PART 1 - TAB AGENCY

1. General:
    1. The basic testing and balancing shall be provided by Division 23 and in accordance with this Section.
    2. The independent TAB Agency employed and paid by Division 23 will be providing the final testing and balancing.
    3. Division 1, General Requirements is part of this Section and shall apply as if repeated here.
2. Quality assurance:
    1. TAB to be performed to standards of ASHRAE.
3. Co-ordination:
    1. Co-ordinate all work specified in this Section.
    2. Provide all facilities required by TAB Agency in order to carry out work of this Section.
4. Adequacy of work for TAB:
    1. TAB Agency to review contract documents before work is started and confirm in writing to Consultant adequacy of provisions for TAB and all other aspects of installation pertinent to TAB.
    2. Division 23 shall provide equipment commissioning and preliminary balancing and confirm the proper operation of all systems.
5. List of TAB Agencies:
    1. ABG Air Balance Group
    (416) 283-0637
    2. Aerodynamics Inspecting Consultants Ltd.
    (905) 625-4388
    3. Design Test Balance
    (905) 886-6513

PART 2- GENERAL

1. TAB: means to test, adjust and balance all systems to perform in accordance with Contract Documents.
2. Follow start-up procedures as recommended by manufacturer unless otherwise specified.

3. Special start-up procedures may be specified elsewhere.

4. Notify Consultant 7 days prior to start of TAB.

5. Operate all systems to permit TAB to be performed.

6. TAB to apply to systems, equipment and related controls specified in Division 23.

7. Reference organization standards:

    1. Do TAB over entire operating range in accordance with most stringent conditions of this specification and standard of following organization.

8. Alternate season testing to be provided by TAB Contractor where applicable.

9. TAB Contractor to inspect site during construction in order to assure that all balancing devices are installed properly and in pre-selected locations.

10. Mechanical contractor to provide the TAB contractor with all related approved shop drawings and change notices.

11. Start TAB only when building is essentially completed, including:

    1. Installation of ceilings, doors, windows and other construction affecting TAB.

    2. Application of sealing, caulking and weatherstripping.

    3. All pressure, leakage and other tests specified elsewhere in Div. 23 completed.

    4. All provisions for TAB are installed and operational.

12. Start-up, verification for proper, safe and normal operation of mechanical and associated electrical and control systems affecting TAB including, but not limited to, the following:

    1. Proper thermal overload protection in place for electrical equipment.

    2. Air Systems:

        1. Filters in place and in clean condition.

        2. Duct systems clean of debris.

        3. Air shafts, ceiling plenums are airtight to within specified tolerances.

        4. Correct fan rotation.

        5. Fire and volume dampers in place and open.

        6. Coil fins cleaned and combed.

        7. Access doors closed and duct end caps in place.

8. All outlets installed and connected.

13. Accuracy tolerances:

    1. Do TAB to following tolerances of design values:

        1. HVAC systems: Plus 5%; minus 5%.

        2. As original tolerances.

        3. Measurements to be accurate to within plus or minus 2% of actual values.

    2. Instrument calibration: to be in accordance with TAB referenced organization standard, but within 3 months of commencement of TAB.

14. Submittals prior to commencement of TAB:

    1. Proposed methodology and procedures for performing TAB.

    2. Proposed check lists and report forms.

    3. List of instrumentation, including details and certificates of calibration.

15. Report:

    1. Format to be in accordance with TAB referenced organization standard, but using SI units.

    2. Report to include as built full system schematics showing results of TAB.

    3. Submit, prior to formal submission of TAB reports, for checking and approval by Consultant, sample of rough TAB sheets. Include:

        1. Details of instruments used.

        2. Details of TAB procedures employed.

        3. Calculations procedures.

        4. Summaries.

    4. Submit 3 copies of TAB reports, each in "D" ring binders, complete with index tabs for verification and approval of Consultant.

16. Verification:

    1. Reported measurements shall be subject to verification by Consultant. Provide instrumentation and manpower to verify results of up to 30% of all reported measurements. Number and location of verified measurements to be at discretion of Consultant.

