

NEW PUBLIC EXTERIOR WASHROOM INSTALLATION CITY OF BARRIE (STRUCTURAL PLAN)



THE GENERAL CONTRACTOR SHALL CHECK, VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS. DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGRAMMATIC CONCEPTS OF THE DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSISTENCY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

NO	DATE	ISSUE
1	2023.10.13	ISSUED FOR BUILDING PERMIT

DESIGN



LCMA Engineering
138 Homestead Rd. Unit 11 Toronto, ON M1E 3S2
T: (647) 885 4480 E: lcma_eng@yahoo.com

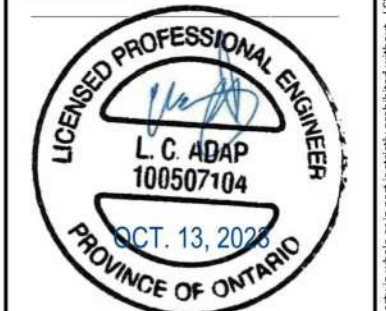
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DO NOT SCALE DRAWINGS.



PROJECT TITLE:

NEW PUBLIC EXTERIOR WASHROOM
CITY OF BARRIE

DRAWING TITLE :

PROJECT TITLE

DRAWN BY:
LJMA

DRAWING NO.

CHECKED BY:
LCA

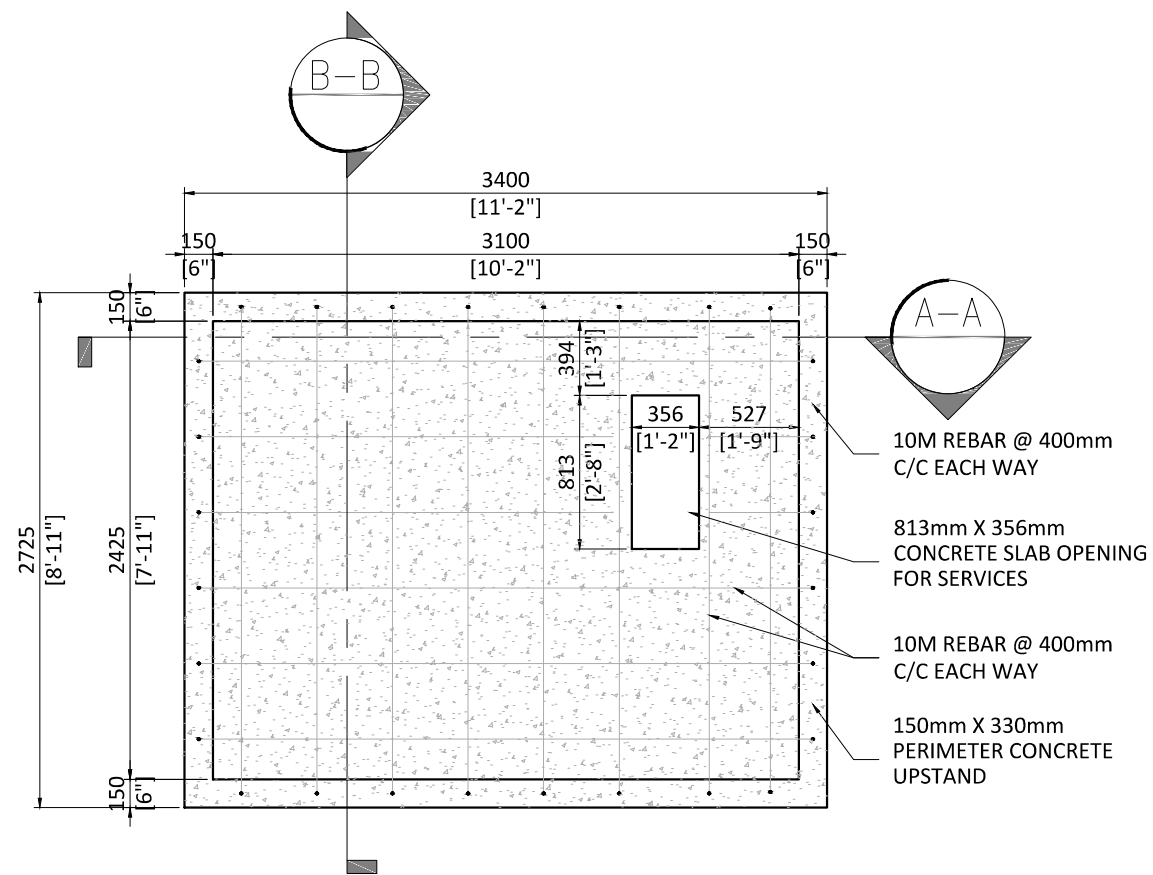
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SCALE:
As shown

