

Conseil national de recherches Canada

NRC · CNRC

GENERAL NOTES

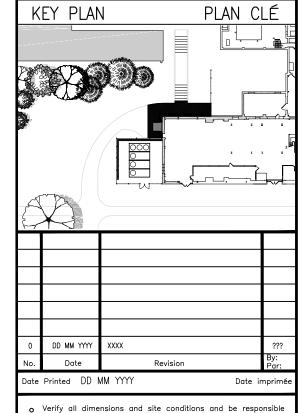
- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.
- SEAL ALL OPENINGS WHERE CABLES, CONDUITS OR PIPES PASS THROUGH WALLS WITH AN ACOUSTIC SEALANT CONFORMING TO CAN/CGSB-19.21-M87.
- WHERE CABLES, CONDUITS AND PIPES PASS THROUGH FIRE RATED WALLS AND FLOORS, PACK SPACE BETWEEN WITH COMPRESSED GLASS FIBRES AND SEAL WITH FIRE STOP CAULKING IN ACCORDANCE WITH CAN/CGSB-19.13-M87 AND
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE APPROVAL OF NRC DEPARTMENTAL REPRESENTATIVE. AREAS TO BE DRESSED WITH NEW TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRST GRASS CUTTING.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES INCLUDING PUBLIC AND PRIVATE SERVICES, HIGH PRESSURE GAS AND WATER MAINS, ETC. SERVICES INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY.

DRAWING NOTES - SHEET GO1 THESE NOTES APPLY TO DRAWING SHEET GO1 ONLY

- 1. WHERE REQUIRED, REMOVE EXISTING LANDSCAPE INCLUDING SHRUBS/TREES. REINSTATE WITH SAME SPECIES AND SIZE TO MATCH EXISTING OR TO MATCH REMOVED.
- REMOVE EXISTING ASPHALT SIDEWALK SECTION AS INDICATED. EXCAVATE DOWN TO A DEPTH OF APPROX. 600mm TO ALLOW FOR NEW GRADING AND ASPHALT. ALL
- EXCAVATIONS ARE TO BE BY HAND OR HYDRO VAC. 3. ADJACENT TO BUILDING FOUNDATION, EXCAVATE TO A DEPTH OF APPROX. 1500mm TO EXPOSE FOUNDATION WALL AND EXISTING ELEMENTS. ALL EXCAVATIONS ARE TO BE BY HAND OR HYDRO VAC.
- REMOVE EXISTING RIVER ROCK AND RETAIN FOR RE-USE. EXISTING FAN HOOD TO REMAIN UNAFFECTED BY THE
- 6. EXISTING RETAINING WALL TO REMAIN UNAFFECTED BY
- THE WORK. 7. EXISTING CONCRETE STAIRS AND ALL ASSOCIATED
- ELEMENTS TO REMAIN UNAFFECTED BY THE WORK.

 8. WHERE EXISTING ASPHALT IS TO BE REMOVED, SAWCUT
- ALONG EXTENT OF REMOVAL TO ENSURE CLEAN TRANSITION FOR NEW ASPHALT APPLICATION.

 9. STORE EXCAVATED BACKFILL LESS STONES EXCEEDING 100mm FOR RE-USE WITH NEW BACKFILL.



o Vérifier toutes les dimensions et l'état des liéux et en



C Drawing no. dessin no.

B Location drawing no. sur dessin no.