2. Bear costs to repeat TAB, as required, to satisfaction of Consultant.

1. Settings: lock and permanently mark settings as required by reference standard.

2. Completion: TAB to be considered complete only when final reports are approved by Consultant.

PART 3- AIR MOVING SYSTEMS

1. General: measurements as required by referenced organization standards, including, but not limited to, following:

1. Measurements:

1. Air velocity.

2. Static pressure.

3. Velocity pressure.

4. Temperature:

1. Dry bulb.

5. Cross sectional area.

6. RPM.

7. Electrical power:

1. Voltage
2. Current draw.

2. Location of equipment measurements:

1. Inlet and outlet of each:

1. Fan.

2. Coil.

3. Filter.

4. Damper.

5. Humidifiers.

6. Terminal Units.

7. Other auxiliary equipment.

3. Location of system measurements at:

    1. Main ducts.

    2. Main branch ducts.

    3. Sub-branch ducts.

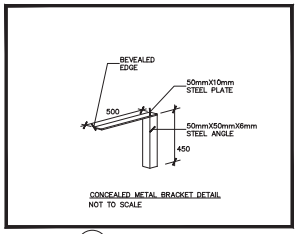
    4. Each supply, exhaust and return air inlet and outlet.

    5. Other auxiliary equipment.

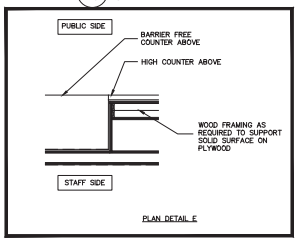
    6. All areas served by system.

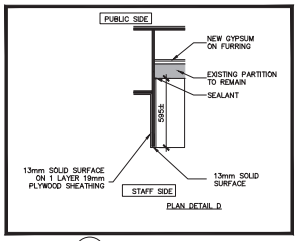
    7. Each thermostatically controlled zone.

END OF SECTION 23 05 93

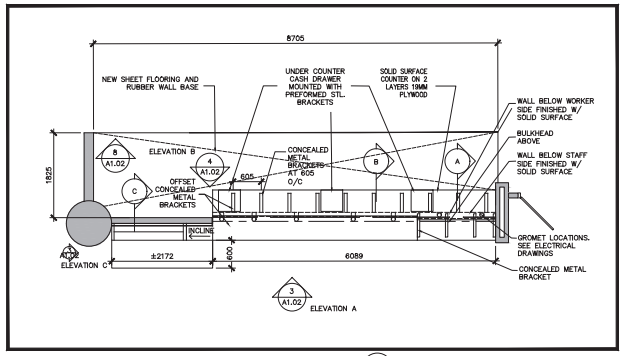


7 A1.02 CONCEALED BRACKET DETAIL
SCALE NTS

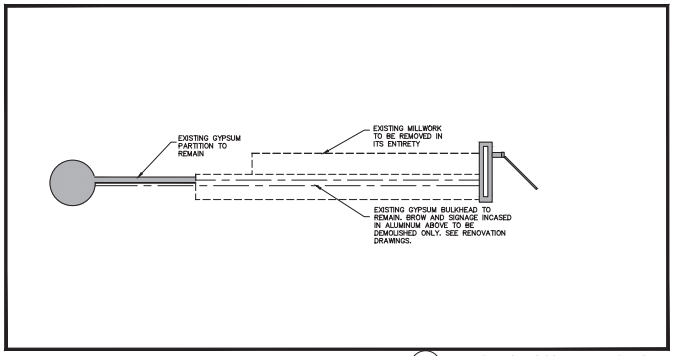




6 A1.02 CASEWORK PLAN DETAILS
SCALE 1:20



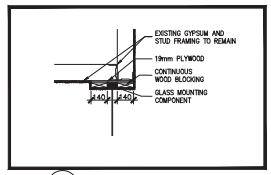
1 A1.02 PLAN TICKET SALES COUNTER RENOVATION
SCALE 1:50



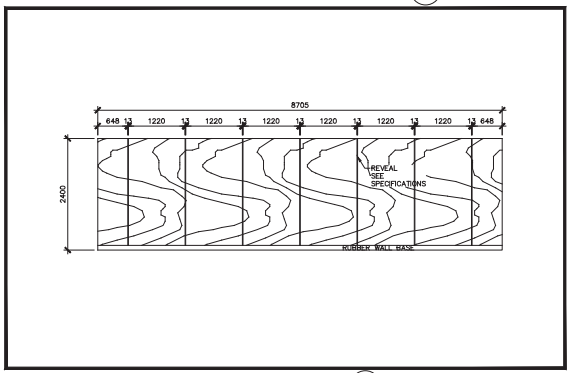
2 A1.02 PLAN TICKET SALES COUNTER DEMOLITION
SCALE 1:50