DATE:
OCT. 13, 2023

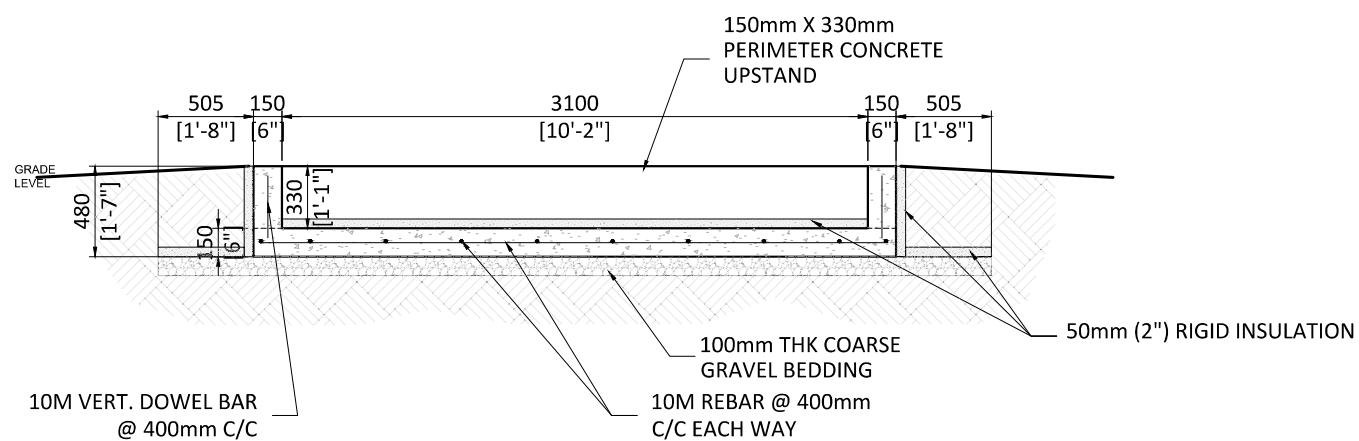
REV. NO. :

PROJECT NO.:



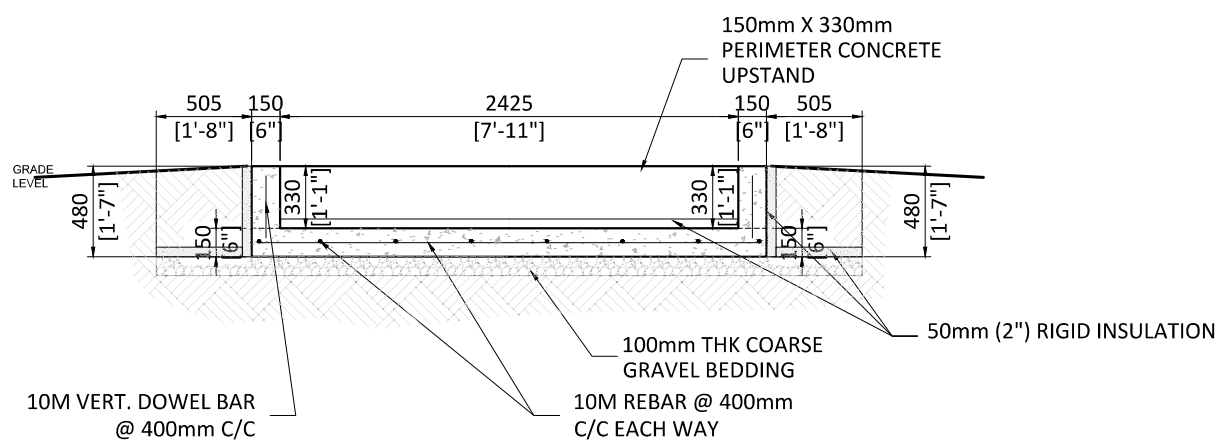
TOP VIEW

SCALE: 1: 50



SECTION A-A

SCALE: 1: 50



SECTION B-B

SCALE: 1: 50

STRUCTURAL NOTES

CONCRETE: (SLAB AND UPSTAND)

