL BE COORDINATED WITH THE CONSULTANT PRIOR TO CONCEALMENT. ALLOW 48 HOURS NOTIFICATION. EXCAVATION, FOOTING REINFORCING AND
- FOUNDATION REINFORCINGS (PRIOR TO POUR) 4.3. FRAMING
- REVIEW OF BLOCKING FOR WASHROOM AND SAFETY **ACCESSORIES**
- TYPICAL EXTERIOR WINDOW AND DOOR **INSTALLATIONS**
- ALL MEMBRANES. AIR BARRIERS. VAPOUR BARRIERS AND INSULATION
- FIRE RATED ASSEMBLIES
- **FIRESTOPPING**
- FINAL REVIEW FOR OCCUPANCY AND COMPLETION COORDINATE ALL WORK, INCLUDING THE WORK OF ALL
- SUBTRADES AND SUBCONTRACTORS. COORDINATE ALL WORK SCHEDULES WITH OWNER PRIOR TO START. CHECK, VERIFY, LOCATE, PROVIDE AND REINFORCE AS
- NECESSARY ALL OPENINGS FOR MECHANICAL AND ELECTRICAL REQUIREMENTS. 7. PERFORM ALL WORK AND INSTALL ALL MATERIALS IN
- ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 8. MAKE GOOD ALL EXISTING AREAS DISTURBED BY NEW WORK TO MATCH EXISTING MATERIALS AND FINISHES UNLESS OTHERWISE NOTED.
- CAULK ALL JOINTS / GAPS BETWEEN DISSIMILAR MATERIALS AND FINISHES
- 10. LEVEL AND PREPARE FLOORS FOR NEW FINISHES, AS REQUIRED, AND TO ENSURE SMOOTH TRANSITIONS AT ALL FLOOR SURFACES PRIOR TO INSTALLING FLOOR FINISHES.
- 11. UNLESS OTHERWISE NOTED FOR SALVAGE, DISPOSAL OF ALL DEMOLITION AND CONSTRUCTION RELATED DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO
- BURNING SHALL BE PERMITTED ON SITE. 12. REMOVE, RELOCATE AND STORE (ON SITE) ALL ITEMS
- NOTED FOR SALVAGE AS SITE DIRECTED BY THE OWNER. 13. ALL ITEMS NOTED AS 'NIC' SHALL BE OWNER SUPPLIED ITEM, **EQUIPMENT OR FIXTURE. SUPPLY AND INSTALLATION** SHALL NOT BE INCLUDED IN THE SCOPE OF WORK BUT ALL RELATED WORK SHALL BE FULLY COORDINATED WITH THE CONSULTANT PRIOR TO FABRICATION OR INSTALLATION TO ENSURE PROPER FIT.
- SUBMIT PRODUCT SAMPLE AND SHOP DRAWING INFORMATION FOR REVIEW
- 7. PERFORM WORK CONTINUOUSLY TO COMPLETION. NO PERIOD OF INACTIVITY WILL BE ACCEPTED WITHOUT PRIOR COORDINATION AND APPROVAL
- PERFORM DAILY AND FINAL CLEANING.
- THE FOLLOWING FACILITIES WILL BE MADE AVAILABLE BY THE OWNER TO THE CONTRACTOR. WITHIN REASONABLE USE, FOR THE CONSTRUCTION PROJECT.
- 9.1. WATER
- 9.2. ELECTRIC POWER
- SANITARY FACILITIES SHALL BE LIMITED TO SINGLE WASHROOM AS COORDINATED WITH OWNER.
- 10. THE CONTRACTOR SHALL SUPPLY THE FOLLOWING **FACILITIES AND UTILITIES:** 
  - 10.1. MOBILE TELEPHONE AND EMAIL FOR ON SITE CONTACTS
  - DISTRIBUTION TOOLS (IE. HOSES, CORDS, HEATERS, ETC) OF ALL UTILITIES AND SERVICES SHALL BE BY CONTRACTOR.
  - HOARDING & TEMPORARY STRUCTURES
  - WEATHER ENCLOSURES AND DUST SCREENS

#### **EXISTING CONDITIONS:**

- EXISTING CONSTRUCTION CONSISTS PRIMARILY OF CONVENTIONAL WOOD FRAMING WITH CONCRETE FOUNDATIONS.
- CHECK ALL DIMENSIONS PRIOR TO THE START OF WORK AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK WINDOW AND DOOR REPLACEMENTS:
- 1.1. WHERE NEW WINDOWS AND DOORS ARE INTENDED TO BE REPLACEMENTS OF EXISTING, REUSING 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. EXISTING WINDOW AND DOOR SIZES SHOWN ON 1.2. DRAWINGS ARE APPROXIMATE. ALLOW A MINIMAL TOLERANCE OF 38mm (1-1/2") FOR OPENING SIZES AS SHOWN IN THE DRAWINGS.
- PROTECT ALL STRUCTURES, ELEMENTS, AND ADJACENT AREAS FROM DAMAGE AND DUST DURING ENTIRE COURSE OF WORK.
- 3. SAFEGUARD ALL EXISTING STRUCTURES AFFECTED BY THIS CONTRACT.
- PROVIDE ALL NECESSARY BRACING SYSTEMS OF BUILDING ELEMENTS DURING CONSTRUCTION.

#### SITE & ENVIRONMENTAL PROTECTION NOTES:

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.

#### BUILDING CODE & FIRE SAFETY NOTES:

AS INDICATED ON DRAWINGS.

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO BUILDING CODE, REGULATIONS AND LOCAL **AUTHORITIES.**
- 2. OBTAIN THE BUILDING AND OCCUPANCY PERMITS AND ARRANGE ALL INSPECTIONS
- REFER TO OBC MATRIX FOR FURTHER INFORMATION.
- PROPOSED OVERALL BUILDING AREA IS AS INDICATED. 5. OCCUPANCY(S) INCLUDE: GROUP C, RESIDENTIAL (WOMEN'S
- SHELTER). EXISTING BUILDING IS A TWO STOREY RESIDENCE WITH
- BASEMENT. ALL PENETRATIONS THRU REQUIRED FIRE SEPARATIONS SHALL BE FIRE STOPPED AND OR FIRE CAULKED AS REQUIRED BY CODE TO MAINTAIN THE FIRE SEPARATIONS

#### FIELD ENGINEERING:

SUPPLY AND COORDINATE STRUCTURAL ENGINEERING FOR ALL MAJOR DEMOLITION ACTIVITIES. SUBMIT SEALED PLANS FOR DEMOLITION IN ACCORDANCE WITH AUTHORIZED HEALTH AND SAFETY STANDARDS.

#### SURVEY INFORMATION:

 NO OFFICIAL SURVEY WAS MADE AVAILABLE. SURVEY INFORMATION IS ESTIMATED FROM OWNER PROVIDED PLANS CREATED BY COOLEARTH ARCHITECTURE.

#### SOILS & GEOTECHNICAL INFO:

- LOCATE AND PROTECT UTILITIES (CALL BEFORE DIGGING).
- 2. PRESERVE ACTIVE UTILITIES TRAVERSING SITE IN OPERATING CONDITION.
- NOTIFY AND OBTAIN APPROVAL OF UTILITY COMPANIES BEFORE STARTING DEMOLITION.
- 4. UNLESS OTHERWISE INDICATED, ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR BEDROCK.
- SOIL BEARING CAPACITY HAS BEEN ASSUMED TO BE STABLE (100 KPA).
- CONTRACTOR SHALL PERFORM GEOTECHNICAL REVIEW AND TESTING TO CONFIRM SOIL BEARING PRESSURE PRIOR TO CONSTRUCTION OF FOOTINGS. PROMPTLY REPORT ANY ADVERSE FINDINGS.
- SUBMIT GEOTECHNICAL REVIEW REPORT AND TESTING TO OWNER AND CONSULTANT.

#### HAZARDOUS MATERIALS:

REFER TO THE RELATED HAZARDOUS MATERIALS REPORT. REPORT ALL SUSPICIOUS MATERIALS TO THE OWNER & CONSULTANT UPON AWARENESS.

#### TYPICAL ASSEMBLY AND PARTITION NOTES

- REFER TO THE TYPICAL ASSEMBLY SCHEDULE FOR TYPICAL PARTITIONS, WALLS, FLOOR AND ROOF ASSEMBLIES.
- 2. ALL PARTITIONS TO BE CONSTRUCTED AS TYPE P1
- PARTITION UNLESS OTHERWISE INDICATED.
- ALL FURRING LOCATIONS MAY NOT BE LIMITED TO THOSE TAGGED ON THE FLOOR PLANS. ALL FURRING TO BE CONSTRUCTED AS TYPE F1 FURRING UNLESS OTHERWISE INDICATED.
- 4. WALLS DIRECTLY ABOVE AND BELOW DOOR FRAMES AND SCREENS SHALL BE CONSTRUCTED AS PER THE ADJACENT ASSEMBLIES.
- INSTALL IMPACT RESISTANT DRYWALL IN AREAS INDICATED. INSTALL WATER AND MOLD RESISTANT MATERIALS FOR PARTITIONS AND CEILINGS IN AREAS OF HIGH HUMIDITY

SUCH AS WASHROOMS, LAUNDRY AND JANITOR CLOSETS.

- INSTALL CEMENT BOARD FOR ALL AREAS REQUIRING WALL
- 8. ALL EXPOSED EDGES OF GWB TO BE FINISHED/ TRIMMED WITH J-MOLD.
- ALL FIRE RATED AND SOUND RATED PARTITIONS SHALL BE CONSTRUCTED TO THE UNDERSIDE OF THE EXISTING STRUCTURE ABOVE. SEAL ALONG ALL FLOOR & CEILING JOINTS WHERE A FIRE RATING OR SOUND RATING IS INDICATED.
- 19. FIRE STOPPING. SUBMIT ULC APPROVED MANUFACTURERS DETAILS / SPECIFICATIONS FOR REQUIRED FIRE STOPPING SOLUTIONS. ACCEPTABLE PROVIDER: 'HILTI' OR APPROVED
- 20. ALL PARTITIONS THAT EXTEND TO UNDERSIDE OF STRUCTURAL ELEMENT / DECKING SHALL HAVE A DEFLECTION TRACK AT TOP OF PARTITION TO U/S OF STRUCTURAL ELEMENT / DECKING.
- 21. ALL PENETRATIONS THROUGH RATED AND NON-RATED FIRE SEPARATIONS ARE TO BE COMPLETELY SEALED / FIRE STOPPED TO PREVENT THE PASSAGE OF SMOKE OR FLAME COORDINATE WITH MECHANICAL / ELECTRICAL DRAWINGS 22. ALL SOUND ATTENUATION PARTITIONS:
- 22.1. INSTALL ACOUSTICAL SEALANT BETWEEN TOP AND BOTTOM OF PARTITIONS AND DECKING EACH SIDE OF WALL AT JUNCTION OF FLOOR SLAB OR STRUCTURE ABOVE.
- 22.2. INSTALL ACOUSTICAL SEALANT AROUND ALL WALL PENETRATIONS INCLUDING BUT NOT LIMITED TO CUT-OUTS FOR ELECTRICAL BOXES, DUCTS, AND MISC. STRUCTURE
- ALL HOLLOW METAL FRAMES TO BE INSTALLED IN ACOUSTICALLY RATED PARTITIONS SHALL BE FILLED WITH ACOUSTIC BATT INSULATION AS SPECIFIED
- 22. UNLESS OTHERWISE NOTED, ALL NON-RATED AND NON-SOUND RATED PARTITIONS SHALL EXTEND MIN. 6" BEYOND THE TOP OF ADJACENT CEILING.
- WHERE VARYING PARTITION TYPES OCCUR ALONG A CONTINUOUS FRAMED PARTITION DUE TO FIRE PROTECTION, CONTINUE THE GWB TYPE 'X' ALONG ENTIRE LENGTH OF WALL TO AVOID SURFACE VARIATIONS. 24. PROVIDE SOLID BLOCKING IN WALLS WHERE REQUIRED FOR ALL WALL MOUNTED ACCESSORIES, INCLUDING BUT NOT
- LIMITED TO EQUIPMENT, HANDRAILS, FIXTURES AND CASEWORK. 12. PROVIDE GASKET SEAL MATERIAL AT U/S OF ALL BOTTOM STUD TRACKS WHEN THE TRACK IS ON A CONCRETE FLOOR / SLAB / FOUNDATION WALL. THIS INCLUDES EXTERIOR WALL

#### PARTITION TYPE SCHEDULE

NOTE: GRAPHIC SECTIONS INDICATED

UNLESS OTHERWISE NOTED

4 1 1

FRAMING.

#### I/2" GWB

- 4" (3-1/2") WOOD STUDS @ 16" O.C.
- MANAN S (MANANAMANA) V (MANANA
- TYPICAL INTERIOR PARTITION • 1/2" GMB EACH SIDE
- 4" (3-1/2") WOOD STUDS @ 16" O.C.
- TYPICAL INTERIOR PLUMBING PARTITION



TYPICAL IH FR INTERIOR PARTITION • 5/8" TYPE 'X' GWB EACH SIDE • 4" (3-1/2") WOOD STUDS @ 16" O.C.

• 5/8" TYPE 'X' GWB EACH SIDE

#### ONTARIO BUILDING CODE MATRIX

Name of Practice: Bertrand Wheeler Architecture Inc 528 Cassells Street North Bay, ON P1B 3Z7

3A Beechwood Drive, Parry Sound, Ontario P2A 1J2 Arch. Project No. 2356

#### **Building Owner** District of Parry Sound Social Services Administration Board (DPSSSAB)

Name of Project:

Date: February	2024						
	Pa	Ontario Buildino art 11 – Renovat					Building Code Reference
11.00	Building Code Version:	O. Reg. 332/12	Last Amen	dment	O. Reg. 1	91/14	
11.01	Project Type:	Addition Change of use (p Description: Renova	•	sidential Wom	tion and ren		[A] 1.1.2.
11.02	Major Occupancy Classification:	Occupancy(s) Use Group C Group Ho	me for Women				3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	No Yes  Description: None	)				3.2.2.7.
11.04	Building Area (m2)	Description:  Main Floor (Esprit I)  2nd Floor (Esprit I)  3rd Floor (Esprit U)	/lain Floor)	135.3m2 145.5m2 113.2m2	New* 2 0 0 0	Total  135.3m2  145.5m2  113.2m2	[A] 1.4.1.2.
		1					

11.05 Building Height [A] 1.4.1.2. & Storeys above grade +/- 7.5 (m) Above grade Storeys below grade 11.06 Number of Streets/ 1 street(s 3.2.2.10. & 3.2.5. Firefighter access T.11.2.1.1.B.-N. 11.2.1.1. 11.08 Existing Building Classification (no change of major occupancy T 11.2.1.1A 3 (HI = CI ,not a performance reduction) Construction Index: T 11.2.1.1B to N

5.2.2.1.(2) Post-disaster 11.3.3.1. 11.09 Renovation type: 11.3.3.2. Occupant Load 3.1.17 11.10 Occupant Load (Persons) 4 consult/offices and Offices 0 residential

and Offices

Ry Increase in occupant load

By change of major occupancy

Change of major occupancy: No

OBC 9.10.8.1, Part 11, C147 - Separation of Residential Suites:

30min fire ratings are acceptable for existing floor fire separations.

OBC 9.10.9.14, Part 11, C152 – Separation of Residential Suites:

shall be solid wood doors and frames, with auto closers.

not considered present in the design

**OBC Spatial Separations** 

1 All references are to Division B of the OBC unless preceded by [A] for Division A and [C] for Division C

building subject to material alteration and repair.

No changes from existing.

tesidential suites can be separated by 30min fire ratings. Although there are

GWB finishes are generally acceptable, with smoke seal. Bedroom doors

o separate suites, a smoke seal is proposed around each bedroom. Existing

The building is being used as a single family unit, with no separate or 11.5.1.

adjoining occupancies or tenancies. Separate suites and Public Corridors are

OBC 9.10.10.3 (1): The electrical and mechanical units are not fuel fired. As the equipment is not considered to be a fire hazard, no fire separation is

OBC A1.1.2.7: OBC compliance only applies to extension and parts of

Sewage systems

Extension of combustible

occupancy. No reduction in quantity of washrooms. All unisex washrooms 11.12 | Barrier-free Design: | Yes | Explanation: Barrier free design to be improved on main floor | 11.3.3.2.(2) only as per existing conditions. Upper and pasement floor levels of residence not upgraded as performance levels are not affected in this 11.13 Reduction in Structural

Performance Level

11.15 Compliance

11.16 Notes:

Proposed:

Sewage-systems Extension of combustible construction 11.14 Compensating Yes No reduction in Performance Level Construction Structural Increase in occupant load: No Yes Occupant load not increased.

BELOW ARE IN PLAN.

ALL PARTITIONS ARE CONSTRUCTED TO THE UNDERSIDE OF STRUCTURE.

# TYPICAL INTERIOR FURRING

TO U/S OF FINISHED CEILING

• 1/2" GWB EACH SIDE • 6" (5 1/2") WOOD STUDS @ 16" O.C.

TYPICAL I'H FR INTERIOR PLUMBING PARTITION 6" (5 1/2") WOOD STUDS @ 16" O.C.

NO ASSOCY OF ARCHITECTS, MARCUS B. WHEELER LICENCE 5768

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11.4.2.1.

11.4.2.2.

11.4.2.3.

11.4.2.4.

11.4.2.5.

11.4.2.6.

11.4.3.1,

11.4.3.2,

11.4.3.3,

11.4.3.7.

11.5.1.

Yes Fire alarm and early

Yes Plumbing system will be

See mech design.

added. See electrical design.

nodified but not overloaded.

ERAL NO GENE checked by: MBW MBW

AS NOTED 2356 date plotted: Mar 08, 2024

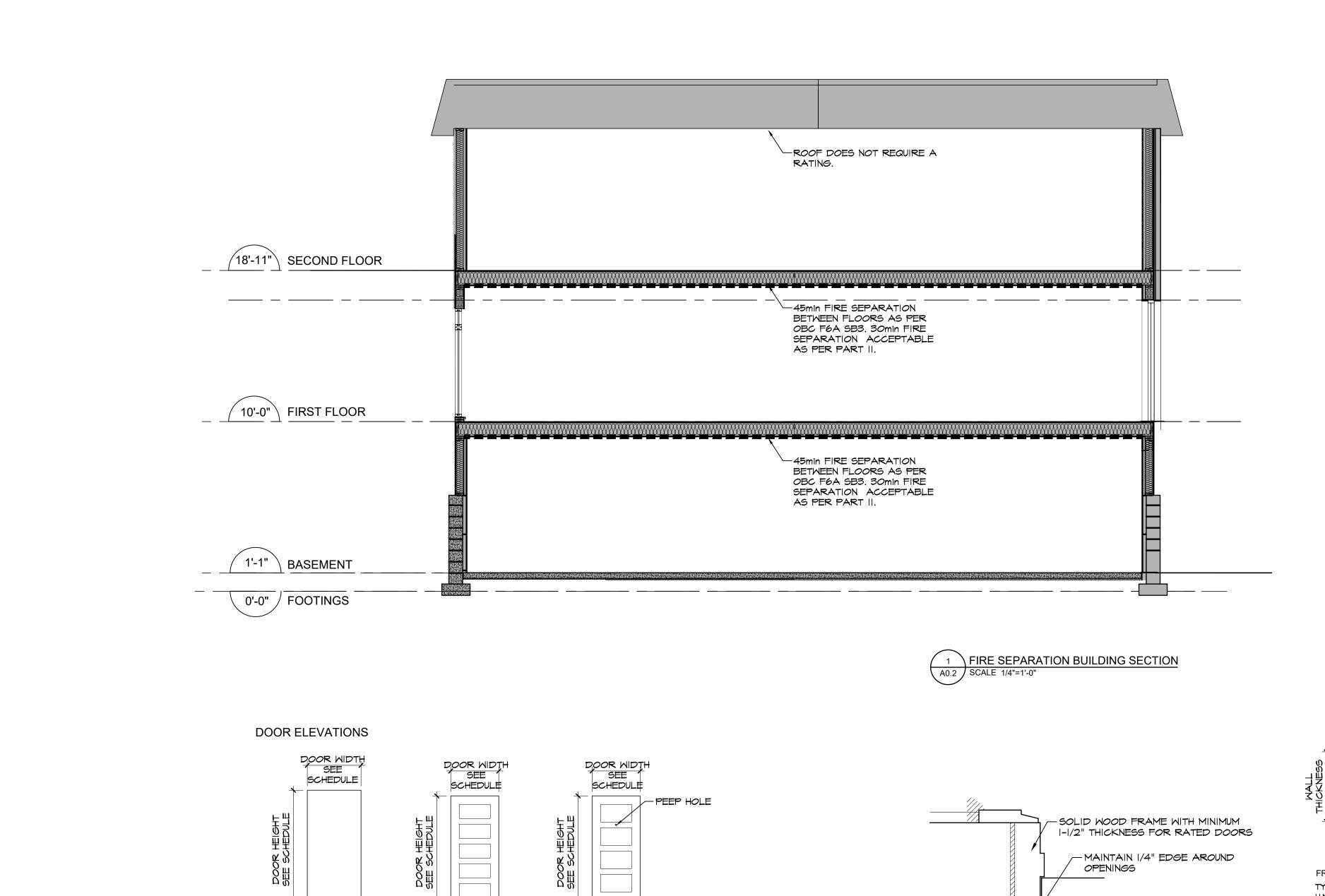
revision date: Mar 08, 2024

dwg no:

**AO.1** 

project no:

Drawing name: H:\2023\2356 Esprit Renovation (DPSSSAB)\2.5.1 Design & Drawings\2356 FLOOR PLAN.dwg



 $\bigcirc$ 

EXTERIOR DOOR

3

CONTEMPORARY

CONTEMPORARY

\_5-1/2"H CONTEMPORARY

PAINTED MDF

ARCHITRAVE

PAINTED MDF

PAINTED MDF

BASEBOARD C/W

1-1/2"H SHOE MOULD

BASEBOARD

 $\bigcirc$ B

FRAME WIDTH 2" SEE 2"

\$CHEDULE!

2

A

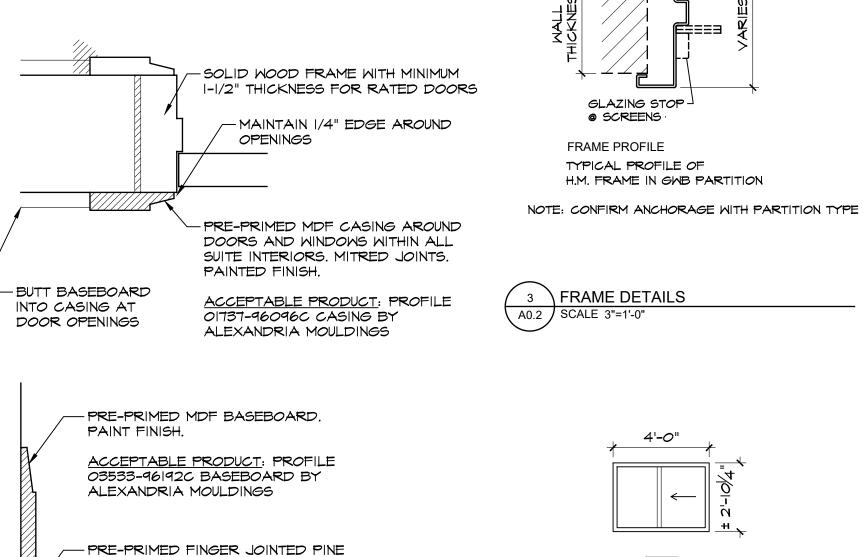
WIDTH 2" SEE 2" SCHEDULE

1

DOOR AND FRAME ELEVATIONS

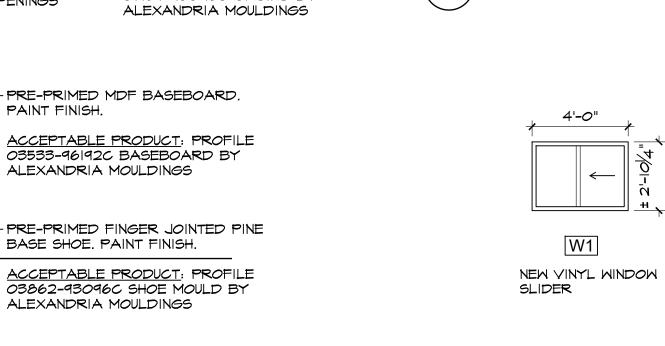
FRAME ELEVATIONS

+ 14



BASE SHOE. PAINT FINISH.

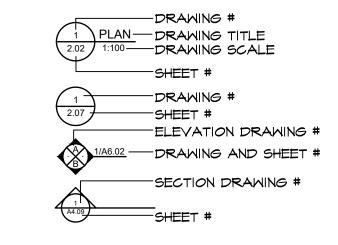
ALEXANDRIA MOULDINGS



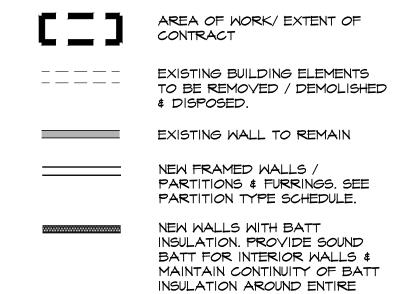
4 WINDOW ELEVATION

A0.2 | SCALE 1/4"=1'-0"

#### GENERAL SYMBOL LEGEND



#### LEGEND: DEMOLITION / FLOOR PLAN





ROOM WHERE INDICATED.

EXISTING DOOR AND FRAME TO BE REMOVED & DISPOSED.



D###	NEW DOOR & FRAME & DOO IDENTIFICATION (SEE DOOR SCHEDULE & DOOR/FRAME ELEVATIONS)
	DOON RAME LLEVATIONS

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





ES	ELECTRONIC	SECURIT
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#### **CEILING PLAN LEGEND:**

	ACT-I - 2'-0"X2'-0" ACOUSTIC TILE CEILING SYSTEM (ACT).
4	7

- I/2" GMB W/ PAINTED FINIS
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LIGHTING FIXTURE - TYPE & SIZE VARIES REFER TO ELECTRICAL DRAWINGS

0	DOWN LIGHT FIXTURE - TYPE & SIZE VARIES REFER TO ELECTRICAL DRAWINGS

	WALL MOUNTED LIGHT FIXTURE
Ŗ	- TYPE # SIZE VARIES REFER TO ELECTRICAL DRAWINGS
	10 ELECTRICAL DRAMINGS

WALL MOUNTED LIGHTING FIXTU
- TYPE & SIZE VARIES REFER T
ELECTRICAL DRAWINGS

			3	2	1	
			ISSUED FOR TENDER & PERMIT	ISSUED FOR PRE-TENDER REVIEW	ISSUED FOR PRE-TENDER REVIEW	
			MAR 08/2024	02/28/2024	02/09/2024	



rchitecture Wheeler hay, on P1B 3Z7 tel: rand

**Bertr** 

checked by: drawn by: KD/JA MBW project no: scale: AS NOTED 2356 date plotted: Mar 08, 2024 revision date:

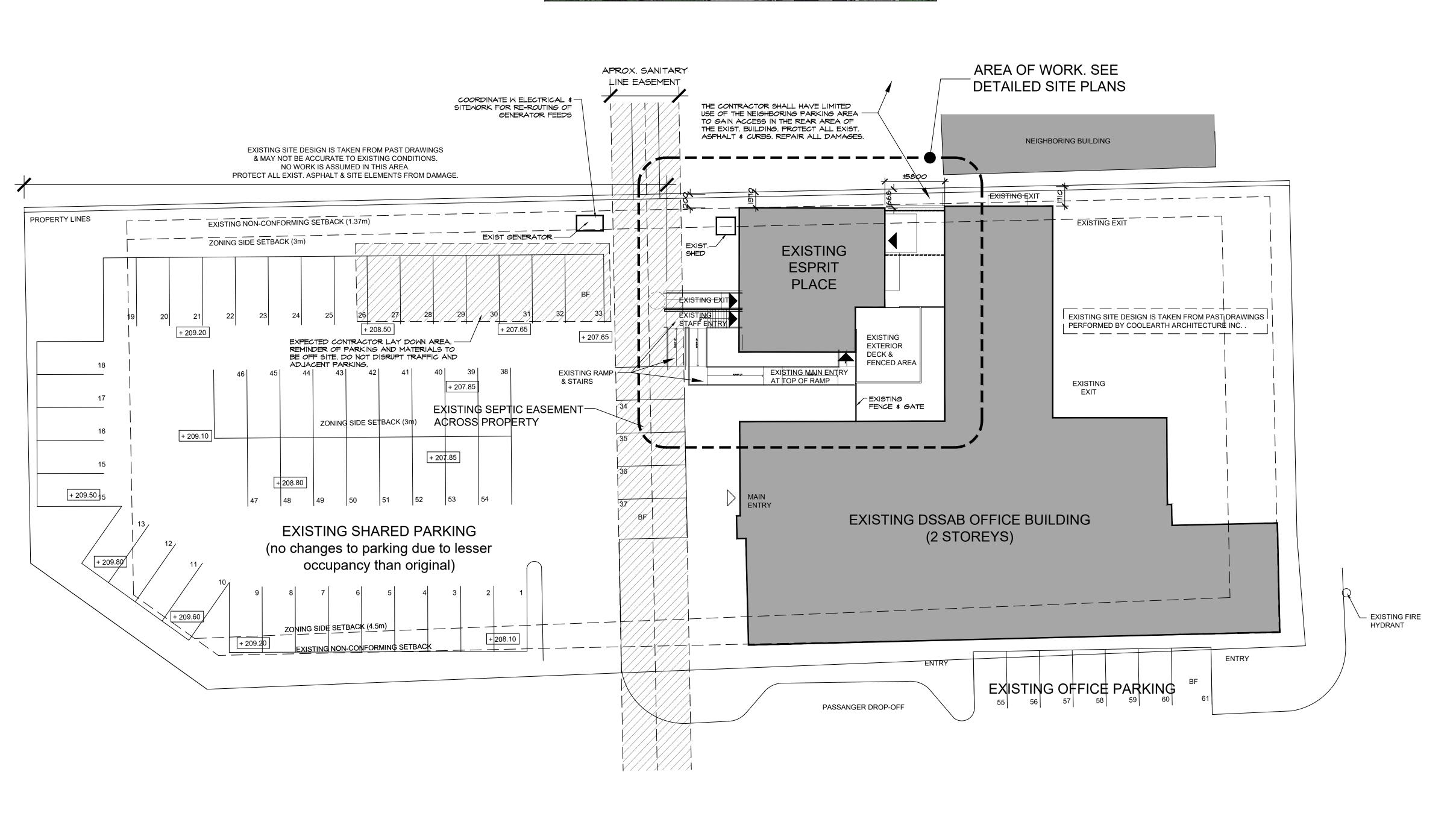
Mar 08, 2024 dwg no:

**AO.2** 



#### **ZONING NOTES**:

- 1. CURRENT ZONING IS C3 (HIGHWAY COMMERCIAL ZONE).
- 2. ALLOWED USE FOR: 2.1. BUSINESS & PROFESSIONAL OFFICES.
- 2.2. ALSO EXISTING USE FOR SHELTER, WHICH RESEMBLES ALLOWABLE USES SUCH AS CRISIS CENTRE, LODGING HOME AND HALFWAY HOUSE.
- 3. MINIMUM LOT AREA: 800m<sup>2</sup> 4. MINIMUM LOT FRONTAGE: 20m
- 5. MINIMUM LOT DEPTH: 30m
- 6.1. INTERIOR SIDEYARD SETBACK IS 3m (existing
- nonconforming noted) 6.2. EXTERIOR SIDEYARD SETBACK IS 4.5m.
- 6.3. FRONT YARD SETBACK IS 6m.
- 6.4. REAR YARD SETBACK IS 9m. 7. MAXIMUM HEIGHT: 10.5m
- 8. MAXIMUM LOT COVERAGE IS 50%. ACCESSORY STRUCTURES SHALL NOT SURPASS 10%.
- 9. MAXIMUM GROSS FLOOR AREA: 3,720m<sup>2</sup> 10. PARKING REQUIREMENTS 10.1. FOR OFFICES: 3.5 SPACES PER 100m2 OF GROSS
- LEASABLE AREA 10.2. FOR SHELTER: ESTIMATED TO BE 1 SPACE FOR EVERY 2 BEDS AS PER GROUP HOME, CRISIS CENTRE,
- HALFWAY HOUSE
- 10.3. BARRIER-FREE: 1 BF SPACE PER 30 SPACES 10.4. PARKING SPACES SHALL BE 3m X 6m.







		3	2	1	
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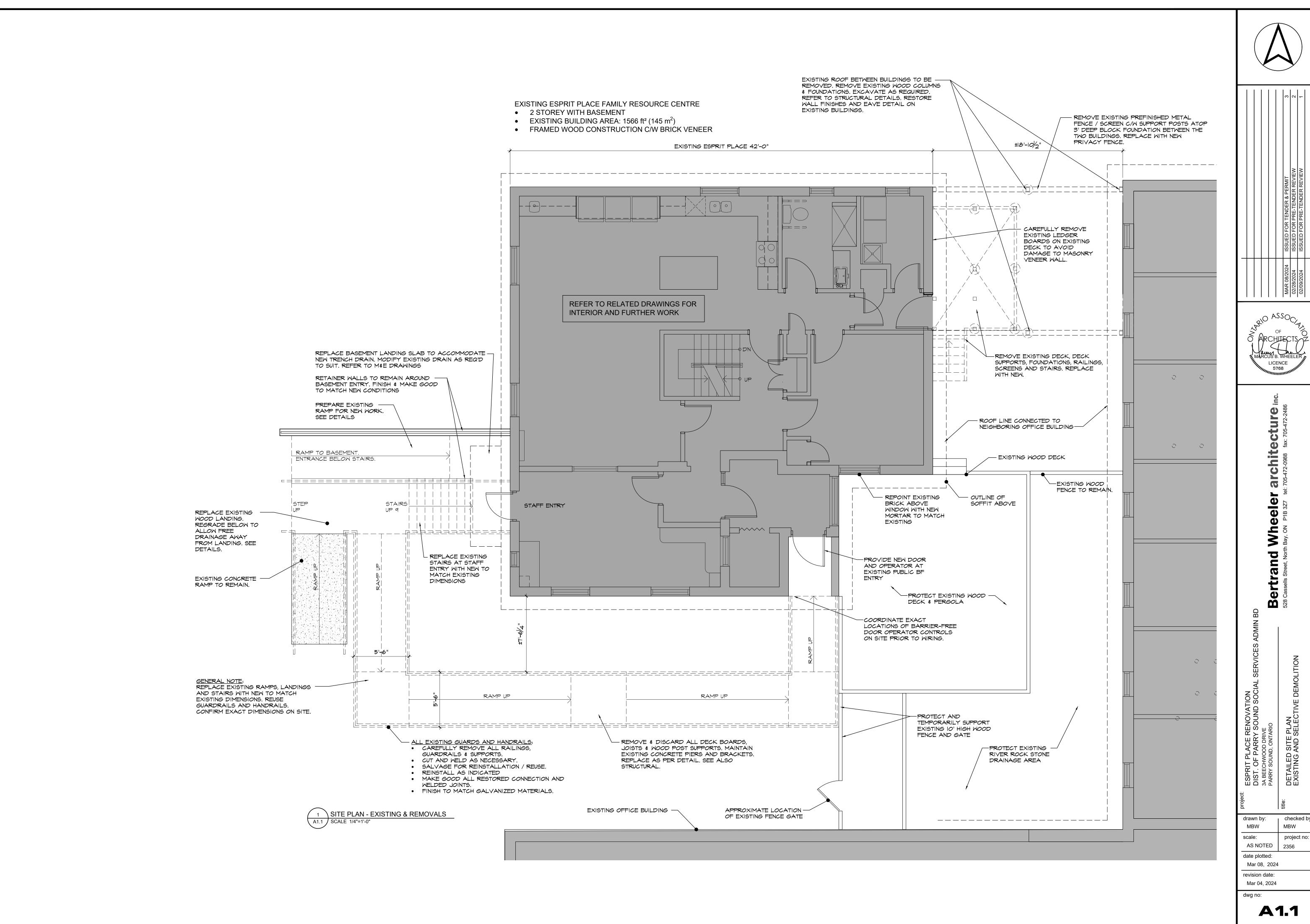
rchitecture Wheeler th Bay, ON P1B 3Z7 tel **Bertrand** 528 Cassells Street, North

OVERALL SITE PLA EXISTING & NEW

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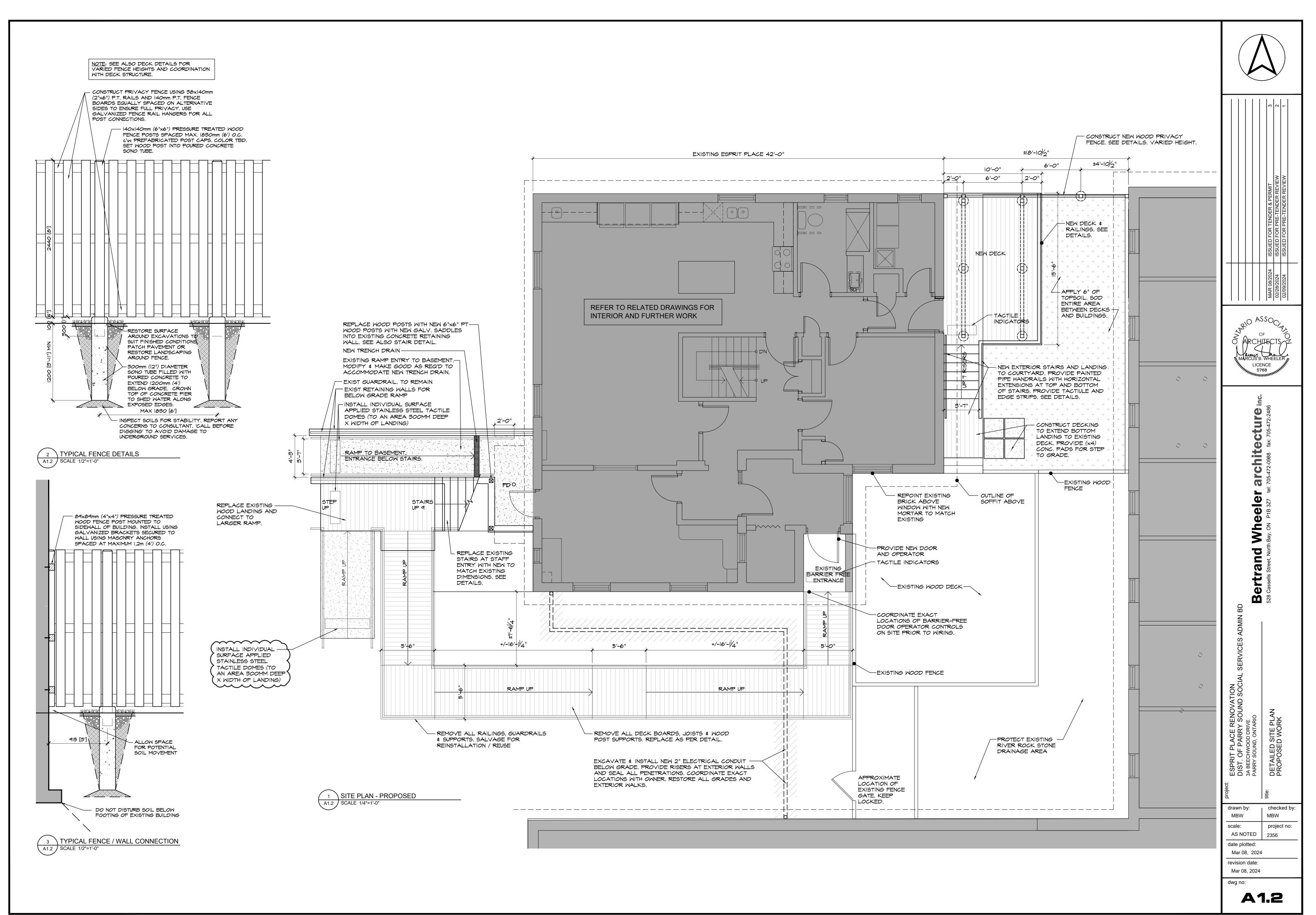