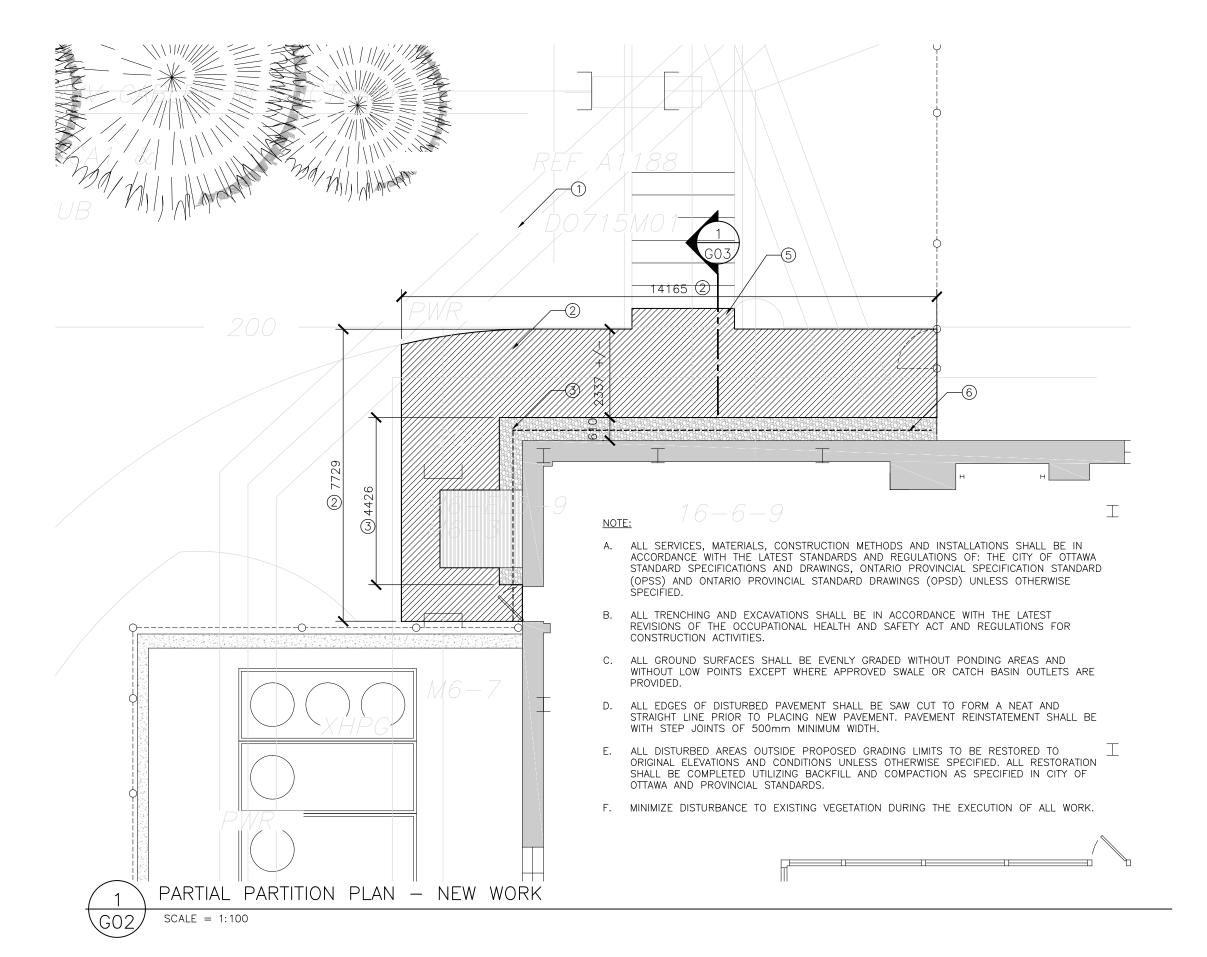
M-6 FOUNDATION WATERPROOFING

MONTREAL ROAD CAMPUS

PARTIAL PLAN - REMOVALS

5870-G01

CE 01/2021 AS NOTED 1 of/de 3 AS



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- THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES INCLUDING PUBLIC AND PRIVATE SERVICES, HIGH PRESSURE GAS AND WATER MAINS, ETC. SERVICES INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY.

DRAWING NOTES - SHEET GO2
THESE NOTES APPLY TO DRAWING SHEET GO2 ONLY

- 1. WHERE REQUIRED, REMOVE EXISTING LANDSCAPE INCLUDING SHRUBS/TREES. REINSTATE WITH SAME SPECIES AND SIZE TO MATCH EXISTING OR TO MATCH REMOVED.
- 2. NEW ASPHALT SIDEWALK. REFER TO DETAIL 2/G03. GRADE 2% SLOPE FROM BUILDING, TYP.
- 3. NEW AND RE-USED CRUSHED STONE AND RIVER ROCK FROM EXCAVATION. FINAL LEVEL OF NEW AND RE-USED
- TO MATCH PER DETAIL 1/G03.