1. ALL CONCRETE WORK INCLUDING DESIGN OF COMPONENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH CSA A23.1/A23.2/A23.3
2. CONCRETE COVER TO REINFORCING STEEL SHALL BE: - CONCRETE PLACED ADJACENT TO EARTH = 75 (3") FORMED CONCRETE EXPOSED TO EARTH / WEATHER = 50 (2") ELSEWHERE IN ACCORDANCE WITH CSA A23.1
3. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR RECESSES AND DEPRESSIONS IN SLABS ON GRADE / FOUNDATION WALLS. MAINTAIN SLAB THICKNESS AT ALL TIMES.
4. CONCRETE EXPOSED TO FREEZE/THAW CYCLES SHALL BE AIR ENTERTAINED 5% TO 7% IN ACCORDANCE WITH CSA A23.1.
5. PROVIDE DEFORMED REINFORCING STEEL CONFORMING TO CSA G30.188-M. USE GRADE 300R BARS FOR STIRRUPS AND TIES, AND GRADES 400R BARS FOR ALL OTHER REINFORCING. DETAIL, BEND, PLACE, AND SUPPORT REINFORCING STEEL IN ACCORDANCE WITH ACI 315.
6. ALL FOOTING SHALL BEAR ON NATIVE UNDISTURBED SOIL CAPABLE OF SUPPORTING 75 KPa (1500 PSF). CONTRACTOR TO VERIFY THIS CONDITION PRIOR TO PLACEMENT OF CONCRETE.
7. ALL SLABS ON GRADE SHALL BEAR ON 150 (6") CONSOLIDATED Ø20 (Ø3/4") CLEAR STONE ON UNDISTURBED NATIVE SOIL CAPABLE OF SUPPORTING 25 KPa (525 PSF) WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTING, UNLESS NOTED OTHERWISE.
8. PROVIDE 50 (2") RIGID INSULATION AS SHOWN ON THE DRAWING AND SIDE OF UPSTAND UNIT.

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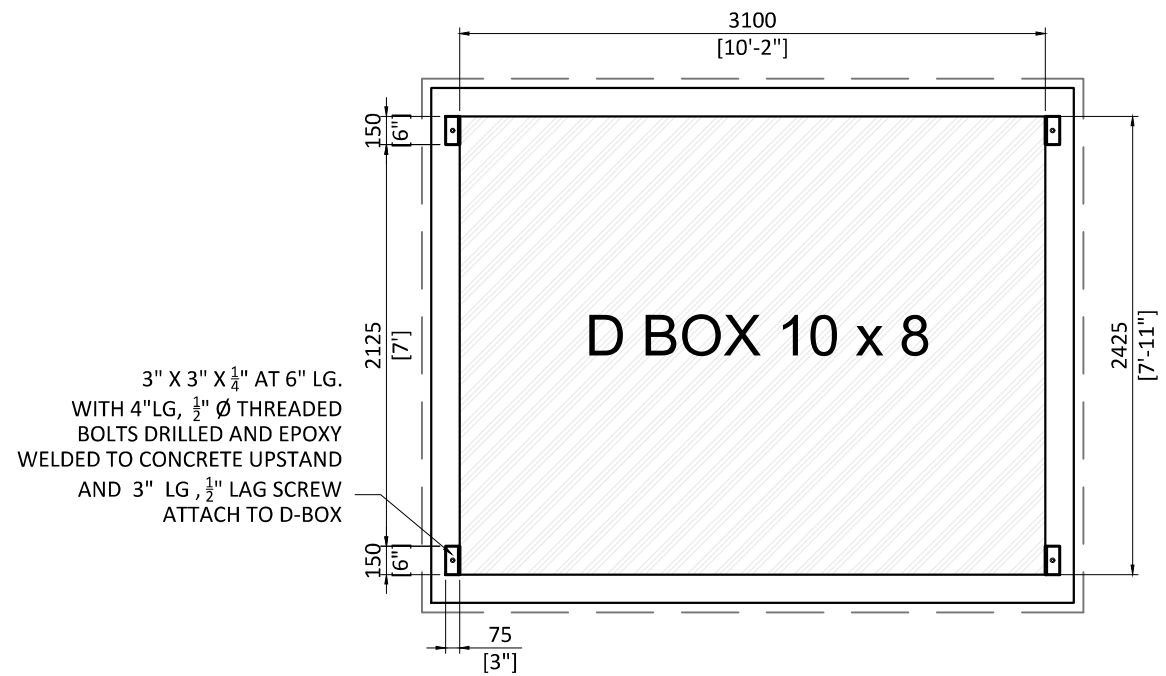
PROJECT TITLE:
NEW PUBLIC EXTERIOR WASHROOM
CITY OF BARRIE