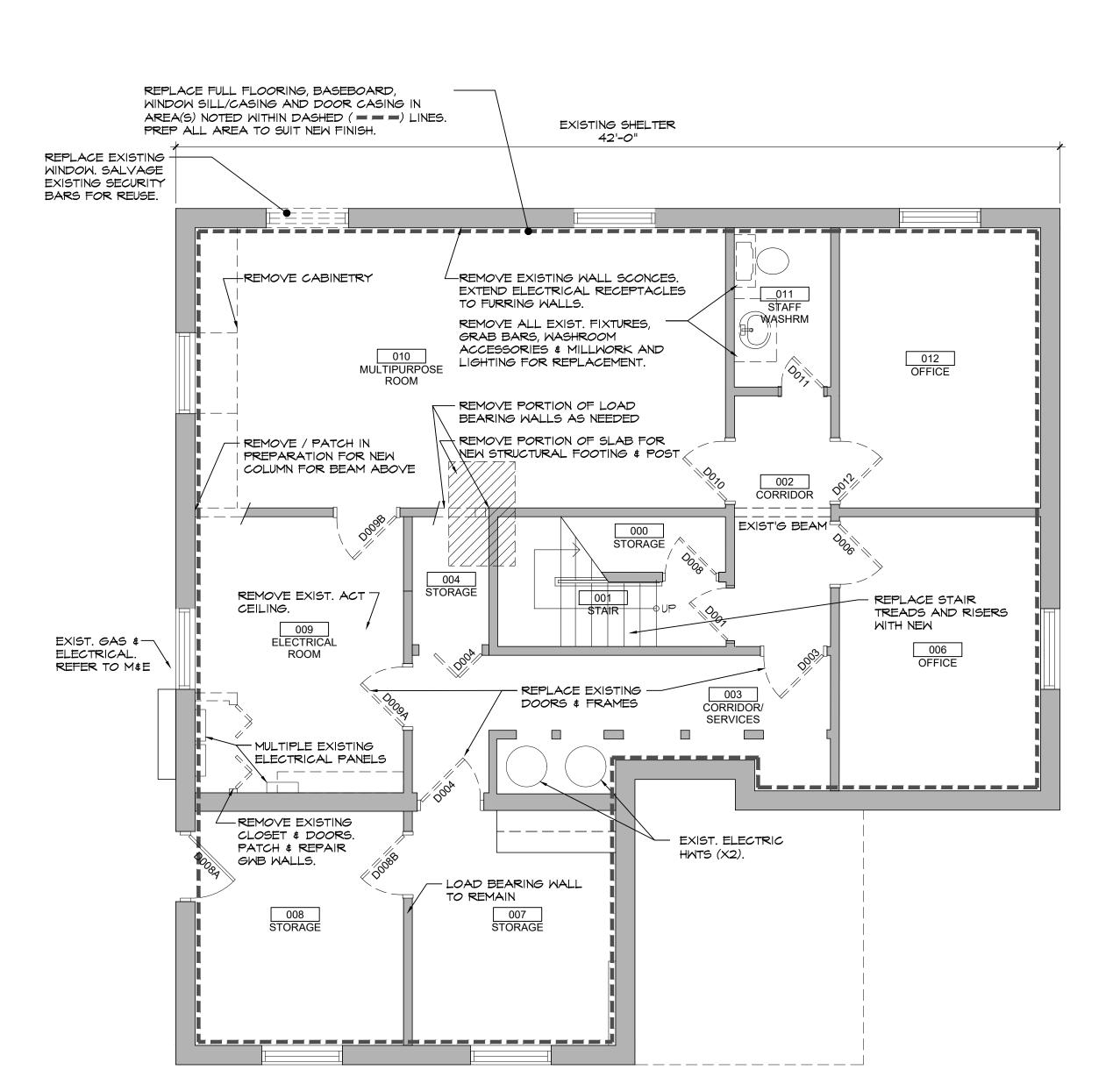
rchitecture Wheeler hay, on P1B 3Z7 tel Bertrand
528 Cassells Street, North

DETAILED SITE EXISTING AND S

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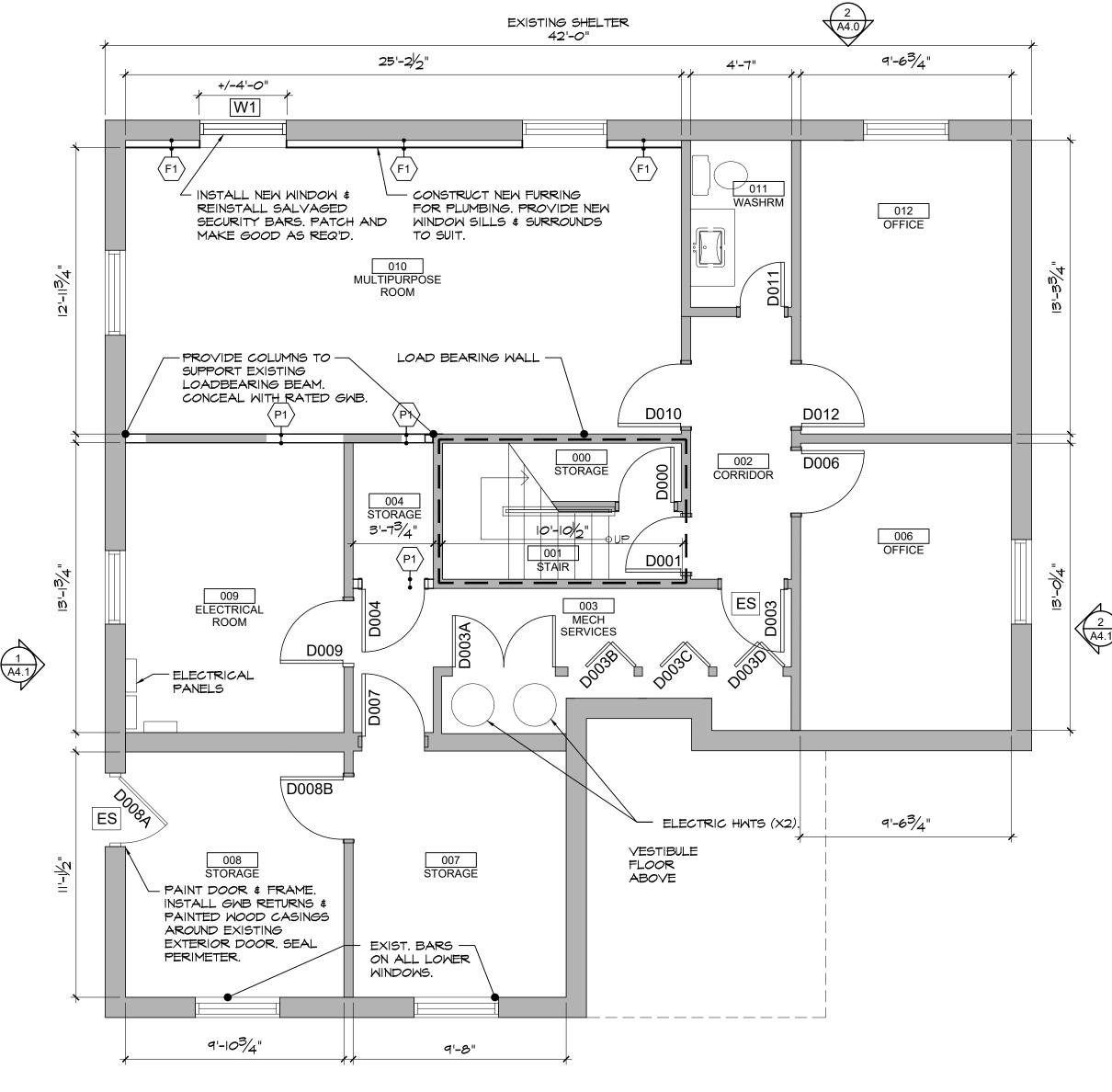




## DEMOLITION NOTES:

- WHERE FLOORING INDICATED TO BE REPLACED, REMOVE & REPLACE ALL EXISTING
- FLOORING, WALL BASE, & TRIMS.
   REMOVE GWB AS REQUIRED TO COMPLETE NEW WORK.
- PATCH AND REPAIR ALL GMB PARTITIONS AND CEILINGS DISTURBED BY NEW MORK.
  ALL GMB AND MOOD TRIMS, BOTH NEW AND EXISTING, TO BE PAINTED.

LOWER LEVEL - DEMOLITION PLAN

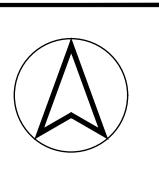


## GENERAL NOTES:

- REFINISH ALL AREAS WHERE MODIFICATIONS ARE NOTED. REINSTALL & MAKE GOOD ALL FRAMING & FINISHES TO SUIT. ASSUME PARTITIONS & CEILINGS TO BE PATCHED & PAINTED TO MAKE GOOD & FINISHED W/ 5/8" TYPE 'X' GWB
- INSTALL RUBBERIZED THRESHOLDS FOR ALL NEW AND EXISTING FLOORING TRANSITIONS.
- RE-INSTALL SALVAGED SECURITY BARS, TYPICAL FOR ALL DISTURBED WINDOWS, INSTALL REMAINING SECURITY BARS ON NEW WINDOW LOCATIONS AS REQ'D
- REPAIR ALL PENETRATIONS TO FLOOR ABOVE. MAINTAIN REQ'D IHR FLOOR FIRE SEPARATION W/ I LAYER TYPE 'X' GWB @ 7'-9"



2 LOWER LEVEL - PROPOSED PLAN



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

ESPRIT PLACE RENOVATION
DIST. OF PARRY SOUND SOCIAL SRVCE:
3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO
LOWER LEVEL

drawn by: checked by:
JA MBW

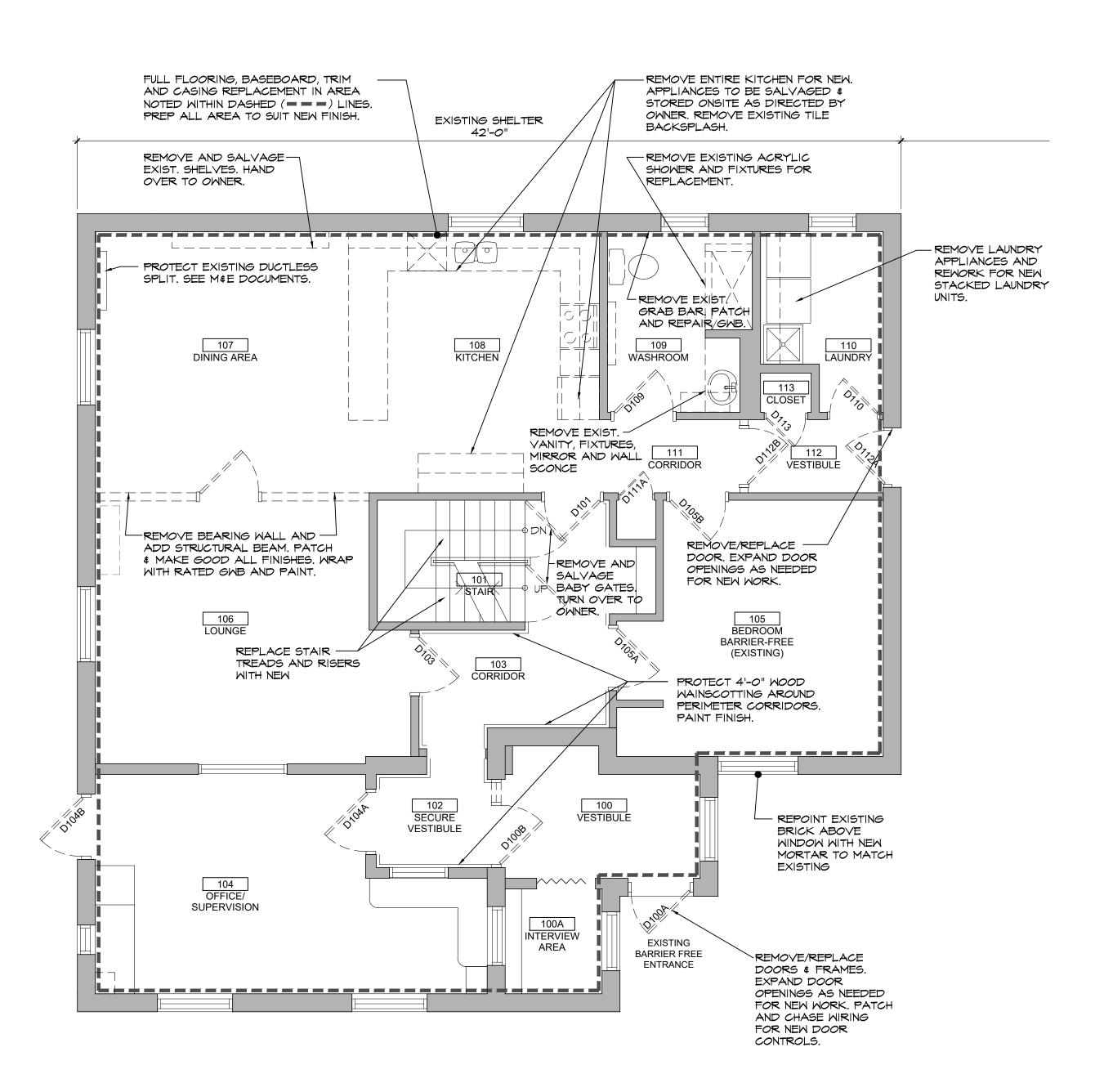
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Mar 08, 2024

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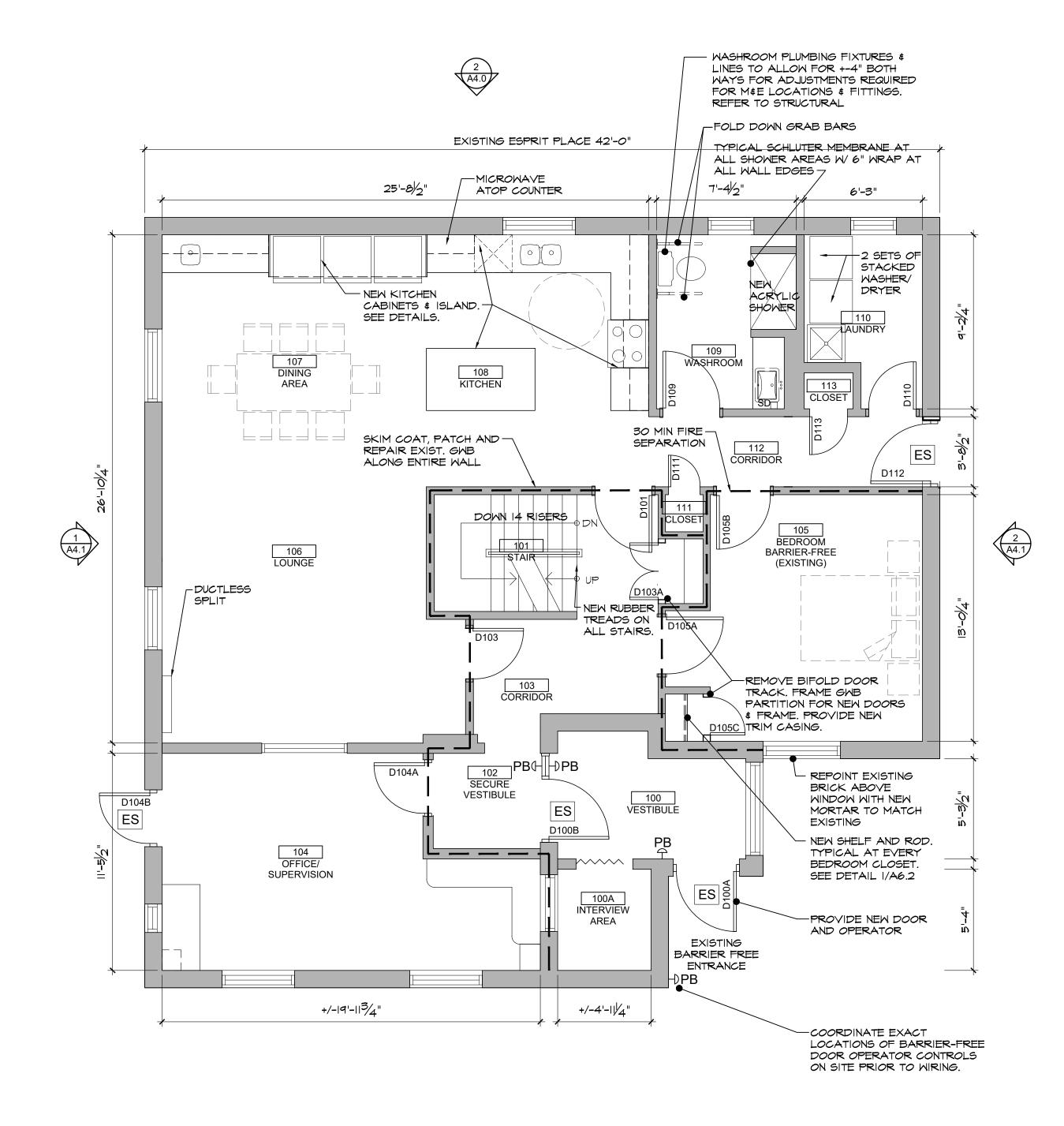
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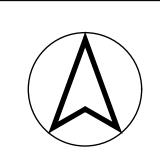
#### <u>DEMOLITION NOTES:</u>

- WHERE FLOORING INDICATED TO BE REPLACED, REMOVE & REPLACE ALL EXISTING
- FLOORING, WALL BASE, & TRIMS. REMOVE GWB AS REQUIRED TO COMPLETE NEW WORK.
- PATCH AND REPAIR ALL GMB PARTITIONS AND CEILINGS DISTURBED BY NEW WORK.
- ALL GWB AND WOOD TRIMS, BOTH NEW AND EXISTING, TO BE PAINTED.





2 MAIN LEVEL - FLOOR PLAN



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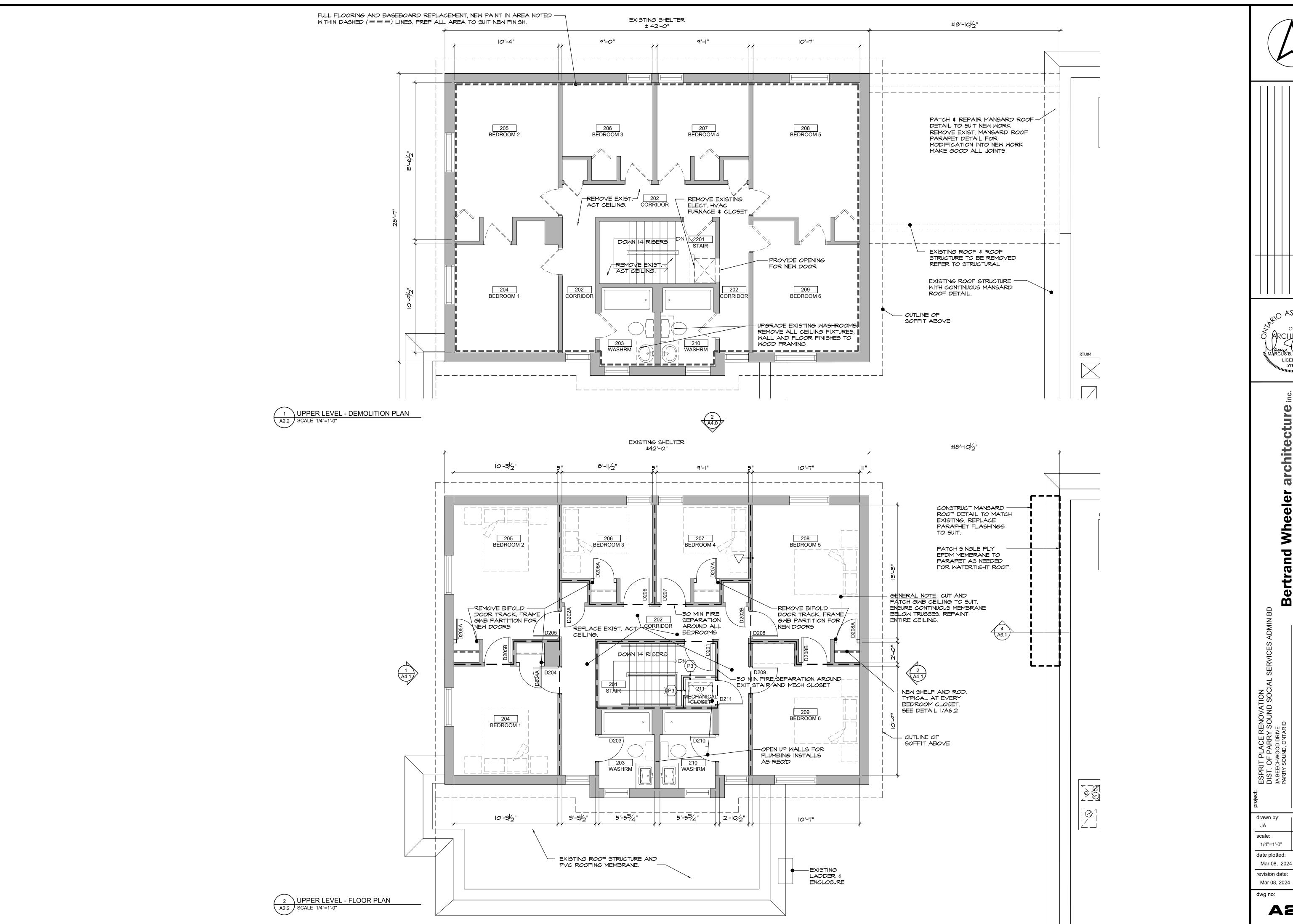
ESPRIT PLACE RENOVATION
DIST. OF PARRY SOUND SOCIA
3A BEECHWOOD DRIVE
PARRY SOLIND ONTARIO

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**A2.1** 





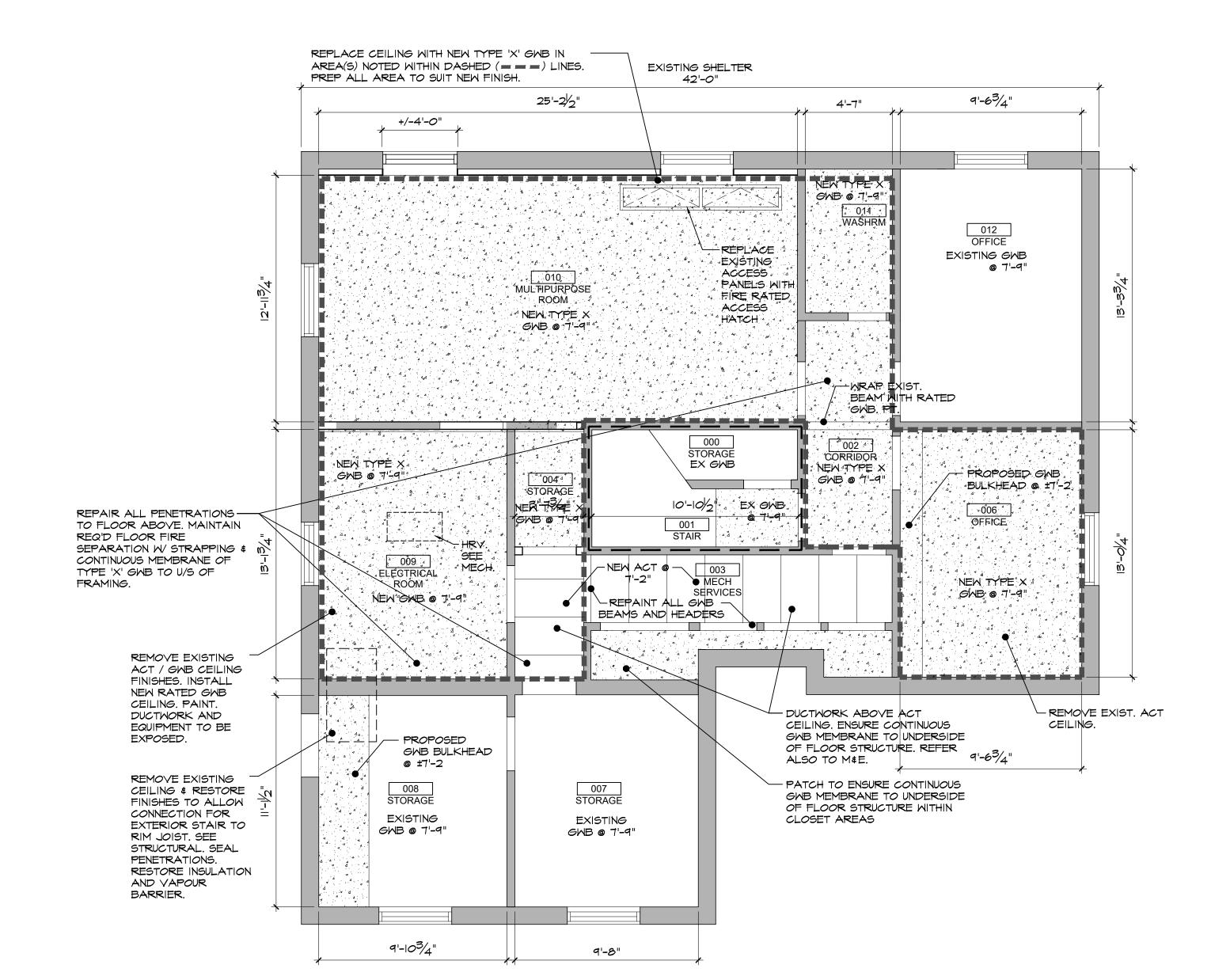


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DIST. OF PARRY SOUND SOCIA
3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO UPPER LEVEL DEMOLITION PL FLOOR PLAN

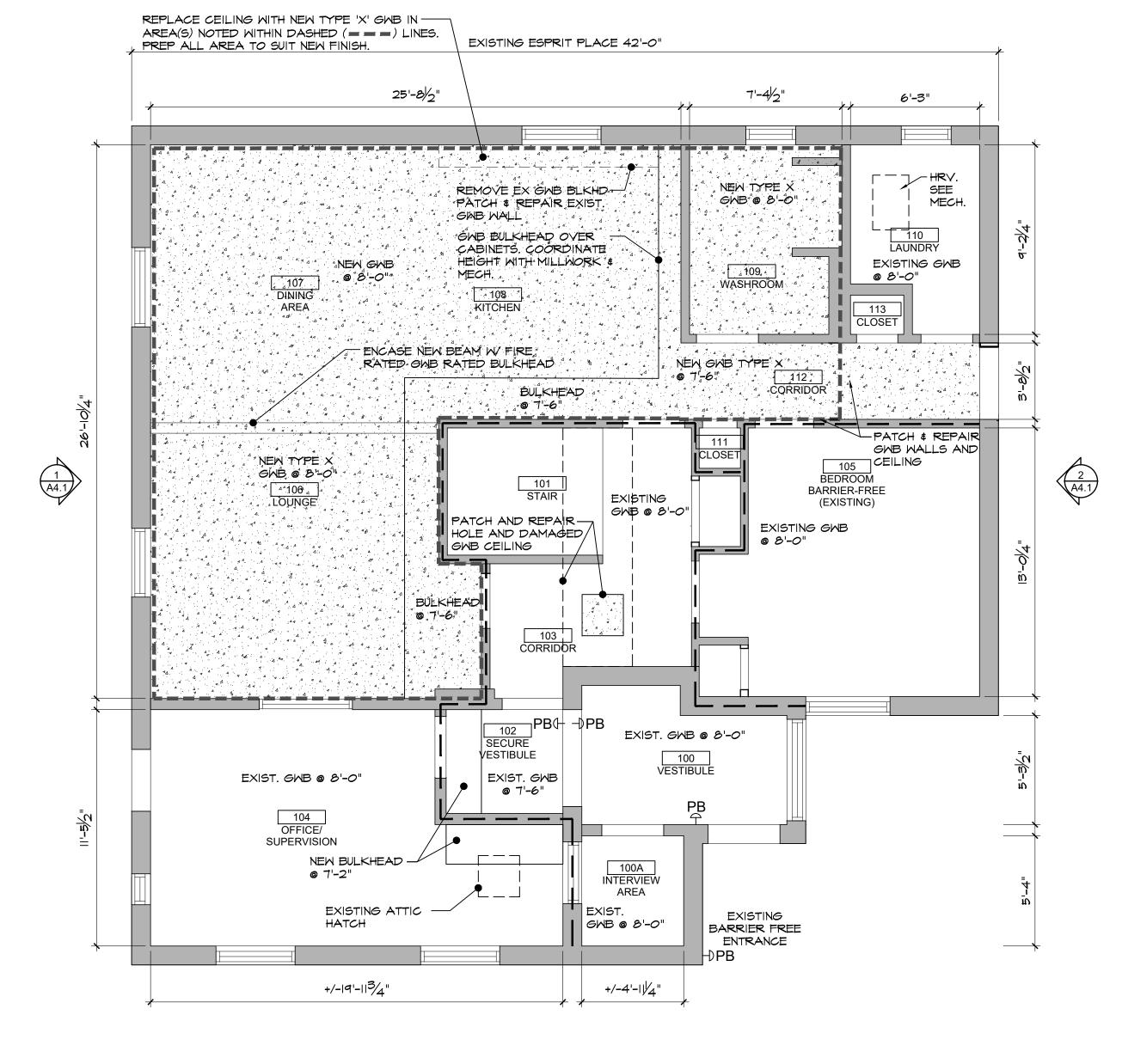
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1 \ LOWER LEVEL - REFLECTED CEILING PLAN A3.1 SCALE 1/4"=1'-0"



2 MAIN LEVEL - REFLECTED CEILING PLAN

A3.1 | SCALE 1/4"=1'-0"

## **REFLECTED CEILING NOTES:**

- 1. ALL CEILING HEIGHTS NOTED ON DRAWINGS ARE FROM TOP OF FLOOR. SEE ROOM FINISH SCHEDULE FOR CEILING
- HEIGHTS, EXCEPT WHEN INDICATED ON DRAWINGS. 2. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL CEILING FIXTURES UNLESS NOTED AND DIMENSIONED ON REFLECTED CEILING PLAN. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- 3. ALL BULKHEAD AND SUSPENDED GWB CEILINGS CONSTRUCTION TO BE 16mm TYPE 'X' GYPSUM WALL BOARD ON RESILIENT CHANNELS @ 406mm O.C. AND BRACED AS REQUIRED. EXTEND FRAMING TO U/S OF EXISTING STRUCTURE, UNLESS NOTED OTHERWISE.
- 4. PROVIDE NEW SUSPENDED GYPSUM WALL BOARD CEILINGS, BULKHEADS AND SUSPENDED ACT CEILINGS, WHERE INDICATED ON DRAWINGS.
- 5. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES. IN AREAS OF HIGH HUMIDITY AND MOISTURE, PROVIDE MOISTURE / MILDEW RESISTANT TYPE GYPSUM
- WALLBOARD. 7. PROVIDE ACCESS PANELS IN GWB CEILINGS AS REQUIRED BY MECHANICAL AND ELECTRICAL TRADES. PROVIDE FIRE RATED ACCESS PANELS WHERE FIRE RATINGS ARE REQUIRED.
- UNLESS OTHERWISE NOTED, DIMENSIONS OF ALL GYPSUM BULKHEADS ABOVE CASEWORK TO MATCH WIDTH AND LENGTH OF UPPER CASEWORK BELOW.



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			ISSUED FOR TENDER & PERMIT	ISSUED FOR PRE-TENDER REVIEW	ISSUED FOR PRE-TENDER REVIEW	
			MAR 08/2024	02/28/2024	02/09/2024	



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LOWER LEVEL - REFLECTED CEILING MAIN LEVEL - REFLECTED CEILING PL

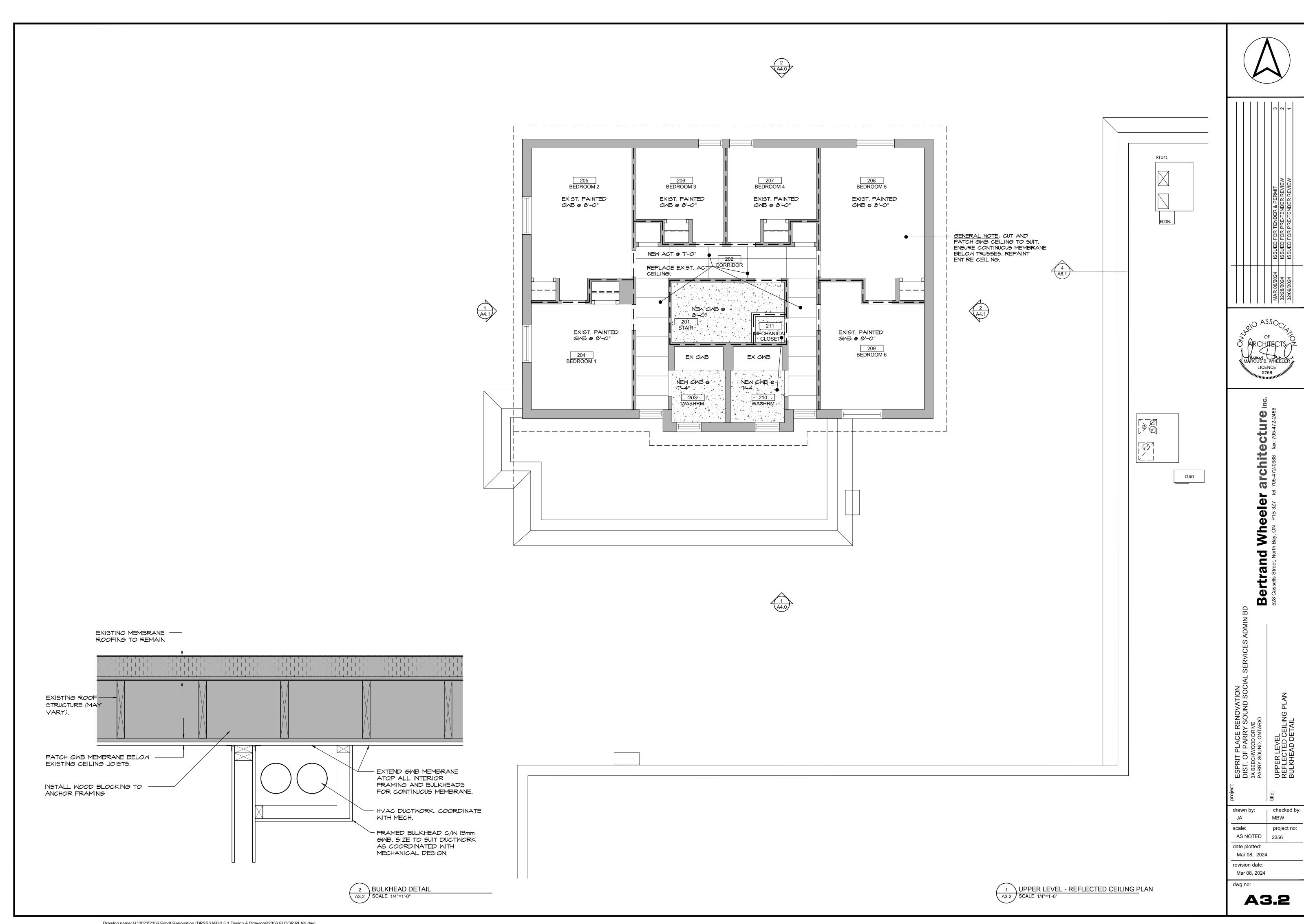
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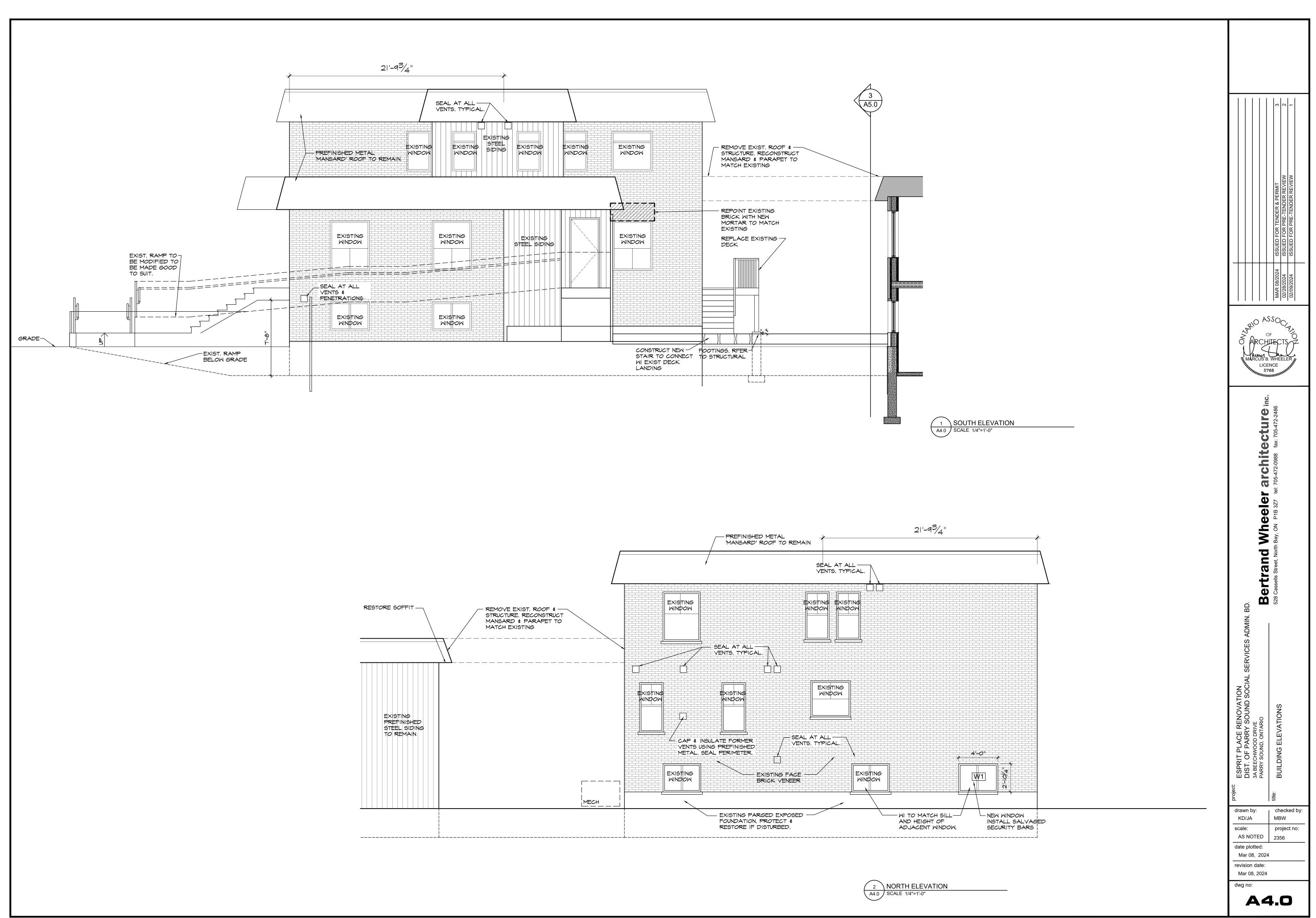
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**A3.1** 

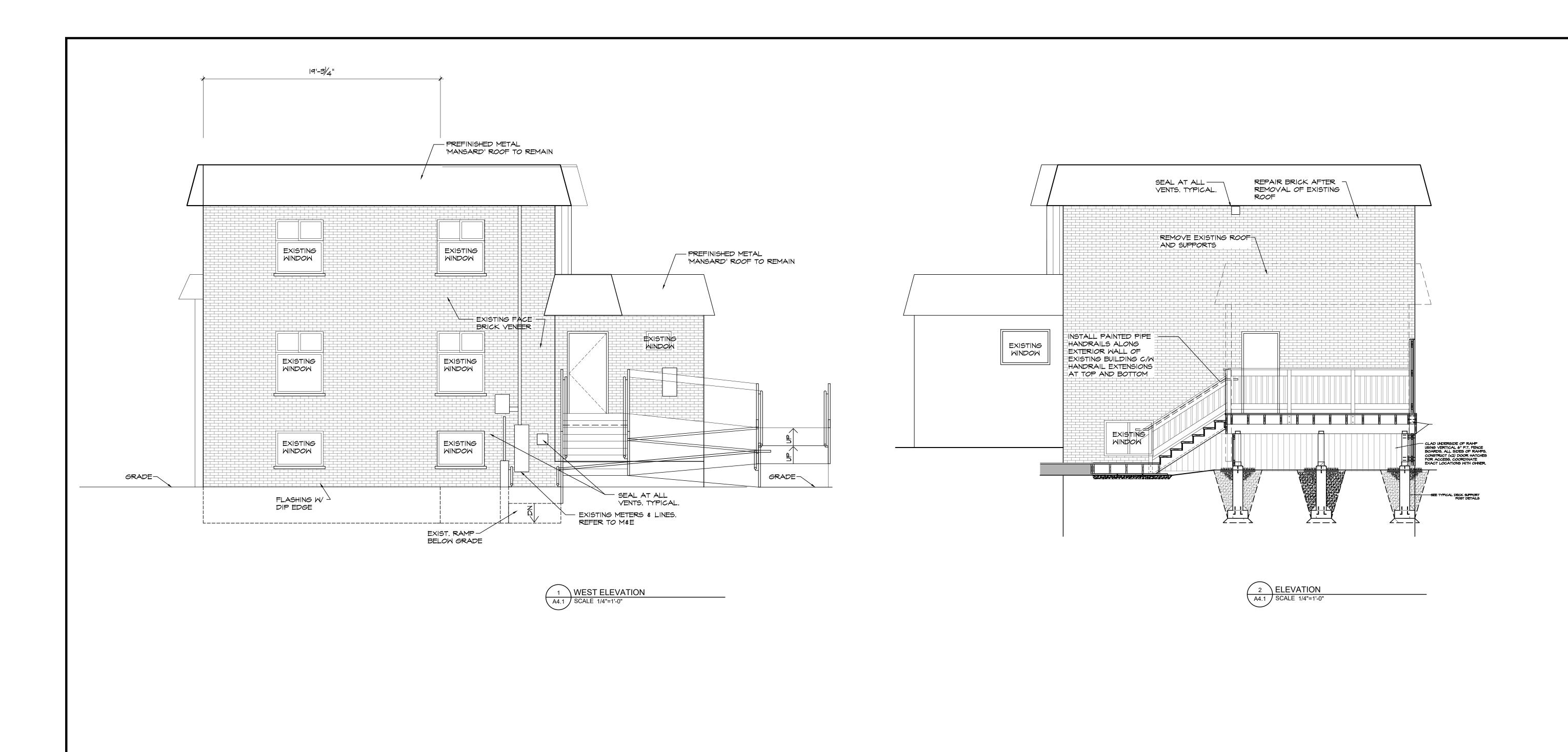
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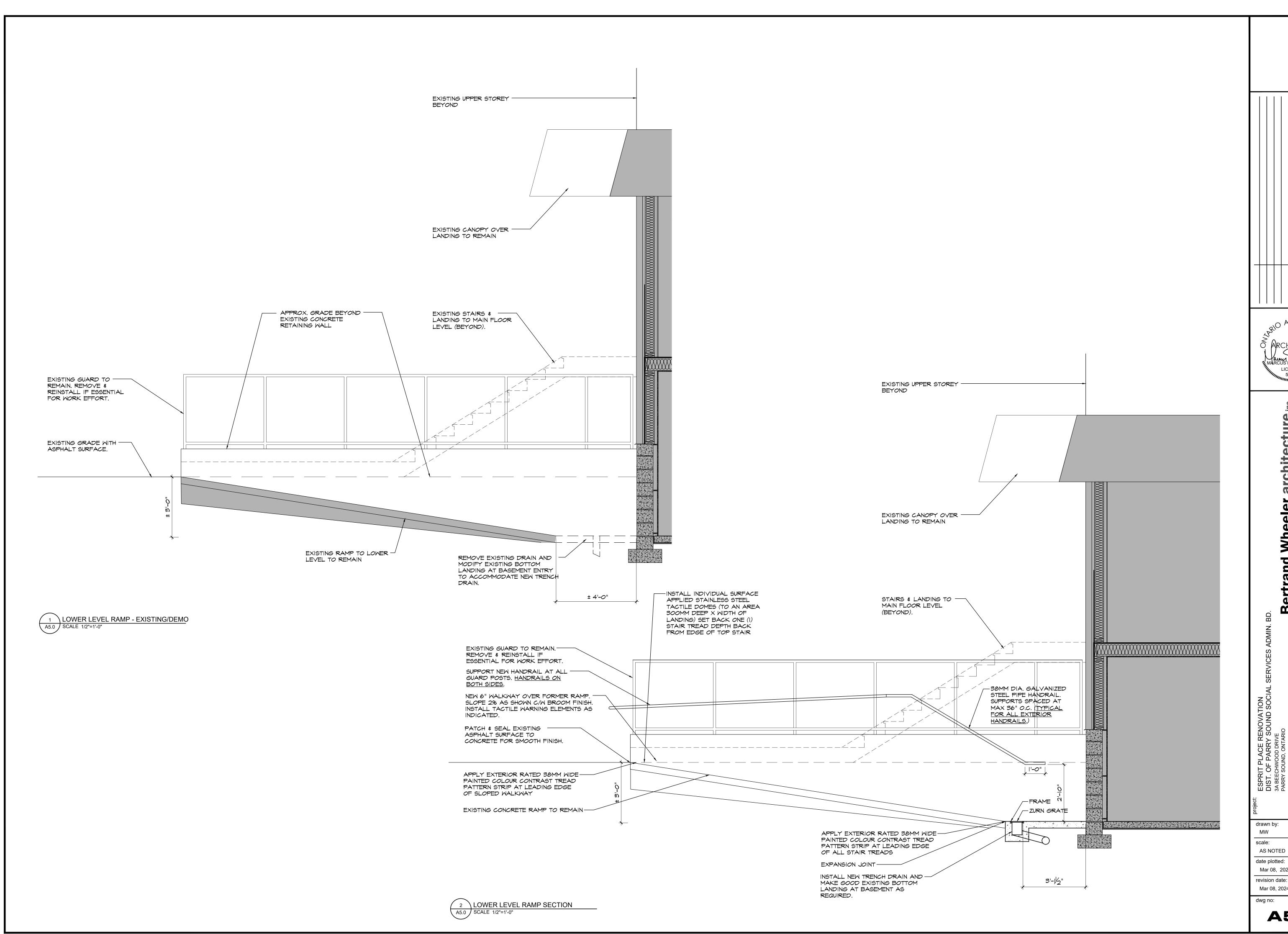


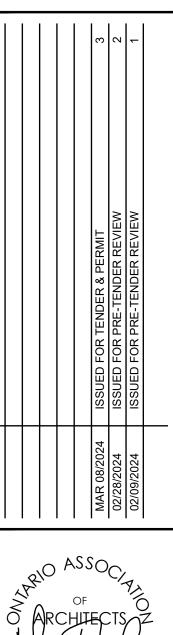
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**A4.1** 







ESPRIT PLACE RENOVATION
DIST. OF PARRY SOUND SOCIAL SERVICES ADMIN. BD.