 4. NEW AND RE-USED EXCAVATED BACKFILL LESS STONES EXCEEDING 100mm.

 5. NEW 35MpA CAST IN PLACE CONCRETE STEP TO ACCOMMODATE LEVEL CHANGE FROM EXISTING STEPS TO
- NEW ASPHALT. REFER TO DETAIL 1/GO3.
- 6. NEW 152MM FRENCH DRAIN c/w CLEAN FILL. REFER TO MECHANICAL DRAWINGS FOR CONNECTION INFORMATION.

KEY PLAN PLAN CLÉ DD MM YYYY Date Printed DD MM YYY) Date imprim

- O Verify all dimensions and site conditions and be responsible
- o Vérifier toutes les dimensions et l'état des liéux et en assumer la responsabilité



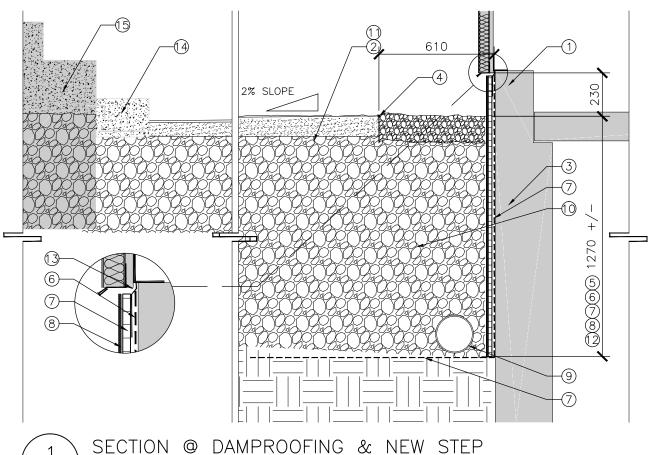
B Location drawing no. sur dessin no. C Drawing no. dessin no.

M-6 FOUNDATION WATERPROOFING

MONTREAL ROAD CAMPUS

PARTIAL PLAN - NEW WORK

CE 01/2021 AS NOTED 2 of/de 3 AS 5870-G02



DRAWING NOTES - SHEET GO3 THESE NOTES APPLY TO DRAWING SHEET GO3 ONLY

EXISTING FOUNDATION WALL.
REMOVE EXISTING ASPHALT SIDEWALK SECTION AS INDICATED. EXCAVATE DOWN TO A DEPTH OF APPROX. 600mm TO ALLOW FOR NEW GRADING AND

ADJACENT TO BUILDING FOUNDATION, EXCAVATE TO A DEPTH OF APPROX. 1500mm TO EXPOSE FOUNDATION WALL AND EXISTING ELEMENTS.

NEW CONTINUOUS PVC DIVIDER. CAULK ALL CRACKS AND JOINTS IN CONCRETE WITH CWS TYPE SEALANT. WHERE JOINTS OR CRACKS EXCEED MANUFACTURER'S WRITTEN RECOMMENDED DEPTH OR WIDTH, INSTALL NEW FOAM BACKER ROD PRIOR TO APPLICATION OF

6. NEW ROLLED SELF ADHERING WATERPROOFING MEMBRANE. ACCEPTED MATERIAL: MEL-ROL BY WR MEADOWS. MEMBRANE TO EXTEND A MIN. OF 300mm PAST VERTICAL JOINT ON EITHER SIDE.

NEW MECHANICALLY FASTENED PLATON TYPE DRAINAGE SYSTEM APPLIED VERTICALLY ALONG FACE OF EXPOSED FOUNDATION AND APPROX 1m HORIZONTALLY FROM BUILDING FOUNDTAION. ACCEPTED MATERIAL: ARMTEC PLATON MEMBRANE.