DRAWING TITLE:
CONCRETE SLAB PLAN
SECTION A-A AND B-B

DRAWN BY: LJMA	DRAWING NO. S1
CHECKED BY: LCA	
SCALE: As shown	REV. NO.:
DATE: OCT. 13, 2023	

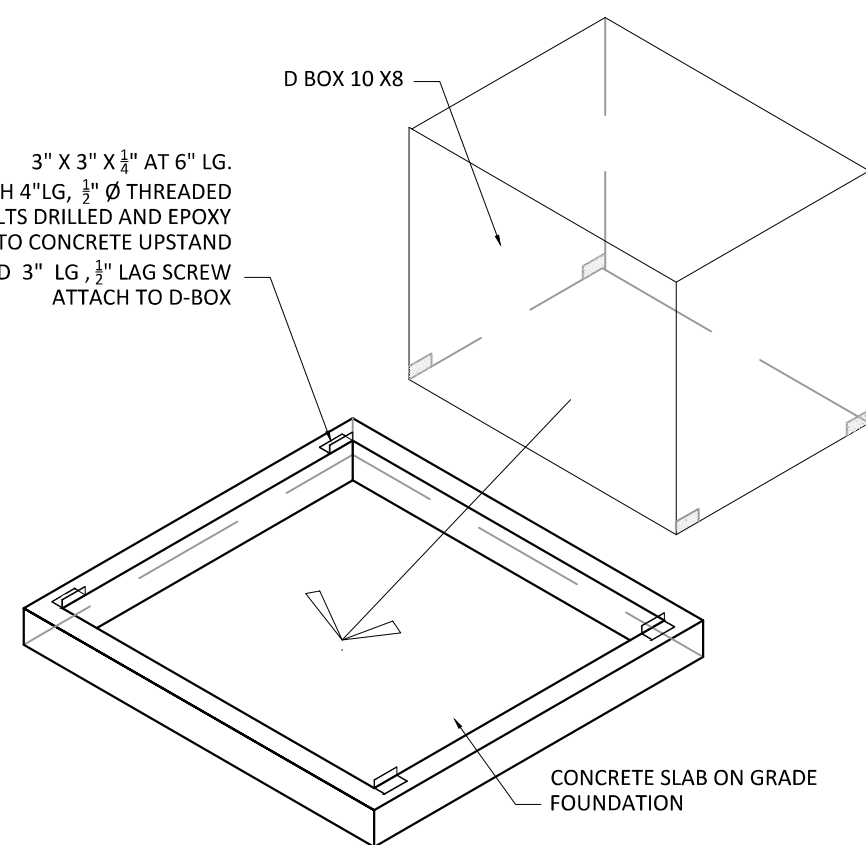
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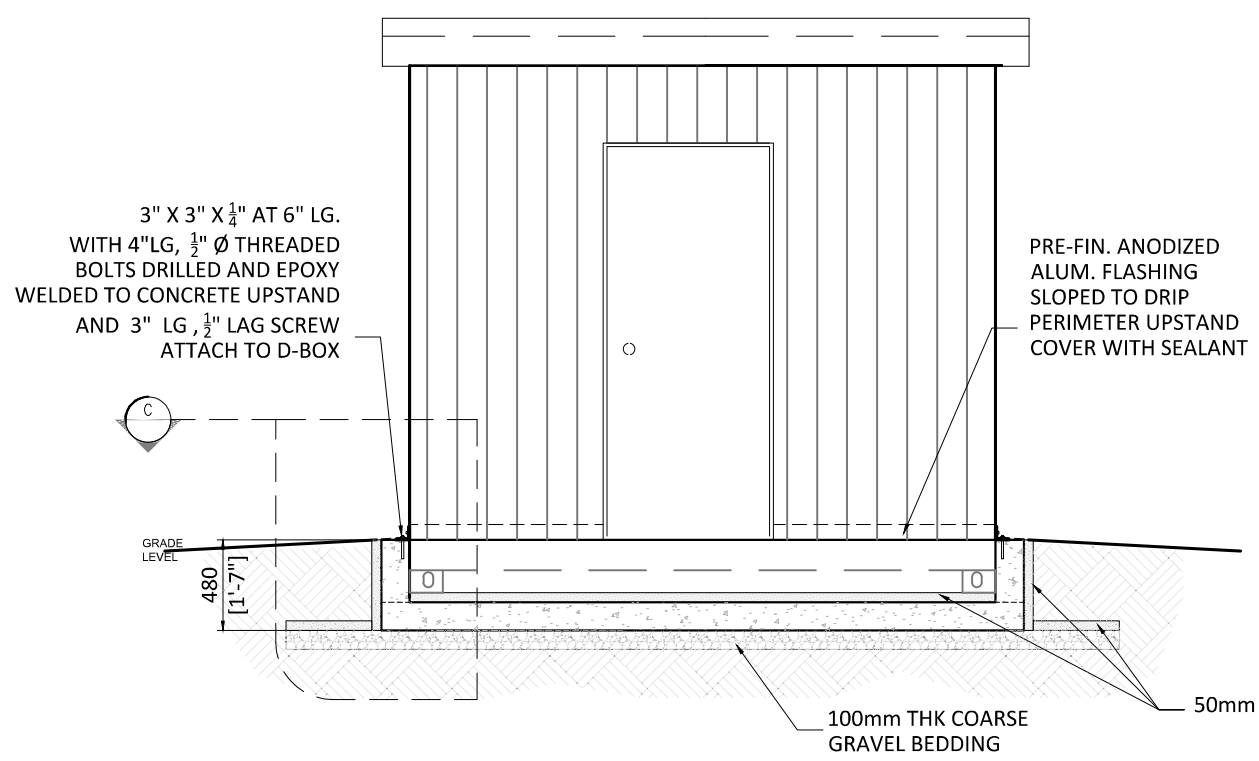