3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

title:

LOWER LEVEL ACCESS DETAILS

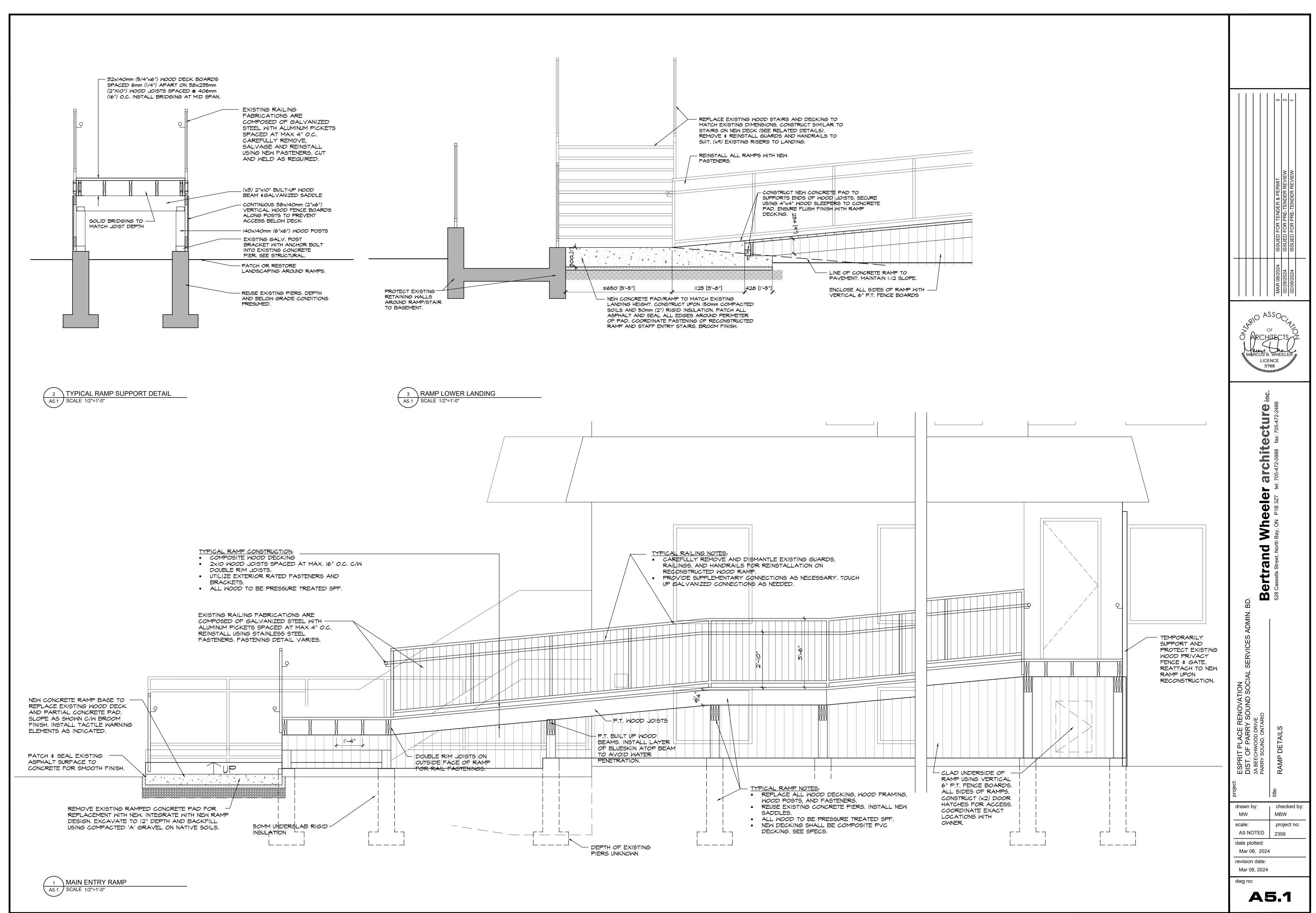
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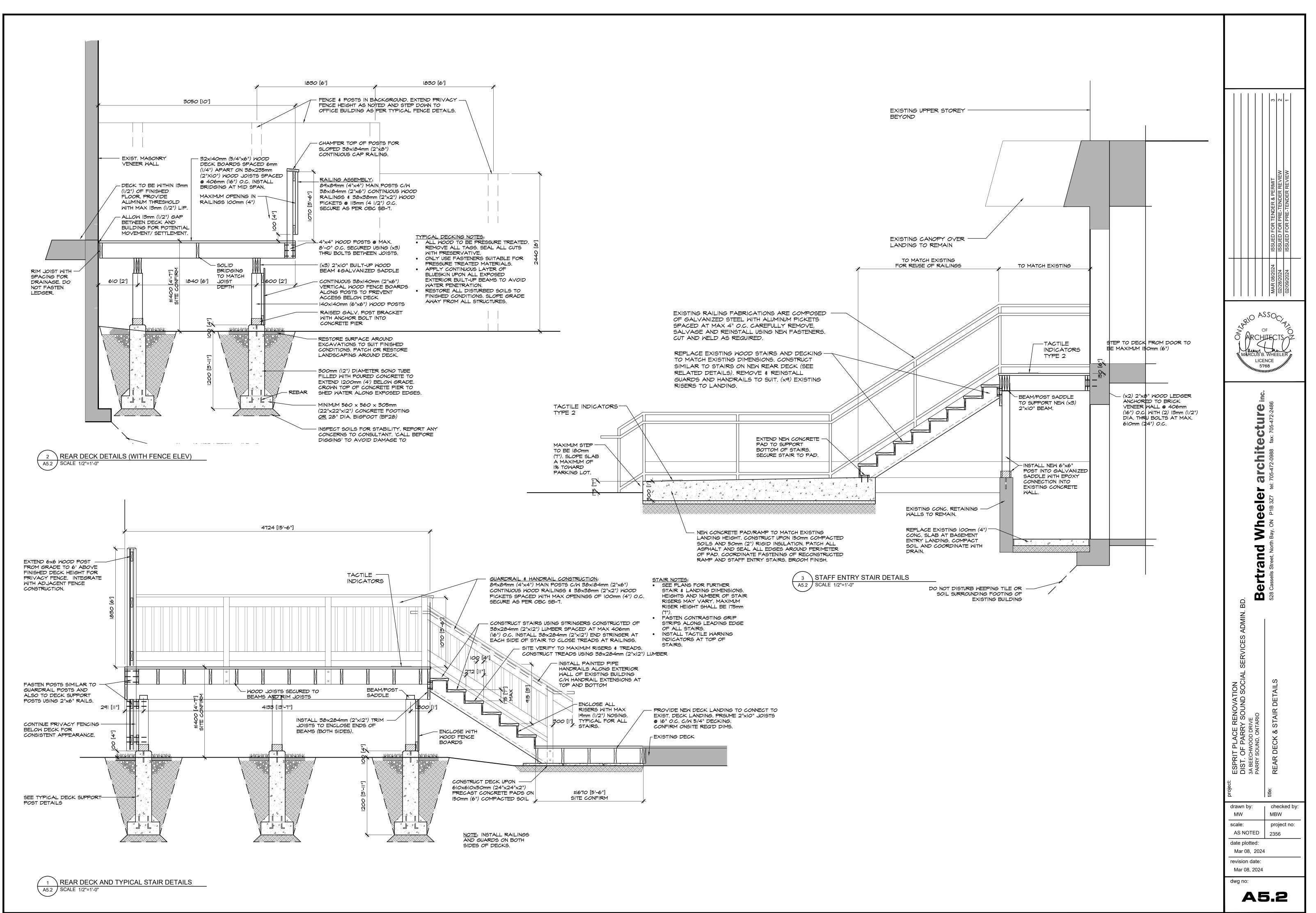
Bertrand Wheeler architecture inc.

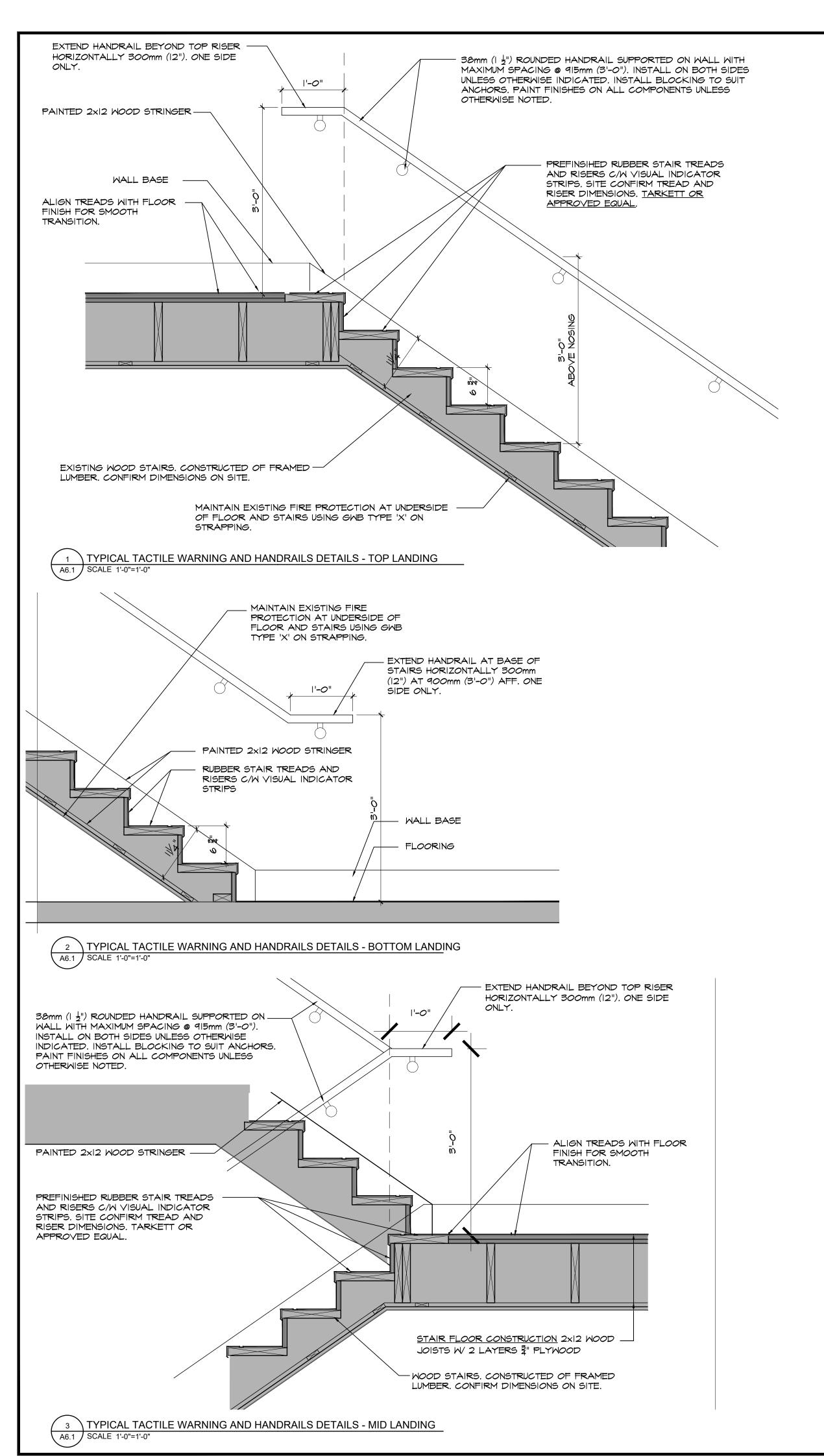
528 Cassells Street, North Bay, ON P1B 3Z7 tel: 705-472-0988 fax: 705-472-2486

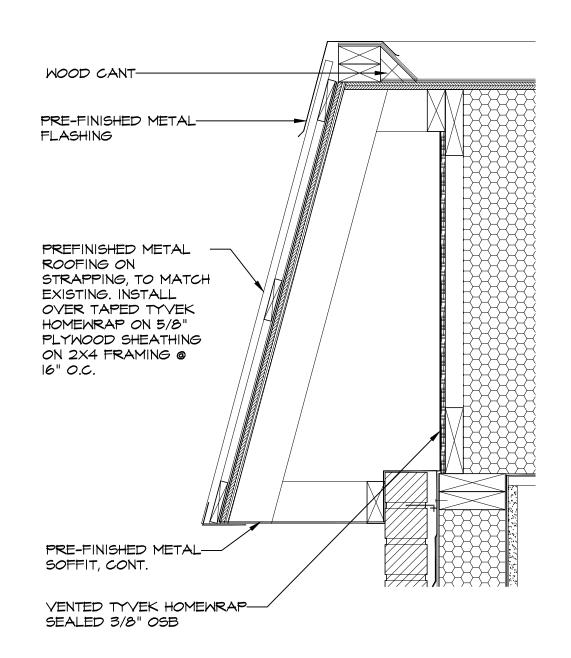
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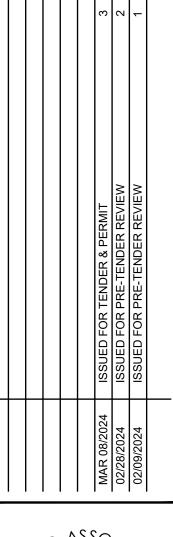






MANSARD ROOF DETAIL

SCALE 1'-1/2"=1'-0"





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ESPRII PLACE RENOVATION
DIST. OF PARRY SOUND SOCIAL SERVICES ADMIN BD
3A BEECHWOOD DRIVE
PARRY SOUND, ONTARIO
TYPICAL STAIR & HANDRAIL DETAILS
MANSARD ROOF DETAIL

drawn by: checked by:
KD/JA MBW

scale: project no:
AS NOTED 2356

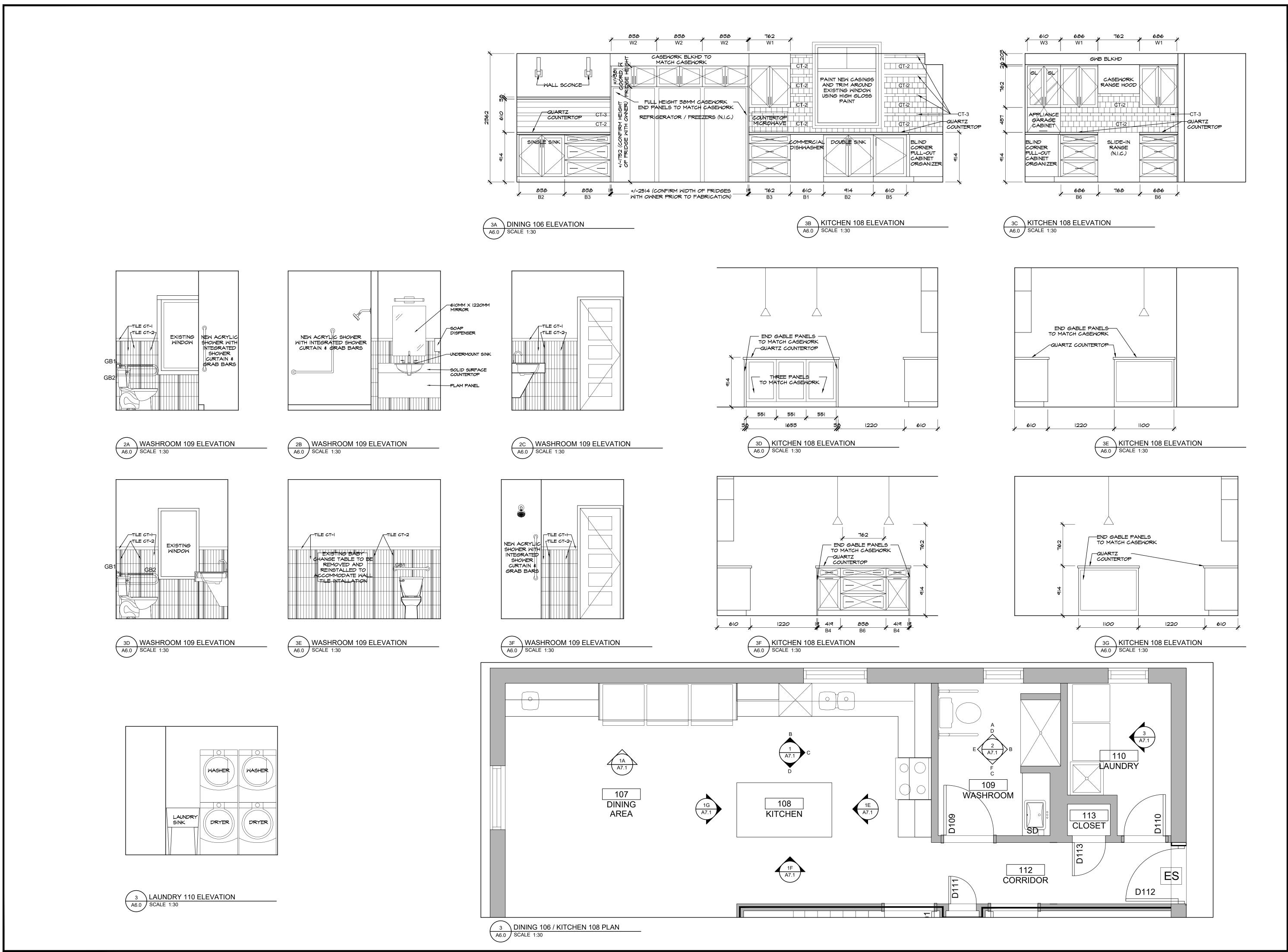
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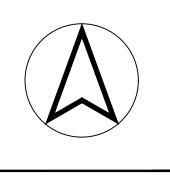
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A5.3





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Wheeler the Bay, ON P1B 3Z7 tel

**Bertrand** 528 Cassells Street, North

BOARD

ESPRIT PLACE RENOVATION
DIST. PARRY SOUND SOCIAL S
1 BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

INTERIOR ELEVATIONS KITCHEN / DINING, WASH MAIN LEVEL

checked by:

project no:

MBW

2356

Mar 08, 2024 dwg no:

scale:

1:30

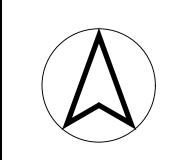
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architecture in 1705-472-2486

Wheeler the Bay, ON P1B 3Z7 tel:

Bertrand \ 528 Cassells Street, North

BOARD

Mar 08, 2024 revision date: Mar 08, 2024 dwg no: **A6.1** 

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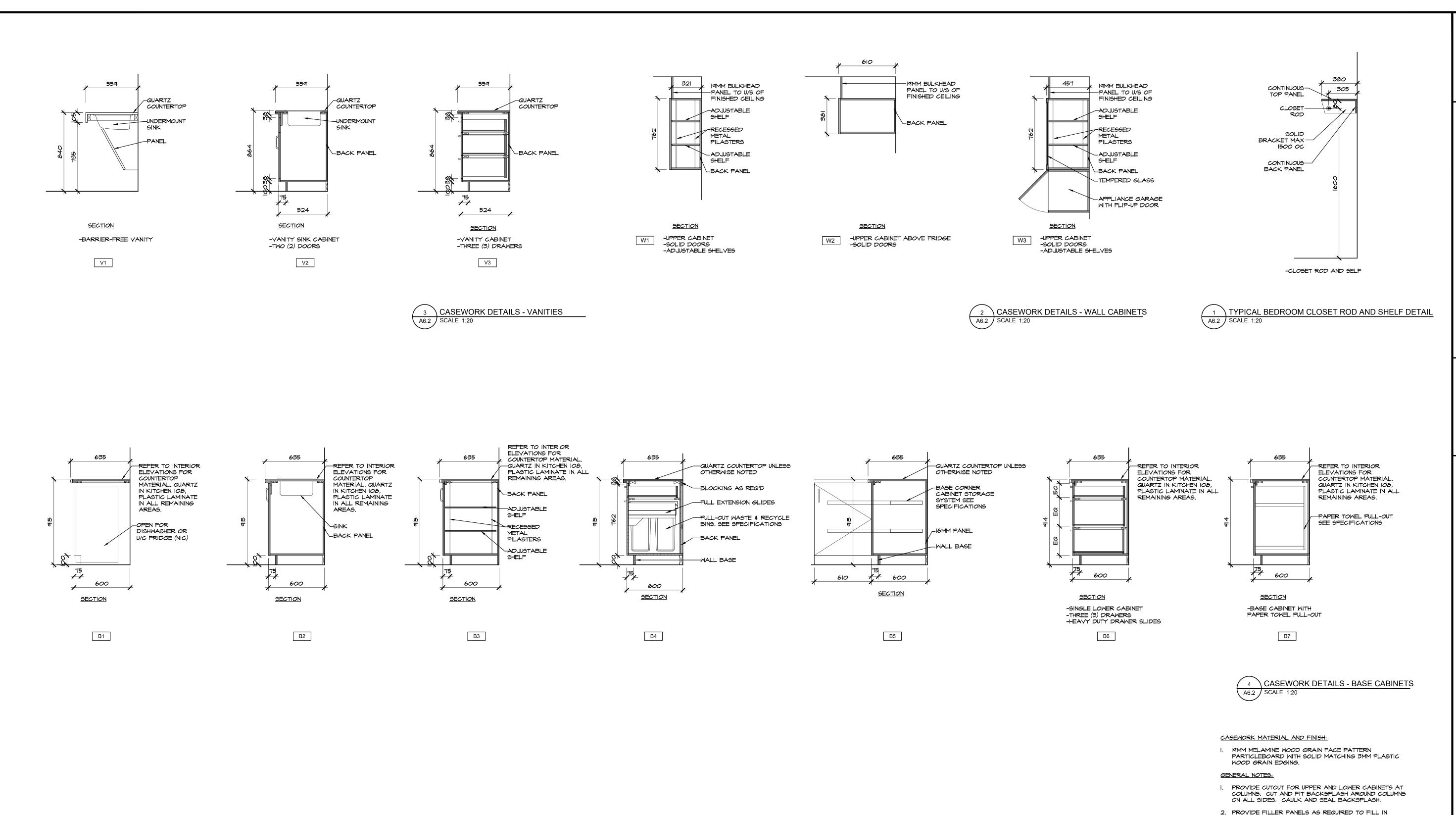
ERIOR ELEVATIONS SHROOMS, LOWER & L

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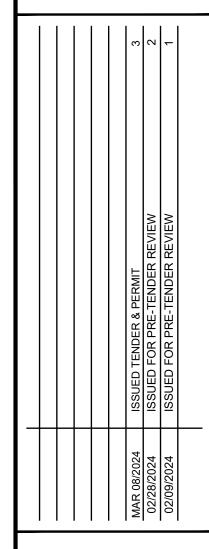
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- 2. PROVIDE FILLER PANELS AS REQUIRED TO FILL IN OPENINGS. PANELS TO MATCH SIZES AND FINISHES OF ADJACENT CASEWORK. INSTALL ALL BACKING AND BLOCKING REQUIRED FOR PANEL INSTALLATION.
- 3. TYPICAL AT ALL GWB BULKHEADS AS INDICATED ON DRAWINGS. PROVIDE FRAMING, BLOCKING AND BACKING AS REQUIRED TO SUIT CASEWORK BELOW BULKHEAD.
- 4. UNLESS OTHERWISE NOTED ALL ENDS OF COUNTERS, CABINETS, GABLES, BACKSPLASHES, SIDESPLASHES, KICKPLATES, DOORS AND FILLER PANELS TO BE FINISHED TO MATCH ADJACENT CASEWORK.
- 5. PROVIDE ALL CUTOUTS FOR MISCELLANEOUS OPENINGS AS REQUIRED BY ALL TRADES. COORDINATE LOCATION AND SIZES FOR CUTOUTS WITH ALL TRADES BEFORE CUTTING OPENINGS. FINISH EXPOSED EDGES TO MATCH ADJACENT CASEMORK.
- 6. ENSURE CABINETS ARE COORDINATED TO RECEIVE ALL EQUIPMENT AS PER EQUIPMENT LIST AND REQUIREMENTS.
- 7. PROVIDE STRUCTURAL BRACING FOR ANY CLEAR RUNNING COUNTERTOPS WITH A SPAN LONGER THAN 1200MM. SUPPORTS TO CARRY A LIVE LOAD OF 150 kg
- 8. ALL COUNTERTOPS AND DESKTOPS TO BE POST FORMED PLASTIC LAMINATE WITH 180° ROUND NOSING UNLESS OTHERWISE NOTED.





architecture **4** ertrand ESPRIT PLACE EXPANSION
DIST. PARRY SOUND SOCIAL S
1 BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

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A6.2

#### STRUCTURAL WORK SPECIFICATION

- 1.1. COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
  - 1.1.1. A BUILDING PERMIT IS REQUIRED FOR ALL STRUCTURAL WORKS UNLESS OTHERWISE NOTED BY THE CHIEF BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION.
- 1.2. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.
- 1.3. REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE CONTRACT DOCUMENTS PREPARED BY ALL CONSULTANTS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- THE STRUCTURAL DRAWINGS SHOW BEARING ELEMENTS BELOW WITH DASHED LINES. CONTINUOUS LINES DENOTE STRUCTURAL ELEMENTS ABOVE
- 1.6. COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS IN STRUCTURE WITH THE CONTRACT DOCUMENTS PREPARED BY ALL CONSULTANTS. REPORT ANY CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- 1.7. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL CONSULTANT UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- 1.8. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL CONDITIONS FOR THIS PROJECT.
- 1.9. DRAWING UNITS (UNLESS OTHERWISE NOTED)
  - PRESSURE ----- PSF FORCE ----- KIP
  - MOMENT / TORSION --- KIP.FT

#### LINEAR FORCE ----- LBS/FT

- 2.1. SUBMIT FOR REVIEW BEFORE THE START OF THE WORK SUBMIT SHOP DRAWINGS IN UNLOCKED, PDF DOCUMENT FORMAT FOR:
  - 2.1.1. CONCRETE MIX DESIGNS
  - 2.1.2. CONCRETE REINFORCING STEEL
- 2.2. SHOP DRAWINGS ARE TO BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT. SHOP DRAWINGS THAT DO NOT BEAR THE REVIEW STAMP OF THE CONTRACTOR WILL BE MARKED "RESUBMIT" AND RETURNED WITHOUT BEING REVIEWED.
- 2.3. REVIEW OF SHOP DRAWINGS IS PERFORMED ON A RATIONAL SAMPLING BASIS FOR GENERAL CONFORMANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS PREPARED BY THE STRUCTURAL CONSULTANT. OUR REVIEW DOES NOT INCLUDE DETAILED CHECKING OF DIMENSIONS OR EXTENSIVE CHECKING OF CALCULATIONS FOR ELEMENTS ENGINEERED BY OTHERS AND DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- 2.4. REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS.
- 2.5. REVIEW OF A SPECIFIC COMPONENT ON NON-STRUCTURAL SHOP DRAWINGS (COMPONENTS ENGINEERED BY OTHERS) DOES NOT INCLUDE REVIEW OF THE ASSEMBLY OF WHICH THE ITEM MAY BE A COMPONENT.
- MAKE CORRECTIONS REQUIRED BY PREVIOUS REVIEW BEFORE RESUBMITTING DRAWINGS. CLEARLY INDICATE ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMISSION. DO NOT ADD NEW DETAILS TO DRAWINGS THAT HAVE BEEN STAMPED AS REVIEWED OR NOTED.
- 2.7. PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.
- 2.8. THE CONTRACTOR IS TO DEVELOP AND MAINTAIN A DETAILED QUALITY CONTROL PLAN ASSOCIATED WITH THE STRUCTURAL WORK. PROVIDE A COPY OF THE QUALITY CONTROL PLAN TO THE CONSULTANT WHEN REQUESTED. THE QUALITY CONTROL PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO:
- 2.8.1. PROCEDURES FOR COLD AND HOT WEATHER CONSTRUCTION.
- 2.8.2. COMPLIANCE WITH THE CONTRACT DOCUMENTS
- 2.8.3. COMPLIANCE OF SUB-TRADE QUALIFICATIONS. 2.8.4. PROCEDURES FOR THIRD-PARTY / INDEPENDENT INSPECTION AND TESTING.

#### TEMPORARY WORKS

- 3.1. STRUCTURAL DRAWINGS SHOW THE INTENT OF THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SCOPE, DESIGN AND ERECTION OF ALL TEMPORARY WORKS THAT ARE NECESSARY TO COMPLETE THE WORK. TEMPORARY WORKS MAY BE REQUIRED THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS
- 3.2. DESIGN AND GENERAL REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER (LICENSED AND INSURED TO PRACTICE IN ONTARIO) RETAINED BY THE CONTRACTOR.
- 3.3. MAKE GOOD ALL EXISTING WORK DISTURBED BY TEMPORARY CONSTRUCTION OPERATIONS.

- 4.1. VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- 4.2. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION.
- 4.3. EXISTING CONDITIONS ARE ASSUMED. REPORT ANY VARIATIONS TO THE STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK.

#### INSPECTION AND TESTING

- 5.1. COOPERATE WITH CONSULTANTS DOING GENERAL REVIEW AND ALL INSPECTION AND TESTING AGENCIES. PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED AND ASSIST IN THEIR WORK. PROVIDE REASONABLE NOTICE (NOT LESS THAN 48 HOURS) PRIOR TO CONCEALING ANY WORK THAT REQUIRES INSPECTION, REVIEW, OR TESTING. SCHEDULE THIS WORK TO OCCUR DURING NORMAL BUSINESS HOURS. ENSURE THAT THE WORK TO BE REVIEWED IS SUBSTANTIALLY COMPLETE IN TIME FOR THE REVIEW.
- 5.2. THE STRUCTURAL CONSULTANT WILL PROVIDE GENERAL REVIEW OF THE WORK DESIGNED BY THE CONSULTANT ON A RATIONAL SAMPLING BASIS IN ACCORDANCE WITH THE GUIDELINE: "PROFESSIONAL ENGINEERS PROVIDING GENERAL REVIEW OF CONSTRUCTION AS REQUIRED BY THE ONTARIO BUILDING CODE" AS PREPARED BY PROFESSIONAL ENGINEERS ONTARIO. THESE REVIEWS DO NOT ALLEVIATE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS WITH AN APPROPRIATE QUALITY CONTROL PROGRAM.
- 5.3. WORK DEEMED NON-COMPLIANT BY THE INSPECTOR OR CONSULTANT IS TO BE REMEDIATED AND RE-INSPECTED. ALL COSTS ASSOCIATED WITH ADDITIONAL INSPECTIONS ARE THE RESPONSIBILITY OF THE
- 5.4. RETAIN QUALIFIED, INDEPENDENT INSPECTION AND TESTING AGENCIES TO UNDERTAKE CONCRETE TESTING, MASONRY TESTING, AND TO INSPECT STRUCTURAL STEEL WORK (AS APPLICABLE) ON SITE.
  - 5.4.1. MAKE ONE STANDARD TEST FOR EACH 100 CUBIC METRES OF CONCRETE (OR PART THEREOF), BUT NOT LESS THAN ONE TEST EACH DAY FOR EACH CLASS. PROVIDE A GROUP OF THREE CONCRETE CYLINDERS FOR EACH STANDARD CONCRETE TEST. BREAK ONE TEST AT 7 DAYS. TEST METHODS AND RESULTS SHALL CONFORM TO CSA A23.2.
- 5.5. RETAIN A GEOTECHNICAL CONSULTANT TO REVIEW ALL FOUNDATION BEARING SURFACES AND TO PERFORM FULL TIME INSPECTION DURING THE PLACEMENT OF ENGINEERED FILLS AND DEEP FOUNDATION ELEMENTS (AS APPLICABLE).

## 6. <u>CONCRETE</u>

- 6.1. CONFORM TO CSA A23.1: "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
- 6.2. CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE SPECIFICATION" ALTERNATIVE AS OUTLINED IN CAN/SCA-A23.1, TABLE 5. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- 6.3. THE CONCRETE SUPPLIER TO BE CERTIFIED BY THE READY-MIXED CONCRETE ASSOCIATION OF ONTARIO.
- 6.4. THE CONTRACTOR AND THE CONCRETE SUPPLIER ARE TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE OWNERS' PERFORMANCE
- 6.5. CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
- 6.6. CONCRETE TO BE NORMAL DENSITY UNLESS NOTED OTHERWISE.
- 6.7. NOMINAL SIZE OF COURSE AGGREGATE TO BE 20 mm (3/4") UNLESS NOTED OTHERWISE. 6.8. CURING UNLESS OTHERWISE RECOMMENDED BY THE CONCRETE SUPPLIER TO SUIT SCM CONTENT:
  - 6.8.1. BASIC: 3 DAYS AT 10°C MIN OR 40% SPECIFIED STRENGTH
- 6.8.2. ADDITIONAL: 7 DAYS AT 10°C MIN AND 70% SPECIFIED STRENGTH
- 6.8.3. EXTENDED: 7 DAYS WET CURING AT 10°C MIN AND 70% OF SPECIFIED STRENGTH

#### 6.9. CONCRETE PROPERTIES:

	EXP	f'c	ENT	MAX	
ELEMENT	CLASS	(MPa)	AIR	W/C	CURING TYPE
FOOTINGS	F-2	25	4-7%	0.55	BASIC
EXTERIOR SLABS	C-1	35	5-8%	0.40	ADDITIONAL
INTERIOR SLABS-ON-GRADE	N-CF	25			BASIC

- 6.10. PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE ALL
- 6.11. PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1.
- 6.12. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1.
- 6.13.1. DO NOT HARD TROWEL (I.E. DENSIFY) AIR-ENTRAINED CONCRETE. EXCESSIVE FINISHING CAN DAMAGE THE SURFACE OF THE SLAB FOR WHICH THE CONTRACTOR WILL BE RESPONSIBLE
- 6.14. FORM THE SIDES OF STRUCTURAL CONCRETE MEMBERS.
- 6.15. PROVIDE 10 (3/8") THICK ASPHALT-IMPREGNATED FIBREBOARD ISOLATION JOINT FILLER WHERE SLAB-ON-GRADE

- TERMINATES AGAINST VERTICAL CONCRETE OR MASONRY ELEMENTS (UNLESS DOWELED TO OR CHASED IN THE VERTICAL STRUCTURE). DEPTH OF JOINT FILLER TO MATCH SLAB THICKNESS.
- 6.16. UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS, FINISHES ARE TO BE AS

BROOM

- 6.16.1. INTERIOR SLABS: POWERED STEEL TROWEL
- 6.16.2. EXTERIOR SLABS:
- REINFORCING STEEL 7.1. REINFORCEMENT TO CONFORM TO:
  - 7.1.1. DEFORMED BARS: CAN/CSA G30.18, GRADE 400R.
  - 7.1.2. GALVANZIED BARS: CAN/CSA G30.18, GRADE 400W.
  - 7.1.3. WELDED WIRE FABRIC: ASTM A185/A185M.
  - 7.1.4. EPOXY-COATING: ASTM D3963
  - 7.1.5. ZINC-COATING (GALVANIZED): ASTM A767/A767M
- 7.2. BARS MARKED CONTINUOUS TO BE SPLICED USING CLASS B LAPS 7.3. ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH. DO NOT SHORTEN HOOKS TO ACCOMMODATE MEMBER DIMENSIONS, BUT RATHER ROTATE THE HOOK TO ENSURE PROPER CONCRETE COVERAGE
- 7.4. PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.
- 7.5. PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER.
- 7.5.1. CHAIRS PLACED ON INSULATION OR VOID FORM TO HAVE SAND PLATE BASES OR SIMILAR. 7.6. ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING
- 7.7. PROVIDE COATED TIE-WIRES AND PLASTIC CHAIRS FOR ALL EPOXY-COATED OR GALVANIZED REINFORCEMENT. TOUCH-UP ALL DAMAGED EPOXY-COATING AND GALVANIZING PRIOR TO PLACING CONCRETE.
- 7.8. CLEAR CONCRETE COVER TO REINFORCEMENT:

	CONCRETE EXPOSURE CLASS						
CONCRETE EXPOSURE	N, N-CF	F-1, F-2, S-1, S-2	C-XL, C-1, C-3				
CAST AGAINST AND PERMANENTLY							
EXPOSED TO EARTH	N/A	75 (3")	75 (3")				
CAST AGAINST VAPOUR BARRIER							
OR RIGID INSULATION	50 (2")	50 (2")	60 (2 1/4")				
EXPOSED TO WEATHER OR IN CONTACT							
WITH EARTH FOR 20M OR LARGER	N/A	50 (2")	60 (2 1/4")				
EXPOSED TO WEATHER OR IN CONTACT							
WITH EARTH FOR 10M AND 15M	N/A	40 (1 1/2")	60 (2 1/4")				
BEAMS, GIRDERS, AND COLUMNS	30 (1 1/4")	N/A	N/A				
SLABS AND WALLS	20 (3/4")	N/A	N/A				

- 8. STRUCTURAL MASONRY
- 8.1. CONFORM TO CSA A371: "MASONRY CONSTRUCTION FOR BUILDINGS" AND CSA S304.1: "DESIGN OF MASONRY STRUCTURES'
- 8.2. MATERIALS:
- 190 (8") AND LARGER UNITS: CSA A179 COARSE GROUT, 1:3:2 (CEMENT: FINE AGGREGATE: COARSE AGGREGATE, BY VOLUME), SLUMP 200 - 275 mm (8"-11")
- 8.3. DO NOT USE MORTAR WHERE GROUT IS SPECIFIED.