MILLWORK NOTES:

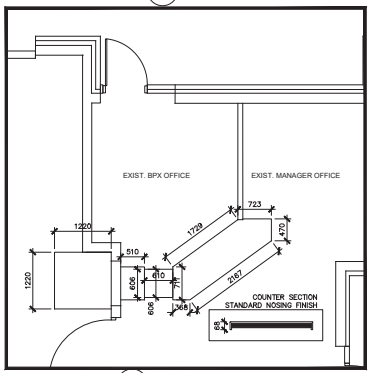
1. PROVIDE ALL CUTOUTS FOR MISCELLANEOUS OPENINGS AS REQUIRED BY ALL TRADES. COORDINATE LOCATION AND SIZES FOR CUTOUTS WITH ALL TRADES BEFORE CUTTING OPENINGS. FINISH EXPOSED EDGES TO MATCH ADJACENT CASEWORK. COORDINATE WITH OTHER TRADES ALL REQUIRED ROUGH OPENINGS FOR FIXTURES BY OTHERS TO BE MOUNTED WITHIN CASEWORK.
2. SITE MEASURE ALL DIMENSIONS PRIOR TO FABRICATION AND REPORT ANY INCONSISTENCIES TO THE PRIME CONSULTANT.
3. ALL CONCEALED METAL BRACKETS SHALL BE SUPPLIED AND INSTALLED BY DIVISION 06 40 00. REFER TO SECTION 05 50 00 METAL FABRICATIONS FOR STEEL SPECIFICATIONS AND REQUIREMENTS. ALL OTHER METAL FABRICATIONS SHALL BE SUPPLIED SOLELY THROUGH SECTION 05 50 00.



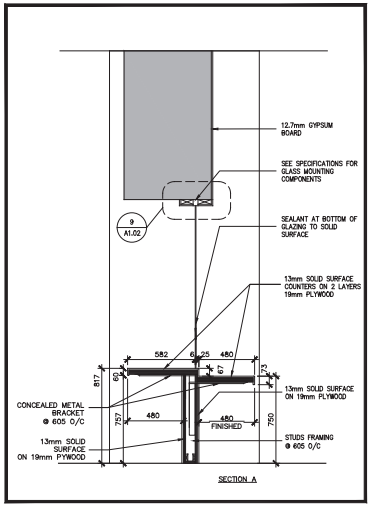
9 A1.02 BULKHEAD SECTION DETAIL
SCALE 1:20

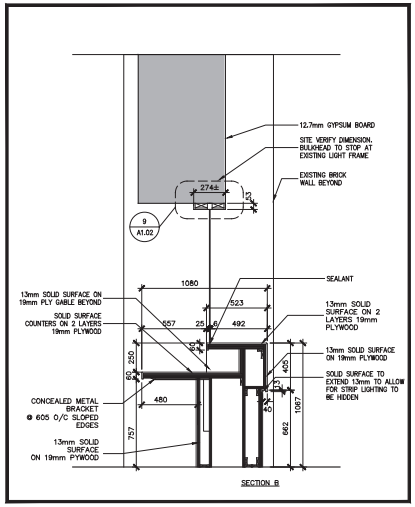


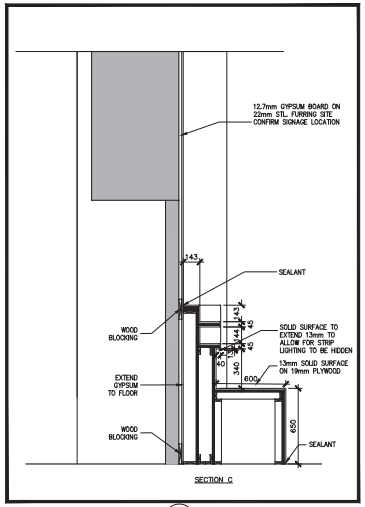
8 A1.02 INTERIOR ELEVATION WORKING SIDE
SCALE 1:50