3" X 3" X 1/4" AT 6" LG.
WITH 4" LG, 1/2" Ø THREADED
BOLTS DRILLED AND EPOXY
WELDED TO CONCRETE UPSTAND
AND 3" LG, 1/2" LAG SCREW
ATTACH TO D-BOX

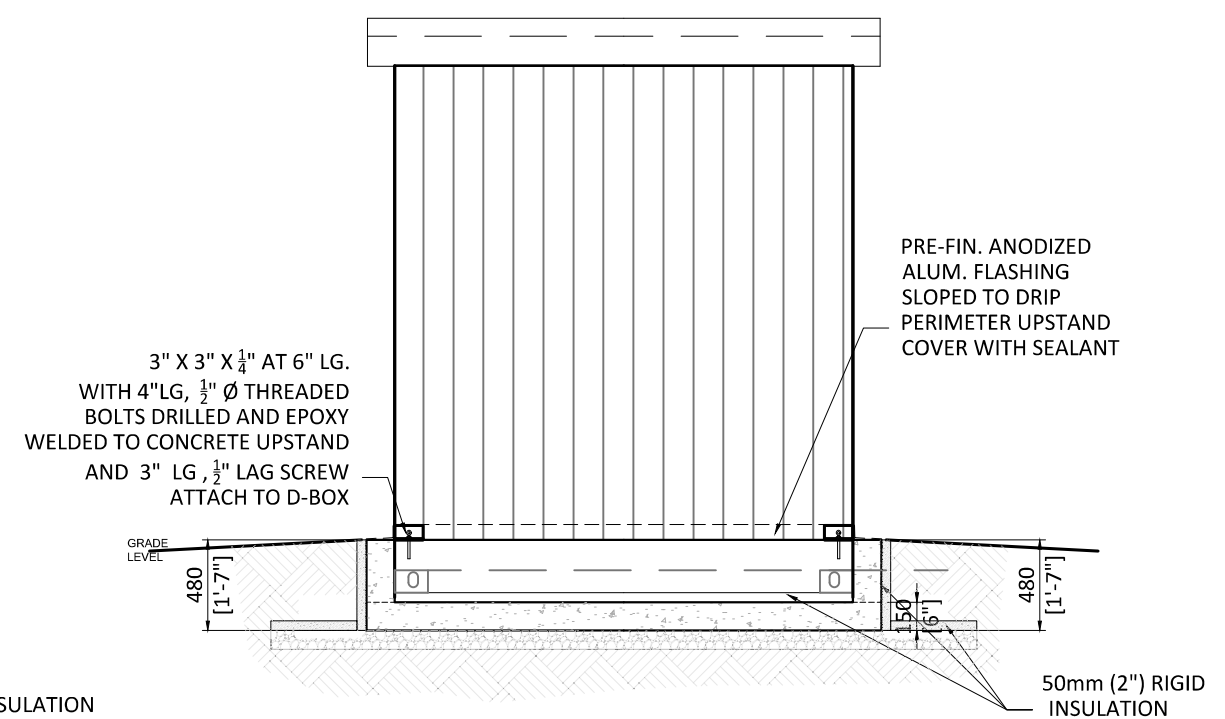
3" X 3" X 1/4" AT 6" LG.
WITH 4" LG, 1/2" Ø THREADED
BOLTS DRILLED AND EPOXY
WELDED TO CONCRETE UPSTAND
AND 3" LG, 1/2" LAG SCREW
ATTACH TO D-BOX