8. 6mm ASPHALT FIBREBOARD. NO MECHANICAL FASTENERS WILL BE PERMITTED. APPLY NEW PARGING (BLACK) OVER EXPOSED SURFACE OF BOARD. 9. NEW 152mm FRENCH DRAIN c/w CLEAN CRUSHED STONE. REFER TO

MECHANICAL DRAWINGS FOR CONNECTION.

10. NEW AND RE-USED COMPACTED BACKFILL. 11. RE-USED EXISTING CRUSHED STONE AND BACKFILL FROM EXCAVATION. ADD

NEW AS REQUIRED TO ACHIEVE MIN. DEPTH OF 152MM.

12. EXISTING MEMBRANE TO BE RESEALED TO FOUNDATION WALL: -CUT BACK EXISTING MEMBRANE WHERE LOOSE FROM SUBSTRATE. -APPLY NEW COAT OF PRIMER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. -APPLY NEW MIN. 300mm TOP STRIP OF MEMBRANE: ENSURE OVERLAP AT BOTH VERTICAL AND HORIZONTAL. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

INSTRUCTIONS.

13. NEW CONTINUOUS CAP MOLDING.

14. NEW 35 MpA + 8% ENTRAINED AIR CONCRETE STEP, DIMENSIONS TO SUIT EXISTING STEPS AND LEVEL; CHANGE DUE TO NEW GRADING OF ASPHALT. STEP TO BE c/w 10M REBAR TO SUIT APPLICATION. NEW CONCRETE TO BE 15M L DOWELLED c/w EPOXY TO EXISTING STEPS.

15. EXISTING STEP SECTION.

ALL SAW CUT FACES WITH TACK PRIOR TO PLACING ASPHALT	
	EXISTING ASPHALT_LIFT EXISTING GRANULAR_BASE
ASPHALT LIFT TO 50mm +/- TO MATCH	EXISTING SUBGRADE

PAVEMENT STRUCTURE					
CONSTRUCTION	PAVEMENT LAYER	COMPACTION REQUIREMENTS	PAVEMENT TYPE (LIGHT DUTY)		
SURFACE FINISH	ASPHALTIC CONCRETE	TABLE 9 OF OPSS 310	50mm SP 12.5 (PG58-34) TRAFFIC LEVEL B		
GRANULAR BASE	OPSS GRANULAR 'A'	98% SPMDD	150mm		
	OPSS GRANULAR 'B' TYPE II	98% SPMDD	300mm		

SCALE = 1:20

TRFAT COAT

EXISTING PAVEMENT TIE-IN DETAIL

SCALE = N.T.S.

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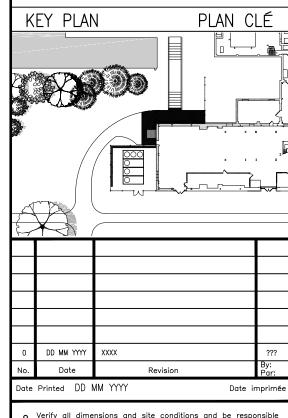
- INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF: THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) UNLESS OTHERWISE SPECIFIED.
- ACCORDANCE WITH THE LATEST REVISIONS OF THE FOR CONSTRUCTION ACTIVITIES.
- D. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm MINIMUM WIDTH.
- E. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED UTILIZING BACKFILL AND COMPACTION AS SPECIFIED IN CITY OF OTTAWA AND PROVINCIAL STANDARDS.
- F. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORK.



- REPRESENTATIVE.
- THEMSELVES WITH THE SCOPE OF THE WORK.
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- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
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- FIRST GRASS CUTTING.
- DRAWINGS ARE FOR REFERENCE ONLY.
- A. ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND
- ALL TRENCHING AND EXCAVATIONS SHALL BE IN OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS
- C. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.