#### 9. STRUCTURAL WOOD

- 9.1. CONFORM TO CSA O86: "ENGINEERING DESIGN IN WOOD"
- 9.2.1. LUMBER CONFORMING TO CSA 0141.
  - SPRUCE-PINE-FIR (SPF) NO.1/NO.2 MINIMUM. STUD GRADE <u>IS NOT</u> PERMITTED IN STRUCTURAL
  - 9.2.1.2. KILN DRIED WITH MAXIMUM MOISTURE CONTENT OF 19%.
- NAILS TO BE COMMON ROUND OR SPIRAL STEEL WIRE CONFORMING TO CSA B111 OR ASTM F1667. DO NOT SUBSTITUTE WITH BOX NAILS.

1101 00001		I BOX IV (IEO.		
	PENNY	MIN. DIAMETER	MIN. DIAMETER	MIN. DIAMETER
LENGTH	WEIGHT	COMMON WIRE	COMMON SPIRAL	PNEUMATIC
51 (2")	6d	2.84 (0.112")	NOT PERMITTED	2.87 (0.113")
60 (2 3/8")	N/A	N/A	N/A	2.87 (0.113")
64 (2 1/2")	8d	3.25 (0.128")	NOT PERMITTED	3.33 (0.131")
76 (3")	10d	3.66 (0.144")	3.10 (0.122")	3.05 (0.120")
82 (3 1/4")	12d	3.66 (0.144")	3.10 (0.122")	3.05 (0.120")
89 (3 1/2")	16d	4.06 (0.160")	NOT PERMITTED	4.11 (0.162")
102 (4")	20d	4.88 (0.192")	NOT PERMITTED	NOT PERMITTED
114 (4 1/2")	30d	5.38 (0.212")	NOT PERMITTED	NOT PERMITTED
407 (511)	40-1	F 00 (0 000II)	NOT DEDMITTED	NOT DEDMITTED

- 127 (5") 40d 5.89 (0.232") NOT PERMITTED NOT PERMITTED 9.2.3. LAG SCREWS CONFORMING TO ASME B18.6.1 WOOD SCREWS.
- 9.2.4. ALL CONNECTORS BY SIMPSON STRONG-TIE OR EQUIVALENT APPROVED BY THE CONSULTANT PRIOR TO CONSTRUCTION. FASTEN TO STRUCTURE PER THE MANUFACTURERS REQUIREMENTS. DO NOT SUBSTITUTE FASTENERS OR USE PNEUMATIC NAILS.
- 9.2.5. ALL FASTENERS USED ON THE EXTERIOR OF THE BUILDING TO BE HOT-DIPPED GALVANIZED. ALL CONNECTORS USED ON THE EXTERIOR OF THE BUILDING TO HAVE ZMAX COATING (OR APPROVED
- EQUIVALENT SUBMITTED PRIOR TO CONSTRUCTION). 9.3. STORAGE AND HANDLING
- 9.3.1. ALL WOOD MEMBERS ARE TO BE STORED ON SITE, RAISED OFF THE GROUND AND UNDER COVER OR
- 9.4. CONNECT BUILT-UP MEMBERS AS PER THE TYPICAL DETAILS OR AS RECOMMENDED BY THE SUPPLIER (FOR STRUCTURAL COMPOSITE LUMBER) UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS. SPLICES ARE NOT PERMITTED IN BUILT-UP MEMBERS.
- DO NOT NOTCH STRUCTURAL WOOD MEMBERS WITHOUT THE WRITTEN CONSENT OF THE DESIGNER AND/OR
- 9.6. DO NOT DRILL HOLES IN BEAMS, COLUMNS OR PROPRIETARY WOOD MEMBERS (UNLESS APPROVED IN WRITING BY THE DESIGNER). HOLES DRILLED IN STUDS, TOP/BOTTOM PLATES AND JOISTS ARE NOT TO EXCEED 25% OF THE MEMBER DEPTH AND SHALL NOT BE CLOSER THAN 50 (2") TO ANY EDGE OF THE MEMBER. SPACE ADJACENT HOLES NO CLOSER THAN 4x THE LARGER HOLE DIAMETER.
- 10. POST-INSTALLED ANCHORS AND DOWELS 10.1. USE DRILLING AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURERS' RECOMMENDATIONS. HOLE DIAMETERS ARE NOT TO EXCEED THOSE REQUIRED BY MANUFACTURER. NOTIFY THE CONSULTANT IMMEDIATELY OF ANY DEVIATIONS.
- 10.2. SUBMIT ALL PROPOSED SUBSTITUTIONS FOR REVIEW AT THE BEGINNING OF THE WORK.
- 10.3. DO NOT INSTALL ANCHORS UNTIL THE SUBSTRATE HAS CURED FOR A MINIMUM OF 7 DAYS, OR AS DIRECTED BY THE MANUFACTURER, WHICHEVER IS LONGER.
- 10.4. DO NOT LOAD ANCHORS UNTIL THE SUBSTRATE HAS REACHED THE SPECIFIED 28 DAYS STRENGTH.
- 10.5.1. UNLESS OTHERWISE NOTED, MECHANICAL ANCHORS ARE TO BE HILTI KIWK BOLT III WITH STANDARD EMBEDMENT DEPTH. SOLID GROUT MASONRY CORES TO ACCEPT ANCHORS AS REQUIRED.
- 10.6.1. ANCHORS AND REINFORCING BAR DOWELS EMBEDDED INTO CONCRETE ARE TO BE WITH HILTI HIT-HY
- 10.6.2. ANCHORS EMBEDDED INTO MASONRY ARE TO BE WITH HILTI HIT-HY 270 ADHESIVE. SOLID GROUT MASONRY CORES TO ACCEPT ANCHORS AS REQUIRED.
- 10.6.3. DO NOT LOAD ANCHORS UNTIL THE ADHESIVE HAS CURED FOR A MINIMUM OF 24 HOURS.
- 10.6.4. REFER TO MANUFACTURER'S REQUIREMENTS FOR ACCEPTABLE CURING TEMPERATURES AND
- 10.7. GALVANIZED ANCHORS ARE TO BE HOT DIPPED GALVANIZED, NOT ZINC PLATED.
- 10.8. ARRANGE FOR A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE PRODUCTS SPECIFIED, AND CONDITIONS ENCOUNTERED (E.G. HORIZONTAL, INCLINED, OVERHEAD). SUBMIT RECORD OF TRAINING LISTING ALL TRAINED PERSONNEL WHEN REQUESTED BY THE CONSULTANT.

10.9. DO NOT CUT REINFORCEMENT TO ACCOMMODATE DRILLED ANCHORS AND DOWELS. SCAN THE STRUCTURE TO

LOCATE REINFORCEMENT PRIOR TO FABRICATING STRUCTURAL STEEL FASTENED BY DRILLED ANCHORS.

- 10.10. WHEN OBSTRUCTIONS PREVENT DRILLING HOLES IN SPECIFIED LOCATIONS TO THE REQUIRED DEPTH, RELOCATE AT NO EXTRA COST TO THE CONTRACT. OBTAIN CONSULTANT'S APPROVAL OF NEW LOCATIONS BEFORE DRILLING HOLES. FILL ALL ABANDONED HOLES WITH MIN. 30MPa GROUT. DO NOT TIGHTEN ANCHORS UNTIL GROUT IN ADJACENT ABANDONED HOLES REACHES 75% fc.
- 10.11. DO NOT BEND POST INSTALLED DOWELS AFTER INSTALLATION.

#### 11. FOUNDATIONS

PRESSURES:

- 11.1. CONSTRUCT ALL FOOTINGS ON STRATA CAPABLE OF SUPPORTING THE FOLLOWING DESIGN BEARING
- 11.1.1. ULTIMATE LIMIT STATE: 115 kPa
- 11.1.2. SERVICEABILITY LIMIT STATE: 75 kPa
- 11.2. INSULATION BELOW FOUNDATIONS TO BE STYROFOAM HIGHLOAD BY DUPONT OR APPROVED EQUIVALENT CONFIRMED PRIOR TO CONSTRUCTION. REFER TO PLANS AND DETAILS FOR MINIMUM COMPRESSIVE STRENGTH
- 11.3. BEARING ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE ANTICIPATED MINIMUM DEPTHS. FINAL BEARING ELEVATIONS AND CAPACITY MUST BE REVIEWED AND APPROVED BY THE GEOTECHNICAL CONSULTANT PRIOR TO CONSTRUCTING FOOTINGS. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS TO BE REVIEWED WITH THE STRUCTURAL CONSULTANT PRIOR TO PLACING FORMWORK.
- 11.4. LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION
- 11.5. UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL CONSULTANT, THE LINE OF SLOPE BETWEEN
- ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. 11.6. KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES. REFER TO GEOTECHNICAL REPORT FOR REQUIRED DEWATERING PROCEDURES.
- 11.7. PROTECT FOOTINGS, WALLS, SLABS-ON-GRADE AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION. DO NOT PLACE CONCRETE AGAINST FROZEN EARTH.
- 11.8. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT,
- INCLUDING SLABS ON GRADE AND SUSPENDED LEVELS, ARE COMPLETED. 11.9. FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 300 MM (1'-0") FROM ONE SIDE TO THE OTHER.
- DESIGN DATA
- 12.1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH PART 9 OF THE ONTARIO BUILDING CODE 2012.
- 12.2. CLIMATIC LOCATION: PARRY SOUND, ONTARIO
- 12.3. SPECIFIED SNOW LOAD = Ss Cb + Sr = (2.8)(0.55) + 0.4 = 1.94 kPa(40 PSF)
- 12.4. LIVE LOAD = 50 PSF

SAW CUT EXIST. SLAB-ON-GRADE 25 (1") DEEP AND CHIP REMAINDER. CONDITION PROVIDE 10@600 (24") x 500 (20") LG - EXIST. CON EMBEDDED 150 (6") INTO EX SLAB-ON-RIM BOARD TO TOP PLATE CONCRETE WITH ADHESIVE GRADE RIM BOARD TO JOISTS BRIDGING TO JOISTS JOIST TO PLATE MATCH -COMPACTED TO EXIST. THICK. WOOD TRUSS TO PLATE 98% SPDD LINDISTURBED COMPACTED FILL. MAINTAIN EXCAVATION STUD TO TOP AND BOTTOM PLATE WWF 150x150 MW18 7xMW18 SLOPE TO PREVENT (6x6 6x6) PLACED 50 (2") (EA END) UNDERMINING EXIST. SLAB. BELOW TOP OF SLAB ON CONC. CHAIRS AT 600 (24") C/ BLOCKING TO STUDS PROVIDE 300 (12") LAPS. TOP AND BOTTOM PLATES TOP AND BOTTOM PLATE SPLICE - UNDERPIN EXIST. SLAB EDGES WITH CONC IF UNDERMINED DURING EXCAVATION LINTEL OR BEAM TO KING STUD CONFIRM EXIST. SLAB THICKNESS PRIOR TO CUTTING. INFILL WITH 25 MPa CONCRETE, MAX. W/C RATIO = 0.45

TRENCHING IN EXISTING TYPICAL TDW01

CONCRETE SLAB-ON-GRADE

DETAIL

UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS PROVIDE CONTRACTION JOINTS IN NEW CONCRETE WHEN

CONNECTION SCHEDULE

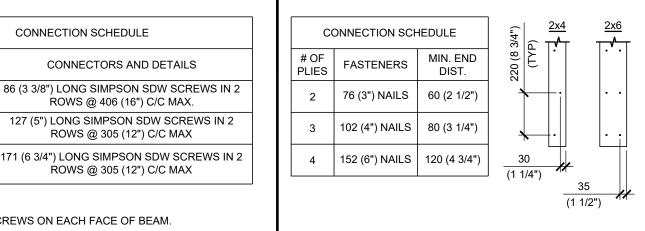
w > 2400 (8'-0")

YPICAL TDC23

DFTAIL

**FASTENERS** @305 (12") C/C 2 - 76 (3") NAILS 2 - 76 (3") TOE-NAILS 3 - 76 (3") TOE-NAILS 4 - 76 (3") TOE-NAILS 4 - 76 (3") TOE-NAILS OR END-NAILS 2 - 76 (3") TOE-NAILS @406 (16") C/C REFER TO TYPICAL DETAIL 2 - 76 (3") TOE-NAILS

FASTENERS ARE IN ADDITION TO CONNECTORS NOTED ELSEWHERE ON THE STRUCTURAL DRAWINGS.



- STAGGER SCREWS ON EACH FACE OF BEAM LOCATE FIRST ROW OF SCREWS 152 (6") FROM EACH END.
- ADD ADDITIONAL ROW OF SCREWS FOR BEAMS DEEPER THAN 229 (9").

REFER TO SIMPSON CATALOGUE FOR INSTALLATION

LOCATE SCREWS 38 (1 1/2") FROM EDGE

INFORMATION AND ADDITIONAL DETAILS.

- INSTALL ALTERNATING ROWS OF FASTENERS ON OPPOSITE SIDE OF COLUMN. FOR BUILT-UP COLUMNS THAT ARE INCORPORATED INTO STUD WALLS, NAIL ADJACENT PLIES TOGETHER WITH 2 - 76
- DIAMETER OF 4.88 (0.192").
- (3") NAILS @ 305 (12") CENTRES AND NAIL STRUCTURAL SHEATHING TO EACH PLY AT 305 (12") CENTRES. 102 (4") NAILS TO BE COMMON WIRE WITH MINIMUM 152 (6") NAILS TO BE COMMON WIRE WITH MINIMUM

WOOD FRAMING CONNECTIONS

DIAMETER OF 7.01 (0.276").

ONNECTIONS FOR SIDE-LOADED BUILT-UP TYPICAL CONNECTIONS FOR BUILT-UP WOOD COLUMN ENGINEERED WOOD (LVL AND LSL) BEAMS DETAIL onsulting engineers

#### **ABBREVIATIONS**

SERVICE LIVE LOAD

LONG LEG HORIZONTAL

LOWER LEVE

Af	FACTORED AXIAL LOAD +/-	LLV	LONG LEG VERTICAL
	(TENSION / COMPRESSION)	LSH	LONG SIDE HORIZONTAL
ALT	ALTERNATE	LSV	LONG SIDE VERTICAL
ARCH	ARCHITECTURAL CONTRACT DOCUMENTS	LW	SPANNING LONG WAY
В, ВОТ	BOTTOM	Mf	FACTORED MOMENT
BEW	BOTTOM EACH WAY	XX	MOMENT CONNECTION WITH FACTORED
BLL	BOTTOM LOWER LAYER		DESIGN MOMENT NOTED
BM	BEAM	MAX	MAXIMUM
BOF	BOTTOM OF FOOTING	MECH	MECHANICAL CONTRACT DOCUMENTS
BUL	BOTTOM UPPER LAYER	MID	MIDDLE
CA	COLUMN ABOVE	MIN	MINIMUM
СВ	COLUMN BELOW	MJ	MOVEMENT JOINT
C/C, O/C	CENTRE-TO-CENTRE, ON CENTRE	MTf	FACTORED TORSIONAL MOMENT
CANT	CANTILEVER	NIC	NOT IN CONTRACT
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CL	CENTRE LINE	OPP	OPPOSITE
CLR	CLEAR	OWSJ	OPEN WEB STEEL JOIST
CNT	STEEL DECK CORE NOMINAL THICKNESS	PL	PLATE
COL	COLUMN	PT	PRESSURE-TREATED
CONC	CONCRETE	REINF	REINFORCED / REINFORCEMENT
CONT	CONTINUOUS	S	SERVICE SNOW LOAD
C/W	COMPLETE WITH	SDL	SERVICE SUPER-IMPOSED DEAD LOAD
D.	SERVICE DEAD LOAD	SIM	SIMILAR
DAA	DRILLED ADHESIVE ANCHOR	SLS	SERVICE LIMIT STATE
DAA DO	DO OVER	SOG	SLAB ON GRADE
DMA	DRILLED MECHANICAL ANCHOR	SPEC	SPECIFICATIONS
DIVIA DP	DEEP	STAG	STAGGERED
		STL	
DWG	DRAWING		STEEL SPANNING SHOPT WAY
DWLS	DOWELS	SW	SPANNING SHORT WAY
E	EARTHQUAKE LOAD	T	TOP
EA	EACH	TEW	TOP EACH WAY
ECR	EPOXY-COATED REINFORCEMENT	THK	THICK
	EXPANSION JOIN	THRU	THROUGH
EL, ELEV		TJ	TIE JOIST
EQ	EQUAL	TLL	TOP LOWER LAYER
EX, EXIST		TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOF	TOP OF FOOTING
FDN	FOUNDATION	TOS	TOP OF STEEL
FTG	FOOTING	TOW	TOP OF WALL
GA	GAUGE	TUL	TOP UPPER LAYER
GALV	GALVANIZED	TYP	TYPICAL UNLESS OTHERWISE NOTED
GL	GRID LINE	UL	UPPER LEVEL
H, HORIZ	HORIZONTAL	ULS	ULTIMATE LIMIT STATE
HEF	HORIZONTAL EACH FACE	U/N	UNLESS NOTED
HIF	HORIZONTAL INSIDE FACE	U/S	UNDERSIDE
HOF	HORIZONTAL OUTSIDE FACE	V, VERT	VERTICAL
H1	STANDARD HOOK ONE END	VEF	VERTICAL EACH FACE
HH	STANDARD HOOK EACH END	VIF	VERTICAL INSIDE FACE
HT	HEIGHT	VOF	VERTICAL OUTSIDE FACE
INT	INTERIOR	VSC	VERTICAL SLOTTED CONNECTION
IT	IOINT	۱۸/	SEDVICE WIND LOAD

SERVICE WIND LOAD

WELDED WIRE FABRIC ZINC-RICH PRIMER

WORK POINT

WEIGHT

2024.03.08

S.W. CAIRNS

checked by:

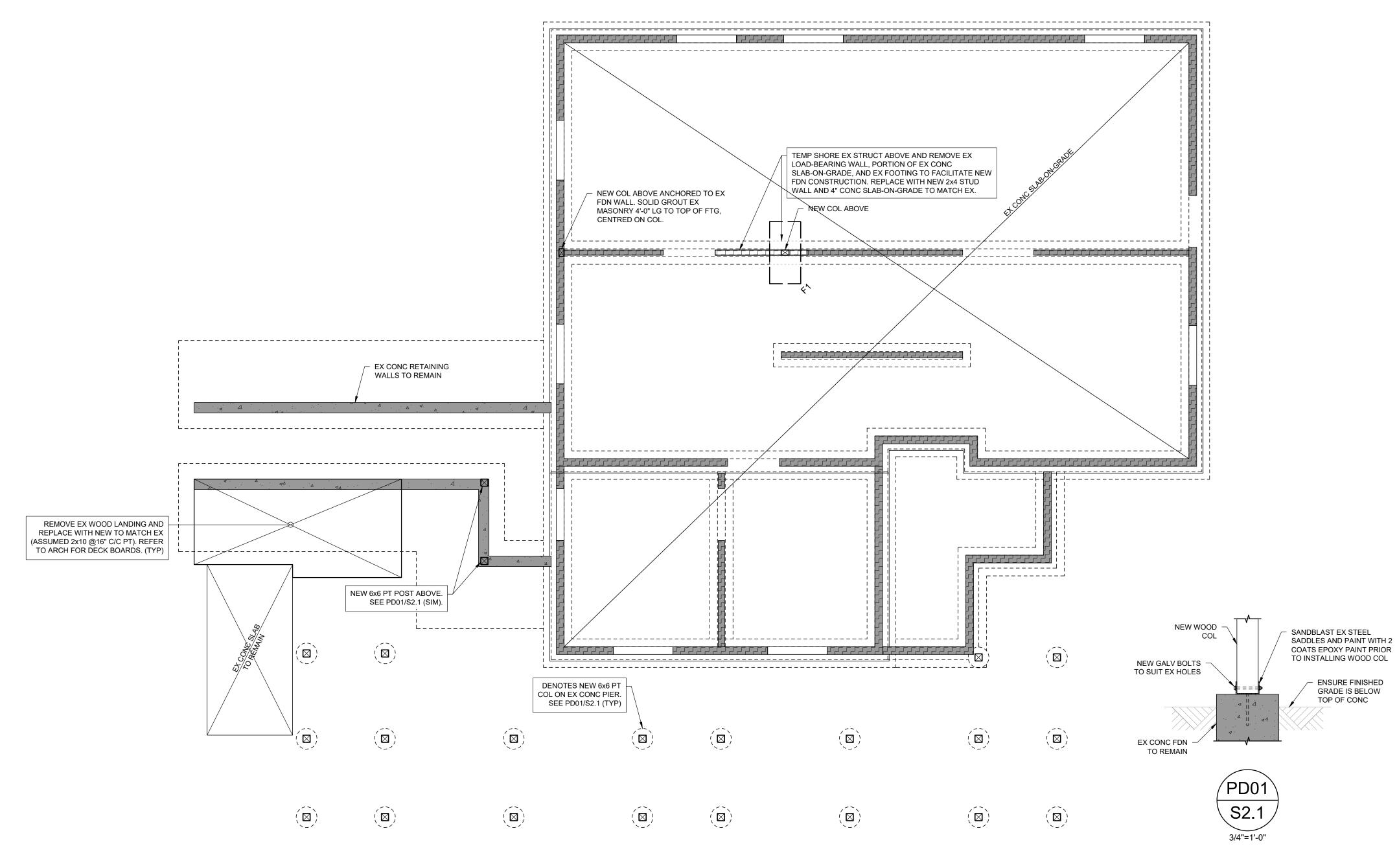
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AS NOTED 22143A date plotted

**S1.1** 

revision date:

MAR 08, 2024



## FOUNDATION AND BASEMENT PLAN

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

#### FOUNDATION AND BASEMENT PLAN NOTES

- 1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S1.1 AND S1.2.
- 2. BASEMENT DATUM ELEVATION IS ASSUMED 0'-0".
- 3. SET UNDERSIDE OF NEW FOOTINGS TO MATCH EXISTING, ASSUMED -1'-0" BELOW DATUM. CONTRACTOR TO VERIFY PRIOR TO PROCEEDING WITH THE WORK.
- 3.1. DO NOT UNDERMINE EXISTING FOOTINGS. CONTRACTOR TO UNDERPIN EXISTING AS NECESSARY TO FACILITATE CONSTRUCTION.
- 4. CONCRETE SLABS-ON-GRADE:
- 4.1. PROVIDE 100 (4") THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH 152x152 MW18.7/MW18.7 (6x6 6/6) WELDED WIRE FABRIC (W.W.F) PLACED 50 (2") BELOW TOP OF SLAB ON CONCRETE CHAIRS SPACED AT 600 (24") CENTRES. PROVIDE 150 (6") LAPS PLUS OVERHANGS FOR ALL REINFORCEMENT.

FOOTING SCHEDULE											
FOOTING	DIMENSIONS (L x W x T)	REINFORCEMENT	STD. HOOKS ON REINF?	NOTES							
F1	24" x 48" x 12"	3-15M BEW	YES								
F2											

#### FOOTING SCHEDULE NOTES

1. CENTRE FOOTINGS UNDER COLUMNS, PIERS, WALLS OR GRADE BEAMS ABOVE UNLESS OTHERWISE NOTED.

				Issued for Tender	
				Mar 8, 2024	





ESPRIT PLACE RENOVATION

DIST. OF PARRY SOUND SOCIAL SERVICES ADMIN BD

1 BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

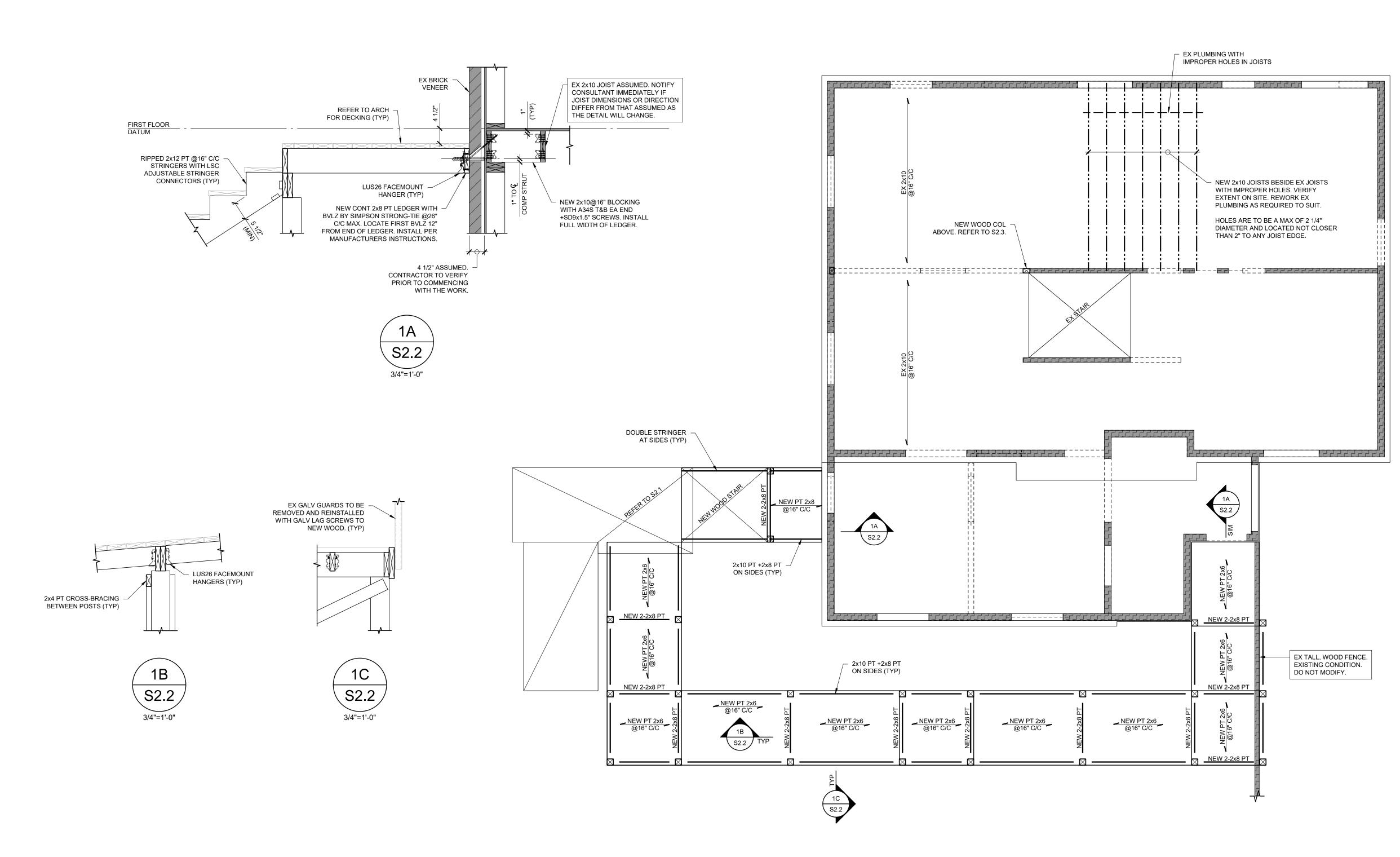
FOLINDATION AND RASEMENT PLAN

drawn by: checked by:
SWC AJD
scale: project no:
AS NOTED 22143A
date plotted:

revision date:

MAR 08, 2024 dwg no:

**S2.1** 



### FIRST FLOOR FRAMING PLAN

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

#### FLOOR PLAN NOTES

- 1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S1.1 AND S1.2.
- 2. FLOOR DATUMS:
- 2.1. FIRST FLOOR IS LEVEL WITH EXISTING (ASSUMED +10'-0" ±).
- 2.2. SECOND FLOOR IS LEVEL WITH EXISTING (ASSUMED +18'-11" ±).

				Issued for Tender	
				Mar 8, 2024 Iss	





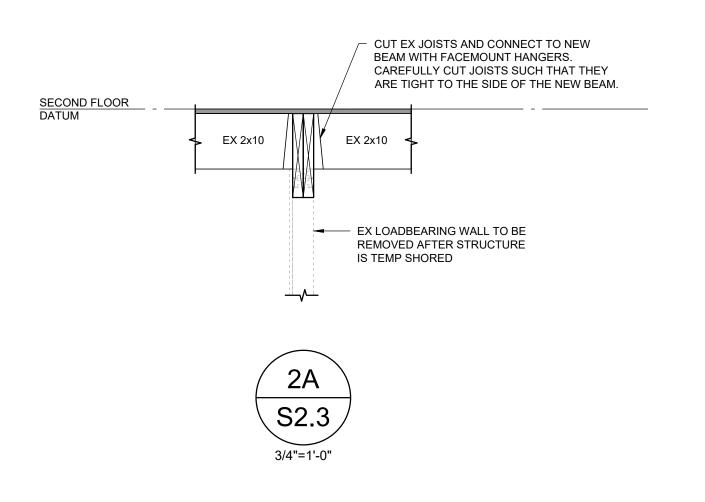
ESPRIT PLACE RENOVATION
DIST. OF PARRY SOUND SOCIAL S
1 BEECHWOOD DRIVE
PARRY SOUND, ONTARIO

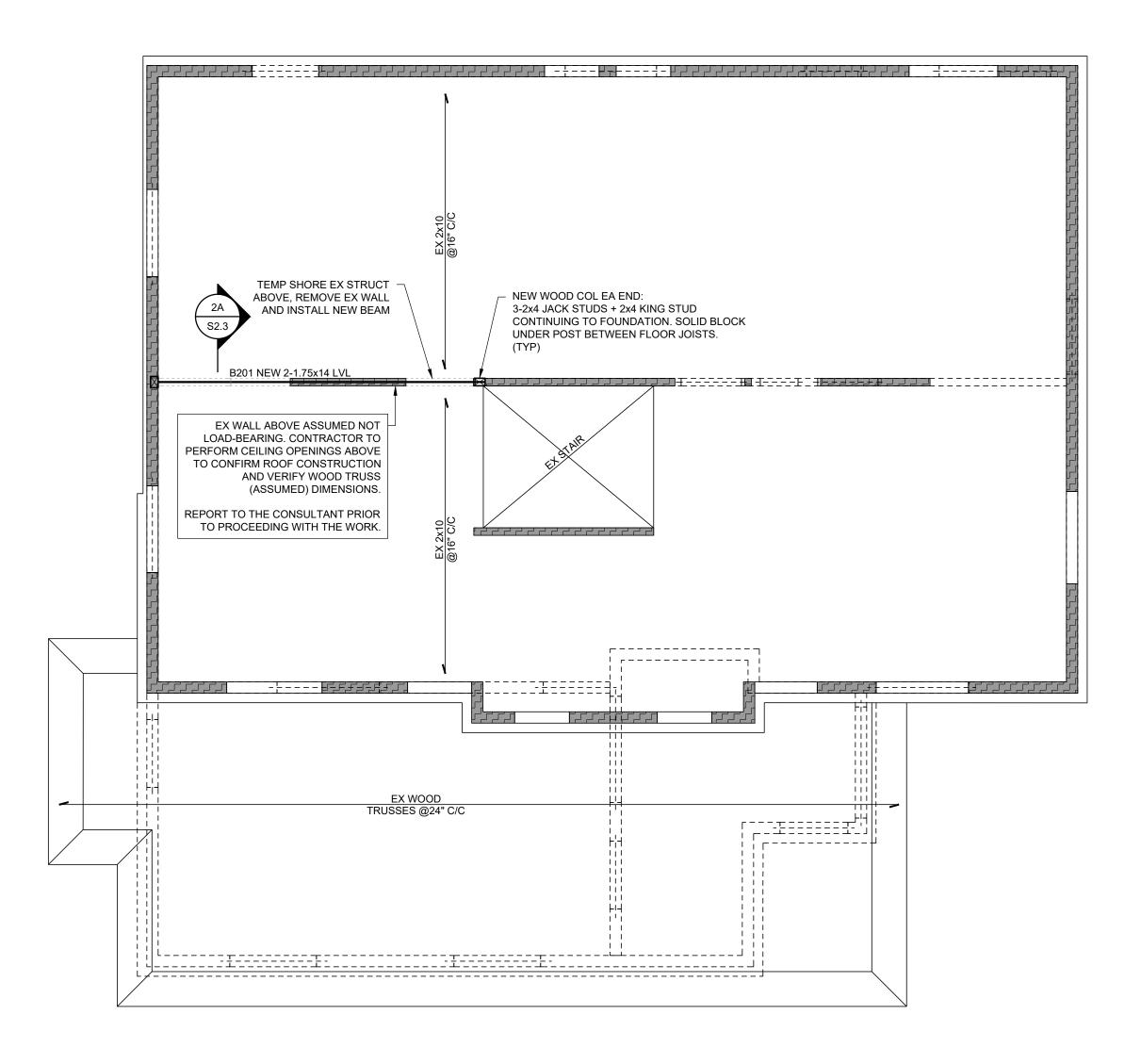
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revision date: MAR 08, 2024

> dwg no: **S2.2**



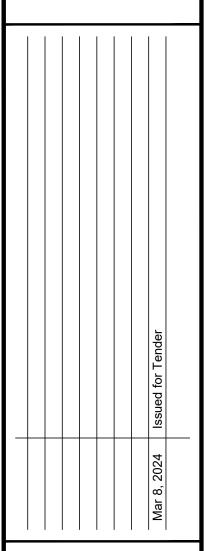


## SECOND FLOOR AND LOW ROOF FRAMING PLAN

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

## FLOOR PLAN NOTES

1. SEE FLOOR PLAN NOTES ON DRAWING S2.2.







LACE RENOVATION PARRY SOUND SOCIAL SERVICES ADMIN BD DD DRIVE JD, ONTARIO

DIST. OF PAR 1 BEECHWOOD D PARRY SOUND, O	title: SECOND FLO
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SWC	AJD
scale:	project no:
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revision date:

MAR 08, 2024

**S2.3** 

#### PART 1 MECHANICAL 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.
- THE CONTRACTOR SHALL PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION. 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 2 PERMITS AND INSPECTION

- 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL ORTAIN ALL NECESSARY PERMITS, INSPECTIONS, CERTIFICATES, ETC. REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND SHALL PAY FOR SAME.
- COSTS FOR PERMITS, INSPECTIONS, ETC. SHALL BE INCLUDED IN THE TENDER PRICE. ALL PERMITS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE

#### PART 3 SCOPE OF WORK

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

#### PART 4 AS-BUILT DRAWINGS

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

#### PART 5 SHOP DRAWINGS

- SUBMIT FLECTRONIC COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO PLACING ORDER FOR ALL EQUIPMENT AND MATERIAL RELATED
- TO THIS CONTRACT SHOP DRAWINGS TO INCLUDE PRODUCT CHARACTERISTICS, PERFORMANCE CRITERIA, PHYSICAL SIZE, FINISH, AND LIMITATIONS.

#### PART 6 EXAMINATION OF THE SITE

- .1 THE CONTRACTOR SHALL VISIT THE SITE OF THE PROJECT AND FAMILIARIZE THEMSELVES
- WITH THE SCOPE OF WORK. 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 7 CONSTRUCTION SCHEDULE

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

#### PART 8 CHANGE 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

#### PART 9 CLEAN-UP

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

#### PART 10 EQUIPMENT AND MATERIAL

MATERIAL, LABOUR, HOURLY RATES, ETC.

- .1 ALL MATERIALS USED ON THIS PROJECT SHALL BE NEW AND WITHOUT BLEMISH OR
- .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 ULC OR CSA LABELS.

#### PART 11 TESTING

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 12 DEMONSTRATION OF SYSTEM

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

#### PART 13 IDENTIFICATION

- .1 ALL PIPING AND DUCTWORK TO BE LABELED AND PAINTED IN CONFORMANCE WITH
- .2 ALL LABELING TO BE INSTALLED ON LONG STRAIGHT RUNS CLEARLY VISIBLE AND UNOBSTRUCTED.

#### PART 14 COORDINATION

.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 15 ACCESSIBILITY

- .1 ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS. MANUFACTURERS INSTALLATION REQUIREMENTS TO BE REVIEWED - PROVIDE ALL REQUIRED SERVICE SPACE ALLOCATIONS FOR ALL EQUIPMENT INSTALLED UNDER THIS

## PART 16 RESPONSIBILITY

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.

.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 18 FIREPROOFING

COMPLETING WORK.

- .1 ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH
- APPROVED FIRE STOP SYSTEM TO SUIT FIRE RATED ASSEMBLY.
- INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. .3 SUBMIT FIRE STOP SYSTEM SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO

#### PART 19 CUTTING, 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. UPON REMOVAL OF PIPING, DUCTWORK, THERMOSTATS, CONTROL WIRING, ETC. PATCH
- ALL HOLES CREATED FROM REMOVALS AND MATCH EXISTING FINISHES. PROVIDE STEEL PIPE SLEEVES WHERE PIPING PASSES THROUGH MASONRY OR CONCRETE 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 20 ACCESS DOORS

- 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 21 OPERATIONAL 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 22 INSULATION AND JACKETING

INSULATION AND JACKETING TO HAVE MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPMENT RATING OF 50 WHEN TESTED IN ACCORDANCE WITH

#### .2 INSULATE PIPING WITH RIGID MINERAL FIBRE SLEEVING WITH FOILCRAFT LAMINATE

- PACKET WITH OPEN MESH FIBRE SCRIM 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 23 METAL DUCTS LOW PRESSURE TO 500 PA
- .1 GALVANIZED INDOOR AIR QUALITY AS PER ASHRAE STANDARDS. LOCK FORMING QUALITY: TO ASTM A 653/A653M, Z90 ZINC COATING. THICKNESS, FABRICATION AND REINFORCEMENT: TO ASHRAE AND SMACNA. 4 IOINTS: TO ASHRAE AND SMACNA OR PROPRIETARY MANUEACTURED DUCT IOINT
- PROPRIETARY MANUFACTURED FLANGED DUCT JOINT TO BE CONSIDERED TO BE A CLASS HANGERS: GALVANIZED STEEL ANGLE WITH GALVANIZED STEEL RODS TO ASHRAE AND SMACNA.

#### PART 24 FLOOR 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 F1000-5-3
- .2 TILED AREAS: LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD HEAVY DUTY SQUARE POLISHED STAINLESS STEEL STRAINER. EQUAL TO MIFAB SERIES F1100-S (\*)-3 (\* STRAINER SIZE)

FOR MEMBRANE FLOORS - EQUAL TO MIFAB F1000-C-5-3.

- .3 NON-FINISHED AREAS:
- LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STANDARD HEAVY DUTY 5" DIAMETER, DUCTILE IRON STRAINER. EQUAL TO MIFAB SERIES F1100-5-4 FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-5-4

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

- .4 FLOOR DRAIN WITH SURFACE MEMBRANE CLAMP: 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-FC7-3 FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-FC7-3

**EQUAL TO MIFAB SERIES F1100-EF** 

.5 FLOOR DRAIN WITH FUNNEL 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

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

FOR NON MEMBRANE FLOORS EQUAL TO MIFAB F1320 SERIES

EQUAL TO MIFAB SERIES F1100-EG FOR MEMBRANE FLOORS EQUAL TO MIFAB F1100-C-EG SERIES LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES AND

STANDARD 4" (102) ROUND SATIN FINISHED NICKEL BRONZE FUNNEL ASSEMBLY.

UNFINISHED AREA FLOOR DRAIN WITH 9" ROUND ADJUSTABLE TRACTOR GRATE LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, CAST IRON CLAMP RING WITH PRIMARY AND SECONDARY WEEPHOLES FOR WATERPROOFING MEMBRANE, AND STANDARD 1" (25) THICK, 9" (225) DIAMETER, DUCTILE IRON TRACTOR GRATE. EQUAL TO MIFAB SERIES F1320-C-4

#### PART 25 CLEANOUTS

- .1 FLOOR CLEANOUTS:
- 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.
- CLEANOUTS IN FINISHED FLOOR TO BE ROUND TOP OR C1000-S-3 SQUARE TOP WITH HEAVY DUTY POLISHED STAINLESS STEEL FINISH AND MAXIMUM LOAD EQUAL TO MIFAB C1000-R-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
- CLEANOUTS IN LINOTILE AREAS TO BE (ROUND TOP) OR C1100-TS-3 (SQUARE TOP) WITH A HEAVY DUTY LOAD RATED POLISHED STAINLESS STEEL TOP.
- 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
- IRON CLEANOUT WITH ANCHOR FLANGE WEEPHOLES AND "REC" 7" DIAMETER REINFORCED COMBINED STAINLESS STEEL COVER WITH PLUG AND SURFACE MEMBRANE CLAMP. EQUAL TO MIFAB SERIES C1100-RFC7-3-34

#### .2 WALL CLEANOUTS:

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** 

SURFACE MEMBRANE CLAMP FOR PLENAM FLOORS TO BE LACQUERED CAST

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

- DRAINAGE AND VENT LINES INSIDE BUILDING TO BE CAST IRON OR COPPER BELOW 2". PVC PIPING MAY BE USED IN LIEU 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 27 DOMESTIC WATER PIPING - COPPER

ABOVE GROUND: COPPER TUBE, HARD DRAWN, TYPE L: TO ASTM B 88M. BURIED OR EMBEDDED: COPPER TUBE, SOFT ANNEALED, TYPE K: TO ASTM B 88M, IN LONG LENGTHS AND WITH NO BURIED JOINTS.

#### PART 28 BALL VALVES

- NPS 2 AND UNDER, SOLDERED:
- TO ANSI/ASME B16.18. CLASS 150. BRONZE BODY, CHROME PLATED BRASS BALL, PTFE ADJUSTABLE PACKING, BRASS GLAND AND PTFE SEAT. STEEL LEVER HANDLE. WITH NPT TO COPPER ADAPTORS AS SPECIFIED SECTION 23 05 23.01 - VALVES - BRONZE.