TOP VIEW
SCALE: 1: 50



FRONT ELEVATION
SCALE: 1: 50



SIDE ELEVATION
SCALE: 1: 50

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PROJECT TITLE:
**NEW PUBLIC EXTERIOR WASHROOM
CITY OF BARRIE**

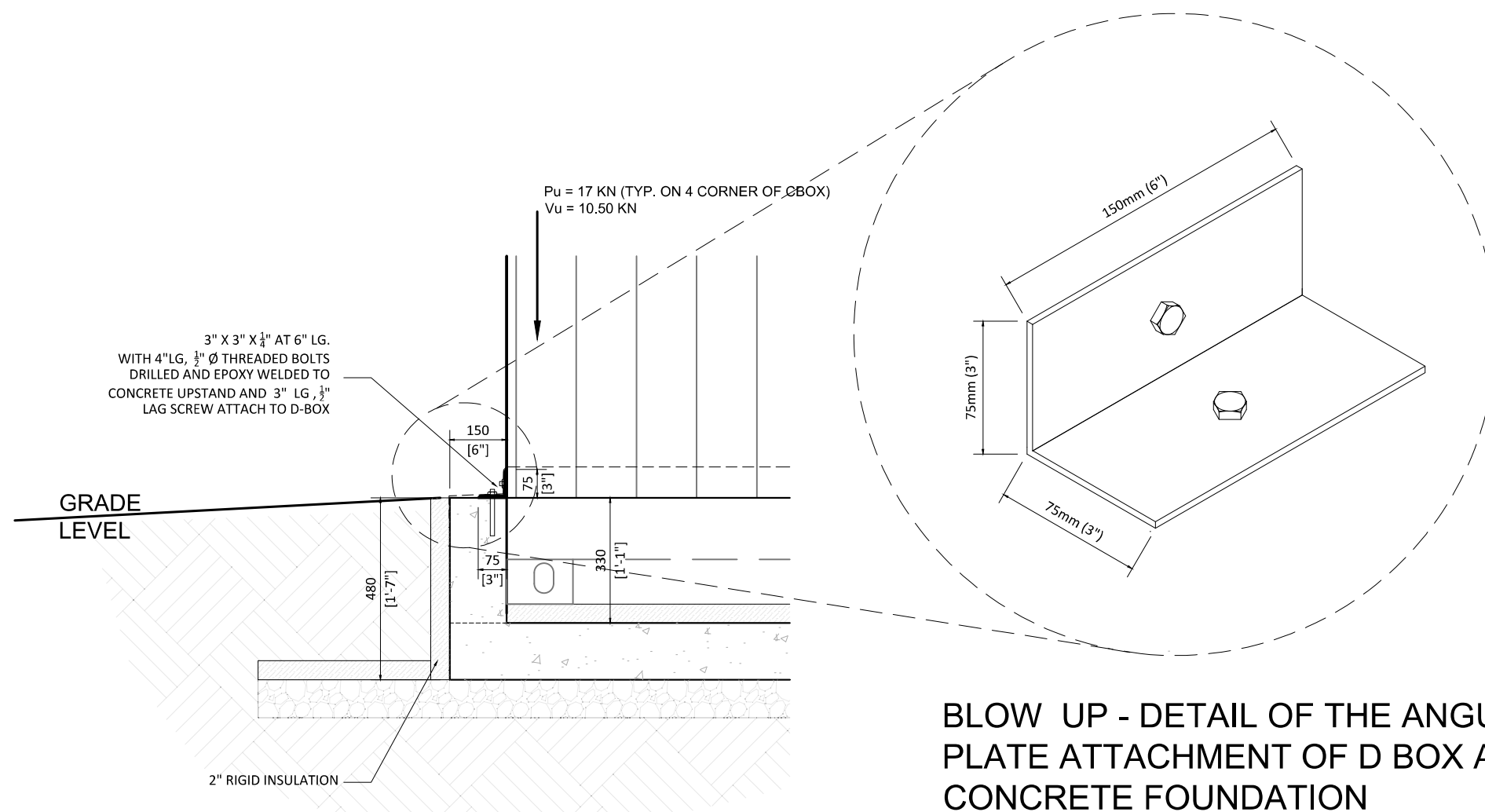
DRAWING TITLE:
**TOP VIEW AND ELEVATIONS
OF D BOX - 10 x 8
(ANGULAR PLATE ATTACHMENT)**

DRAWN BY: LJMA	DRAWING NO. S2
CHECKED BY: LCA	
SCALE: As shown	
DATE: OCT. 13, 2023	REV. NO.:
PROJECT NO.:	

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STRUCTURAL NOTES:

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2. THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS ON SITE BEFORE CONSTRUCTION ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
3. DO NOT SCALE DRAWINGS.
4. LOADING:
 DEADLOAD = 6,200 LBS (28 KN)
 SNOW LOAD = 2.45 KPA
 LIVELOAD = 1 KPA
5. ALL LOADS ARE UNFACTORED LOADS.
6. FABRICATION AND ERECTION OF STRUCTURAL STEEL TO CONFORM TO THE STANDARD CAN/CSA S16-01 "LIMIT STATE DESIGN OF STEEL STRUCTURES".
7. ALL EXPOSED STEEL PLATE AND ANCHOR BOLT TO BE HOT DIP GALVANIZED.
8. ANGULAR PLATE TO BE 3" X 3" X 1/4" AND ANCHOR BOLTS TO BE 12mm (1/2") DIAMETER AT 100mm LENGTH.



