

August 26 2024

Client File No. 3009.10

Director
Environmental Approvals Branch
Environment and Climate Change
Box 35, 14 Fultz Boulevard
Winnipeg MB R3Y 0L6

RE: Notice of Alteration (NoA) for 99 Murray Park Road – Licence No. 1301 RR

The Boeing Canada Operations Ltd. facility located at 99 Murray Park Road in Winnipeg Manitoba is currently operating under Environment Act Licence No. 1301 RR originally issued on August 28th 1989, later revised on October 15th 1997, and most recently revised on August 18th 2016.

Section 14 of the Manitoba Environment Act requires that Manitoba Environment and Climate Change be notified and approve of any alterations to a development.

This notice of alteration is intended to provide Manitoba Environment and Climate Change with notification of Boeing Canada Operations Ltd.'s plans to replace an existing 2,200-liter poly wastewater holding tank with a new 6,000-liter poly replacement tank. This tank is used to collect and store wastewater that is generated by floor cleaning operations in the facility. The water is removed by vacuum truck and transported to a local wastewater treatment plant under the City of Winnipeg's Hauled Wastewater program.

This change is being proposed to improve operational and maintenance costs by increasing the tank capacity and therefore reducing the frequency of servicing that is required.

If you have any further questions or require additional information, please contact the undersigned.


Sincerely,

Rebecca Wroblewski

Environmental Specialist
Environment, Health & Safety
Boeing Canada Winnipeg
99 Murray Park Road
Winnipeg MB R3J 3M6
Desk: 204-833-7196
rebecca.wroblewski@boeing.com

Notice of Alteration Form



File No. : 3009.10	Environment Act Licence No. : 1301 RR
Legal name of the Licensee: BOEING CANADA OPERATIONS LTD.	
Name of the development: BOEING CANADA OPERATIONS LTD.	
Category and Type of development per Classes of Development Regulation: Manufacturing <input type="button" value="v"/> <SELECT>	
Licensee Contact Person: REBECCA WROBLEWSKI Mailing address of the Licensee: 99 MURRAY PARK ROAD City: WINNIPEG Province: MANITOBA Postal Code: R3J 3M6 Phone Number:(204) 833-7196 Fax: Email: rebecca.wroblewski@boeing.com	
Name of proponent contact person for purposes of the environmental assessment (e.g. consultant): REBECCA WROBLEWSKI	
Phone: (204) 833-7196 Fax:	Mailing address: 99 MURRAY PARK ROAD WINNIPEG MANITOBA R3J 3M6
Email address: rebecca.wroblewski@boeing.com	
Short Description of Alteration (max 90 characters): REPLACE EXISTING 2,200 LITER WASTEWATER HOLDING TANK WITH NEW 6,000 LITER HOLDING TANK	
Alteration fee attached: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	
If No, please explain: NOT APPLICABLE - NO ALTERED ENVIRONMENTAL IMPACT	
Date: 2024-08-26	Signature:  Printed name: REBECCA WROBLEWSKI
<p>A complete Notice of Alteration (NoA) consists of the following components:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Cover letter <input checked="" type="checkbox"/> Notice of Alteration Form <input checked="" type="checkbox"/> 1 electronic copy of the NoA detailed report (see "Information Bulletin - Alteration to Developments with Environment Act Licences") <input type="checkbox"/> \$500 Application fee, if applicable (Cheque, payable to the Minister of Finance) 	
<p>Submit the complete NoA to: Director, Environmental Approvals Branch Environment and Climate Change Box 35, 14 Fultz Blvd Winnipeg MB R3Y 0L6 EABDirector@gov.mb.ca For more information: Toll-Free: 1-800-282-8069 Phone: 204-945-8321 Fax: 204-945-5229 https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/licence/index.html</p>	
<p>Note: Per Section 14(3) of the Environment Act, Major Notices of Alteration must be filed through submission of an Environment Act Proposal Form (see "Information Bulletin – Environment Act Proposal Report Guidelines")</p>	

Notice of Alteration Report: Wastewater Holding Tank Replacement

**Boeing Canada Winnipeg
Boeing Canada Operations Ltd.
99 Murray Park Road, Winnipeg, Manitoba**

**Environment Act Licence No. 1301 RR
Client File No. 3009.10**

August 26th 2024

1. Executive Summary

This notice of alteration is to provide Manitoba Environment and Climate Change with notification of Boeing Canada Winnipeg's (Boeing Canada Operations Ltd.) plans to replace an existing 2,200-liter wastewater holding tank with a new 6,000-liter replacement tank.

This tank is used to collect and store wastewater that is generated by floor cleaning operations in the facility. The water is removed by vacuum truck and transported to a local wastewater treatment plant under the City of Winnipeg's Hauled Wastewater Program (Registration # 12664-130960, Barcode # 9012997).