#### PART 29 PLUMBING FIXTURES

.1 PLUMBING FIXTURES SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.

#### L#1 – COUNTER MOUNTED DROP IN LAVATORY

- AMERICAN STANDARD 0476028.020 BASIN DROP-IN LAVATORY, VITREOUS CHINA, WHITE FINISH, 102 MM (4") CENTERSET, FRONT OVERFLOW, WITH FAUCET LEDGE, OVERALL DIMENSIONS: 518 MM (20-3/8") LONG, 441 MM (17-3/8") WIDE, 178 MM (7") HIGH. BOWL DIMENSIONS: 406 MM (16") LONG, 254 MM (10") WIDE, 143 MM (5-5/8") DEEP
- AMERICAN STANDARD 7075200.002 FAUCET COLONY®, COUNTER MOUNTED, MANUAL, TWO HANDLES, LAVATORY FAUCET, POLISHED CHROME FINISH, 102 MM (4") CENTERSET, LEAD FREE ANSI/NSF 61 AND ANSI/NSF 372 COMPLIANT. METAL BODY, LESS SUPPLY, CERAMIC DISC CARTRIDGE, 4.5 LPM (1.2 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING AERATOR, MID-ARC SPOUT, 114 MM (4-1/2") SPOUT REACH, 108 MM (4-1/4") HIGH, LEVER HANDLES, METAL DRAIN, 13 MM (1/2") MALE INLET SHANKS.
- AMERICAN STANDARD 2411.015.002 FIXTURE DRAIN GRID DRAIN, FOR SINKS, BRASS CONSTRUCTION, POLISHED CHROME FINISH, 6-3/8" (162 MM) HEIGHT, WITH OVERFLOW, 32 MM (1-1/4") TAILPIECE, ASME A112.18.2, CSA B 125.2
- MCGUIRE LFBV2165 SUPPLY LEAD FREE, CONVERTIBLE QUARTER-TURN SUPPLY, CHROME-PLATED FINISH, TWO 13 MM (1/2") I.P.S. X 10 MM (3/8") Ø BRASS BALL VALVE, 304 MM (12") COPPER FLEXIBLE RISERS, CONVERTIBLE LOOSE KEY HANDLE, LAVATORY, TWO STEEL SHALLOW FLANGES
- MCGUIRE 8872C P-TRAP HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 292 MM (11-1/2") DISTANCE. WITH CLEANOUT PLUG. STEEL SHALLOW FLANGE. NEOPRENE GASKET SLIPNUTS, 17-GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

#### CS#1 - UNDERMOUNT, DOUBLE BOWL TWO HANDLES

- FRANKE COMMERCIAL UCD6408P-1 SINK DOUBLE COMPARTMENT SINK, KITCHEN SINK, WITH OVERALL DIMENSION 794 MM (31-1/4") LONG, 460 MM (18-1/8") WIDE, 203 MM (8") HIGH, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, LEFT BOWL IS 356 MM (14") LONG AND RIGHT BOWL IS 356 MM (14") LONG, LEFT BOWL IS 406 MM (16") WIDE AND RIGHT BOWL IS 406 MM (16") WIDE, LEFT BOWL IS 203 MM (8") DEEP AND RIGHT BOWL IS 203 MM (8") DEEP, POLISHED TO #4 SATIN FINISH, CENTER BACK WASTE LOCATION, 38 MM (1-1/2") (DN38) BRASS TAILPIECE, STANDPIPE WITH GUARD, 89 MM (3-1/2") CRUMB CUP STRAINER, UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, CODES AND COMPLIANCES: ASME A112.19.3 COMPLIANT, CSA B45.4
- DXV D35404300.100 FAUCET ETRE™, COUNTER MOUNTED, MANUAL, SINGLE HANDLE, SINK FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, LEAD FREE ANSI/NSF 61 COMPLIANT, LEAD FREE BRASS CONSTRUCTION, INTEGRAL CHECK VALVE, STAINLESS STEEL FLEXIBLE LINES, CERAMIC DISC CARTRIDGE, 6.8 LPM (1.8 GPM) MAXIMUM FLOWRATE, SPRAY OUTLET, HIGH-ARC SPOUT PULL DOWN, 216 MM (8-1/2") SPOUT REACH, 454 MM (17-7/8") HIGH, LEVER HANDLE.
- MCGUIRE LFCK165LK SUPPLY ICV DEFENDER. LEAD FREE. WITH CHROME-PLATED FINISH. INTEGRAL CHECK SUPPLY KIT, FAUCET, PIPE TO COMPRESSION CONNECTION, 3/8" I.P.S X 3/8" O.D CONNECTION. SHALLOW WALL FLANGE. LOOSE KEY HANDLE. FULL TURN BRASS STEM, 305 MM (12") CHROME-PLATED RISERS, PURPLE EPDM PEROXIDE CURED WASHERS, CODES AND COMPLIANCES: NSF/ANSI 61 & 372, UPC
- MCGUIRE 8903C P-TRAP HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 349 MM (13-3/4") LENGTH, WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, SEAMLESS TUBULAR BRASS
- BEND. SLIPNUTS LAWLER TMM-1070-87500 MIXING VALVE - THE POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, LEAD FREE BRASS BODY CONSTRUCTION, THE TEMPERATURE ADJUSTING DIAL IS LOCATED ON THE COLD INLET. TURNING THE DIAL CLOCKWISE WILL LOWER THE OUTLET TEMPERATURE. TURNING THE DIAL COUNTER-CLOCKWISE WILL RAISE IT. THE VALVE CANNOT BE ADJUSTED ABOVE ITS SHUT-OFF TEMPERATURE OF 120F, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, COMPRESSION FITTING, 84 MM (3-5/16") HIGH, ASSE 1070 APPROVED ASSE LEAD FREE CERTIFIED FOR ASSE 1070 APPLICATIONS, 3/8" MNPT (9.5 MM) INLET. 3/8" MNPT (9.5 MM) OUTLET, INTEGRAL RUBBER DUCK-BILL BACKFLOW CHECKS, HIGH TEMPERATURE LIMIT STOP. 125 PSI MAX SUPPLY PRESSURE. AUTOMATICALLY SHUTS DOWN FLOW OF WATER WHEN TEMPERATURE REACHES 120 °F, 5 PSI MINIMUM OPERATING PRESSURE, 140 °F MAX, 118 °F ±3 °F, PROTECTS AGAINST SCALDING AND

#### CS#2 - UNDERMOUNT SINGLE BOWL SINK

COMPLIANT, CSA B45.4 COMPLIANT.

CHILLING, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI

- FRANKE COMMERCIAL UCS6808P-1 SINK SINGLE COMPARTMENT SINK, KITCHEN SINK, WITH OVERALL DIMENSION 508 MM (20") LONG, 460 MM (18-1/8") WIDE, 203 MM (8") HIGH, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL. BOWL DIMENSIONS ARE 45 MM (18") LONG, 406 MM (16") WIDE, 203 MM (8") DEEP, POLISHED TO #4 SATIN FINISH, CENTER BACK WASTE LOCATION, 38 MM (1-1/2") (DN38) BRASS TAILPIECE, STANDPIPE WITH GUARD, 89 MM (3-1/2") CRUMB CUP STRAINER, UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, CODES AND COMPLIANCES: ASME A112.19.3
- DXV D35404300.100 FAUCET ETRE™, COUNTER MOUNTED, MANUAL, SINGLE HANDLE, SINK FALICET POLISHED CHROME FINISH SINGLE HOLF CENTERSET LEAD FREE ANSI/NSE 61 COMPLIANT, LEAD FREE BRASS CONSTRUCTION, INTEGRAL CHECK VALVE, STAINLESS STEEL FLEXIBLE LINES, CERAMIC DISC CARTRIDGE, 6.8 LPM (1.8 GPM) MAXIMUM FLOWRATE, SPRAY OUTLET, HIGH-ARC SPOUT, PULL DOWN, 216 MM (8-1/2") SPOUT REACH, 454 MM (17-7/8") HIGH, LEVER HANDLE.
- MCGUIRE LFCK165LK SUPPLY ICV DEFENDER, LEAD FREE, WITH CHROME-PLATED FINISH, INTEGRAL CHECK SUPPLY KIT, FAUCET, PIPE TO COMPRESSION CONNECTION, 3/8" I.P.S X 3/8" O.D CONNECTION. SHALLOW WALL FLANGE. LOOSE KEY HANDLE. FULL TURN BRASS STEM, 305 MM (12") CHROME-PLATED RISERS, PURPLE EPDM PEROXIDE CURED WASHERS, CODES AND COMPLIANCES: NSF/ANSI 61 & 372, UPC
- MCGUIRE 8903C P-TRAP HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 349 MM (13-3/4") LENGTH, WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, SEAMLESS TUBULAR BRASS
- LAWLER TMM-1070-87500 MIXING VALVE THE POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, LEAD FREE BRASS BODY CONSTRUCTION, THE TEMPERATURE ADJUSTING DIAL IS LOCATED ON THE COLD INLET TURNING THE DIAL CLOCKWISE WILL LOWER THE OUTLET TEMPERATURE. TURNING THE DIAL COUNTER-CLOCKWISE WILL RAISE IT. THE VALVE CANNOT BE ADJUSTED ABOVE ITS SHUT-OFF TEMPERATURE OF 120F, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, COMPRESSION FITTING, 84 MM (3-5/16") HIGH, ASSE 1070 APPROVED ASSE LEAD FREE CERTIFIED FOR ASSE 1070 APPLICATIONS, 3/8" MNPT (9.5 MM) INLET, 3/8" MNPT (9.5 MM) OUTLET, INTEGRAL RUBBER DUCK-BILL BACKFLOW CHECKS, HIGH TEMPERATURE LIMIT STOP. 125 PSI MAX SUPPLY PRESSURE. AUTOMATICALLY SHUTS DOWN FLOW OF WATER WHEN TEMPERATURE REACHES 120 °F. 5 PSI MINIMUM OPERATING PRESSURE, 140 °F MAX, 118 °F ±3 °F, PROTECTS AGAINST SCALDING AND

#### CHILLING, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI WC#1 – FLOOR MOUNTED TANK TYPE ELONGATED TOILET

COMPLIANT, CSA B45.1 COMPLIANT.

- AMERICAN STANDARD 215AA054.020 TOILET CADET® PRO™. TANK TYPE TOILET. FLOOF MOUNTED WITH FLOOR OUTLET, LOW CONSUMPTION 6.0 LPF (1.6 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN® ANTIMICROBIAL SURFACE, ELONGATED BOWL, RIGHT HEIGHT® RIM AT 419 MM (16-1/2"), MINIMUM 305 MM (12") ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, SIPHON JET FLUSH ACTION, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381231-200.0020A). TANK WITH AQUAGUARD LINER. WITHOUT TANK COVER LOCKING DEVICE, GRAVITY-ASSISTED FLUSH, CADET® FLUSHING SYSTEM, 76 MM (3") FLUSH VALVE, METAL SHANK FILL VALVE, TANK COUPLING COMPONENTS, 229 X 203 MM (9" X 8") WATER SURFACE AREA, FULLY-GLAZED 54 MM (2-1/8") TRAPWAY, POWERWASH™ RIM SCRUBS BOWL WITH PRESSURIZED WATER EVERY FLUSH, INCLUDES EZ-INSTALL TOOLS, TRADE EXCLUSIVE TANK, TOILET SEAT NOT INCLUDED, COLOUR-MATCHED BOLT CAPS, 441 MM (17-3/8") WIDE, 765 MM (30-1/8") FROM FINISHED WALL, 772 MM (30-3/8") HIGH COMPLIANCES: ASME A112.19.2
- CENTOCO 600-001 SEAT FOR ELONGATED BOWL, CLOSED FRONT, LIGHT DUTY, FOR COMMERCIAL APPLICATIONS, POLYPROPYLENE, TOILET SEAT, WITH SEAT COVER, TOP-MOUNTED HINGES, SPECIFIED IN WHITE FINISH, INCLUDES PLASTIC HARDWARE, DIMENSIONS:22 MM (7/8") HIGH, 381 MM (15") WIDE
- MCGUIRE LFBV172 SUPPLY LEAD FREE, 127 MM (5") LENGTH, CONVERTIBLE QUARTER-TURN SUPPLY, CHROME-PLATED FINISH, TWO 13 MM (1/2") COPPER SWEAT X 10 MM (3/8") OUTER Ø BRASS BALL VALVE, 304 MM (12") COPPER FLEXIBLE RISERS, CONVERTIBLE LOOSE KEY HANDLE, TOILET, 2 DEEP BELL FLANGE

#### SH#1 – 3-PIECE ACRYLIC SHOWER LH/RH TO SUIT DRAWINGS – LESS SEAT

- MIROLIN MADISON 5 3 PIECE ACRYLIC SHOWER SH53L/R, 1524 MM X 870 MM X 2146MM (60" X 34 ½" X 84 ½"), VACUUM FORMED ACRYLIC REINFORCED WITH FIBREGLASS, SCRATCH/STAIN/FADE RESISTANT HIGH GLOSS FINISH, LESS SEAT, 4 SHELVES, STAINLESS STEEL GRAB BAR 1 ¼" DIA. POWDER COATED WHITE AND FACTORY INSTALLED WITH CONCEALED MOUNTING, FASTER ASSEMBLY WITH THE "SNAP-FIT" SYSTEM (3-PIECES), FD2 CHROME DRAIN INCLUDED, BUILT IN 1" TILE FLANGE ON 3 SIDES, PATTERNED
- BOTTOM COMPLETE AMERICAN STANDARD T075.507.002 COMPLETE SHOWER TRIM - PRESSURE BALANCE BATH/SHOWER FITTING, POLISHED CHROME FINISH, SHOWER TRIM KIT WITH WATER SAVING SHOWERHEAD (1.75 GPM (6.6 LPM) FLOWRATE), 1.75 GPM (6.6 LPM) SHOWERHEAD FLOWRATE {WHEN SELECTED AS BATH/SHOWER TRIM KIT OR SHOWER TRIM KIT}, PLASTIC WALL ESCUTCHEON, METAL LEVER HANDLE, PRESSURE BALANCE, FOR USE WITH R111 SERIES PRESSURE BALANCE VALVES, MEETS THE AMERICAN DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR THE PHYSICALLY CHALLENGED,
- ANSI A117.1, ASSE 1016, ASME A112.18.1, CSA B125.1 AMERICAN STANDARD R111SS SHOWER VALVE - WITH SCREWDRIVER STOPS, CAST BRASS BODY, SHOWER VALVE, PRESSURE BALANCE ROUGH VALVE BODY ONLY, LESS TRIM. WASHER-LESS CERAMIC DISC VALVE CARTRIDGE WITH BACK-TO-BACK CAPABILITY. PRESSURE BALANCING CARTRIDGE MAINTAINS CONSTANT OUTPUT TEMPERATURE IN RESPONSE TO CHANGES IN RELATIVE HOT AND COLD SUPPLY PRESSURE, ONE-HALF" INLETS AND OUTLETS, UNIVERSAL INLETS/OUTLETS, CYCLES FROM IN OFF" TO IN COLD" TO IN HOT". INTEGRATED CHECK VALVES, HOT LIMIT SAFETY STOP, ROUGH-IN PLASTER GUARD DESIGNED FOR USE AS THIN-WALL MOUNTING ADAPTOR, ASSE 1016, ASME

## PART 30 TESTING, ADJUSTING, AND BALANCING FOR HVAC SYSTEMS

A112.18.1, CSA B 125

- CONTRACTOR TO CARRY SERVICES OF AIR BALANCING SUBCONTRACTOR IN TENDER PRICE FOR WORK OUTLINED IN CONTRACT DOCUMENTS.
- SUBMIT AIR BALANCING REPORT TO ENGINEER FOR REVIEW AND ACCEPTANCE UPON COMPLETION OF BALANCING.

#### PLUMBING GENERAL NOTES:

- 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.
- 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
- 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
- ALL EXPOSED PIPING IN OCCUPIED AND FURNISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEONS AT PIPE ENTRY INTO SPACE. ESCUTCHEONS TO COMPLETELY COVER ALL PENETRATIONS THROUGH
- 8. 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 CARRY ALL COSTS.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. ALL CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING SHALL BE PROTECTED WITH AN ISOLATION. DIELECTRIC UNION/COUPLING.
- 13. FIRE-STOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRE STOPPING SYSTEM/MATERIALS.

14. PROVIDE A METHOD OF ISOLATION IE. BALL VALVES, FOR ALL DOMESTIC HOT AND COLD WATER BRANCHES OFF THE

16. ALL FIXTURES AND DEVICES ASSOCIATED WITH DOMESTIC HOT AND COLD WATER TO MEET NSF/ANSI STANDARD 61

- MAIN. ENSURE ADEQUATE ACCESS PROVIDED FOR ISOLATION DEVICES AS INDICATED ABOVE. 15. ALL PIPING, INSULATIONS, SANITARY AND VENT LINES RUN IN A PLENUM SPACE SHALL BE RATED FOR SUCH DUTY.
- 17. PRIME ALL FLOOR DRAINS TO NEAREST COLD WATER LINE COMPLETE WITH LEAD FREE TRAP PRIMER VALVE.

### PLUMBING DRAWING NOTES

- CONTRACTOR SHALL CONFIRM AND COORDINATE RECONNECTION OF HOT. COLD.
- SANITARY AND VENT FOR NEW PLUMBING FIXTURES (P2) CONTRACTOR SHALL TERMINATE CONDENSATE LINE 18" ABOVE GRADE WITH COMPLETED SPLASH PAD BELOW. CONCEAL PIPING IN LINESET COVER PAINTED TO
- DISHWASHER SANITARY DISCHARGE INTO CS#1 DRAINAGE COMPLETE WITH SANITARY DISHWASHER WYE. ALL PIPING TO BE CONCEALED IN MILLWORK. (CONTRACTOR SHALL INSPECT EXISTING SANITARY AND VENTING CURRENTLY ROUTED

WITH ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL BULKHEADS REQUIRED.

THROUGH JOIST SPACE BELOW JOIST TO ACCOMMODATE JOIST REPAIRS. CONFIRM AND

PLUMBING FIXTURE SCHEDULE

SIZE

1/2"

1/2"

1/2"

1/2"

1/2"

SANITARY PIPE SIZE VENT PIPE SIZE

1 1/2"

1 1/2"

1 1/2"

1 1/2"

TEMP °F

½" TO ¾"

4" TO 8"

1" TO 1-⅓"

1-1/3" TO 3-1/3'

8" AND ABOVE

PIPE SIZE

1 1/2"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

MINIMUM PIPE INSULATION - PEX PIPE

DOMESTIC C.W.

40-60 °F

RECIRCULATING

105-140 °F

COLD WATER PIPE | HOT WATER PIPE

DOMESTIC H.W.

141-200 °F

1-1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

FIXTURE NAME

WATER CLOSET FLUSH TANK

COUNTER SINK

LAUNDRY TUB

WASHING MACHINE

HOSE BIB

FLOOR DRAIN

MINIMUM PIPE INSULATION - METALLIC PIPE

RECIRCULATING

105-140 °F

1-1/5"

1-1/2"

2. Refer to floor plans for sizing of sanitary and vent piping

DOMESTIC C.W.

40-60 °F

WC#1

CS#1

1. Domestic Type

3. Non-freeeze type

TEMP °F

½" то ¾"

1" TO 1-1/4"

1-<del>1</del>/5" TO 3-<del>1</del>/5"

8" AND ABOVE

4" TO 8"

L Accessories:

PIPE SIZE

COORDINATE TIE IN TO NEW SANITARY LINE IN FIRRED OUT WALL BELOW. CONFIRM

(P3) CONTRACTOR SHALL CONFIRM AND COORDINATE EXACT ROUTING AND TIE-IN OF

### PLUMBING LEGEND

—— · —— DOMESTIC COLD WATER

—— · · · — DOMESTIC HOT WATER

**SANITARY BELOW GRADE** 

— — v — — — VENT ABOVE GRADE

DOMESTIC RECIRCULATED HOT WATER

BALL VALVE

GATE VALVE

CHECK VALVE

MOTORIZED CONTROL VALVE

PRESSURE REDUCING VALVE

THERMOSTATIC MIXING VALVE

STRAINER

PIPE DROP

PIPE RISE

PIPE RISE/DROP

THERMOMETER

PRESSURE GAUGE

PUMP

TEMPERATURE SENSOR

DRAIN CONNECTION

CHEMICAL POT FEEDER

BACKFLOW PREVENTOR

WATER METER

FLOOR DRAIN

ROOF DRAIN

HOSE BIB

WALL HYDRANT

FIRE EXTINGUISHER

**EXISTING TO REMAIN** 

**EXISTING TO BE REMOVED** 

EXISTING TO BE RELOCATED

EXISTING TO BE REPLACED

FIRE EXTINGUISHER C/W CABINET

FUNNEL FLOOR DRAIN

SANITARY CLEANOUT (IN FLOOR)

SANITARY CLEANOUT (IN WALL/CEILING)

UNION

-++

FD⊜

FFD⊜

co ()

co ||-

NOTES

ACCESSORIES

DOMESTIC H.W.

141-200 °F

1-1/2"

1-1/5"

1-1/2"

BALANCING VALVE

SANITARY ABOVE GRADE

TRUE NORTH PROJECT NORTH THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST BE REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR T COMMENCEMENT OF CONSTRUCTION. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALI SITE CONDITIONS BEFORE PROCEEDING WITH THE WOR ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL DISCREPANCIES MUST BE REPORTED TO THE CONSULTA BEFORE PROCEEDING WITH THE WORK. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS. . 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

**ISSUED FOR** 





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

**ESPRIT WOMEN'S** SHELTER

Drawing Title:

MECHANICAL PLUMBING LEGEND, NOTES, SCHEDULE AND SPECS

22-033B

roject Status:

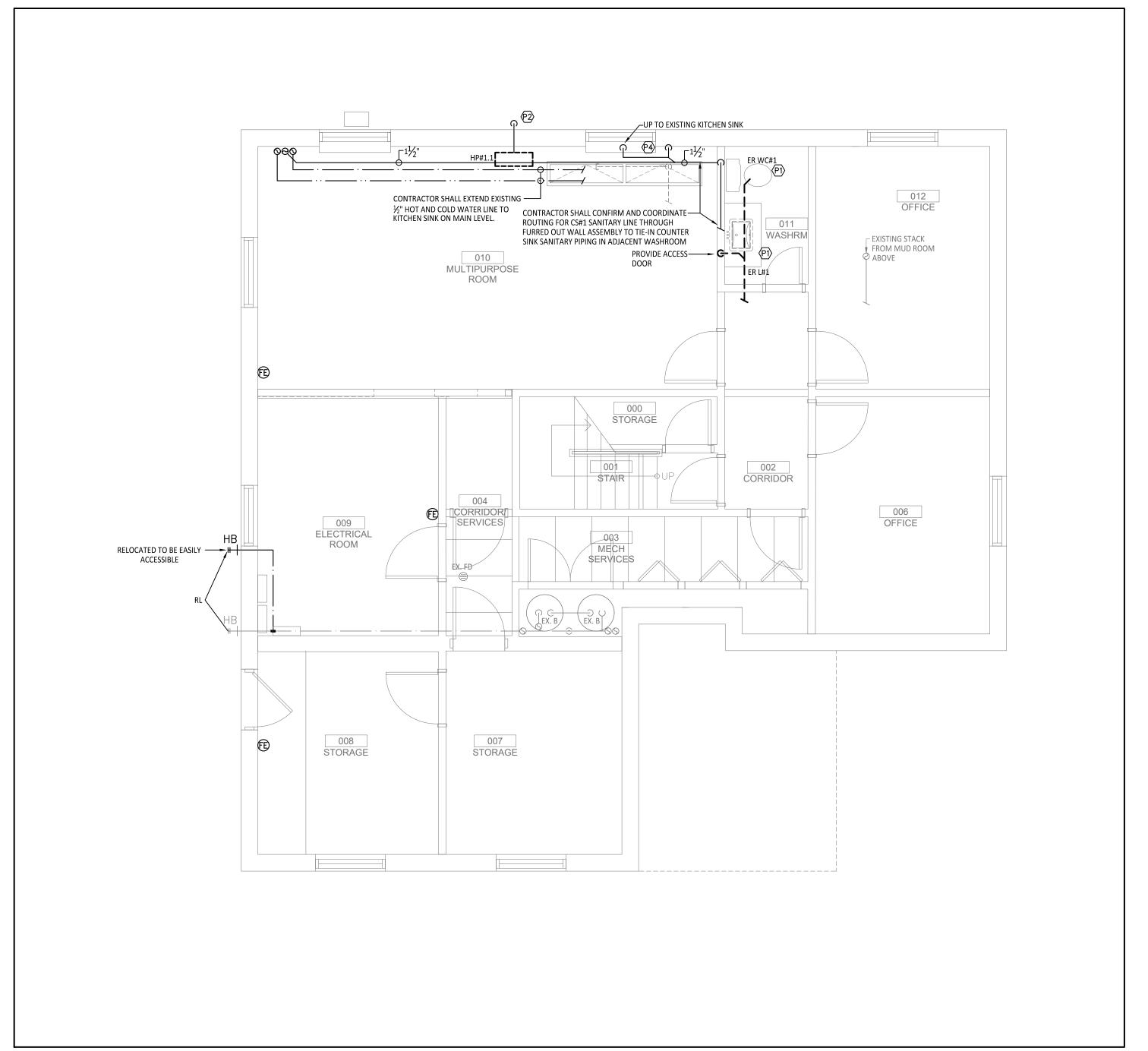


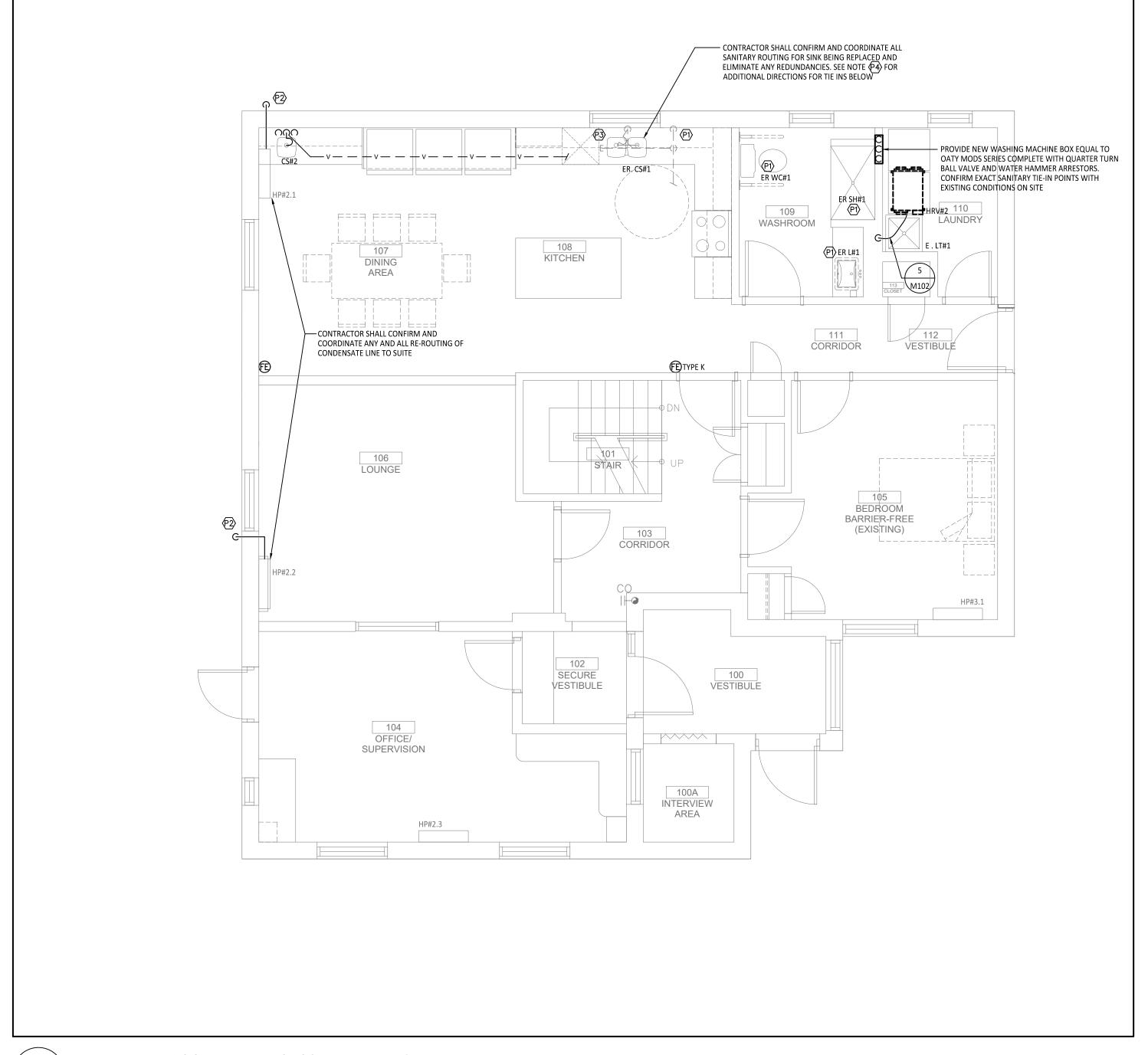
Suppa Engineering

BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Project No:

Drawn By: ZZ Date: Mar. 8, 24 Checked By: BW Scale: 1/4" = 1' - 0" Drawing No:





BASEMENT - FLOOR PLAN - PROPOSED PLUMBING

MAIN LEVEL - FLOOR PLAN - PROPOSED PLUMBING

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

TRUE NORTH PROJECT NORTH

GENERAL NOTES:

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

5. DO NOT SCALE THE DRAWINGS.

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SUPPA

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

**ESPRIT WOMEN'S** SHELTER **RENOVATION** 

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:

MECHANICAL PLUMBING FLOOR PLAN

Project No:

22-033B

Drawn By: zz Date: Mar. 8, 24 Checked By: BW | Scale: 1/4" = 1' - 0"

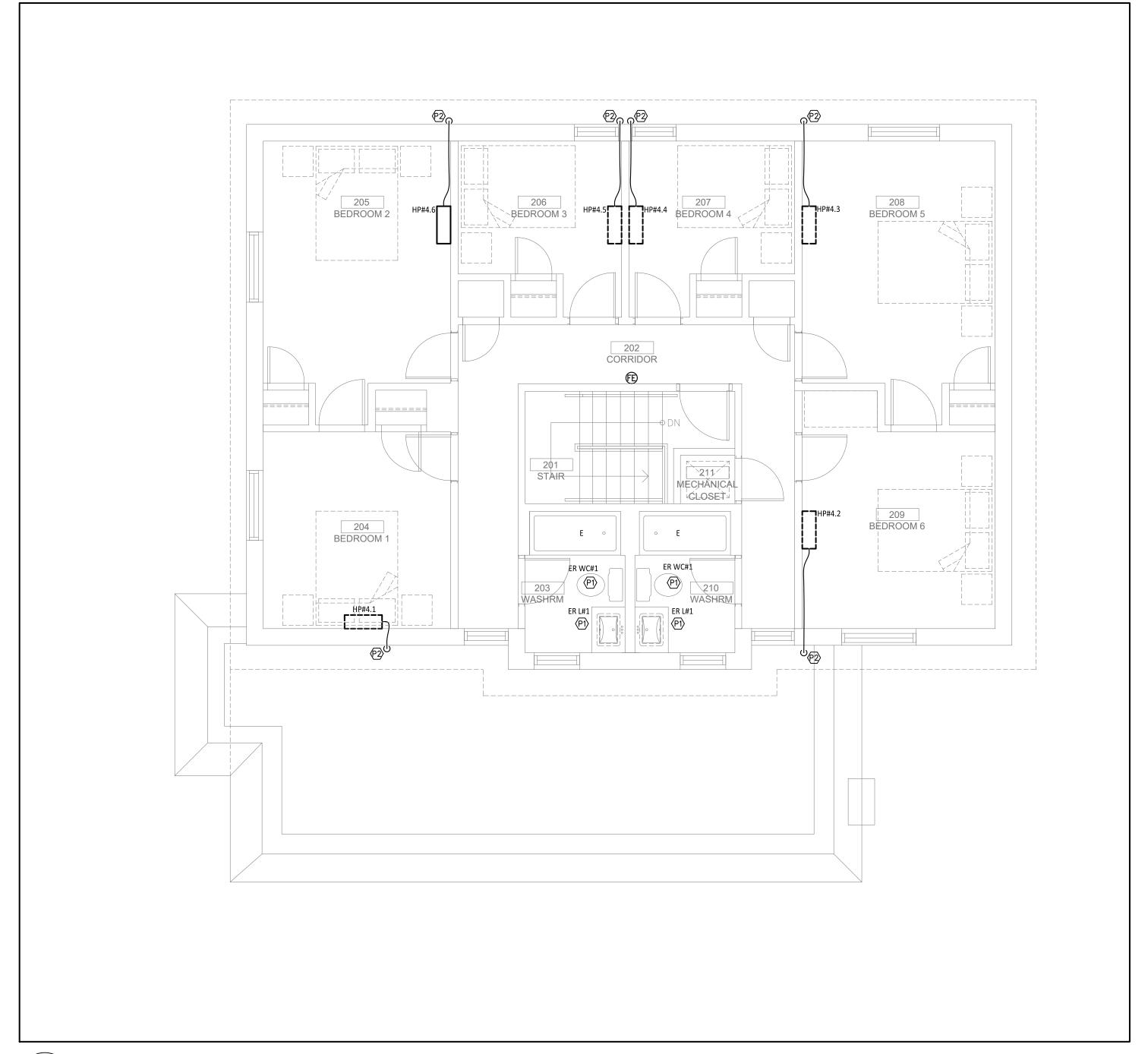
PLUMBING DRAWING NOTES:

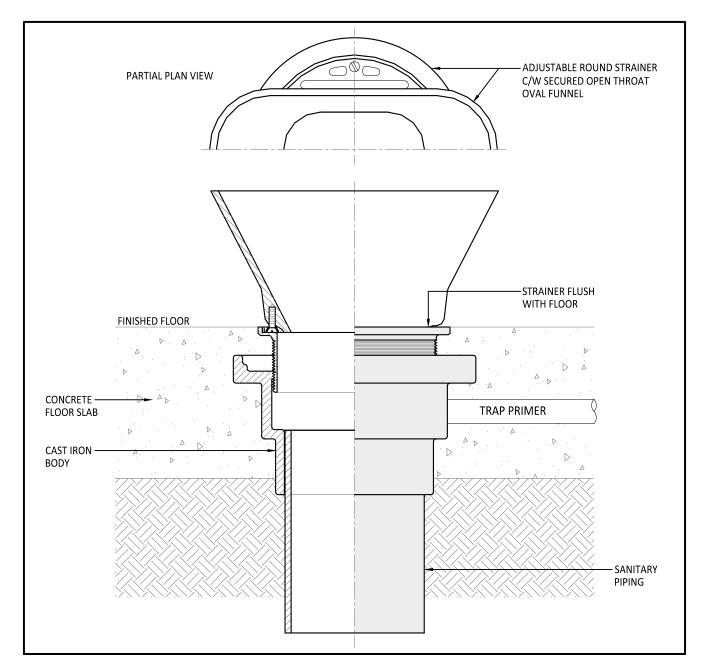
CONTRACTOR SHALL CONFIRM AND COORDINATE RECONNECTION OF HOT, COLD, SANITARY AND VENT FOR NEW PLUMBING FIXTURES.

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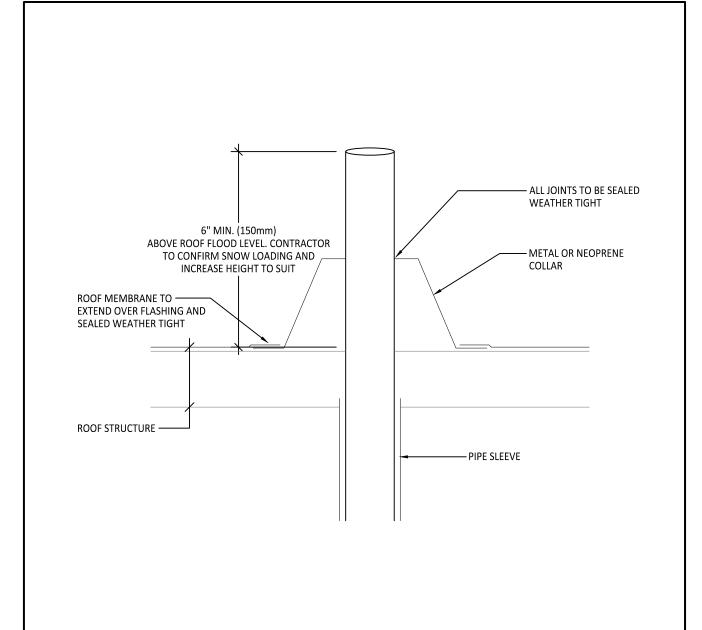
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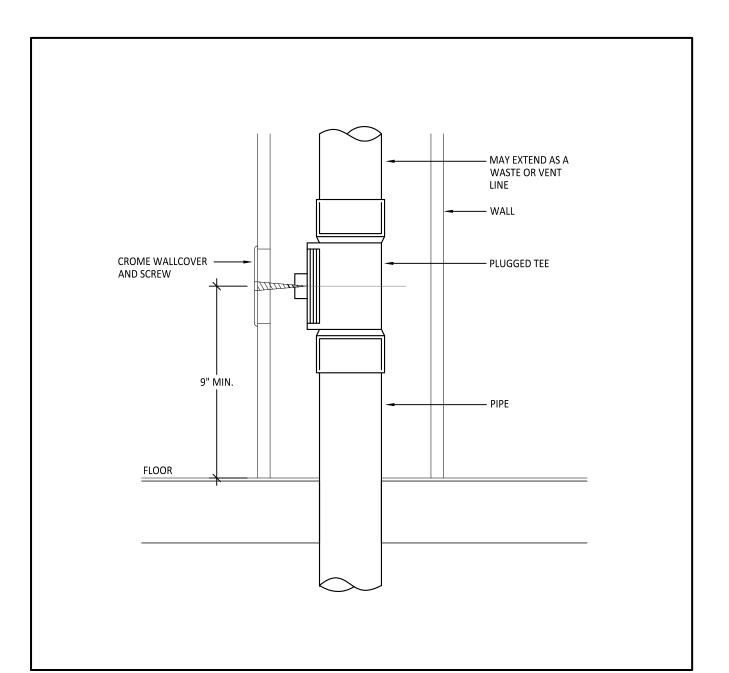




FUNNEL FLOOR DRAIN INSTALLATION DETAIL SCALE: N.T.S.

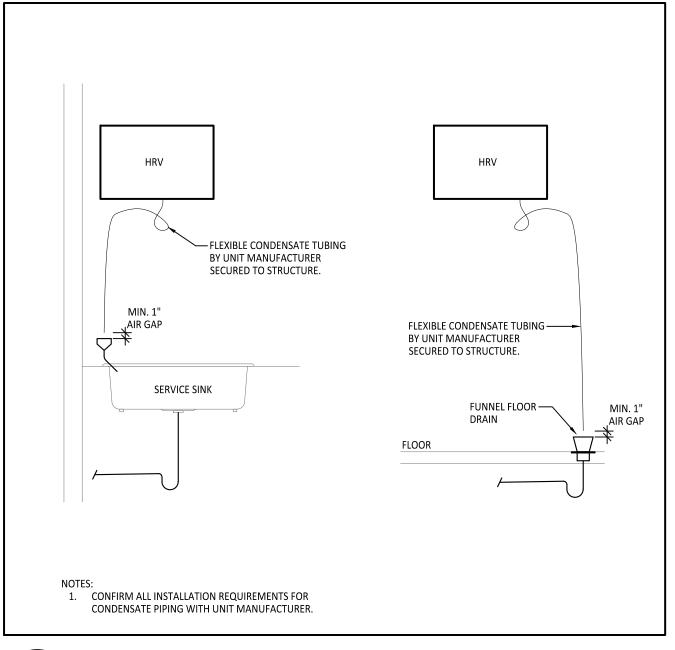


VENT THRU FLAT ROOF INSTALLATION DETAIL

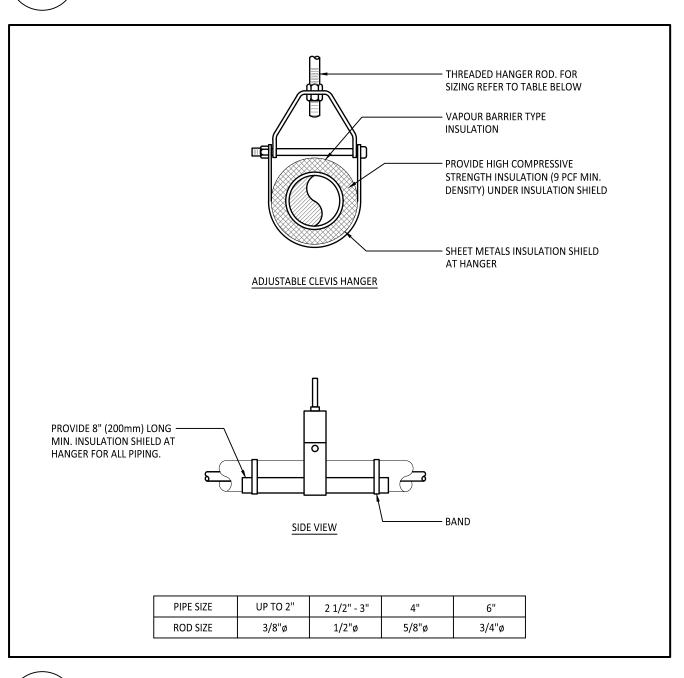


WALL CLEANOUT INSTALLATION DETAIL

SCALE: N.T.S.