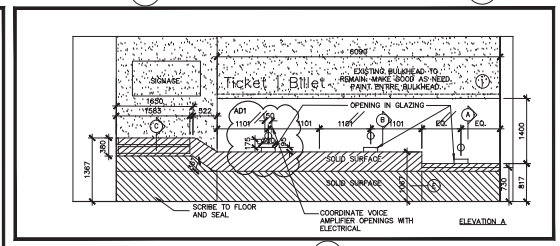
8 A1.02 NEW SS COUNTER TOP
SCALE 1:20



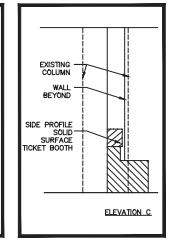


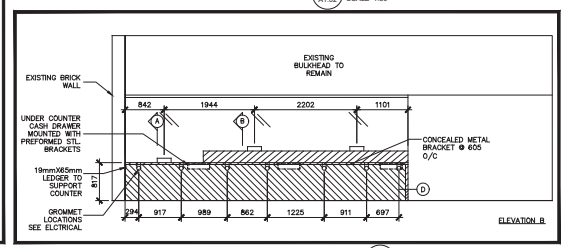


5 A1.02 CASEWORK SECTION DETAILS
SCALE 1:20



3 A1.02 INTERIOR ELEVATION PUBLIC SIDE
SCALE 1:50





4 A1.02 INTERIOR ELEVATION WORKING SIDE
SCALE 1:50

CASEWORK FINISH LEGEND:

- SOLID SURFACE COLOUR 1 SEE SPECIFICATIONS
- SOLID SURFACE COLOUR 2 SEE SPECIFICATIONS
- PAINTED GYPSUM BOARD

No.	Date	Revision
1	05.13.2025	ISSUED FOR TENDER
2	07.8.2025	ISSUED FOR ADDENDUM

Do not scale from this drawing. The Constructor shall verify all actual on site dimensions and report any discrepancies to the Consultant prior to proceeding with the work.

ONTARIO ASSOCIATION OF ARCHITECTS
IAN HILL
LICENCE
6888

CRITCHLEY HILL
ARCHITECTURE
CRITCHLEY HILL ARCHITECTURE INC.
NORTH BAY ONTARIO 705.995.2391 CRITCHLEYHILL.CA

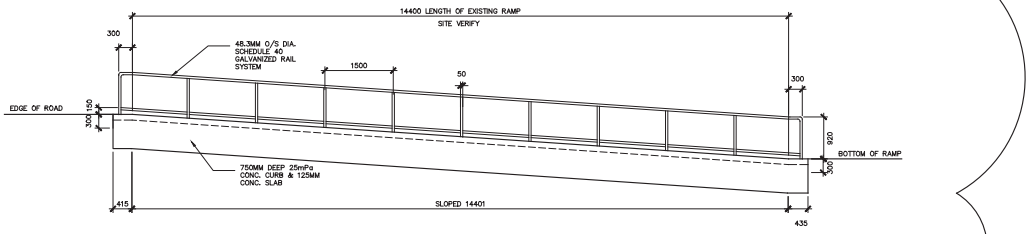
Project:
ONTARIO NORTHLAND BUS TERMINAL
RENOVATIONS AND BARRIER FREE ACCESS
100 STATION RD.
NORTH BAY, ONTARIO

Drawing Title:
RENOVATION FLOOR PLAN
DEMOLITION FLOOR PLAN
INTERIOR ELEVATIONS
PLAN & SECTION DETAILS

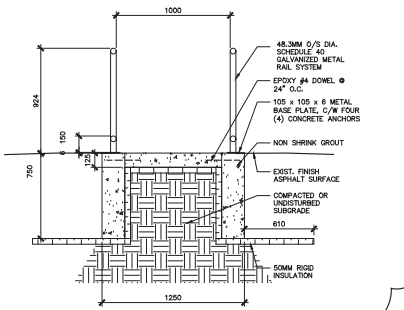
Drawn By:	Checked By:
ES	IH
Scale: 1:50	Project No: 2353
Date Plotted: July 8, 2025	
Date Revised: April 3, 2025	

Drawing No:
AD1.02

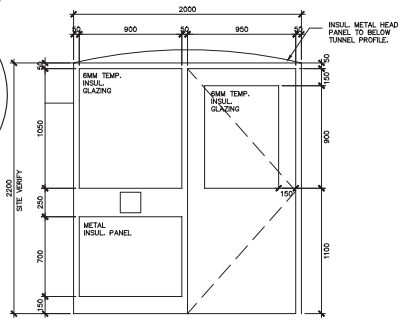
AD1



3 A3.00 NEW HANDRAIL ELEVATION
SCALE 1:50



4 A3.00 NEW RAILING SECTION
SCALE 1:20



5 A3.00 NEW DOOR
SCALE 1:25

HARDWARE LIST

B101 – 1 DOOR POWER OPERATOR

B102 – ADJUST EXISTING DOOR OPERATOR

B103 – 1 CONTINUOUS HINGE
1 DOOR POWER OPERATOR
1 EXIT DEVICE
1 SET WEATHER STRIPPING
1 THRESHOLD

DOOR B103
INSUL. H.M. FRAME
146 THROAT SIZE
INSUL. H.M. DOOR
INSUL. METAL PANEL.