Conseil national de recherches Canada





o Vérifier toutes les dimensions et l'état des liéux et en



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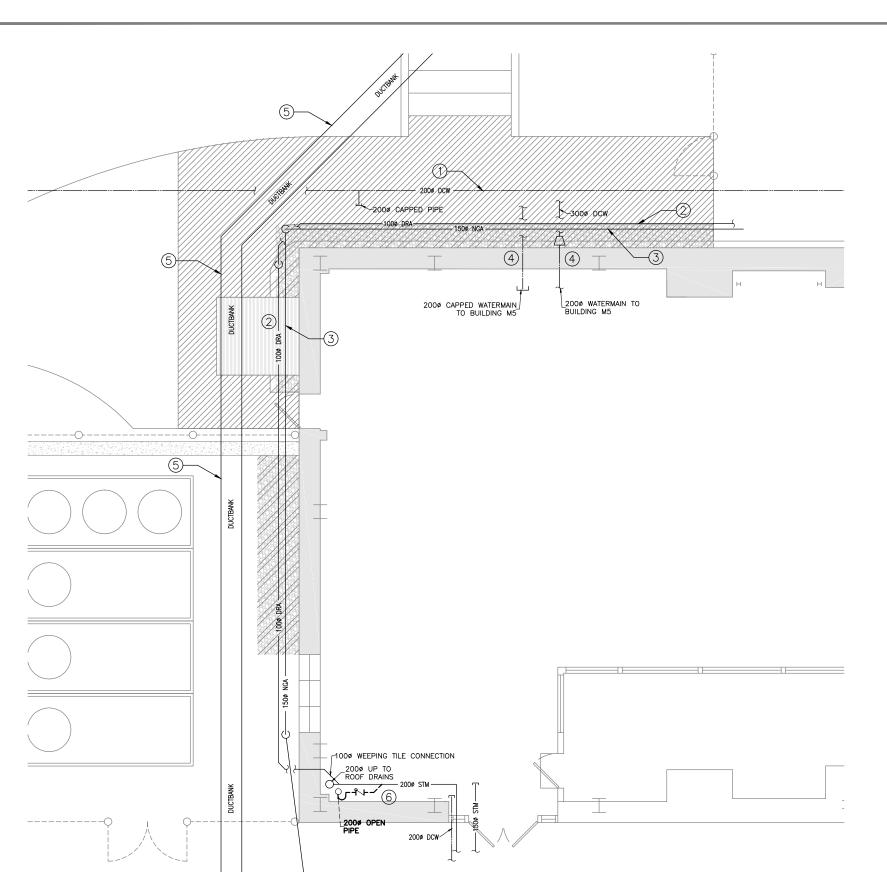
M-6 FOUNDATION WATERPROOFING