Typical HRV Condensate Piping Installation



TYPICAL PIPE HANGER SUPPORT DETAIL

PROJECT NORTH TRUE NORTH

GENERAL NOTES:

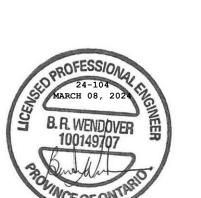
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5. DO NOT SCALE THE DRAWINGS.

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**ESPRIT WOMEN'S** SHELTER **RENOVATION** 

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title: MECHANICAL PLUMBING FLOOR PLAN AND DETAILS

Project No:

22-033B

Drawn By: ZZ Date: Mar. 8, 24 | Checked By: BW | Scale: 1/4" = 1' - 0"

M102

PLUMBING DRAWING NOTES: CONTRACTOR SHALL CONFIRM AND COORDINATE RECONNECTION OF HOT, COLD, SANITARY AND VENT FOR NEW PLUMBING FIXTURES.

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

CONTRACTOR SHALL TERMINATE CONDENSATE LINE 18" ABOVE GRADE WITH COMPLETED SPLASH PAD BELOW. CONCEAL PIPING IN LINESET COVER PAINTED TO MATCH EXTERIOR

(F3) CONTRACTOR SHALL CONFIRM AND COORDINATE EXACT ROUTING AND TIE-IN OF DISHWASHER SANITARY DISCHARGE INTO CS#1 DRAINAGE COMPLETE WITH SANITARY DISHWASHER WYE. ALL PIPING TO BE CONCEALED IN MILLWORK.

UPPER LEVEL - FLOOR PLAN - PROPOSED PLUMBING

CONTRACTOR SHALL INSPECT EXISTING SANITARY AND VENTING CURRENTLY ROUTED THROUGH JOIST SPACE BELOW JOIST TO ACCOMMODATE JOIST REPAIRS. CONFIRM AND COORDINATE TIE IN TO NEW SANITARY LINE IN FIRRED OUT WALL BELOW. CONFIRM WITH ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL BULKHEADS REQUIRED.

	EXHAUST FAN SCHEDULE											
TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. in W.C.	SONES	MOTOR AND ELECTRICAL INFORMATION	NOTES	ACCESSORIES				
EF#1	JENCO FAN	L100L	100	0.25	1.3	120V / 87W	1	A,B,D				
EF#2	JENCO FAN	L100L	100	0.25	1.3	120V / 87W	1	A,B,D				
EF#3	BROAN	BTX 130SS	200	0.15	7.0	120V / SP / 1.3A	2	B,C				
EF#4	NUTONE	6950	70	0.10	4.0	120V / SP / 1.5A	1	A,B,E				
EF#5	NUTONE	6950	70	0.10	4.0	120V / SP / 1.5A	1	A,B,E				
Notes:		•	•									
1 Fan Con	trol Connected to line voltage of	occupancy sensor by	Electrical Contra	ıctor								

Fan Control Connected to line voltage occupancy sensor by Electrical Contractor

2. Contractor to coordinate color with Architect

B: Spring loaded back draft damper, disconnect switch, vibration isolators.

C: Wall cap equal to Broan Nutone Model 369, colour black

D: Wall cap equal to Broan Nutone Model 843BL, colour black

A: Speed controller mounted on fan for balancing purposes

E: Wall cap equal to Broan Nutone Model 885BL, colour black

	DIFFUSER AND GRILLE SCHEDULE								
TAG	MANUFACTURER	DESCRIPTION	MODEL	OVERALL SIZE	NECK SIZE	NOTES	ACCESSORIES		
1	NAILOR	ALUMINUM DOUBLE DEFLECTION SUPPLY AIR GRILLE	51DH	8"x4"	TO MATCH DUCT SIZE	1	A,B		
2	NAILOR	ALUMINUM FIXED 45° SINGLE DEFLECTION RETURN AIR GRILLE	5145H	8"x6"	TO MATCH DUCT SIZE	1	A,B		
Notes:									

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

Accessories: A: Opposed blade damper

B: Transition collar

	HEAT/ENERGY RECOVERY VENTILATOR SCHEDULE										
TAG	MANUFACTURER	MODEL	E.S.P. in W.C.	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	MOTOR /POWER REQUIREMENTS	PERFORMANCE @ -13°F	NOTES	ACCESSORIES		
ERV#1	LIFEBREATH	METRO 120 ERVD	0.5	115	115	49W 120V SP	49%	1,2	A,B,C,D		
ERV#2	LIFEBREATH	130 ERVD	0.6	125	125	80W 120V SP	65%	1,2	A,B,C,D		
HRV#1	LIFEBREATH	METRO 120D	0.5	120	120	66W 120V SP	68%	1,2	A,B,C,D		
Notes:	•	•	•	•	•	•	•	•	•		

1. Extend 1" condensate drain line to funnel drain c/w 1" air gap 2. Fresh air and exhaust air ductwork to be insulated to unit.

Accessories:

A: Back draft damper on exhaust port

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

D: Provide 1.5kW electric reheat coil complete with discharge air temperature sensor, fan relay, SCR controller, thermal cur out switch, airflow sensor.

						DUCTLES	S SPLIT AIR (	CONDITIONING	/ HEAT P	JMP SCHEDULE								
TAG	MANUFACTURER	MODEL	AIRFLOW CFM	COOLING CAPACITY RANGE Btu/hr	HEATING CAPACITY RANGE Btu/hr	MOTOR /POWER REQUIREMENTS (V/WATTS/Ph)	NOTES	ACCESSORIES	CU/HP TAG	MODEL	COOLING LOAD Btu/hr	HEATING LOAD Btu/hr	SEER	EER	MOTOR /POWER REQUIREMENTS (V/WATTS/Ph)	UNIT WEIGHT	NOTES	ACCESSORIES
HP#1.1	LG	LSN120HSV5	317	12,000	13,600	208V / 60Hz / SP 7.8A	1,2,4	B,E	CU#1	LSU120HSV5	12,000	13,600	22.0	12.5	208V/ 60Hz / SP MCA 10A MOP 15A	79 LBS	4	A,G
EX. HP#2.1	LG	LSN120HSV5	212	12000	13600	208V / 60Hz / SP 0.4A	3,4	С										
EX. HP#2.2	LG	LSN090HSV4	212	9000	10400	208V / 60Hz / SP 0.4A	3,4	С	EX. CU#2	LMU30CHV	30000	32000			208V / 60Hz / SP 13.93A MCA 16.6A MOP 25A	137 LBS		
EX. HP#2.3	LG	LSN090HSV4	212	9000	10400	208V / 60Hz / SP 0.4A	3,4	В										
EX. HP#3.1	LG	LSN090HSV4	212	9000	10400	208V / 60Hz / SP 0.4A	3,4	В	EX. CU#3	LSU120HSV5	13785	22178	22.7	12.5	208V / 60Hz / SP 7.4A MCA 10A MOP 15A	74.1 LBS		
HP#4.1	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F										
HP#4.2	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F										
HP#4.3	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F	CUMA	ADUNOMOSSA	24,000	27,000	17.00	10.70	208V / 60HZ / SP	450 LDC		A,D,G
HP#4.4	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F	CU#4	ARUN024GSS4	24,000	27,000	17.00	10.70	MOP 30.0A MCA 19.6A	159 LBS	4	A,D,G
HP#4.5	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F										
HP#4.6	LG	ARNU053SJA4	230	5,490	6,260	208V / 60Hz / SP 0.25A	1,2,4	B,E,F										

1. Provide backing/structural support for unit as per manufactures installation instructions.

2. Extend 1" ridgid CPVC condensate line through exterior wall. Conceal piping in line set, confirm colour with architect.

3. Contractor shall confirm temperature shutdown as required to suit renovation and clean filter prior to start up.

4. Contractor shall install as per manufactuer's installation requirements and refrigeration lines to be sized by unit manufacturer.

Accessories: A: Weather proof disconnect switch

B: Provide programmable wall control PREMTB100 and all required control wiring, confirm and coordinate interlock with auxiliary baseboard heat. Provide all associated relays, transformers, etc. required. Baseboard heating to be enabled only when heat pump not able to provide heat.

C: Provide programmable wall control LG PZCWRCG3 and all required control wiring, confirm and coordinate interlock with auxiliary baseboard heat. Provide all associated relays, transformers, etc. required. Baseboard heating to be enabled only when heat pump not able to provide heat.

D: Manufacturer supplied refrigeration piping Y branches

E: Disconnect switch : Condensate pump

G: Exterior wall mounted brackets

#### **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.
- 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 SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- 6. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A METHOD OF SWITCH TO BE SUPPLIED BY MECHANICAL DIVISION, INSTALLED AND WIRED BY ELECTRICAL DIVISION.
- MECHANICAL WORK. ALL CONTROL WIRING TO BE FT6 PLENUM RATED WHERE RUNNING IN RETURN AIR PLENUMS.
- UNLESS OTHERWISE NOTED, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND ASHRAE GUIDELINES.
- 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
- 14. LOCATE HRV CONTROLS, THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND HUMIDITY SENSORS AT 47"
- 15. ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, AS SPECIFIED AND AS PER SMACNA

- GRADE OR OBSTRUCTIONS PREVENT SUFFICIENT PIPE GRADING. PIPING TO BE IPEX SYSTEM XFR PVC PIPING.
- DOORS/PANELS ARE NOT REQUIRED.
- 20. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR- MOUNTED EQUIPMENT, REFER TO SPECIFICATIONS AND DETAILED DRAWINGS REQUIREMENTS
- 21. VERIFY ALL FINISHES AND COLOURS WITH ARCHITECT PRIOR TO PURCHASING ANY/ALL DIFFUSERS, GRILLES,
- REGISTERS, LOUVERS AND DISTRIBUTION DEVICES.
- 23. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS
- PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE
- 26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED AT FULL SIZE TO THE NEAREST PLUMBING DRAIN CONFIRM AND COORDINATE EXACT ROUTING AND LOCATIONS ON SITE.
- 27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL
- AS POSSIBLE PRIOR TO RUNNING FLEX DUCT.
- INSULATION C/W PRIMED AND PAINTED SHEET METAL COVER. SEAL TO MAKE WEATHER TIGHT.
- ACCESS AVAILABLE IF NOT THEN ACCESS TO BE PROVIDED AS PART OF THE SCOPE OF WORK. PROVIDE VOLUME
- - CONFIRM AND COORDINATE EXISTING EF REMOVALS INCLUDING ALL WIRING. SWITCHES, DUCTWORK AND ASSOCIATE WALL CAP. PATCH AND PAIN ANY OPENINGS

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

- EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND
- DISCONNECTION AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND ELECTRICAL DRAWINGS. DISCONNECT
- 7. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE
- 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
- 11. UNLESS OTHERWISE NOTED PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT.
- EQUIPMENT OF ALL TRADES.
- ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE,
- AND DOOR SWINGS.
- GUIDELINES. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- 16. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- 17. PROVIDE 1" CONDENSATE DRAINS FROM ALL AIR CONDITIONING EQUIPMENT, HRV, AHU'S, HUMIDIFIERS. COOLING COILS ETC. TO NEAREST LOCAL DRAIN, GRADE PIPING IN DIRECTION OF DRAIN. PROVIDE CONDENSATE PUMPS WHERE
- 18. 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
- 19. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS ETC. TO ALLOW SMOOTH FLOWS.

- 22. 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
- (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,
- 24. 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.
- 25. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" FROM ANY/ALL PLUMBING VENTS AND EXHAUSTS AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE GOOSENECK ON ROOF SHALL BE A MINIMUM

- HIGH POINTS IN CHILLED AND HOT WATER PIPING. 28. MAXIMUM ALLOWABLE LENGTH OF ALL FLEX DUCT TO BE 10'. RIGID DUCT TO BE AS CLOSE TO AIR TERMINAL DEVICE
- 29. SEAL ANY UNUSED PORTIONS OF INTAKE/EXHAUST LOUVRES, WALL CAPS, ETC. WITH 2 LAYERS OF 2" RIGID
- 30. INSULATE ALL AIR INTAKE DUCTWORK TO EQUIPMENT AND ALL EXHAUST DUCTWORKS A MINIMUM OF 10' FROM EXHAUST LOUVRE.
- 31. PROVIDE BALANCING DAMPERS FOR ALL NEW DUCTWORK THAT HAS BRANCH CONNECTIONS, ENSURE ADEQUATE DAMPERS FOR ALL SUPPLY AIR DIFFUSERS, GRILLES OR REGISTERS AS DETAILED IN THE ASSOCIATED SCHEDULES.
- 32. PROVIDE VIBRATION ISOLATION FOR ALL SUSPENDED EQUIPMENT.

#### **VENTILATION DRAWING NOTES:**

- (VI) 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.
- CREATED BY WORK. ALL REQUIREMENTS TO BE VERIFIED ON SITE.

## **VENTILATION LEGEND**

12"x12"

12"x12"

← UP

REFRIGERANT SUCTION — — RL— — REFRIGERANT LIQUID TRUE NORTH ——— G ——— NATURAL GAS PIPING THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST BE PG—PG—PG—PG—PROPANE GAS PIPING REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR TO COMMENCEMENT OF CONSTRUCTION. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALL

DUCT WITH DIMENSIONS, FIRST DIMENSION

IS SIDE SHOWN

EXISTING DUCT TO REMAIN

DUCT C/W INSULATION

EXISTING DUCT TO BE REMOVED

DUCT C/W ACOUSTIC INSULATION

DUCT WITH CHANGE OF ELEVATION

DUCT TRANSITION, CONCENTRIC

DUCT TRANSITION, ECCENTRIC

DUCT C/W TURNING VANES

RADIUS ELBOW - LONG SWEEP

RADIUS ELBOW - SHORT SWEEP

POSITIVE PRESSURE DUCT

NEGATIVE PRESSURE DUCT

DUCT SECTION UP

DAMPER

FLEX DUCT

**DUCT SECTION DOWN** 

BRANCH TAKE-OFF - C/W BALANCING

BRANCH TAKE-OFF - SQUARE TO ROUND

FLEXIBLE DUCT CONNECTION

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

WALL REGISTER - SUPPLY

WALL REGISTER - RETURN

DIFFUSER WITH FIRE FLAP AND FIRE

MANUAL BALANCING DAMPER

FIRE DAMPER C/W ACCESS DOOR

SMOKE DAMPER C/W ACCESS DOOR

MOTORIZED DAMPER

DUCT TRANSITION, SQUARE TO ROUND

# REVISION SCHEDULE

BEFORE PROCEEDING WITH THE WORK.

APPROVED DRAWINGS. . DO NOT SCALE THE DRAWINGS.

SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK.

. ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL

DISCREPANCIES MUST BE REPORTED TO THE CONSULTAN

. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST

PROJECT NORTH

No.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	JAN. 12, 2024
1	ISSUED FOR TENDER	FEB. 27, 2024
2	ISSUED FOR TENDER	MAR. 08, 2024

Project Status: **ISSUED FOR** 



SUPPA

ENGINEERING

Suppa Engineering

592 Cassells Street North Bay, ON P1B 3Z7 Tel: 705-707-2121

www.suppaengineering.ca

**ESPRIT WOMEN'S** 

SHELTER

**RENOVATION** 

**MECHANICAL** 

VENTILATION

LEGEND, NOTES AND

SCHEDULE

22-033B

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:

BACK DRAFT DAMPER

SOUND ATTENUATOR

IN DUCT HEATING COIL DOOR GRILLE

ACCESS DOOR

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

GAS METER

THERMOSTAT HUMIDISTAT

HRV CONTROLLER

PUSH BUTTON AS NOTED

CO2 SENSOR PRESSURE SENSOR

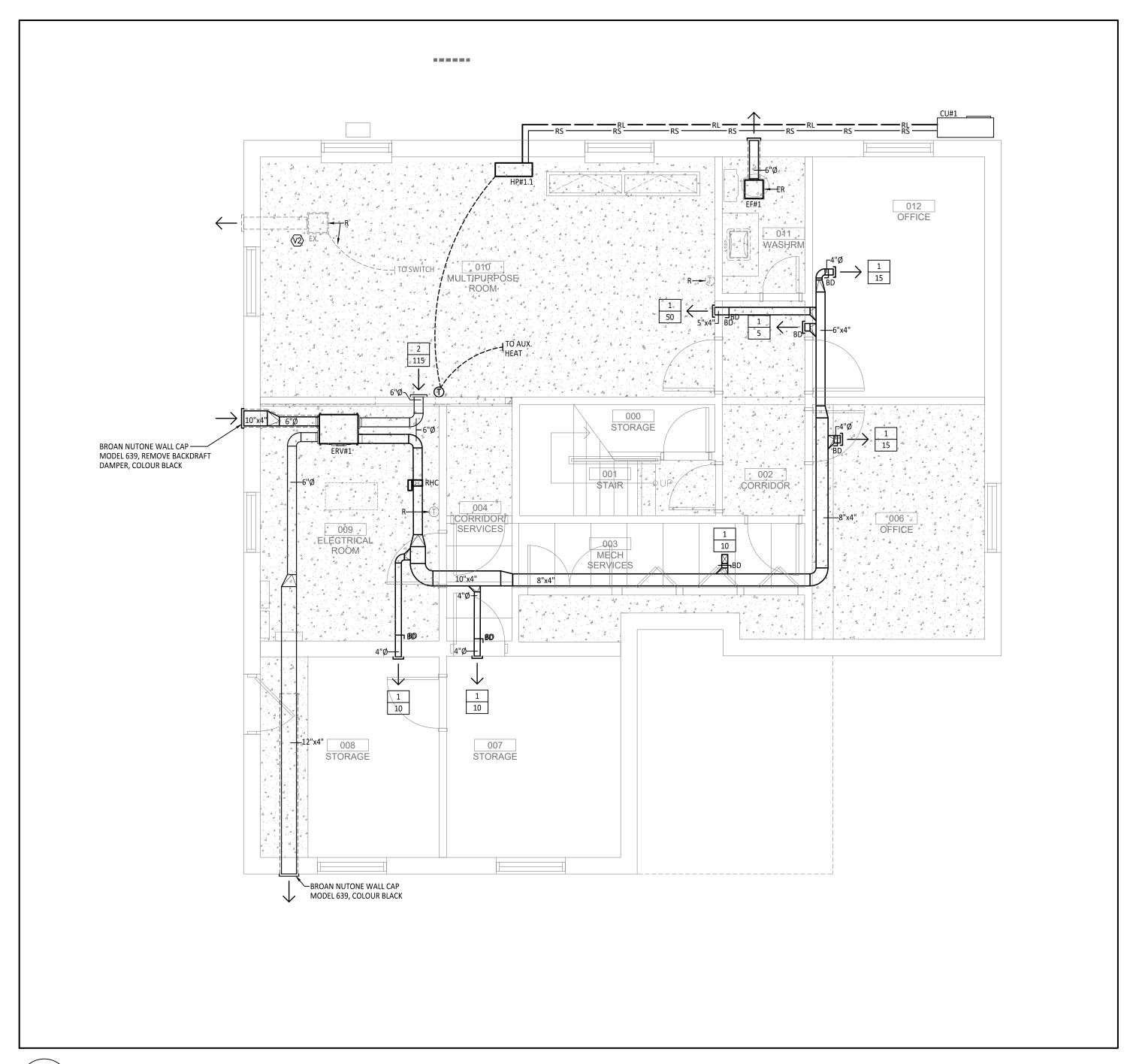
WITH GUARD W/G EXISTING TO REMAIN

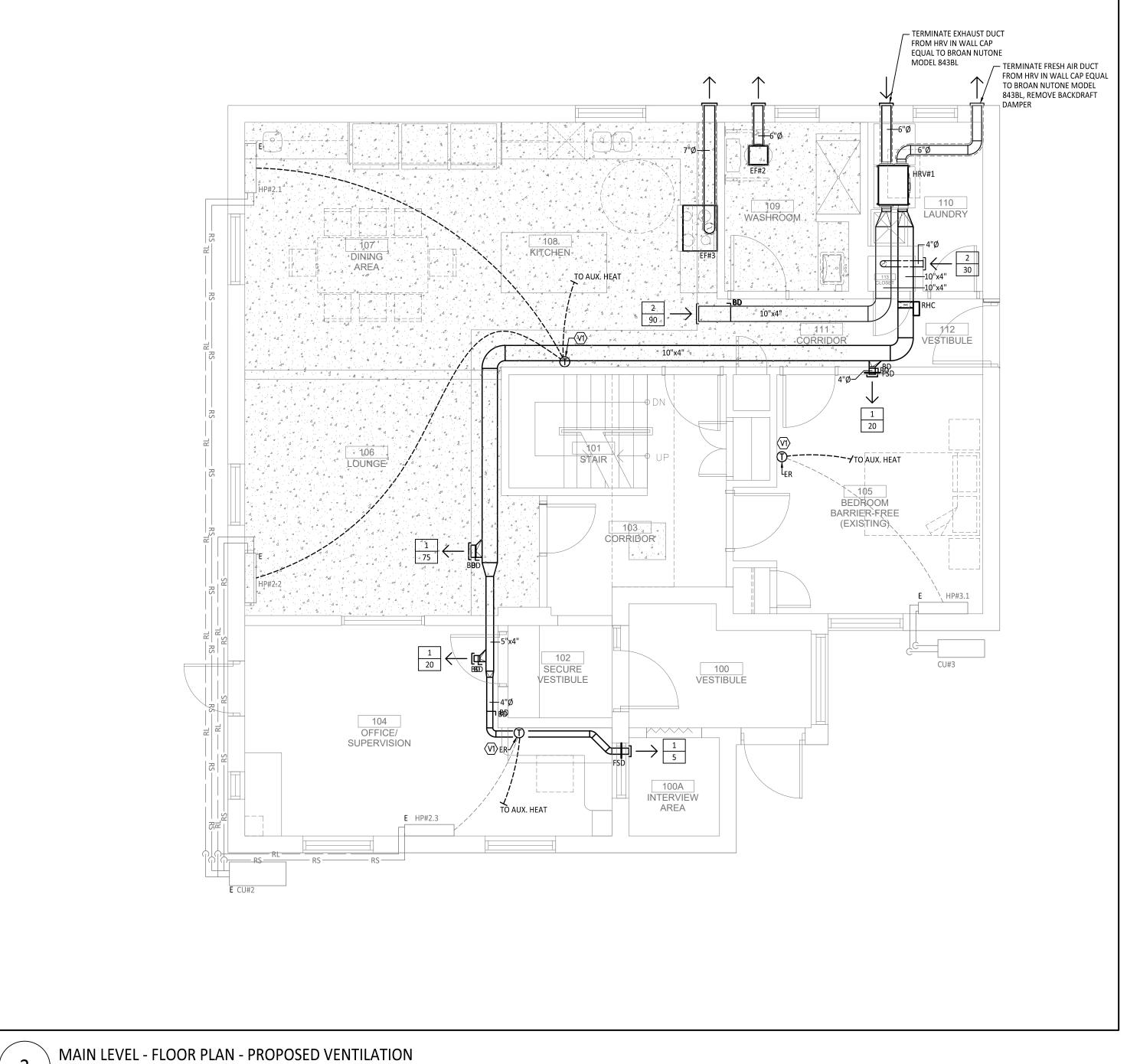
EXISTING TO BE REMOVED EXISTING TO BE RELOCATED

EXISTING TO BE REPLACED

Project No:

Drawn By: ZZ Date: Mar. 8, 24 Checked By: BW | Scale: 1/4" = 1' - 0"





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

**TENDER** 

**ISSUED FOR** 

Project Status:

TRUE 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** 

DESCRIPTION

0 ISSUED FOR REVIEW

ISSUED FOR TENDER

2 ISSUED FOR TENDER

PROJECT NORTH

JAN. 12, 2024

FEB. 27, 2024

MAR. 08, 2024



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

**ESPRIT WOMEN'S** SHELTER RENOVATION

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title: MECHANICAL VENTILATION

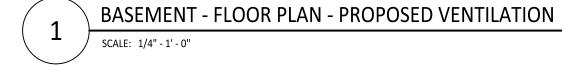
FLOOR PLAN AND NOTES

Project No:

22-033B

Drawn By: zz Date: Mar. 8, 24 | Checked By: BW | Scale: 1/4" = 1' - 0"

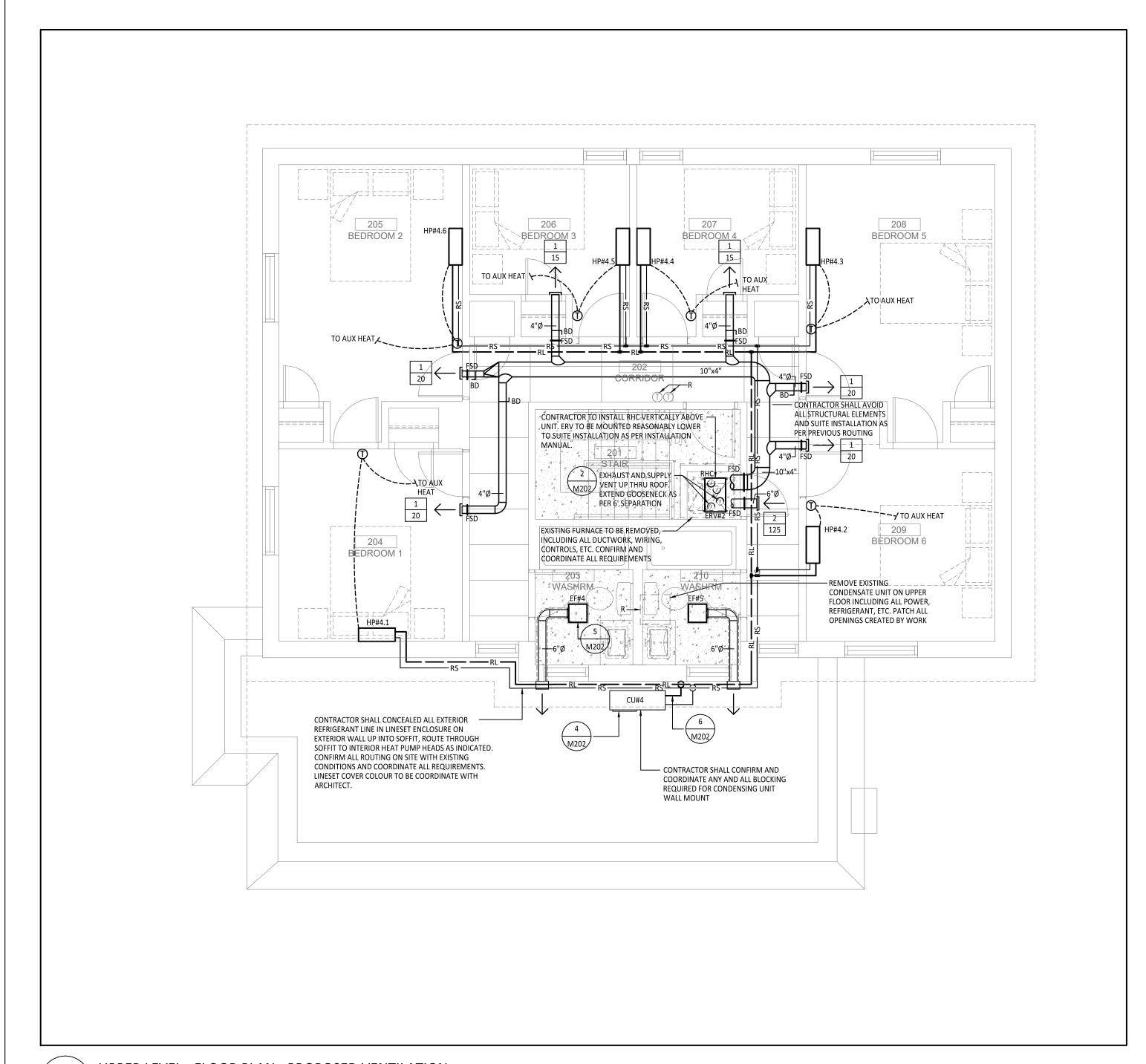
M201



**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.

(2) CONFIRM AND COORDINATE EXISTING EF REMOVALS INCLUDING ALL WIRING, SWITCHES, DUCTWORK AND ASSOCIATE WALL CAP. PATCH AND PAIN ANY OPENINGS CREATED BY WORK. ALL REQUIREMENTS TO BE VERIFIED ON SITE.

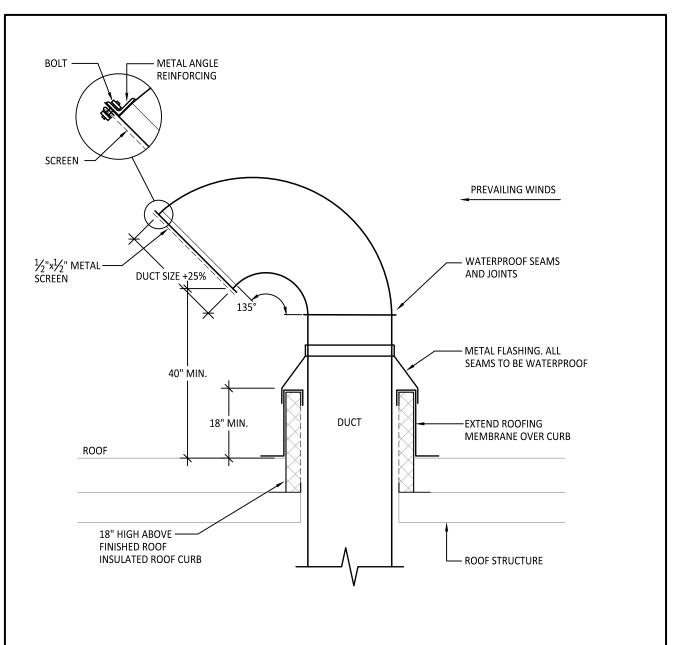


UPPER LEVEL - FLOOR PLAN - PROPOSED VENTILATION

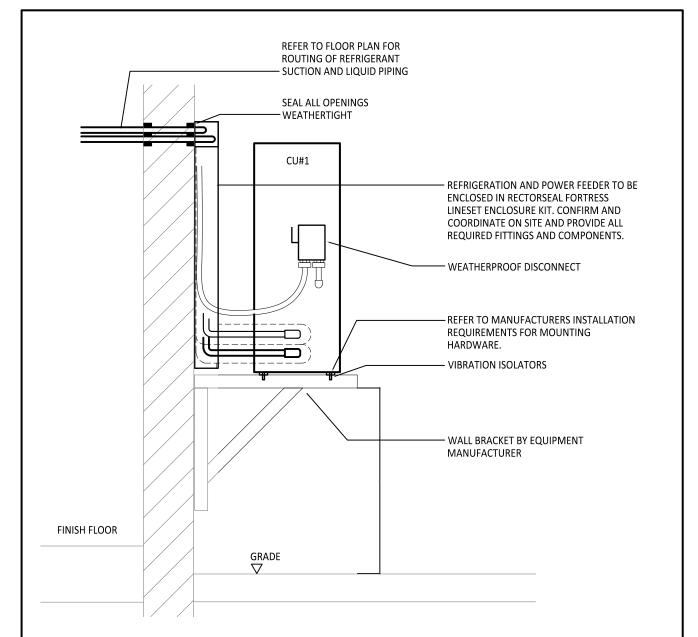
#### **VENTILATION DRAWING NOTES:**

(VI) 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.

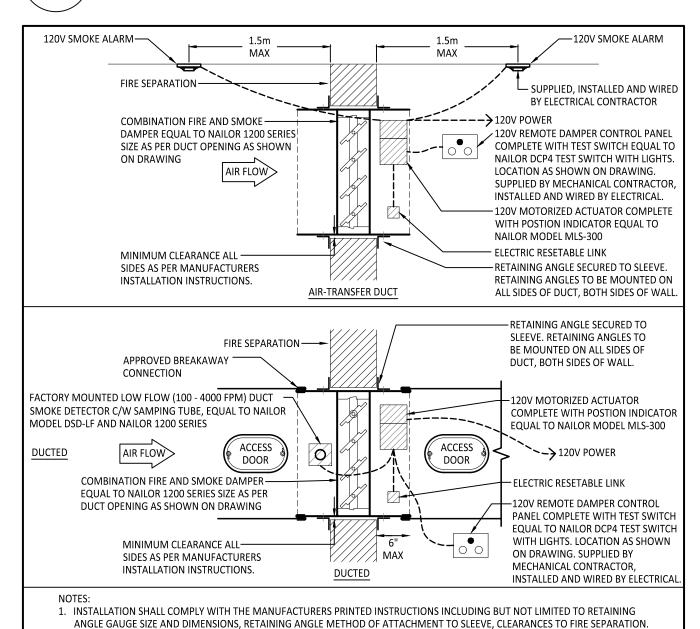
 $\langle \overline{V2} \rangle$  confirm and coordinate existing EF removals including all wiring, SWITCHES, DUCTWORK AND ASSOCIATE WALL CAP. PATCH AND PAIN ANY OPENINGS CREATED BY WORK. ALL REQUIREMENTS TO BE VERIFIED ON SITE.



GOOSENECK INSTALLATION DETAIL



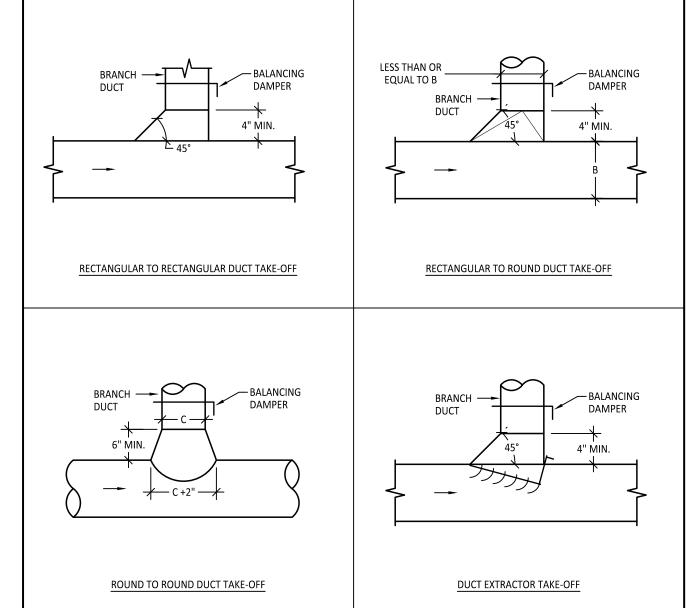
WALL MOUNTED CONDENSING UNIT EQUIPMENT SUPPORT DETAIL



COMBINATION FIRE AND SMOKE DAMPER - INSTALLATION DETAIL

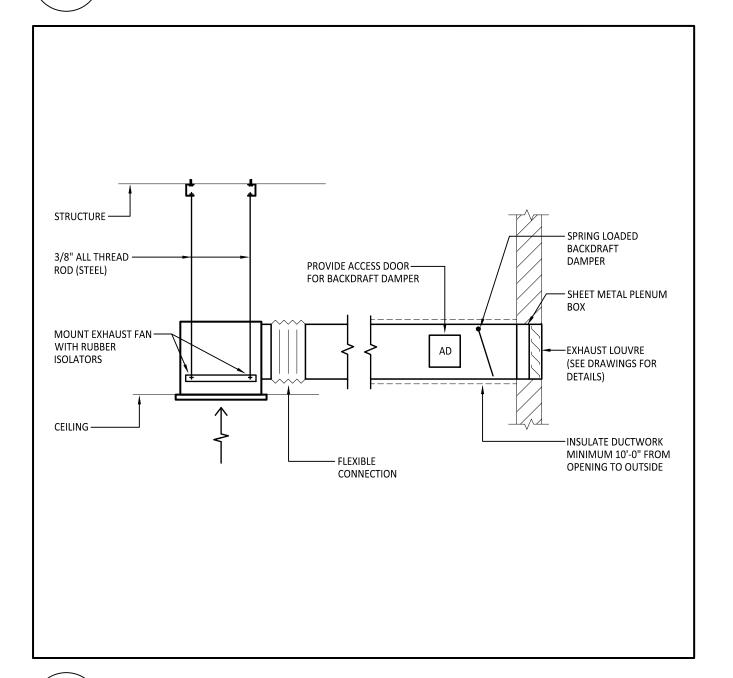
2. DAMPER TO BE CLEAN AND PROTECTED FROM DUST AND FOREIGN MATERIALS PRIOR TO AND AFTER INSTALLATION.

3. ALL EQUIPMENT SHOWN IS TO BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED.



**DUCT TAKE-OFF INSTALLATION DETAIL** 

SCALE: N.T.S.



TYPICAL CABINET EXHAUST FAN INSTALLATION DETAIL

TRUE NORTH PROJECT NORTH

. 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. . OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK . ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL DISCREPANCIES MUST BE REPORTED TO THE CONSULTAN 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

Project Status: **ISSUED FOR TENDER** 



SUPPA ENGINEERING

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

**ESPRIT WOMEN'S** SHELTER **RENOVATION** 

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

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

Project No:

22-033B

Drawn By: ZZ Date: Mar. 8, 24 | Checked By: BW | Scale: 1/4" = 1' - 0"

M202

#### **ELECTRICAL SPECIFICATIONS**

#### GENERAL CONDITIONS

THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOUR,

- A. ELECTRICAL MATERIAL, TOOLS, EQUIPMENT ETC., REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE WORK SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK, THIS CONTRACTOR SHALL PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO
- COMPLETE THE INTENDED INSTALLATION. THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP, ALSO TO CALL FOR ANY TEST WHICH HE/SHE DEEMS NECESSARY DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE AND THE ONTARIO ELECTRICAL SAFETY CODE.

#### SCOPE OF WORK

#### THE WORK SHALL CONSIST OF, BUT NOT BE LIMITED TO THE

- SUPPLY AND INSTALLATION OF LIGHTING FIXTURES, SWITCHES, EXIT AND EMERGENCY BATTERY LIGHT UNITS, TELEPHONE, DATA AND TELEVISION OUTLETS, SECURITY SYSTEM AND RECEPTACLES.
- ALL NECESSARY CONDUIT WIRING AND CONNECTIONS FOR A COMPLETE INSTALLATION.

CODES, PERMIT AND INSPECTION A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL OBTAIN ALL PERMITS, INSPECTIONS, ETC. AS REQUIRED BY ALL

AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND SHALL

PAY FOR THE AFOREMENTIONED. THESE COSTS SHALL BE INCLUDED

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

#### AS-BUILT DRAWINGS

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

#### SHOP DRAWINGS

A. SUBMIT ELECTRONIC COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD. THESE SHOP DRAWINGS SHALL CONSIST OF DISTRIBUTION EQUIPMENT, LIGHTING FIXTURES, EMERGENCY BATTERY UNITS AND OTHER SPECIAL EQUIPMENT.

#### EXAMINATION OF SITE

- A. THIS CONTRACTOR SHALL VISIT THE SITE OF THE PROJECT AND
- FAMILIARIZE HIM/HERSELF. ANY DEVIATION AND/OR CONFLICTS ON SITE ESPECIALLY CONCERNING THE DISTRIBUTION DIAGRAM(S) AS SHOWN ON THE PLANS, SHALL BE REPORTED TO THE ENGINEER PRIOR TO
- SUBMITTING TENDER. ALL DIMENSIONS MUST BE CHECKED AND VERIFIED ON SITE.

#### CONSTRUCTION SCHEDULE

**REVISIONS AND EXTRAS** 

- A. THIS CONTRACTOR SHALL SCHEDULE AND PERFORM HIS WORK TO MEET THE COMPLETION SCHEDULE AS SET OUT BY THE OWNERS'. ANY OVERTIME WORK SHALL BE INCLUDED IN HIS TENDER.
- CONTRACTOR SHALL ADVISE OF ANY SHUTDOWNS OR DISRUPTIONS OF SERVICE WITH A MINIMUM OF 10 WORKING DAYS

#### NO ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL BE PAID LINIESS AN APPROVED CHANGE ORDER IS ISSUED BY THE

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

#### CLEAN UP

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

#### EQUIPMENT AND MATERIAL

ALL EQUIPMENT AND MATERIAL UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. 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 U.L.C. OR C.S.A. LABELS.

- A. PERFORM TEST ON EACH SYSTEM TO THE SATISFACTION OF THE ENGINEER AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF THE WORK
- PANELS SHALL BE BALANCED TO WITHIN 5% OF LOAD PER PHASE. GROUNDING SHALL BE AS REQUIRED BY ELECTRICAL CODE. TEST ALL SYSTEM GROUNDING CONDUCTORS FOR PHASE TO GROUND LOADS, METERS SHALL READ LESS THAN ONE AMPERE.

SUBMIT TESTS PRIOR TO COMPLETION.

#### DEMONSTRATION OF THE SYSTEM

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

#### IDENTIFICATION

- A. PROVIDE LAMACOID IDENTIFICATION NAMEPLATES ON ALL ELECTRICAL EQUIPMENT. THESE SHALL BE WHITE WITH BLACK
- ENGRAVED LETTERS AND SHALL BE INSTALLED WITH SCREWS. LAMACOID TO IDENTIFY EQUIPMENT NAME AND LOAD SERVED. EACH ELECTRICAL PANEL SHALL HAVE A TYPEWRITTEN DIRECTORY, SHOWING LIGHTS OR EQUIPMENT CONNECTED TO EACH CIRCUIT.