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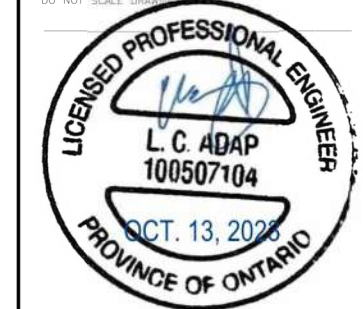
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DO NOT SCALE DRAWINGS



PROJECT TITLE:
 NEW PUBLIC EXTERIOR WASHROOM
 CITY OF BARRIE

DRAWING TITLE :
 SECTION C AND
 BLOW UP DETAIL

DRAWN BY: LJMA	DRAWING NO. S3
CHECKED BY: LCA	
SCALE: As shown	REV. NO. :
DATE: OCT. 13, 2023	

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GENERAL NOTES:

1. DO NOT SCALE DRAWINGS.
2. ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) TO APPLY UNLESS OTHERWISE NOTED.
3. NOTIFY ALL UTILITIES AND MUNICIPAL AUTHORITIES 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. UTILITY PERSONNEL TO BE ON SITE WHEN EXCAVATING ADJACENT TO UNDERGROUND UTILITIES, WHERE REQUIRED.
4. SUPPORT UTILITIES IN ACCORDANCE WITH THE DIRECTIONS AND GUIDELINES OF THE IMPACTED UTILITY.
5. COMPLETE ALL TRENCHING IN ACCORDANCE WITH THE CURRENT OCCUPATIONAL HEALTH & SAFETY ACT AND THE CURRENT GEOTECHNICAL REPORT
6. THE LOCATION OF UTILITIES AND SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE THE CONTRACTOR IS RESPONSIBLE FOR THE CONFIRMATION OF ALL UTILITY AND SERVICE LOCATIONS, THEIR PROTECTION AGAINST DAMAGE, AND IS WHOLLY LIABLE FOR ANY DAMAGE TO THEM THAT OCCURS
7. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TOWN OF HUNTSVILLE FOR TRAFFIC FLOW ON MUNICIPAL STREETS INCLUDING ISSUANCE OF ROAD OCCUPANCY PERMITS
8. ALL INSTALLATIONS ARE TO BE COMPLETED TO THE SATISFACTION OF THE TOWN OF BARRIE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

9. ALL DIMENSIONS ARE IN METERS, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETERS, UNLESS SPECIFIED OTHERWISE.
10. ALL SILTATION, EROSION, AND ENVIRONMENTAL CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION AND REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE REINSTATED TO EXISTING CONDITION OR BETTER
11. THE CONTRACTOR IS RESPONSIBLE FOR ALL DETAILED CONSTRUCTION LAYOUT WORK TO THE SATISFACTION OF THE OWNER
12. LATEST APPROVED DRAWINGS TO BE USED FOR CONSTRUCTION AND ANY DISCREPANCIES REPORTED TO THE ENGINEER
13. CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER AND/OR DUST CONTROL PRODUCT AS REQUIRED FOR COMPACTION AND/OR DUST CONTROL.
14. THE CONTRACTOR SHALL MAINTAIN ADEQUATE ACCESS TO ALL PRIVATE AND PUBLIC PROPERTIES AT ALL TIMES
15. CONTRACTOR TO PROVIDE A DETAILED TRAFFIC CONTROL PLAN PRIOR TO THE START OF WORK. TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL CONFORM TO THE CITY OF BARRIE REQUIREMENTS AND MINISTRY OF TRANSPORTATION BOOK 7 REQUIREMENT.