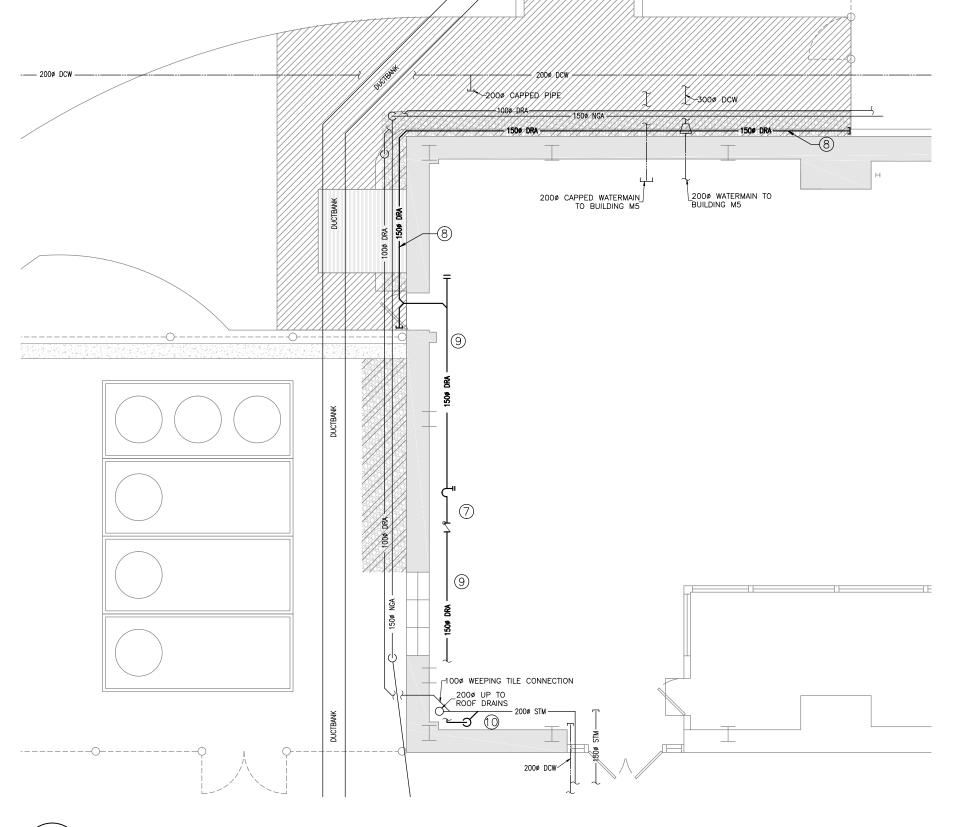
MONTREAL ROAD CAMPUS

SECTIONS AND DETAILS

5870-G03

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approved	AS	approuvé	W.O.no.			D.T.no.
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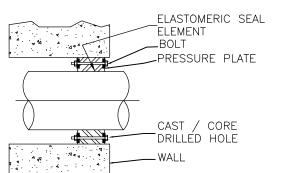
PARTIAL PARTITION PLAN — DEMOLITION

SCALE = 1:150

DRAWING NOTES - SHEET GO4
THESE NOTES APPLY TO DRAWING SHEET GO4 ONLY

- 1. EXISTING BURIED 200mm WATER LINE TO REMAIN. APPROX. DEPTH OF 1800mm.
- 2. EXISTING BURIED 100mm WEEPING TILE TO REMAIN. APPROX. DEPTH OF 2000mm. DRAIN LINE SLOPES FOLLOWING EXISTING ROCK LINE AND PENETRATES INTO THE MECHANICAL ROOM AT THE NORTH WEST CORNER AS INDICATED ON DRAWING.
- 3. EXISTING BURIED 150mm HIGH PRESSURE (5000kPa) NATURAL GAS PIPING TO REMAIN. APPROX. DEPTH OF 1000mm. ENSURE THAT PIPING IS REBURIED MEETING THE LATEST SUPPORTS REQUIREMENTS OF THE ONTARIO GAS CODE.
- 4. EXISTING BURIED 200mm DOMESTIC WATER PIPING TO REMAIN. APPROX. DEPTH OF 1150mm. EXISTING PIPING IS HEAT TRACED. WATERMAIN TRACER CABLE TO BE RE-INSTATED BEFORE RE-FILLING.
- 5. EXISTING BURIED ELECTRICAL DUCTBANK TO REMAIN. APPROX. DEPTH OF 1100mm.
- 6. REMOVE EXISTING 200mm STORM PIPING, P-TRAP, PIPING SUPPORTS AND CHECK VALVE, AS INDICATED ON DRAWING.
- 7. PROVIDE TRAP WITH CLEANOUT AND BACKWATER VALVE AS INDICATED ON DRAWING. BACKWATER VALVE TO BE COMPLETE WITH GAS TIGHT AND WATERTIGHT FLAPPER.
- 8. PROVIDE NEW BURIED 150mm PERFORATED RIGID PVC WEEPING TILE (WITH GEOTEXTILE TYPE MEMBRANE) ALONG FOUNDATION WALL AS INDICATED ON DRAWING. PROVIDE PROPER SLOPE FOR DRAINAGE AND UTILIZE 45° ELBOWS AS INDICATED. REFER TO 1/G03 FOR INSTALLATION DEPTH. PROVIDE ADAPTOR TO PVC PIPING PRIOR TO PENETRATING THE FOUNDATION WALL. PVC PIPING TO BE OF TYPE DWV, CONFORMING TO CSA B181.2, MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DENSITY RATING OF 50. REFER TO DETAIL 3/G04 FOR SLEEVE DETAIL ACROSS THE FOUNDATION WALL. SEAL ELEMENT: EPDM, BOLTS/NUTS: ZINC DICHROMATE/ORGANIC COATED CARBON STEEL BOLT, PRESSURE PLATE: REINFORCED NYLON POLYMER. BASED ON MODEL LINK—SEAL BY GPT INDUSTRIES.
- 9. PROVIDE NEW 150mm DRAINAGE PIPING. PROVIDE PROPER PIPE SUPPORTS AND HANGER. PIPING IS TO BE SUPPORTED FROM WALLS (USING UNISTRUT P2542 THROUGH P2546), SPACING AS PER NATIONAL PLUMBING CODE. NEW PIPING AND FITTINGS TO BE OF CAST IRON WITH FACTORY APPLIED CORROSION RESISTANT COATING INSIDE AND OUTSIDE, HUB AND SPIGOT, WITH FOUR (4) STAINLESS STEEL CLAMPS AND NEOPRENE GASKET TO CSA B70.M. PROVIDE ADAPTOR FROM PVC TO CAST IRON AFTER BUILDING PENETRATION. RUN PIPING TO MAIN STORM SEWER WITH UNIFORM GRADE 1:100 IN DIRECTION OF FLOW. JOINTING OF PIPE TO BE COMPATIBLE WITH TYPE OF PIPE USED.