DIRECTORIES SHALL BE MOUNTED ON THE INSIDE OF THE PANEL

DOOR WITH A TRANSPARENT PLASTIC COVER. LABEL THE ASSOCIATED CIRCUIT ON EACH RECEPTACLE AND LINE VOLTAGE LIGHT SWITCH WITH 1/2" CLEAR TAPE LABEL.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE INSTALLATION OF EQUIPMENT, CONDUIT WORKS, LIGHTING FIXTURES, ETC. WITH OTHER TRADES PRIOR TO THE ACTUAL INSTALLATION.

- ACCESSIBILITY A. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE
- FOR OPERATION, MAINTENANCE AND REPAIRS. B. A MINIMUM WORKING SPACE OF 1 METER WITH SECURE FOOTING SHALL BE PROVIDED AND MAINTAINED ABOUT ELECTRICAL EQUIPMENT. THE MINIMUM HEAD ROOM OF WORKING SPACES SHALL BE 2.2 METERS.

#### RESPONSIBILITY

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

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

## OPERATIONAL AND MAINTENANCE MANUALS

THE ELECTRICAL CONTRACTOR SHALL PROVIDE TO OWNER 3 COPIES OF OPERATING MANUALS AND MAINTENANCE INSTRUCTIONS FOR ALL ELECTRICAL EQUIPMENT INCLUDING

## GUARANTEES.

A. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE TO BE FIRE STOPPED WITH AN APPROVED FIRE RATING SYSTEM TO SUIT THE FIRE RATED ASSEMBLY. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO COMPLETING WORK.

#### CUTTING, PATCHING, AND PAINT

- A. ALL CUTTING, PATCHING AND PAINTING FOR ELECTRICAL WORK SHALL BE DONE BY THE GENERAL CONTRACTOR. OBTAIN APPROVAL PRIOR TO CUTTING STRUCTURAL MEMBERS, AND UPON REMOVAL OF CONDUITS, WIRING EQUIPMENT, LIGHTING, OR WIRING
- DEVICES. PATCH ALL HOLES AND MATCH EXISTING FINISHES. ALL CEILING TILES DAMAGED DURING CONSTRUCTION TO BE REPLACED WITH MATCHING TILES.

- A. CONDUIT SIZES SHALL BE AS INDICATED ON THE PLANS AND SHALL NOT BE REDUCED IN SIZE WITHOUT AUTHORIZATION, CONDUIT IN FINISHED AREAS SHALL BE CONCEALED, ALL CONDUIT SHALL BE
- INSTALLED PARALLEL TO BUILDING LINES. UNLESS OTHERWISE NOTED, CONDUIT FOR PANELS AND BRANCH CIRCUIT WIRING SHALL BE THIN WALL EMT. CONDUITS SHALL BE INSTALLED AT MINIMUM OF 6" (150mm)
- FROM UN-INSULATED HEATING PIPES. D. ALL WIRING TO BE COPPER RW90 UNLESS NOTED OTHERWISE
- BRANCH WIRING SHALL BE NO.12 AWG UP TO 70 FT. (21.4M) AND NO.10 AWG FROM 71 FT. (21.4M) TO 120FT. (36.6M). FOR DISTANCES LONGER THAN 120 FT, THE VOLTAGE DROP SHALL BE CALCULATED AT 3%. INSTALL ALL WIRING CONCEALED IN CONDUIT. USE BX CARLE IN
- EXPOSED AREAS FOR MAX 3FT LENGTH AND ONLY TO DEAD END FEED SUSPENDED LIGHTING FIXTURES CABLE TIED OFF TO HANGER
- NO CONDUITS SHALL BE RUN IN FLOOR SLAB UNLESS NOTED OTHERWISE, UNDER SLAB RACEWAYS SHALL BE RUN ABOVE PLLIMRING BUT MIN. 150mm BELOW UNDERSIDE OF CONCRETE SLAB C/W SAFETY RIBBON FULL LENGTH.

CONDUIT INSTALLED OUTDOORS OR IN DAMP LOCATIONS SHALL BE

PARTITION WALLS AND IN CEILING SPACE. BX MAY BE USED IN

RIGID PVC AND SHALL BE PROVIDED WITH SEALING FITTING WHERE CONDUIT PASSES THROUGH OUTSIDE WALL AND/OR ROOF. PROVIDE GROUND WIRE, SIZED IN ACCORDANCE WITH OESC TABLE 16. METALLIC RACEWAY AS A MEANS OF GROUNDING/BONDING

#### RACEWAYS

WILL NOT BE ACCEPTED

A. HORIZONTAL RACEWAYS MAY BE RUN UNDER SLAB WITH PERMISSION FROM ENGINEER. SCHEDULE 40 PVC HEAVY WALL RACEWAY TO BE USED. RUN SEPARATE GROUND CONDUCTOR IN ALL PVC RACEWAYS.

- PROVIDE PIPE SLEEVES WHERE CONDUITS PASS THROUGH MASONRY OR CONCRETE.

A. INSTALL CONDUITS OR SLEEVES PRIOR TO POURING CONCRETE.

- PROVIDE STEEL PIPE SLEEVES FOR PENETRATIONS THROUGH FOUNDATION WALLS AND FIRE RATED ASSEMBLIES. D. ALL OTHER SLEEVES TO BE A MINIMUM OF 20 GA. GALVANIZED
- SHEET STEEL. PROVIDE FIRE CAULKING. AS PER MANUFACTURERS RECOMMENDATIONS FOR ALL PENETRATIONS THROUGH FIRE
- RATED ASSEMBLIES. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. CAULK ALL OTHER SLEEVES WITH WATER-PROOF, FIRE RETARDANT,
- NON-HARDENING MASTIC. G. TEMPORARILY PLUG ALL OPENINGS DURING CONSTRUCTION.

- A. SAFETY SWITCHES: SHALL BE HEAVY DUTY, FUSIBLE, QUICK MAKE, QUICK BREAK, VOIDABLE COVER INTERLOCK, LOCKABLE IN "OFF" POSITION WITH NEUTRAL BAR WHERE REQUIRED.
- B. FUSE HOLDERS SHALL BE AS REQUIRED TO SUIT RATING AND TYPE FUSES SPECIFIED.
- SHALL WITHSTAND RATINGS SIX TIMES CONTINUOUS CURRENT BREAK AT RATED VOLTAGE.
- ENCLOSURE SHALL BE NEMA 1 EXCEPT WHERE WEATHER- PROOF SWITCHES ARE REQUIRED, THESE SHALL BE NEMA 3R.
- ALL SWITCHES SHALL BE OF THE SAME MANUFACTURER AND SHALL BE EATON, SQUARE "D", OR SIEMENS.

- A. THE BRANCH PANELS SHALL BE OF THE VOLTAGE INDICATED ON THE DRAWINGS AND SHALL BE COMPLETE WITH BRANCH BREAKERS AS SHOWN OR IMPLIED ON THE PLAN. MAIN BREAKERS TO BE
- PROVIDED WHERE INDICATED. FLUSH OR SURFACE MOUNTED AS INDICATED COMPLETE WITH DOOR LOCK, LATCH, AND TYPEWRITTEN DIRECTORY. CIRCUIT BREAKERS SHALL HAVE THERMAL MAGNETIC TRIP
- PROTECTION WITH BIMETALLIC ELEMENTS FOR THE DELAY OVERLOAD PROTECTION. TWO AND THREE POLE BREAKERS SHALL BE BOLT-IN FIELD INTERCHANGEABLE.
- D. ALL PANELS SHALL BE OF THE SAME MANUFACTURING AND SHALL BE CUTLER HAMMER, SQUARE "D", OR SIEMENS. ALL BRANCH CIRCUIT BREAKERS SHALL BE RATED FOR "SWITCHING DUTY", MINIMUM 10 KIAC RATED.

#### MECHANICAL EQUIPMENT

- A. FOR MECHANICAL EQUIPMENT PROVIDED BY THE MECHANICAL TRADE. THE FLECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING UNLESS OTHERWISE SHOWN ON PLAN: 1. THE NECESSARY POWER DISTRIBUTION EQUIPMENT AT THE
- ELECTRICAL ROOM 2. THE NECESSARY CONDUIT AND WIRE TO THE MECHANICAL EQUIPMENT LOCATION.
- A TERMINATING DISCONNECT SWITCH. 4. ANY MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE
- WORK AS SHOWN ON THE DRAWINGS. 5. TO COORDINATE EXACT LOCATIONS WITH THE MECHANICAL

TRADE AND RELATED DRAWINGS.

- 6. ALL CONDUIT, WIRING, AND LABOUR FROM THE TERMINATING DISCONNECT SWITCH TO THE MECHANICAL EQUIPMENT INCLUDING STARTERS AND LOW VOLTAGE CONTROLS SHALL BE PROVIDED BY THE MECHANICAL TRADE.
- 7. UNLESS OTHERWISE INDICATED, ALL SPECIFIED ELECTRICAL HEATING EQUIPMENT TOGETHER WITH THE CONTROL THERMOSTATS, CONDUIT, WIRE, ETC. SHALL BE PROVIDED BY
- THE ELECTRICAL TRADE 8. THE ELECTRICAL TRADE SHALL VERIFY ALL MOTOR CONNECTIONS FOR PROPER PHASE ROTATION, WHERE APPLICABLE.

#### WIRING DEVICES

- A. DUPLEX RECEPTACLES SHALL BE WHITE, GROUNDING TYPE RATED FOR 15A.120V PASS AND SEYMOUR MODEL /CR15- W1 UNLESS OTHERWISE SPECIFIED ON PLANS, THESE SHALL HAVE BREAK-OFF LINE TO ALLOW FOR SPLIT WIRING OR 2 CIRCUITS. EQUIVALENT MANUFACTURER OF RECEPTACLES ARE AS FOLLOWS: ARROW HART
- SPECIFICATION GRADE HUBBELL SPECIFICATION GRADE. SINGLE RECEPTACLES SHALL BE OF THE SPECIFICATION GRADE TYPE LIGHT SWITCHES S.P. 3-WAY, AND 4-WAY SHALL BE SPECIFICATION GRADE FOLIAL TO PASS AND SEYMOUR MODEL 663SWG. **EQUIVALENT MANUFACTURER OF SWITCHES ARE AS FOLLOWS:**
- ARROW HART SPECIFICATION GRADE. HUBBELL SPECIFICATION . COVER PLATES IN FINISHED AREAS SHALL BE PASS AND SEYMOUR MODEL #. SL1 AND SL8 STAINLESS STEEL. NUMBER OF GANG AS
- REOUIRED. THE OWNER OR ENGINEER HAS THE RIGHT TO RELOCATE OUTLETS UP TO 10 FT.(3.3M) IN ANY DIRECTION PRIOR TO INSTALLATION
- WITHOUT EXTRA CHARGE. DO NOT INSTALL WIRING DEVICES BACK-TO-BACK IN WALL. PROVIDE A MINIMUM OF 150mm HORIZONTAL CLEARANCE BETWEEN BACK OF BOXES. H. LOCATE LIGHT SWITCHES ON LATCH SIDE OF DOOR.
- PROVIDE T-BAR GRID SUPPORT BRACKETS FOR ALL DEVICES INSTALLED IN T-BAR CEILINGS

#### A. FUSE SIZES AND TYPES SHALL BE AS INDICATED ON THE PLANS AND DESCRIBED IN THIS SECTION, FOUIPMENT HOLDING THE FUSES SHALL BE AS SPECIFIED. OTHERWISE ANY CHANGES NEEDED TO CONVERT THE EQUIPMENT TO HOLD THE SPECIFIED FUSES SHALL

BE AT THE CONTRACTORS EXPENSE. EQUIPMENT SHALL BE

PROVIDED TO HOLD THE SPECIFIED FUSES. FUSES SHALL BE C.S.A. APPROVED HCR. TYPE, VOLTAGE AS REQUIRED, FORM 1 CLASS "J" NON-RENEWABLE, DUAL ELEMENT AEROFLEX, 2 SPARES OF EACH TYPE TO BE SUPPLIED.

#### LIGHTING FIXTURES AND LAMPS

- A. PROVIDE FIXTURES AND LAMPS AS INDICATED ON THE FIXTURE SCHEDULE AND/OR AS SPECIFIED UNDER THIS SECTION, THESE MUST AND SHALL BE COMPLETE WITH ALL NECESSARY HANGERS,
- LAMPS, SUPPORTS, ETC. CONTRACTOR SHALL INCLUDE IN HIS/HER TENDER THE FIXTURE(S) THAT ARE BEING SPECIFIED. IF AN ALTERNATE MANUFACTURER IS NAMED. IT IS MANDATORY THAT THE FIXTURE BE EQUIVALENT IN ALL RESPECTS, I.E. SAME LENS, FOUIVALENT FRAME. PERFORMANCE, FINISH, CONSTRUCTION QUALITY, ETC. ALTERNATE MANUFACTURES OF ALTERNATE FIXTURE TYPES MUST BE OFFERED AS AN ALTERNATE ONLY TO THE BASE BID, WITH SEPARATE PRICE STATED IN TENDER. LOW BIDDER WILL BE DETERMINED ON THE BASIS OF THE SPECIFIED ITEM NOT ON "ALTERNATED SAVINGS".

A: Built in thermostat

B: Control relay and low voltage remote thermostat

C: C/W control relay. Tie into thermostat as indicated on drawings. Refer to mechanical drawings for coordination.

COORDINATE THE MOUNTING AND LOCATION OF LUMINAIRES WITH OTHER TRADES TO AVOID CONFLICTS. D. LIGHTING FIXTURES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED AFTER ALL EQUIPMENT IS IN PLACE.

#### VOICE/DATA CONDUIT SYSTEM

- A. PROVIDE SYSTEMS AS SHOWN ON THE PLANS AND RISER. CONDUIT (OTHER THAN INCOMING) SHALL BE EMT (THINWALL) AND COMPLETE WITH BUSHING TO PROTECT CABLE. CONDUIT IN CEILING SPACE SHALL BE FT6 FLAME SPREAD RATED. MINIMUM SIZE FOR VOICE/DATA IS 27mm (REFER TO CONDUIT SECTION OF
- THE SPECIFICATION). A MAXIMUM OF 2 LONG RADIUS 90 DEGREE BENDS SHALL BE PROVIDED BETWEEN PULL BOXES.
- PULL STRING SHALL BE PULLED AND LEFT IN EACH CONDUIT TO FACILITATE THE FUTURE PULLING OF PULL ROPE THEN CONDUCTORS.

#### ACCESS DOORS

- A. PROVIDE ACCESS DOOR FOR ALL CONCEALED ELECTRICAL
- EQUIPMENT AND CONNECTIONS. LOCATE ACCESS, DOORS TO ALLOW FOR PROPER OPERATION INSPECTION. ADJUSTMENT. AND SERVICING. ACCESS DOORS TO BE FLUSH MOUNTED. PROVIDE MINIMUM

600mmX600mm WHERE BODY ENTRY IS REQUIRED. PROVIDE

- MINIMUM 300mmX300mm WHERE HAND ENTRY IS REQUIRED. COORDINATE FINISH WITH ENGINEER. PRIMED AND PAINTABLE
- STEEL ACCESS DOORS TO BE PROVIDED IN ALL AREAS. ALL ACCESS DOORS SHALL BE OF SAME MANUFACTURER AND SHALL BE NAILOR OR APPROVED EQUIVALENT.

#### EMERGENCY LIGHTING AND EXIT SIGNS

A. MINIMUM WIRE SIZE FROM BATTERY UNIT TO DC REMOTE HEAD (S) SHALL BE NO.10 AWG.

## MOUNTING HEIGHTS

- A. MOUNTING HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTRELINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED
- OTHERWISE B. INSTALL ELECTRICAL AT THE FOLLOWING HEIGHTS UNLESS INDICATED OTHERWISE.
- LOCAL SWITCHES: 1050mm
- 2. WALL RECEPTACLES: GENERAL: 450mm ABOVE TOP OF CONTINUOUS BASEBOARD HEATER: 200mm
- ABOVE TOP OF COUNTERS OR COUNTER SPLASH BACKS: 150mm - IN MECHANICAL ROOMS: 1400mm
- 3. TELEPHONE AND COMMUNICATION OUTLETS: 450mm 4. PANELBOARDS AS REQUIRED BY CODE OR AS INDICATED
- 5. WALL MOUNTED TELEPHONE AND COMMUNICATION OUTLETS: 1100mm TO HIGHEST OPERABLE CONTROL

6. FIRE ALARM STATIONS: 1100mm

10. EMERGENCY LIGHT HEADS: 2400mm

7. FIRE ALARM HORNS: 2400mm 8. TELEVISION OUTLETS: 450mm 9. EXIT LIGHTS: 2400mm

	ELECTRIC HEATING SCHEDULE										
TAG MANUFACTURER MODEL OUTPUT WATTS LENGTH NOTES ACCESSORIES											
BB#1	OUELLET	ODLU0500	500	29-1/2"	1,2	С					
BB#2	OUELLET	ODLU0750	750	39-1/2"	1,2	С					
BB#3	OUELLET	ODLU01000	1000	49-13/16"	1,2	С					
Notes:											
1. Colour - Whit	1. Colour - White										
2. Confirm and	. Confirm and coordinate installation with manufacturer's installation instructions										

	LIGHT FIXTURE SCHEDULE										
FIXTURE TYPE	DESCRIPTION	COLOUR TEMPERATURE	MANUFACTURER	MODEL	NOTES						
A1	LED 2'X2' - FLAT PANEL	3000	LITHONIA	CPX-2X2-2000LM-80CRI-30K-MIN10-EZT-120V	C/W DRYWALL TRIM KIT						
D1	LED 4" - WAFER DOWNLIGHT	3000	LITHONIA	WF4-LED-30K40K50K-90CRI							
G1	LED 4' - STRIP LIGHT	3000	LITHONIA	ZL1N-L48-3000L-FST-MVOLT-30K-80CRI							
N1	LED PENDANT LIGHT	3000	STANPRO	SERIES 100 C/W SERIES 310 GLASS SHADE							
P1	LED INTERIOR WALL SCONCE	3000	STANPRO	SVANC014-S15W-A-3CBN							
V1	LED 2' - VANITY LIGHT	3000	LITHONIA	FMVCSLS-24IN-MVOLT-30K-90CRI-BN							
W1	LED EXTERIOR WALL SCONCE	4000	LITHONIA	OVWP LED-40K-120-PE-DDB	C/W INTEGRAL PHOTOCELL						

		PANEL NAME: GP1												
WIRE SIZE		CIRCUIT DESCRIPTION	TYPE	BREAKER SIZE	LOAD	CIRCUIT#	PHASE	CIRCUIT#	LOAD	BREAKER SIZE	TYPE	CIRCUIT DESCRIPTION	WIRE SIZE	
2#12-NMD90	R/	BASEMENT BASEBOARD HEATERS		20A/2P	3000	1	А	2	1000	15A/2P		UPPER LEVEL BASEBOARD HEATERS	2#14-NMD90	
2#12-INIVID30	Dr.					3	В	4		13/1/21		OTTEN LEVEL BASEBOAND HEATENS	2#14-14101050	
2#12-NMD90	BASEMENT BASEBOARD HEATERS		20A/2P	3000	5	Α	6		15A		BASEMENT LIGHTING	2#14-NMD90		
L.112 11111330					7	В	8		15A		BASEMENT LIGHTING & SMOKE ALARM	2#14-NMD90		
2#14-NMD90		FRIDGE		15A	500	9	Α	10		15A		FIRST LEVEL LIGHTING & SMOKE ALARMS	2#14-NMD90	
2#14-NMD90		FRIDGE		15A	500	11	В	12		15A		FIRST LEVEL LIGHTING & SMOKE ALARMS	2#14-NMD90	
2#14-NMD90		FRIDGE		15A	500	13	Α	14		15A		EXTERIOR LIGHTING	2#14-NMD90	
2#12-NMD90	K	ITCHEN COUNTER RECEPTACLE		20A	180	15	В	16		15A		UPPER LEVEL LIGHTING & SMOKE ALARMS	2#14-NMD90	
2#14-NMD90		RANGE HOOD		15A	180	17	Α	18						
3#8-NMD90	OVEN/RANGE		50A/2P	6000	19	В	20							
3#6-INIVID50		OVEN/INANGE		30A/21	0000	21	Α	22						
2#14-NMD90		ELECTRIC STRIKE POWER		15A	100	23	В	24						
2#14-NMD90		DOOR POWER		15A	500	25	Α	26						
2#14 NM/D00	FIRST LEVEL BASEBOARD HEATERS		15A/2P	2500	27	В	28							
2#14-NMD90					29	Α	30							
2#14-NMD90	FIRST LEVEL BASEBOARD HEATERS		15A/2P	2000	31	В	32							
2#14-INIVID90					33	Α	34							
2#14-NMD90	LID	UPPER LEVEL BASEBOARD HEATERS		15A/2P	2750	35	В	36						
2#14-INIVID90	UP		UPPER LEVEL DASEBOARD REATERS		13A/2F	2750	37	Α	38					
2#14-NMD90	UPPER LEVEL BASEBOARD HEATERS	LIDDED LEVEL DACEDOADD LIFATEDS		15 A /2D	<sup>7</sup> 2P 2750	39	В	40						
2#14-INIVID90			15A/2P	41		Α	42							
TOTAL LOAD										TOTAL LOAD				
	LOCATION:	ELECTRICAL ROOM	PHASE:		1Ø					MAINS TYPE:		BREAKER		
	MOUNTING:	SURFACE	WIRES:		3W					MIN. MAINS	RATING:	200A		
	VOLTAGE:	120/240V	K.A.I.C. RATIN	NGS:						MCB RATING:		200A		
TYPE:	GFI -	GROUND FAULT PROTECTED												
	AFI -	ARC FAULT PROTECTED												

		PANEL NAME: HP1											
WIRE SIZE		CIRCUIT DESCRIPTION	TYPE	BREAKER SIZE	LOAD	CIRCUIT#	PHASE	CIRCUIT#	LOAD	BREAKER SIZE	TYPE	CIRCUIT DESCRIPTION	WIRE SIZE
2#14-NMD90		ERV#1		15A	49	1	Α	2	66	15A		HRV#2	2#14-NMD90
					3	В	4				DELIFAT COU	2//4 4 1// 4/200	
2#14-NMD90		REHEAT COIL		15A/2P	1500	5	Α	6	1500	15A/2P		REHEAT COIL	2#14-NMD90
2#14-NMD90	El	LECTRICAL ROOM RECEPTACLE		15A	180	7	В	8	87	15A		WASHROOM EXHAUST FAN EF#2	2#14-NMD90
2#14-NMD90		RECEPTACLES		15A	720	9	Α	10	360	20A		KITCHEN COUNTER RECEPTACLES	2#12-NMD90
				454/20	1920	11	В	12	1500	50A/2P			
3#14-NMD90		CU#1 & HP#1.1		15A/2P		13	Α	14				DISHWASHER	3#8-NMD90
2#14-NMD90		EXTERIOR RECEPTACLE		15A	180	15	В	16	360	20A		KITCHEN ISLAND RECEPTACLES	2#12-NMD90
2#14-NMD90	w	ASHROOM EXHAUST FAN EF#1		15A	87	17	Α	18		22.1/22			1
				/		19	В	20	3763	30A/2P		CU#4	3#10-NMD90
3#10-NMD90		CLOTHES DRYER		30A/2P	4500	21	Α	22				1101144 42 42 44 45 8 46	1
		CLOTHES DRYER		30A/2P	4500	23	В	24	300	15A/2P		HP#4.1, 4.2, 4.3, 4.4, 4.5 & 4.6	2#14-NMD90
3#10-NMD90						25	Α	26	180	20A		ROOFTOP RECEPTACLE	2#12-NMD90
2#14-NMD90		CLOTHES WASHER		15A	500	27	В	28	80	15A		ERV#3	2#14-NMD90
2#14-NMD90		CLOTHES WASHER		15A	500	29	Α	30		454/20			T
2#14-NMD90		WASHROOM RECEPTACLE		15A	180	31	В	32	1500	15A/2P		REHEAT COIL	2#14-NMD90
2#14-NMD90		WASHROOM RECEPTACLE		15A	180	33	Α	34	360	15A		EF#4 & EF#5	2#14-NMD90
2#12-NMD90		MICROWAVE RECEPTACLE		20A	1000	35	В	36					
						37	Α	38					
						39	В	40					
						41	Α	42					
			TOTAL LOAD							TOTAL	LOAD		
						•		•		-			
	LOCATION:	ELECTRICAL ROOM	PHASE:		1Ø					MAINS TYPE:		BREAKER	
	MOUNTING:	SURFACE	WIRES:		3W					MIN. MAINS F		400A	
	VOLTAGE:	120/240V	K.A.I.C. RATIN	IGS:						MCB RATING:		400A	
TYPE:	GFI -	GROUND FAULT PROTECTED											
	AFI -	ARC FAULT PROTECTED											

## POWER AND COMMUNICATIONS LEGEND

ELECTRICAL PANEL AS NOTED

15A, 120V, 1PH, 3W GROUNDED DUPLEX RECEPTACLE

15A, 120V, 1PH, 3W GROUNDED DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER

20A, 120V, 1PH, 3W GROUNDED DUPLEX RECEPTACLE

20A, 120V, 1PH, 3W GROUNDED DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER

15A, 120V, 1PH, 3W - UNLESS OTHERWISE NOTED, GROUNDED GFI DUPLEX RECEPTACLE

15A, 120V, 1PH, 3W - UNI ESS OTHERWISE NOTED. GROUNDED GFI DUPLEX RECEPTACLE MOUNTED ABOVE

SPECIAL RECEPTACLE AS NOTED

COUNTER

1 PHASE DIRECT CONNECTION

MOTOR CONNECTION AS NOTED MOTOR CONNECTION WITH FIELD LEVEL DISCONNECT AS

DISCONNECT SWITCH

**FUSIBLE DISCONNECT SWITCH** 

MOTOR RATED SWITCH - TO BE LOCKABLE

SWITCH COMPLETE WITH SPEED CONTROL

COVER PLATE FOR DATA

STRING, BACKBOX AND BLANK COVER PLATE FOR CABLE T 21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK COVER PLATE FOR PHONE

21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK COVER PLATE FOR PHONE MOUNTED ABOVE COUNTER

21mm CONDUIT WITH TERMINATED COAX CABLE, PULL

21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK

21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK

21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK COVER PLATE FOR DATA MOUNTED ABOVE COUNTER.

COVER PLATE FOR VOICE AND DATA

JUNCTION BOX ROUGH IN FOR BARRIER FREE PUSH PLATE. PROVIDE 21mm CONDUIT. PULL STRING AND BACK BOX.

VIDEO INTERCOM. PROVIDE 21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK COVER PLATE MOUNTED REQUEST FOR EXIT. PROVIDE 21mm CONDUIT WITH PULL

STRING, BACKBOX AND BLANK COVER PLATE MOUNTED

CARD READER. PROVIDE 21mm CONDUIT WITH PULL STRING, BACKBOX AND BLANK COVER PLATE MOUNTED

MAG LOCK

DENOTES WEATHERPROOF. WEATHERPROOF RECEPTACLE

1050mm AFF UNLESS OTHERWISE NOTED

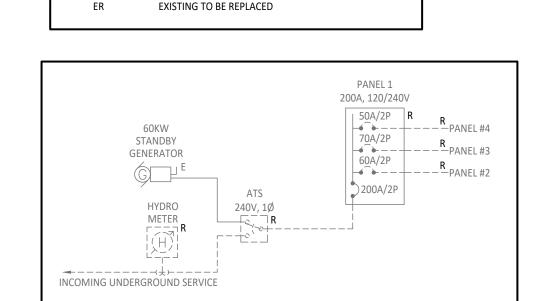
TO BE EQUIPPED WITH WHILE IN USE COVER INDICATES TAMPER RESISTANT

1050mm AFF

ELECTRIC STRIKE

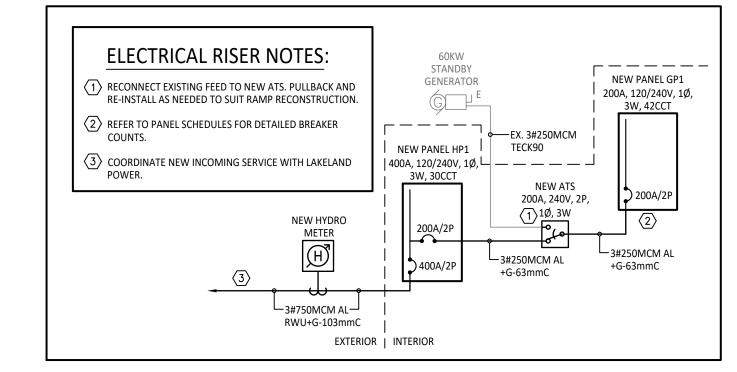
EXISTING TO REMAIN **EXISTING TO BE REMOVED** 

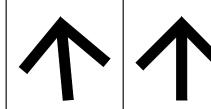
**EXISTING TO BE RELOCATED** 



# **EXISTING PARTIAL RISER DIAGRAM** SCALE: N.T.S

PROPOSED RISER DIAGRAM





LIGHTING AND FIRE ALARM LEGEND

THREE WAY LIGHT SWITCH

DIMMING LIGHT SWITCH

STANDARD OCC SENSOR (DUAL)

SENSOR SWITCH #WSX-PDT-WH

SENSOR SWITCH #WSX-2P-FAN-WH

SENSOR SWITCH #WSX-2P-FAN-WH

EXISTING CEILING TROFFER TO REMAIN

EXISTING CEILING TROFFER TO BE REMOVED

NEW LIGHTING FIXTURE - TYPE AS NOTED

DOWN LIGHT FIXTURE - TYPE AS NOTED

TO KIDDE MODEL: P4010ACLEDSCOCA)

STANPRO M-2-12-5W-LA-WH

EQUAL TO STANPRO SLB-12100-5LA-WH-AT

SCONCE - TYPE AS NOTED

STANDARD OCC SENSOR C/W 2P INTEGRAL FAN CONTROL

STANDARD OCC SENSOR C/W 2P INTEGRAL FAN CONTROL

COMBINATION TYPE SMOKE ALARM & CO C/W AUDIBLE

AND VISUAL SIGNAL (120V C/W BATTERY BACKUP EQUAL

EMERGENCY BATTERY PACK C/W DUAL LIGHTING HEAD

EMERGENCY LIGHT C/W DUAL REMOTE HEADS EQUAL TO

LIGHT SWITCH

TRUE NORTH PROJECT NORTH

SITE CONDITIONS BEFORE PROCEEDING WITH THE WOR

ALL DIMENSIONS SHOWN ON THESE DRAWINGS MUST BE

CHECKED AGAINST ALL OTHER PROJECT DRAWINGS. ALL

THESE DRAWINGS MUST BE CHECKED BY THE CUSTOMER OR CONTRACTOR. ANY ERRORS OR OMISSIONS MUST B REPORTED IN WRITING TO SUPPA ENGINEERING PRIOR TO OMMENCEMENT OF CONSTRUCTION. OWNER OR CONTRACTOR MUST CHECK AND VERIFY ALI

DISCREPANCIES MUST BE REPORTED TO THE CONSULTA BEFORE PROCEEDING WITH THE WORK. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS. . DO NOT SCALE THE DRAWINGS.

REVISION SCHEDULE

DESCRIPTION 0 ISSUED FOR TENDER MAR. 08, 2024

Project Status:

(Shan Dux) S. E. BUSCH 100109104

24-103

√Mar. 08, 2024 /

ISSUED FOR

SUPPA

ENGINEERING

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

www.suppaengineering.ca **ESPRIT WOMEN'S SHELTER RENOVATION** 

l Address: BEECHWOOD DRIVE, PARRY SOUND, ONTARIO Drawing Title: ELECTRICAL SPECIFICATIONS, LEGENDS

RISER DIAGRAM AND

SCHEDULES

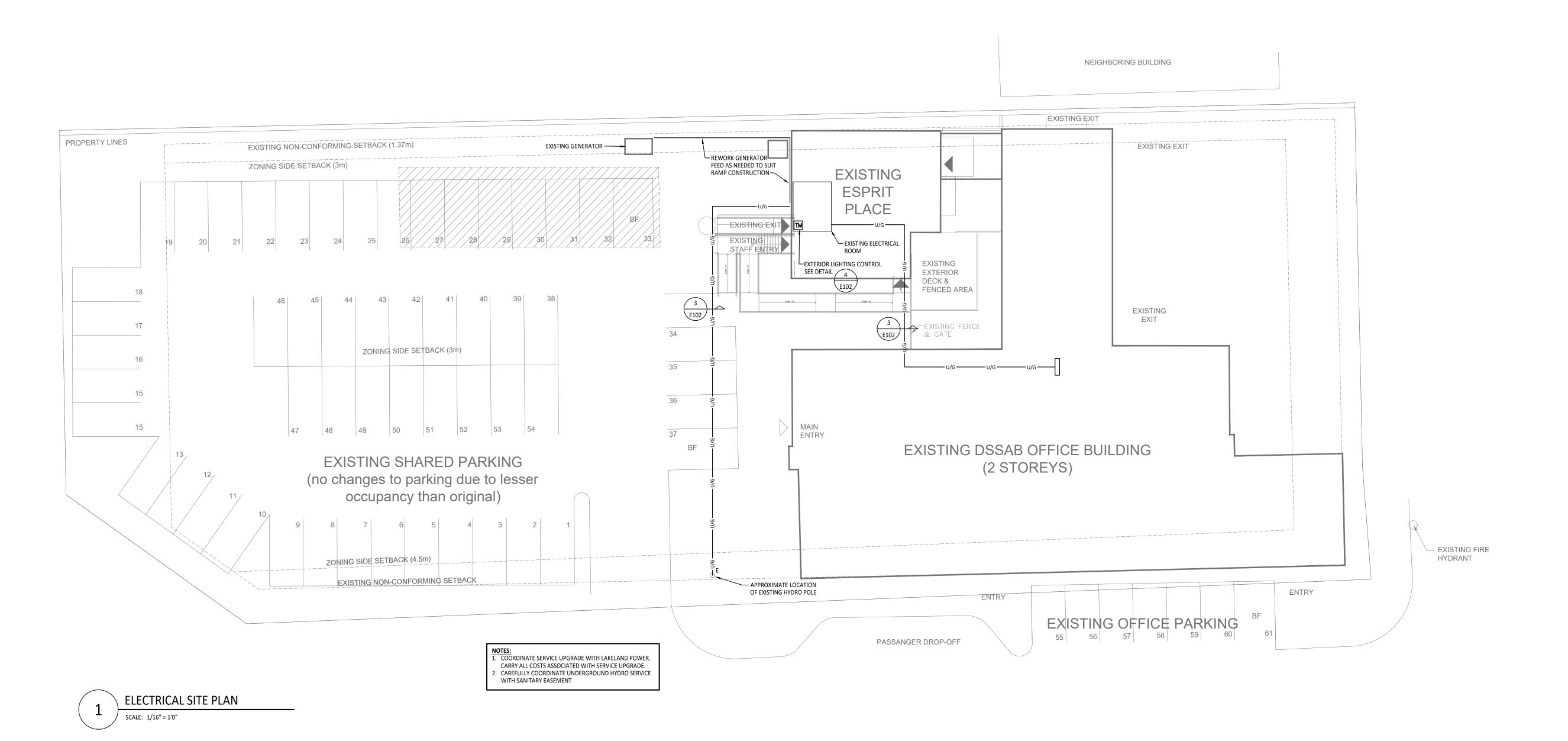
Drawn By: BR

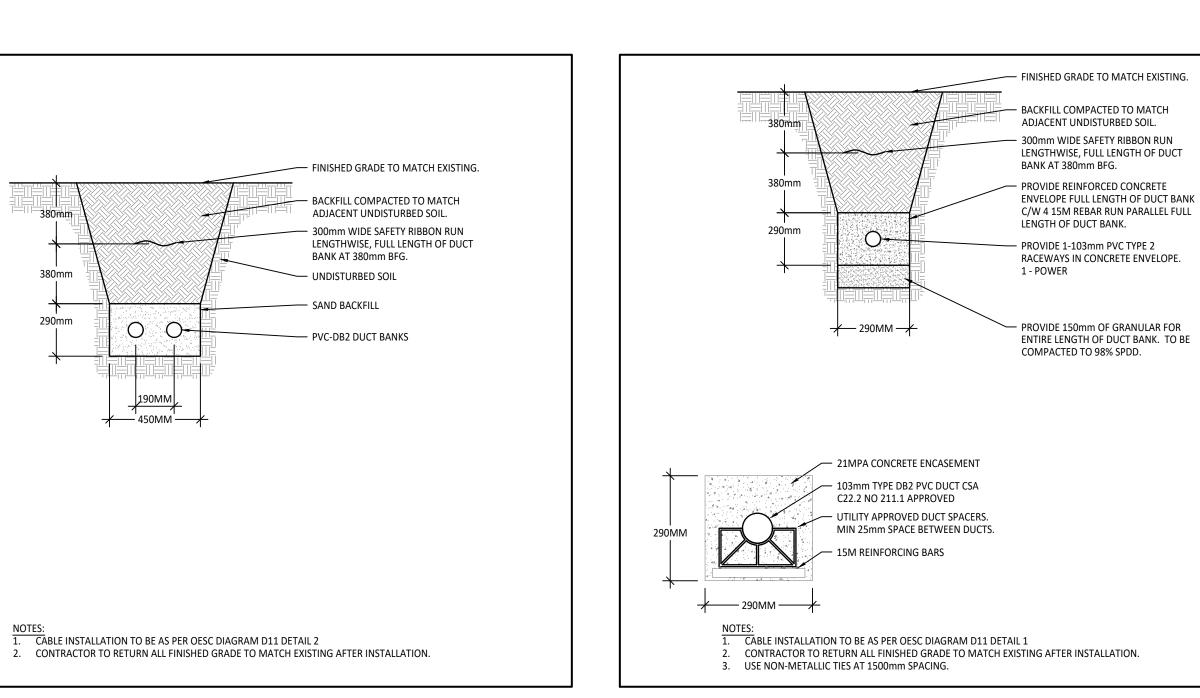
Project No:

22-033B

Checked By: SB Scale: N.T.S. Drawing No:

Date: Mar. 7, 24





UNDERGROUND RACEWAY - 2 DUCTS

SCALE: N.T.S.

3 CONCRETE ENCASED DUCT BANK - 1 DUCT
SCALE: N.T.S.

1

TRUE NORTH PROJECT NO

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 TENDER MAR. 08, 2024

Project Status:

ISSUED FOR

TENDER

S. E. BUSCH 100109104

24-103
Mar. 08, 2024

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SUPPA

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

ESPRIT WOMEN'S
SHELTER
RENOVATION

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:

ELECTRICAL

SITE PLAN

Project No:

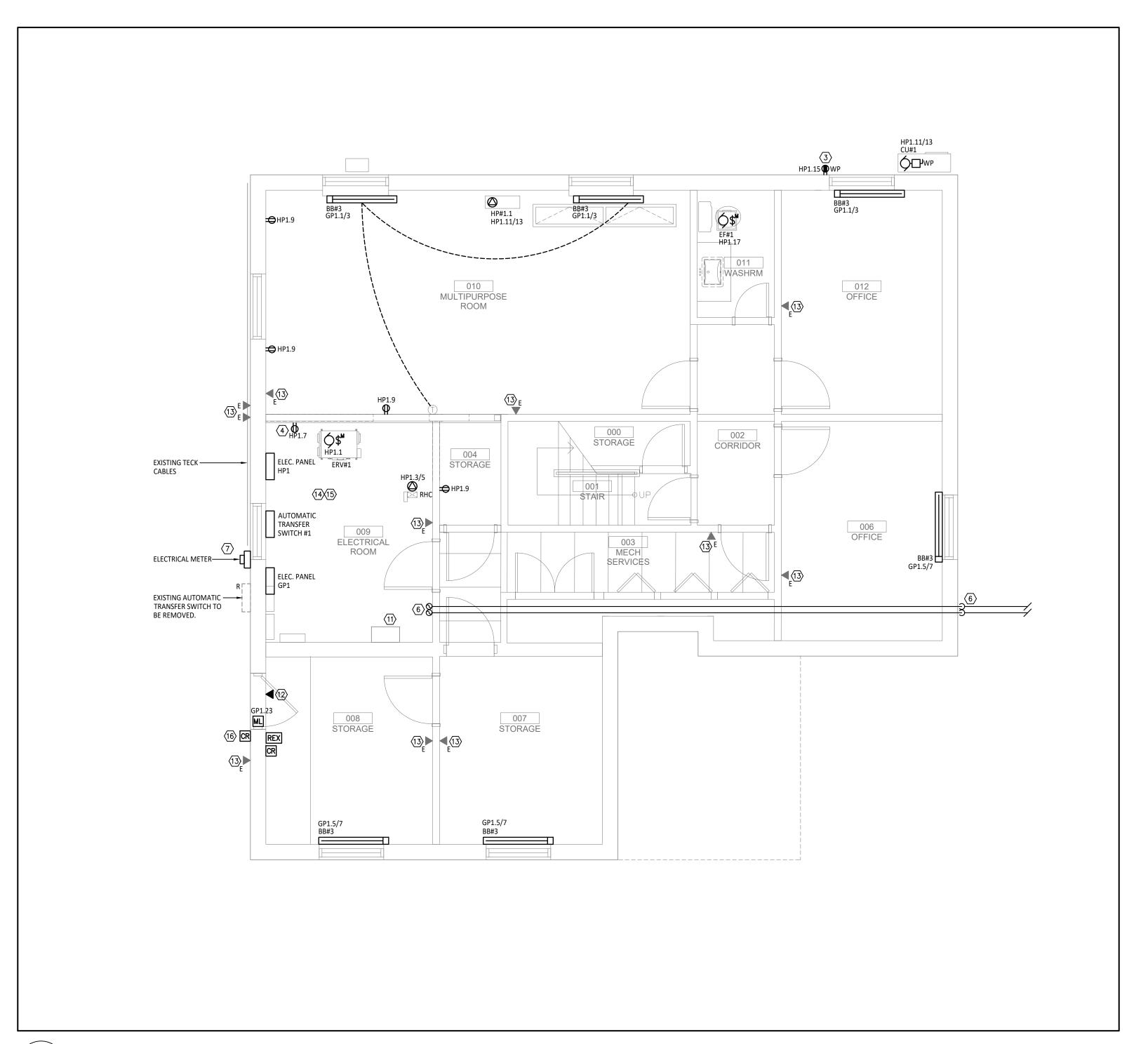
22-033B

Drawn By: BR Date: Mar. 7, 24

Checked By: SB Scale: N.T.S.