This change is being proposed to improve operational and maintenance costs by increasing the tank capacity and therefore reducing the frequency of servicing that is required. This alteration is proposed to be completed by the end of October 2024.

2. Proposed changes to the Development as Licensed

The location of the existing holding tank is in the northeast corner of the building, located within the facility's Maintenance Room (Figure 1: Holding Tank Location – 99 Murray Park Road). This area is currently being renovated to allow for more storage space for equipment (material handling, janitorial, snow clearing, etc.) in our Maintenance Department.

The proposed change to the development as licensed is the removal of the existing 2,200-liter holding tank and the installation of a 6,000-liter poly holding tank (Figure 2: Maintenance Room Renovation Design Plan).

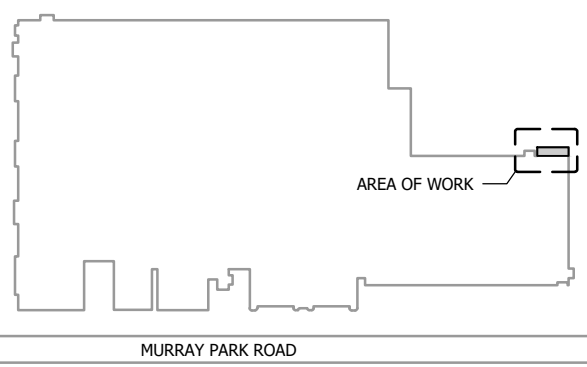
3. Changes in Environmental Effects as a Result of the Proposed Changes

No changes in environmental effects are anticipated as a result of the proposed tank replacement. The wastewater profile and overall volumes produced for treatment and disposal are not anticipated to change. It is believed that the proposed alteration will in fact improve the overall impact of Boeing Canada Winnipeg's wastewater disposal program by reducing transportation frequency and associated vehicle emissions.

Figure 1: Holding Tank Location – 99 Murray Park Road

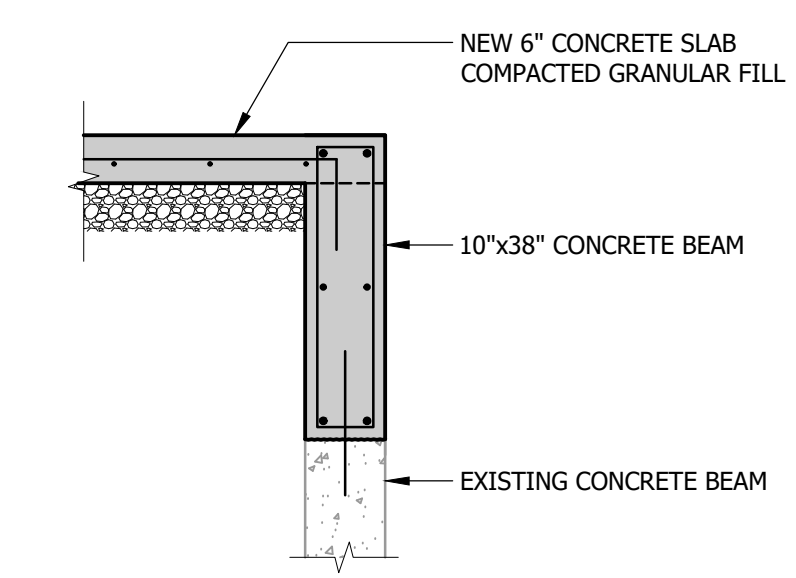
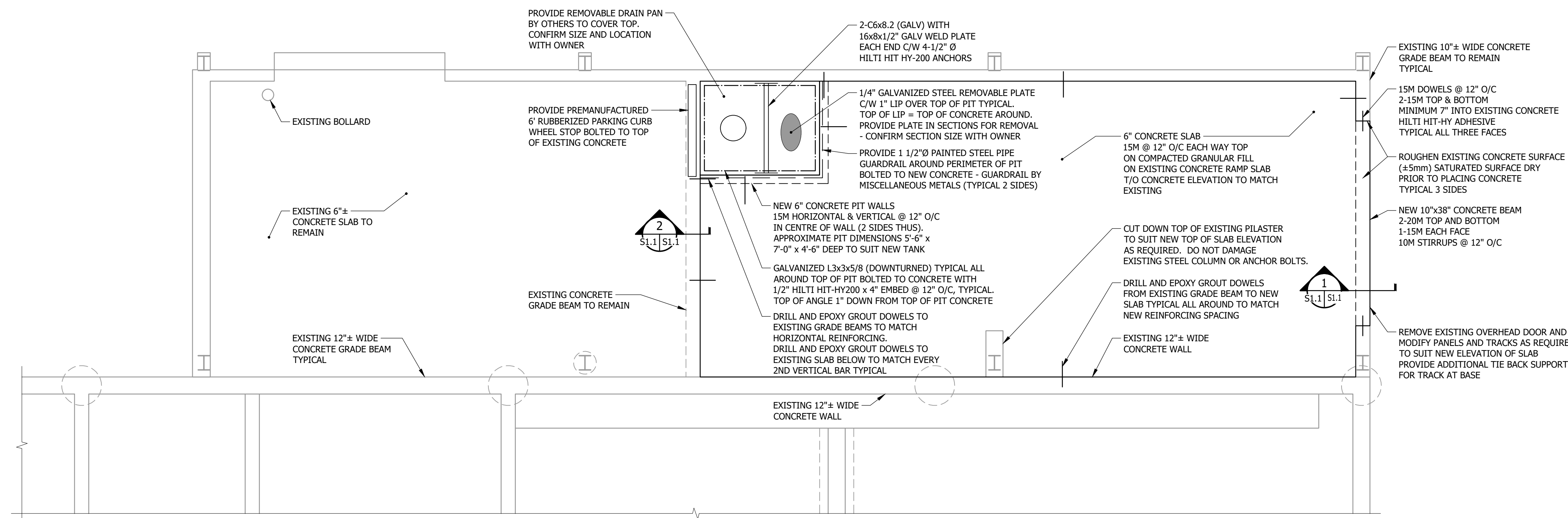