TEMP.
6 MIL INSUL.
DOUBLE GLAZING

No.	Date	Revision
1	26.7.2025	ISSUED FOR ADDENDUM
0	25.1.3.2025	ISSUED FOR TENDER

Do not scale from this drawing. The Constructor shall verify all actual on site dimensions and report any discrepancies to the Consultant prior to proceeding with the work.

ONTARIO ASSOCIATION OF ARCHITECTS
IAN HILL
LICENCE 5083

CRITCHLEY HILL
ARCHITECTURE
CRITCHLEY HILL ARCHITECTURE INC.
NORTH BAY ONTARIO 705.995.2391 CRITCHLEYHILL.CA

Project:
ONTARIO NORTHLAND BUS TERMINAL
COUNTER, BARRIER FREE ACCESS, & WASHROOM UPGRADES
100 STATION RD.
NORTH BAY ONTARIO

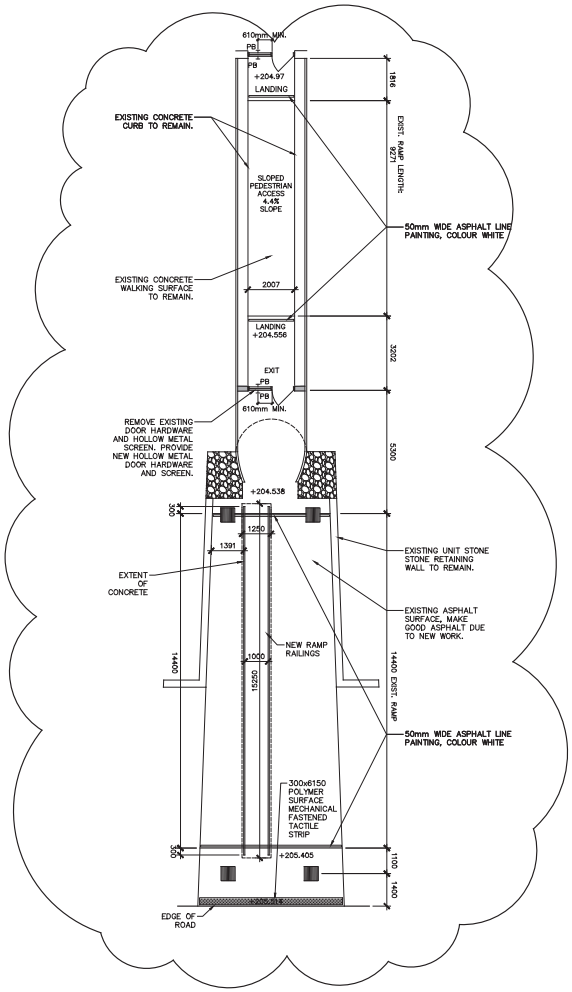
Drawing Title:
RAMP, RAILING AND DOOR DETAILS
HARDWARE LIST