RESTORATION NOTES:

1. EXCAVATION AND GRADING TO BE COMPLETED SHALL BE IN ACCORDANCE WITH OPSS 206.
2. GRANULAR "B" AND GRANULAR "A" SHALL BE IN ACCORDANCE WITH OPSS 314 AND 501.
3. PLACE ALL ASPHALT IN ACCORDANCE WITH OPSS 310.
4. WHERE REQUIRED, ADJUST EFFECTED MAINTENANCE HOLES AND VALVES IN ACCORDANCE WITH OPSS 408.
5. CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL IN ACCORDANCE WITH OPSS 506.
6. ENSURE ACCESSIBILITY TO LOCAL RESIDENT AND COMMERCIAL DRIVEWAYS AT ALL TIMES.
7. ALL RESTORATION WORK TO BE COMPLETED TO THE SATISFACTION OF THE OWNER.
8. BOULEVARDS AND SWALES TO BE GRASSED, WHERE REQUIRED, WITH MINIMUM 100MM TOPSOIL IN ACCORDANCE WITH OPSS 802 AND SOD.

COLD WEATHER REQUIREMENTS:

1. THE FOLLOWING COLD WEATHER REQUIREMENTS SHALL APPLY WHENEVER THE AIR TEMPERATURE IS AT OR BELOW 5°C OR WHEN THERE IS A PROBABILITY OF IT FALLING BELOW 5°C WITHIN 24 HOURS OF PLACING CONCRETE. NO COLD WEATHER CONCRETE WORK SHOULD BE DONE WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
2. ALL COLD WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.
3. ALL MATERIALS AND HEATING EQUIPMENT NEEDED FOR ADEQUATE PROTECTION AND CURING SHALL BE ON HAND AND READY FOR USE BEFORE PLACEMENT IS STARTED. PROTECTION SHALL BE PROVIDED BY MEANS OF HEATED ENCLOSURES, COVERINGS, INSULATION, OR A SUITABLE COMBINATION OF THESE METHODS.
4. ALL AGGREGATES AND WATER SHALL BE PRE-HEATED. ALL FORMS, FILL AND GROUND WITH WHICH THE CONCRETE IS IN CONTACT OR HAS THE POTENTIAL TO COME INTO CONTACT WITH SHALL BE DEFROSTED. STEEL REINFORCEMENT AND AGGREGATES SHALL BE PROTECTED BY ADEQUATE MEANS TO PREVENT THE FORMATION OF ICE.
5. ALL CONCRETE SHALL HAVE A TEMPERATURE BETWEEN 10°C AND 25°C AT THE TIME OF PLACEMENT.
6. ALL CANVAS OR OTHER PROTECTIVE COVERING SHALL BE KEPT CLEAR OF ALL CONCRETE IN ORDER TO PERMIT FREE CIRCULATION OF AIR ALL AROUND ALL WALLS, COLUMNS AND OVER THE TOPS OF ALL SLABS.
7. THE HEATING PROTECTION SHALL NOT BE COMPLETELY REMOVED UNTIL THE CONCRETE HAS COOLED TO A MAXIMUM TEMPERATURE DIFFERENTIAL BETWEEN THE CONCRETE AND AIR TEMPERATURE OF 12°C.
8. THE CONTRACTOR IS TO PROTECT ALL FOUNDING SOIL FROM FREEZING DURING THE CONSTRUCTION PERIOD THIS INCLUDES FOOTINGS THAT HAVE BEEN CAST.

CONCRETE:

1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD CAN3-A23.1-04.
2. CONCRETE SLAB-ON-GRADE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPA. MAXIMUM WATER TO CEMENT RATIO TO BE 0.55 AND HAVE 4% TO 7% AIR ENTRAINMENT.
3. ALL CONCRETE SHALL BE PLACED WITH A SLUMP OF 75 MM ± 25 MM.

SIRUCTURAL NOTES:

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3. DO NOT SCALE DRAWINGS.
4. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT THE START OF THE PROJECT AND ARRANGE FOR ALL INSPECTIONS IN ACCORDANCE WITH CLAUSE 10.2 OF THE BUILDING CODE ACT AND 'DIV. C. PART 1 OF THE ONTARIO BUILDING CODE.
6. PROVIDE WEEPING HOLES AT PERIMETER UPSTAND TO ENSURE WATER DRAIN OF THE CONCRETE SLAB FOUNDATION.

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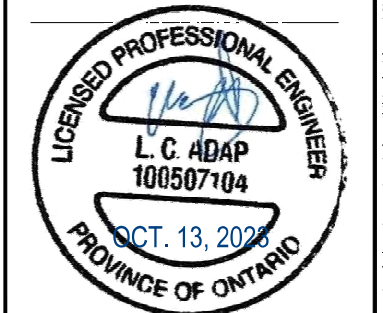
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PROJECT TITLE:
**NEW PUBLIC EXTERIOR WASHROOM
 CITY OF BARRIE**

DRAWING TITLE :
**GENERAL AND CONSTRUCTION
 NOTES**

DRAWN BY: LJMA	DRAWING NO. S4
CHECKED BY: LCA	
SCALE: As shown	REV. NO. :
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