10. CONNECT NEW 150mm DRAINAGE PIPING TO EXISTING 200mm STORM PIPING.



SCALE = 1:150

PARTIAL PARTITION PLAN — NEW LAYOUT



GENERAL NOTES

- REFER TO GENERAL NOTES ON DRAWING 5870-G1, 5870-G2, AND 5870-G3.
- INFORMATION ON DEPTH OF PIPING AND SERVICES IS BASED ON AVAILABLE DRAWINGS AND MAY NOT BE ACCURATE. CONTRACTOR TO HIRE A COMPANY SPECIALIZING IN TRACING UNDERGROUND SERVICES PRIOR TO EXCAVATION.
- ALL PIPE IDENTIFICATION MARKERS (CAUTION TAPE) REMOVED DURING CONSTRUCTION TO BE REPLACED WITH NEW.

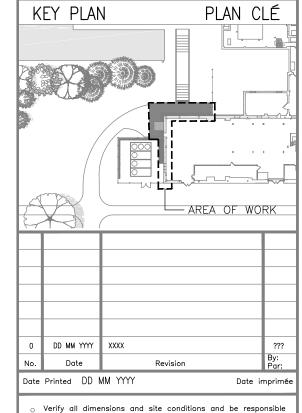
	MECHANICAL LINE TYPE LEGEND
LINE	DESCRIPTION
	INDICATES NEW
	INDICATES EXISTING (TO REMAIN)
	INDICATES DEMOLISHED/ REMOVED
DCW	DOMESTIC COLD WATER
STM	STORM WATER PIPING
DRA	DRAINAGE PIPING
——NGA ——	natural gas piping
0	PIPE UP
C	PIPE DOWN
⊣ 1	CLEANOUT
Ū	TRAP WITH CLEANOUT
₽	BACKWATER VALVE
Е	CAP

National Research
Council Canada

Administrative Services
and Property Managemei

Conseil national de recherches Canada Division des services administratifs et gestic de l'immobilier

NRC - CNRC



for same

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A Detail no.
No. du détail
B Location drawing sur dessin no.
C Drawing no.
dessin no.

Drawing no. dessin no.

M-6 FOUNDATION WATERPROOFING

MONTREAL ROAD CAMPUS

PARTIAL PLAN - MECHANICAL DEMOLITION AND NEW LAYOUT

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checked	JL	vérifié	sheet 4 of	/de 4	feuille
approved	AS	approuvé	W.O.no.		D.T.no.
dwg.no. dessin no.					
5870-G04					