Drawn By:	Checked By:
E.S	AE
Scale: 1:100	Project No: 2353

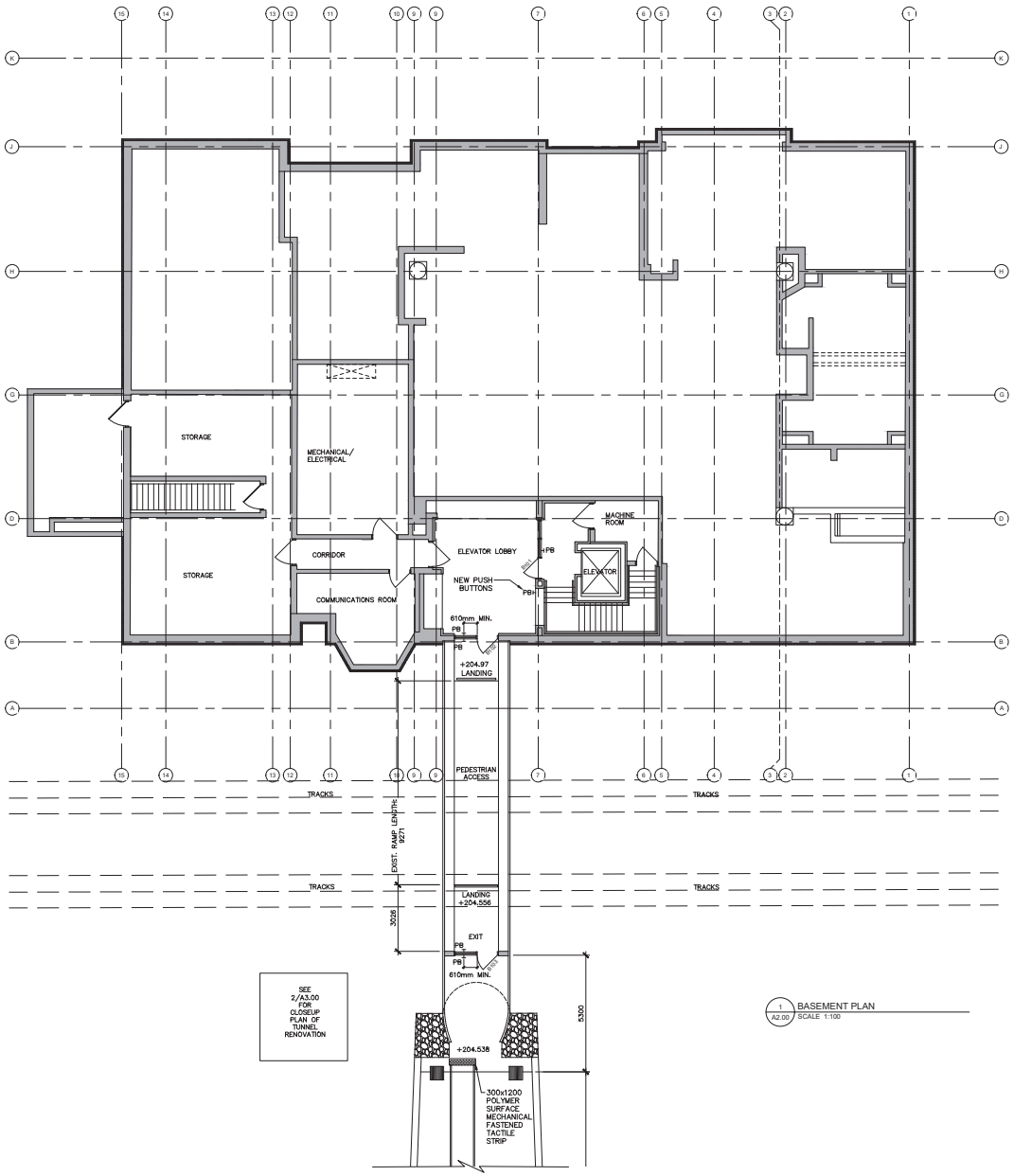
Date Plotted: July 24, 2025

Date Revised: January 3, 2024

Drawing No:
AD3.00



2 EXIT TUNNEL PLAN
A2.00 SCALE 1:100



1 BASEMENT PLAN
A2.00 SCALE 1:100

Date	Reason
05.13.2025	ISSUED FOR TENDER

Do not scale from this drawing. The Constructor shall verify all actual on site dimensions and report any discrepancies to the Consultant prior to proceeding with the work.

ONTARIO ASSOCIATION OF ARCHITECTS
IAN HILL
LICENCE
6388

CRITCHLEY HILL
ARCHITECTURE
CRITCHLEY HILL ARCHITECTURE INC.
NORTH BAY ONTARIO 705.995.2391 CRITCHLEYHILL.CA

Project:
ONTARIO NORTHLAND BUS TERMINAL
COUNTER, BARRIER FREE ACCESS, & WASHROOM UPGRADES
100 STATION RD.
NORTH BAY ONTARIO

Drawing Title:
BASEMENT FLOOR PLAN
EXIT TUNNEL FLOOR PLAN

Drawn By: E.S	Checked By: AE
Scale: 1:100	Project No: 2353
Date Plotted: July 9, 2025	
Date Revised: January 3, 2024	

Drawing No:
AD2.00