Figure 2: Maintenance Room Renovation Design Plan

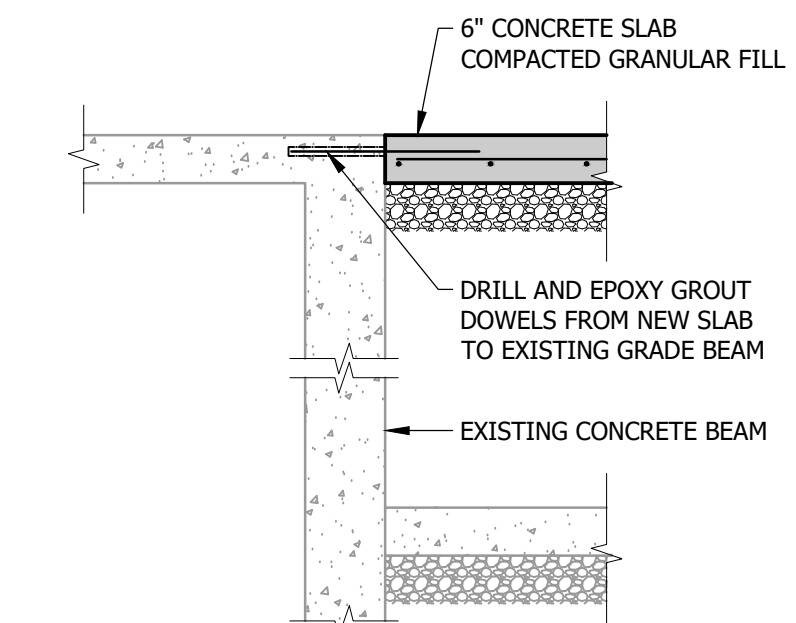


KEY PLAN


NTS



1 SECTION
 S1.1 S1.1 1/2" = 1'-0"



2 SECTION
 S1.1 S1.1 1/2" = 1'-0"

 **PARTIAL MAIN FLOOR FRAMING PLAN**
 1/4" = 1'-0"
 DESIGN LIVE LOAD = 100 PSF

- DEMO AND REMOVE EXISTING HOLDING TANK AND PROVIDE NEW 6000 L TANK.
- DEMO AND REMOVE EXISTING SUMP PUMP AND RELATED EQUIPMENT.
- DEMO AND REMOVE EXISTING 3"Ø PUMP OUT LINE. PROVIDE NEW PUMP OUT LINE TO SUIT NEW INSTALLATION WITH EXISTING CAM LOCK FITTING IN EXTERIOR WALL.

GENERAL NOTES

1. STRUCTURAL DESIGN BASED ON THE MANITOBA BUILDING CODE 2024. ALL CODES AND STANDARDS SHALL BE THE EDITIONS DESIGNATED IN DIVISION B TABLE 1.3.1.2
 - A) IMPORTANCE CATEGORY: NORMAL
 - B) WIND LOAD: q50 = 9.4 P.S.F.
 - C) GROUND SNOW LOAD: Ss = 39.6 P.S.F.
 - D) ASSOCIATED RAIN LOAD: Sr = 4.2 P.S.F.
 2. SITE CLASS E ASSUMED FOR SEISMIC LOADING.
 3. DO NOT SCALE DRAWINGS.
 4. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 5. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR CONTRACTOR CONSTRUCTION MANAGER PROJECT MANAGER SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO ALL TEMPORARY SHORING/BRACING.
 6. THE EXISTING BUILDING FOUNDATIONS HAVE BEEN REVIEWED AND CAN SUPPORT ALL NEW LOADING CONDITIONS SHOWN ON THESE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE 2024 MANITOBA BUILDING CODE, UNLESS NOTED.
- CAST-IN-PLACE CONCRETE
1. CONCRETE
 1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CSA-A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.2 "METHOD OF TEST FOR CONCRETE".
 2. PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
 3. PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
 4. CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH CSA-A23.1. MINIMUM ONE SET OF TESTS PER POUR. COST OF TESTING TO BE CARRIED BY THE CONTRACTOR
 5. CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