E102

0



POWER & SYSTEMS - BASEMENT - PROPOSED

SCALE: 1/4" = 1'0"

#### **ELECTRICAL DRAWING NOTES:**

- (1) COORDINATE EXACT LOCATION AND MOUNTING OF KITCHEN ISLAND RECEPTACLES WITH MILLWORK ON SITE.
- 2 PROVIDE A 20A, 120V, 5-20R, GFI RECEPTACLE WITHIN 7.5M OF ROOFTOP EQUIPMENT. CONFIRM ROUTING ON SITE. ENSURE RECEPTACLE IS A MINIMUM 750MM ABOVE FINISHED ROOF AND PROTECTED FROM MECHANICAL DAMAGE. PROVIDE A WEATHER-PROOF WHILE-IN-USE COVER.
- RECEPTACLES TO BE EQUIPPED WITH A WET LOCATION, WHILE IN USE COVER PLATE EQUAL TO HUBBELL RW57300.
- 4 REMOVE AND MAKE SAFE ALL ELECTRICAL DECIVES IN THE WALLS. REUSE CIRCUITS TO SERVE NEW ELECTRICAL LAYOUT AS SHOWN.
- (5) REMOVE AND RE-INSTALL RECEPTACLE C/W BOX EXTENSION TO

ACCOMMODATE NEW MILLWORK.

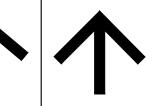
- (6) ROUTE TWO (2) 2" CONDUIT C/W PULLSTRING TO EXTERIOR AS SHOWN. PROVIDE FIRESTOP, COVERS AND PULL BOXES AS REQUIRED. STUB UP AND CAP CONDUIT AT EXTERIOR WALL OF DPSSSAB OFFICES. PROVIDE EXPANSION JOINT WHERE EVER CONDUIT BREACHES GROUND. REFER TO SITE PLAN FOR ADDITIONAL DETAIL.
- PROTECT AND MAINTAIN EXISTING HYDRO METER, ATS AND ASSOCIATED CONDUIT AND TECK CABLES.
- 8 SMOKE ALARM C/W RELAY BASE TO INTERCONNECT BUILDING SMOKE ALARM.
- 9 DEMOLISH ELECTRICAL CONNECTION TO FURNACE. FURNACE TO BE REMOVED
- (10) INTERLOCK BARRIER FREE DOOR SYSTEM WITH SECURITY SYSTEM.
- (11) APPROXIMATE LOCATION OF SERVER.
- \$\frac{12}\$ PROVIDE CONDUIT STUB C/W PULL STRING TO NEAREST ACCESSIBLE CEILING FOR FUTURE FIT UP BY OWNER'S FORCES.
- (13) MAINTAIN EXISTING DATA DROP.
- CABLE SIZES ALL SHOWN FOR CODE COMPLIANCE. TERMINATE EXISTING CIRCUITS ON NEW PANELS, IF EXISTING CIRCUITS ARE UNDERSIZED, ADVISE CONSULTANT AS SOON AS POSSIBLE.
- EXISTING PANELS NOT SHOWN. REMOVE AND MAINTAIN CIRCUITS. EXTEND AND TERMINATE ON NEW PANELS. LOCATE JUNCTION BOXES IN CEILING WHERE
- REFER TO FIRE ALARM DRAWINGS FOR ASSOCIATED FIRE ALARM PULL STATIONS. PULL STATIONS TO BE C/W DRY CONTACT WIRED TO LOCAL MAG LOCK.

#### **GENERAL NOTES:**

SERVER RACK IN BASEMENT.

- 1. INCLUDE IN CONTRACT TO REMOVE ABANDONED WIRING WHEREVER IT IS 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
- 5. ALL CONDUIT FOR DOOR ACCESS AND INTERCOM TO BE ROUTED BACK TO





TRUE NORTH PROJECT NORTH

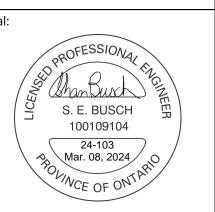
GENERAL NOTES:

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5. DO NOT SCALE THE DRAWINGS.

#### **REVISION SCHEDULE**

DESCRIPTION 0 ISSUED FOR TENDER MAR. 08, 2024

Project Status: **ISSUED FOR** 





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

# **ESPRIT WOMEN'S** SHELTER **RENOVATION**

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

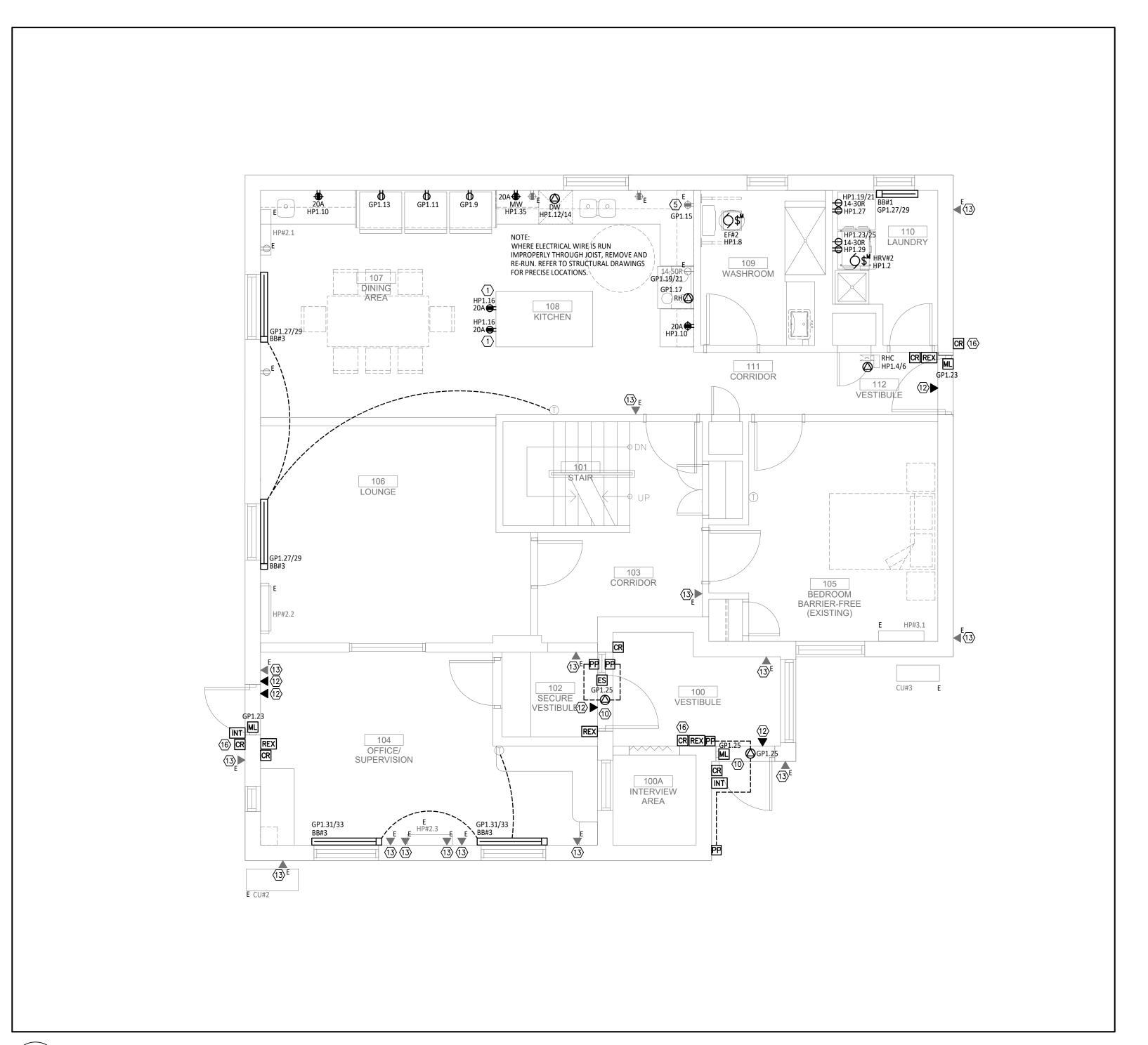
Drawing Title:

ELECTRICAL **POWER & SYSTEMS BASEMENT** FLOOR PLAN

Project No:

22-033B

Drawn By: BR Date: Mar. 7, 24 Checked By: SB Scale: 1/4" = 1' - 0"



POWER & SYSTEMS - FIRST LEVEL - PROPOSED

SCALE: 1/4" = 1'0"

#### **ELECTRICAL DRAWING NOTES:**

- COORDINATE EXACT LOCATION AND MOUNTING OF KITCHEN ISLAND RECEPTACLES WITH MILLWORK ON SITE.
- 2 PROVIDE A 20A, 120V, 5-20R, GFI RECEPTACLE WITHIN 7.5M OF ROOFTOP EQUIPMENT. CONFIRM ROUTING ON SITE. ENSURE RECEPTACLE IS A MINIMUM 750MM ABOVE FINISHED ROOF AND PROTECTED FROM MECHANICAL DAMAGE. PROVIDE A WEATHER-PROOF WHILE-IN-USE COVER.
- RECEPTACLES TO BE EQUIPPED WITH A WET LOCATION, WHILE IN USE COVER PLATE EQUAL TO HUBBELL RW57300.
- 4 REMOVE AND MAKE SAFE ALL ELECTRICAL DECIVES IN THE WALLS. REUSE CIRCUITS TO SERVE NEW ELECTRICAL LAYOUT AS SHOWN.
- (5) REMOVE AND RE-INSTALL RECEPTACLE C/W BOX EXTENSION TO
- (6) ROUTE TWO (2) 2" CONDUIT C/W PULLSTRING TO EXTERIOR AS SHOWN. PROVIDE FIRESTOP, COVERS AND PULL BOXES AS REQUIRED. STUB UP AND CAP CONDUIT AT EXTERIOR WALL OF DPSSSAB OFFICES. PROVIDE EXPANSION JOINT WHERE EVER CONDUIT BREACHES GROUND. REFER TO SITE PLAN FOR ADDITIONAL DETAIL.
- PROTECT AND MAINTAIN EXISTING HYDRO METER, ATS AND ASSOCIATED CONDUIT AND TECK CABLES.
- 8 SMOKE ALARM C/W RELAY BASE TO INTERCONNECT BUILDING SMOKE ALARM.
- 9 DEMOLISH ELECTRICAL CONNECTION TO FURNACE. FURNACE TO BE REMOVED
- (10) INTERLOCK BARRIER FREE DOOR SYSTEM WITH SECURITY SYSTEM.
- $\langle 11 \rangle$  APPROXIMATE LOCATION OF SERVER.
- 12 PROVIDE CONDUIT STUB C/W PULL STRING TO NEAREST ACCESSIBLE CEILING FOR FUTURE FIT UP BY OWNER'S FORCES.

ACCOMMODATE NEW MILLWORK.

- 13 MAINTAIN EXISTING DATA DROP.
- CABLE SIZES ALL SHOWN FOR CODE COMPLIANCE. TERMINATE EXISTING CIRCUITS ON NEW PANELS, IF EXISTING CIRCUITS ARE UNDERSIZED, ADVISE CONSULTANT AS SOON AS POSSIBLE.
- EXISTING PANELS NOT SHOWN. REMOVE AND MAINTAIN CIRCUITS. EXTEND AND TERMINATE ON NEW PANELS. LOCATE JUNCTION BOXES IN CEILING WHERE
- REFER TO FIRE ALARM DRAWINGS FOR ASSOCIATED FIRE ALARM PULL STATIONS. PULL STATIONS TO BE C/W DRY CONTACT WIRED TO LOCAL MAG LOCK.

#### **GENERAL NOTES:**

- 1. INCLUDE IN CONTRACT TO REMOVE ABANDONED WIRING WHEREVER IT IS
- CIRCUITS FOR RE-USE FOR NEW LIGHTING LAYOUT. 3. REFER TO ARCHITECTURAL LAYOUTS FOR EXTENT OF REMOVALS.

TRUE NORTH PROJECT NORTH

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**REVISION SCHEDULE** 

4. FOR CONSTRUCTION PURPOSES, USE ONLY THE LATEST APPROVED DRAWINGS.
5. DO NOT SCALE THE DRAWINGS.

DESCRIPTION 0 ISSUED FOR TENDER MAR. 08, 2024

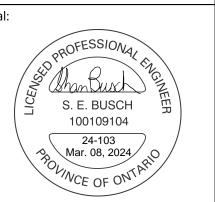
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 FORCES. INCLUDE FOR ALL NECESSARY COORDINATION AS PART OF THIS

5. ALL CONDUIT FOR DOOR ACCESS AND INTERCOM TO BE ROUTED BACK TO SERVER RACK IN BASEMENT.

Project Status:

**ISSUED FOR** 





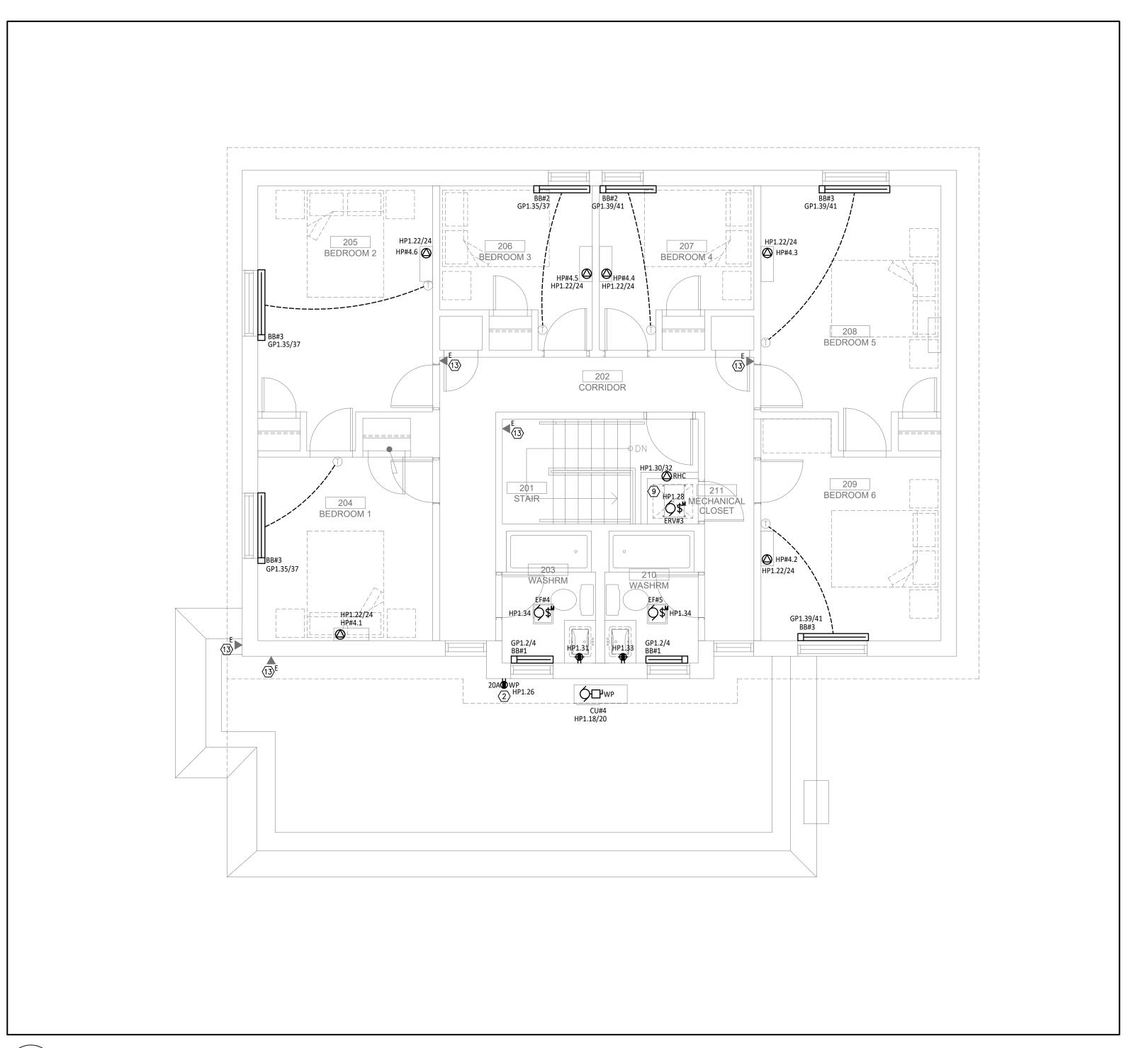
Suppa Engineering 592 Cassells Street North Bay, ON P1B 3Z7 Tel: 705-707-2121 www.suppaengineering.ca

**ESPRIT WOMEN'S** SHELTER **RENOVATION** 

ELECTRICAL POWER & SYSTEMS FIRST LEVEL FLOOR PLAN

22-033B

Drawn By: BR Date: Mar. 7, 24 Checked By: SB Scale: 1/4" = 1' - 0"



POWER & SYSTEMS - UPPER LEVEL - PROPOSED

SCALE: 1/4" = 1'0"

#### **ELECTRICAL DRAWING NOTES:**

- COORDINATE EXACT LOCATION AND MOUNTING OF KITCHEN ISLAND RECEPTACLES WITH MILLWORK ON SITE.
- 2 PROVIDE A 20A, 120V, 5-20R, GFI RECEPTACLE WITHIN 7.5M OF ROOFTOP EQUIPMENT. CONFIRM ROUTING ON SITE. ENSURE RECEPTACLE IS A MINIMUM 750MM ABOVE FINISHED ROOF AND PROTECTED FROM MECHANICAL DAMAGE. PROVIDE A WEATHER-PROOF WHILE-IN-USE COVER.
- RECEPTACLES TO BE EQUIPPED WITH A WET LOCATION, WHILE IN USE COVER PLATE EQUAL TO HUBBELL RW57300.
- 4 REMOVE AND MAKE SAFE ALL ELECTRICAL DECIVES IN THE WALLS. REUSE CIRCUITS TO SERVE NEW ELECTRICAL LAYOUT AS SHOWN.
- (5) REMOVE AND RE-INSTALL RECEPTACLE C/W BOX EXTENSION TO

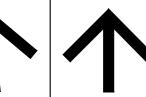
ACCOMMODATE NEW MILLWORK.

- $\langle 6 \rangle$  ROUTE TWO (2) 2" CONDUIT C/W PULLSTRING TO EXTERIOR AS SHOWN. PROVIDE FIRESTOP, COVERS AND PULL BOXES AS REQUIRED. STUB UP AND CAP CONDUIT AT EXTERIOR WALL OF DPSSSAB OFFICES. PROVIDE EXPANSION JOINT WHERE EVER CONDUIT BREACHES GROUND. REFER TO SITE PLAN FOR ADDITIONAL DETAIL.
- PROTECT AND MAINTAIN EXISTING HYDRO METER, ATS AND ASSOCIATED CONDUIT AND TECK CABLES.
- 8 SMOKE ALARM C/W RELAY BASE TO INTERCONNECT BUILDING SMOKE ALARM.
- 9 DEMOLISH ELECTRICAL CONNECTION TO FURNACE. FURNACE TO BE REMOVED
- (10) INTERLOCK BARRIER FREE DOOR SYSTEM WITH SECURITY SYSTEM.
- (11) APPROXIMATE LOCATION OF SERVER.
- PROVIDE CONDUIT STUB C/W PULL STRING TO NEAREST ACCESSIBLE CEILING FOR FUTURE FIT UP BY OWNER'S FORCES.
- (13) MAINTAIN EXISTING DATA DROP.
- CABLE SIZES ALL SHOWN FOR CODE COMPLIANCE. TERMINATE EXISTING CIRCUITS ON NEW PANELS, IF EXISTING CIRCUITS ARE UNDERSIZED, ADVISE CONSULTANT AS SOON AS POSSIBLE.
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#### **GENERAL NOTES:**

- 1. INCLUDE IN CONTRACT TO REMOVE ABANDONED WIRING WHEREVER IT IS
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TRUE NORTH PROJECT NORTH

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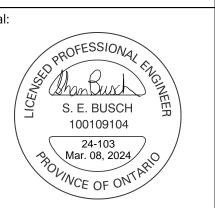
#### **REVISION SCHEDULE**

DESCRIPTION 0 ISSUED FOR TENDER MAR. 08, 2024

- 2. REMOVE ALL LIGHTING AND ASSOCIATED LIGHTING CONTROL. MAINTAIN
- 3. REFER TO ARCHITECTURAL LAYOUTS FOR EXTENT OF REMOVALS. 4. DOOR ACCESS AND INTERCOM SCOPE TO BE COMPLETED BY OWNERS
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- 5. ALL CONDUIT FOR DOOR ACCESS AND INTERCOM TO BE ROUTED BACK TO SERVER RACK IN BASEMENT.

Project Status:

**ISSUED FOR** 





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

**ESPRIT WOMEN'S** SHELTER **RENOVATION** 

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title:

ELECTRICAL POWER & SYSTEMS UPPER LEVEL FLOOR PLAN

Project No:

22-033B

Drawn By: BR Date: Mar. 7, 24 Checked By: SB Scale: 1/4" = 1' - 0"



LIGHTING & FIRE ALARM - BASEMENT - PROPOSED

SCALE: 1/4" = 1'0"

#### **ELECTRICAL DRAWING NOTES:**

- (1) COORDINATE EXACT LOCATION AND MOUNTING OF KITCHEN ISLAND RECEPTACLES WITH MILLWORK ON SITE.
- PROVIDE A 20A, 120V, 5-20R, GFI RECEPTACLE WITHIN 7.5M OF ROOFTOP EQUIPMENT. CONFIRM ROUTING ON SITE. ENSURE RECEPTACLE IS A MINIMUM 750MM ABOVE FINISHED ROOF AND PROTECTED FROM MECHANICAL DAMAGE. PROVIDE A WEATHER-PROOF WHILE-IN-USE COVER.
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- 4 REMOVE AND MAKE SAFE ALL ELECTRICAL DECIVES IN THE WALLS. REUSE
- CIRCUITS TO SERVE NEW ELECTRICAL LAYOUT AS SHOWN.

  (5) REMOVE AND RE-INSTALL RECEPTACLE C/W BOX EXTENSION TO

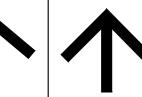
ACCOMMODATE NEW MILLWORK.

- 6 ROUTE TWO (2) 2" CONDUIT C/W PULLSTRING TO EXTERIOR AS SHOWN. PROVIDE FIRESTOP, COVERS AND PULL BOXES AS REQUIRED. STUB UP AND CAP CONDUIT AT EXTERIOR WALL OF DPSSSAB OFFICES. PROVIDE EXPANSION JOINT WHERE EVER CONDUIT BREACHES GROUND. REFER TO SITE PLAN FOR ADDITIONAL DETAIL.
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TRUE NORTH PROJECT NORTH

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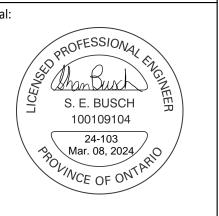
#### REVISION SCHEDULE

No. DESCRIPTION DATE

0 ISSUED FOR TENDER MAR. 08, 2024

Project Status:

ISSUED FOR





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

# ESPRIT WOMEN'S SHELTER RENOVATION

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Trawing Title:

ELECTRICAL LIGHTING & FIRE ALARM BASEMENT FLOOR PLAN

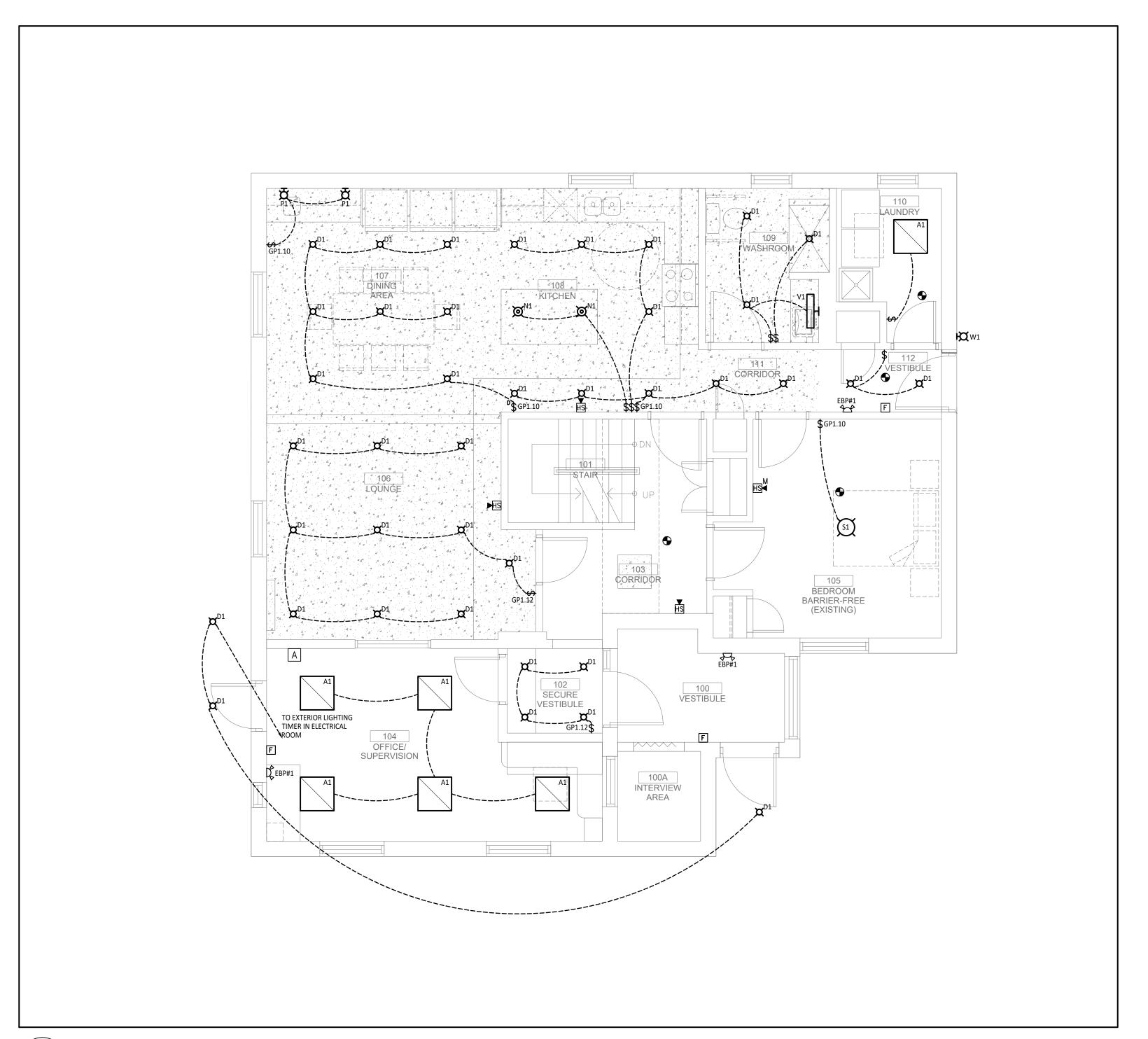
Project No

22-033B

Drawn By: BR Date: Mar. 7, 24

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

Drawing No: Revision



LIGHTING & FIRE ALARM - FIRST LEVEL - PROPOSED

SCALE: 1/4" = 1'0"

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- 10 INTERLOCK BARRIER FREE DOOR SYSTEM WITH SECURITY SYSTEM.
- 11) APPROXIMATE LOCATION OF SERVER.

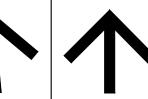
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#### GENERAL NOTES:

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TRUE NORTH PROJECT NORTH

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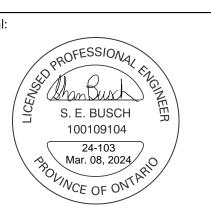
**REVISION SCHEDULE** 

No. DESCRIPTION DATE

0 ISSUED FOR TENDER MAR. 08, 2024

Project Status:

ISSUED FOR





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

# ESPRIT WOMEN'S SHELTER RENOVATION

lress: ECHWOOD DRIVE, PARRY SOUND, O

rawing Title:

ELECTRICAL LIGHTING & FIRE ALARM FIRST LEVEL FLOOR PLAN

Project No

22-033B

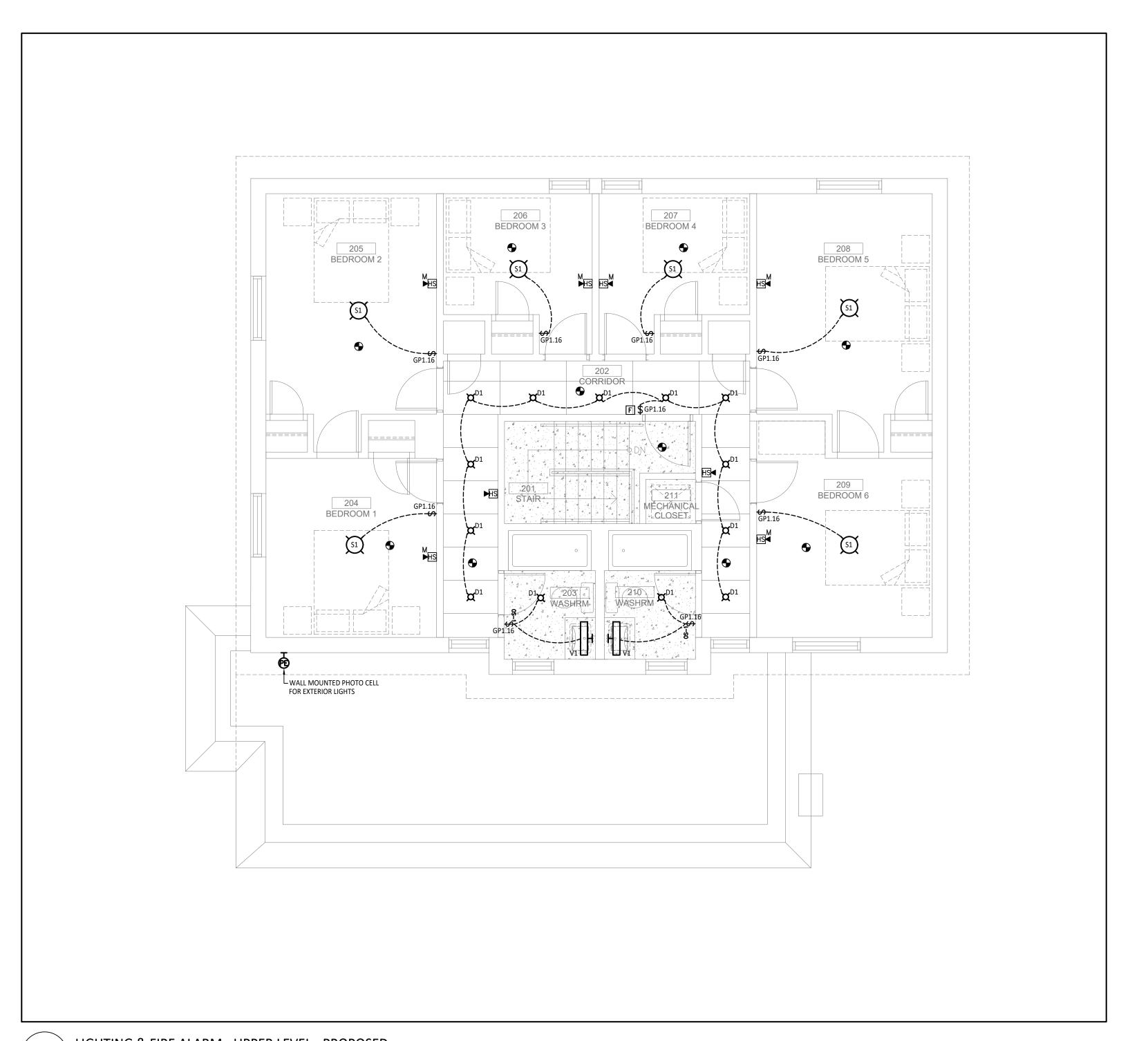
Drawn By: BR Date: Mar. 7, 24

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

Drawing No: Revisio

E302

0



LIGHTING & FIRE ALARM - UPPER LEVEL - PROPOSED

SCALE: 1/4" = 1'0"

#### **ELECTRICAL DRAWING NOTES:**

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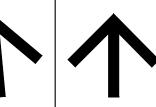
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REVISION SCHEDULE

No. DESCRIPTION DATE

0 ISSUED FOR TENDER MAR. 08, 2024

Project Status:

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ESPRIT WOMEN'S
SHELTER

**RENOVATION** 

Address:
1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

wing Title:

ELECTRICAL
LIGHTING & FIRE ALARM
UPPER LEVEL
FLOOR PLAN

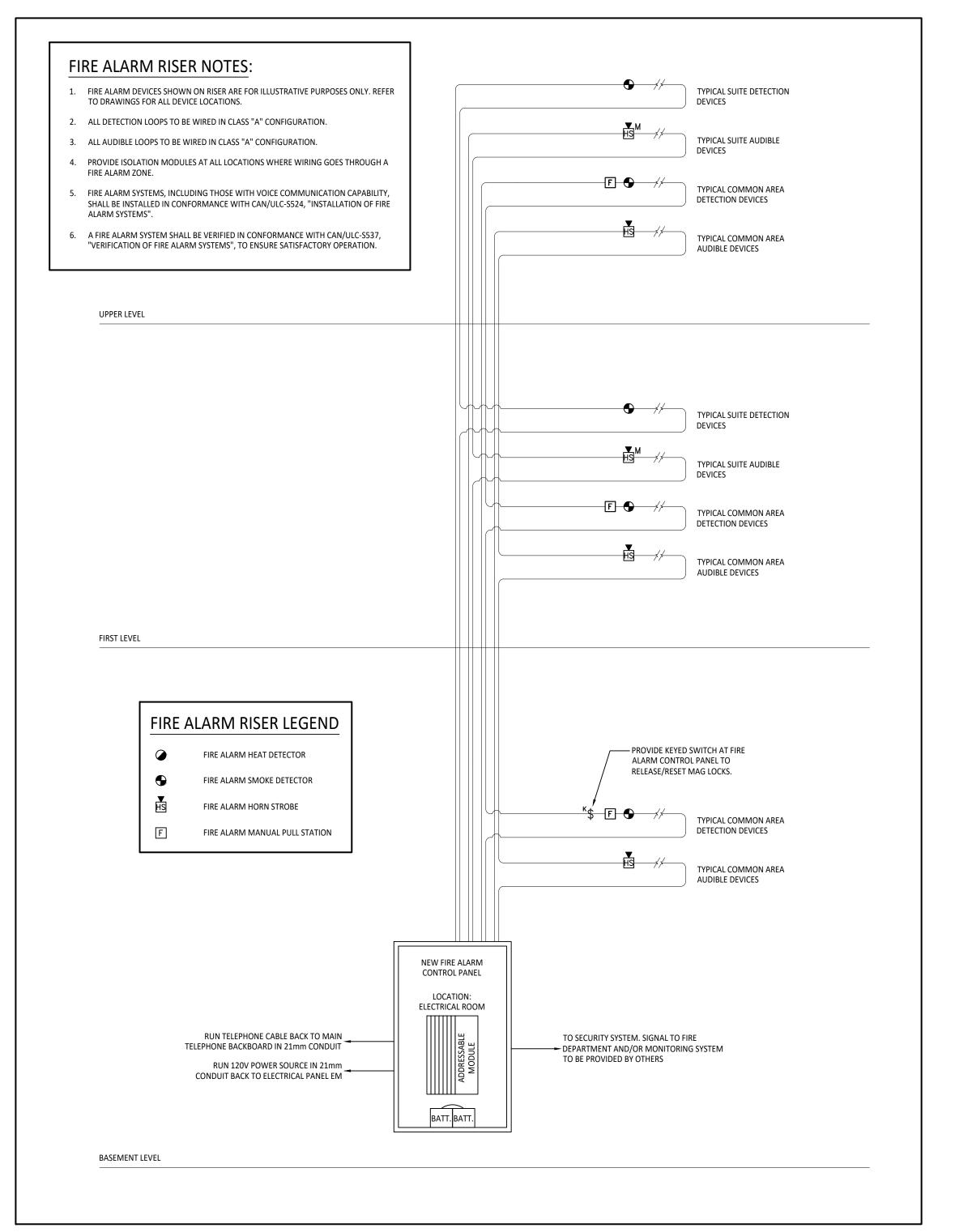
Project No:

22-033B

Drawn By: BR Date: Mar. 7, 24

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

Drawing No: Revision

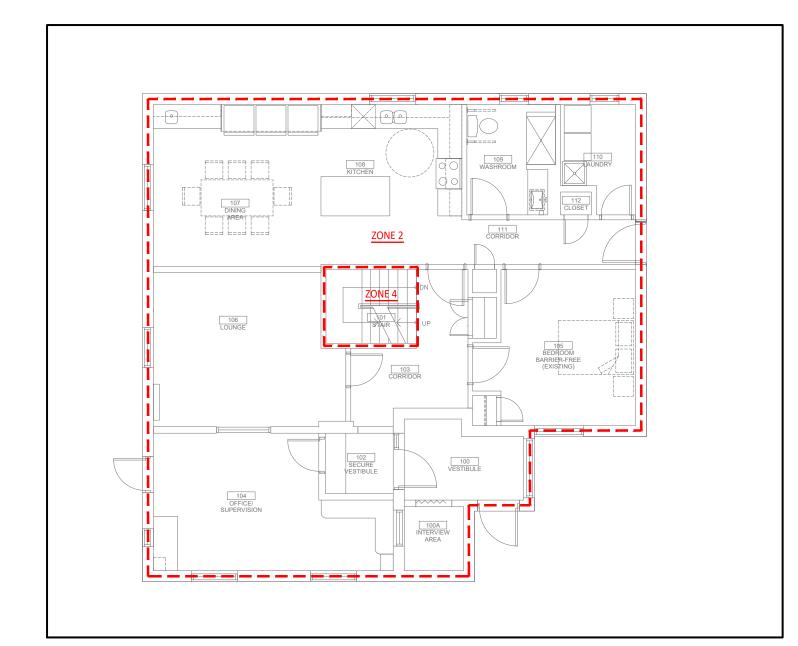


FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

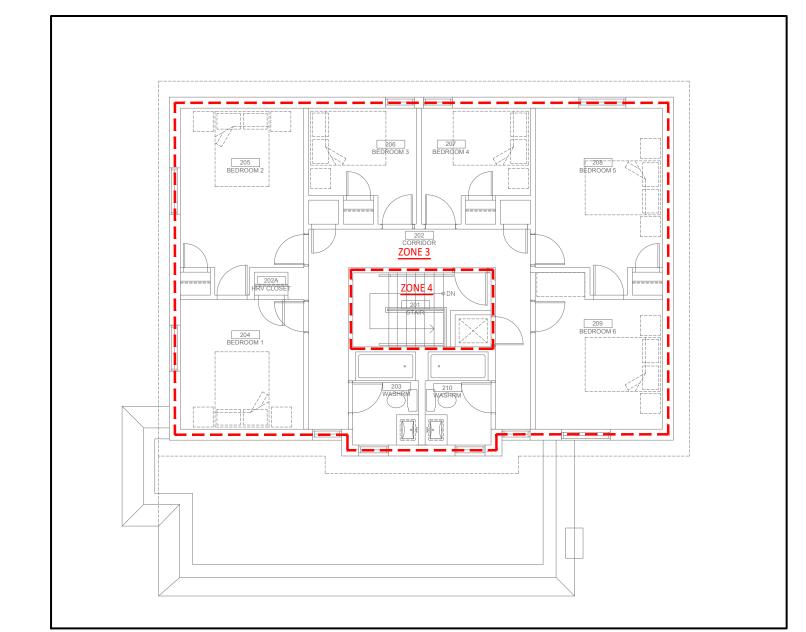
006 OFFICE |--------

FIRE ALARM ZONES - BASEMENT



FIRE ALARM ZONES - FIRST LEVEL

SCALE: N.T.S.



FIRE ALARM ZONES - UPPER LEVEL

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. 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

DESCRIPTION 0 ISSUED FOR TENDER MAR. 08, 2024

SCALE: N.T.S.

Project Status: **ISSUED FOR TENDER** 

S. E. BUSCH 100109104 24-103 Mar. 08, 2024

SUPPA ENGINEERING

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

**ESPRIT WOMEN'S** SHELTER RENOVATION

Address:

1 BEECHWOOD DRIVE, PARRY SOUND, ONTARIO

Drawing Title: ELECTRICAL FIRE ALARM ZONES AND RISER

Project No:

22-033B

Drawn By: BR Date: Mar. 7, 24 Checked By: SB Scale: N.T.S.