GRADE BEAMS:	35 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: F-2 ENTRAINED AIR/CATEGORY: 1 (5% TO 8%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 - ADDITIONAL
INTERIOR SLABS-ON-GRADE:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE AGGREGATE MAX. 20 mm CURING TYPE: TYPE 1 - BASIC

UNLESS INDICATED OTHERWISE THE GENERAL CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE GENERAL CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.
 6. UNLESS NOTED OTHERWISE CONCRETE CURING TO CONFORM TO THE LATEST EDITION OF CSA-A23.1 AS FOLLOWS:
 - A) TYPE 1 - BASIC: 3 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
 - B) TYPE 2 - ADDITIONAL: 7 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
 - C) TYPE 3 - EXTENDED: 7 DAYS WET CURING ≥ 10°C.

- II REINFORCING STEEL
 1. ALL REINFORCING STEEL TO BE CSA-G30.18M-M92 GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL.
 2. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED. ALL LAPPED SPLICES TO BE CLASS B SPLICES, UNLESS NOTED.
 3. REINFORCING STEEL COVER IS TO CONFORM TO CAN/CSA A23.3 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:

GRADE BEAMS:	2 IN. BOTTOM TO TIES	1 1/2 IN. SIDES AND TOP TO TIES.
INTERIOR SLABS-ON-GRADE:	1 1/2 IN. TOP	3/4 IN. BOTTOM
 4. IN WALLS AND GRADE BEAMS, BEND ALL TOP, INTERMEDIATE, AND BOTTOM HORIZONTAL STEEL 2'-0" AROUND CORNERS, OR USE EXTRA L BARS 4'-0" LONG. ALL OPENINGS IN WALLS TO HAVE 2-15M EACH SIDE AND 2-25M OVER, EXCEPT AS NOTED.
 5. IN WALLS, TOP STEEL TO BE LAPPED AT CENTRE SPAN WITH CLASS A TENSION SPLICES, BOTTOM STEEL TO BE BUTTED AT SUPPORT, HORIZONTAL STEEL TO BE LAPPED WITH CLASS A TENSION SPLICES, VERTICAL STEEL TO BE LAPPED WITH CLASS B TENSION SPLICES, EXCEPT AS NOTED.
 6. IN SLABS ON GRADE, BARS TO BE LAPPED WITH CLASS A TENSION SPLICES, EXCEPT AS NOTED.
 7. ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS HI-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. HI-CHAIRS TO HAVE 4 LEGS AND TO BE STAPLED OR NAILED TO THE FORMWORK.
 8. ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLATWORK TO BE TRIMMED WITH 2-15M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
- III FORMWORK
 1. ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC. SHALL BE SUPPORTED BY PADS OF PLYWOOD OR TEMPERED HARDBOARD TO PREVENT PUNCTURING THE VOID FORM, UNLESS NOTED OTHERWISE PROVIDE SLIP JOINT ALL PAVING OR CONCRETE SLABS ON GRADE AGAINST STRUCTURAL MEMBERS WITH 1/2 IN. ASPHALT IMPREGNATED FIBREBOARD.
 2. ALL CONSTRUCTION JOINT KEYS ARE TO BE A MINIMUM OF 1 1/2 IN. DEEP.
 3. PLACE 10 MIL POLYETHYLENE UNDER ALL INTERIOR SLABS ON FILL AND OVER TOP OF VOID FORM.
 4. PROVIDE 6 IN. WIDE, RIBBED, PVC WATERSTOPS IN ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL EXTERIOR WALLS BELOW GRADE AND PIT WALLS.

	0	2024-05-31	ISSUED FOR CONSTRUCTION
Re	[REDACTED]		
Project	BOEING OF CANADA LTD MAINTENANCE ROOM RENOVATIONS		
	99 MURRAY PARK ROAD WINNIPEG, MANITOBA		
Sheet Title	GENERAL NOTES, PARTIAL MAIN FLOOR FRAMING PLAN AND SECTIONS		
Design	RDM	Sheet	
Drawn	ERM/CL/AJP	S1.1	
Project	2022-0811		
Revision	0		