

Addendum Addenda

No./No 2

Project Description / Description de projet Domestic Hot Water Conversion to Electric/Conversion du système d'eau chaude domestique en système		
Project No./No de projet 5909	Departmental Representative / représentant ministériel Allan Smith	Date 4-Dec-2020
Solicitation No./N° de sollicitation 20-58080		
Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.		
Nota: Cet addenda fait partie intégrale des dossiers d'appel; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.		

Item No	Description
1	G01 Detail 2 Note 16: Add: Paint concrete topping with new epoxy paint (Grey), 102mm strip at edge to be painted caution yellow.
2	Entire Room B41 to be Power Washed prior to Epoxy Paint application. This Contractor is required to protect all surfaces and services.
3	While performing any work within Mech Room 039, HEPA Vacuum is to be used at all times.
4	G01 Detail 2 note 14 Delete and replace with void to be filled with Rockwool and covered with fire rated self levelling silicone and provide 12mm thick steel plate to cover opening.
5	Exact location of all equipment to be coordinated on site with NRC department representative.
6	See attached job showing Attendance sheet.
7	Question: I noticed the drawing no. 5909-G01 has mechanical layout drawings but no scale. Do you have a scaled version for the demolition and construction to be done? Response: Replace drawing 5909-G01 with new 5909-G01 drawing issued in addendum 3.

- 8 Question: During the site visit on November 19th it was stated the project completion date was February 1st, 2021. The specifications state within 8 weeks from starting date. The tender closing date is December 15th, 2020. With Christmas and New Years just around the corner of the closing date and your buildings usually closed during the Holiday Season it doesn't allow us 8 weeks to complete the project if the completion date is February 1st, 2021. Please advise.

Response: Contract completion date to be 12 February 2021. There will be no extension pasted this date.

- 9 Utilize quick ship option for material and equipment if required to meet schedule.

Mandatory Site Visit Attendance / Visite de chantier obligatoire

Project Description / Description de projet

Domestic Hot Water Conversion to Electric/Conversion du système d'eau chaude domestique en système électrique

Closing Date / Date de fermeture

December 15, 2020

2:00 PM

Solicitation No./N° de sollicitation

number

Project No./No de projet

5909

1st Showing / 1er visite

November 18, 2020

9:30 AM

Departmental Representative / représentant
Allan Smith

Signature

Alternate / Substitus

December 4, 2020

Question

December 4, 2020

2nd Showing / 2eme visite

November 19, 2020

9:30 AM

Page #

COMPANY/ENTREPRENEUR	NAME/NOM	SIGNATURE	PHONE/TELEPHONE	EMAIL/COURRIEL
TPH	Pierre Carbet		613-883-1663	Pierre.carbet1@fphinc.ca
Michael Collins	LaFramboise		613-551-0346	mcollins@laframboise.net
MJB FORD	Rame Stearn		613-742-8338	rame@ramestearn.ca
Burkhardt SWK	Bon Beemer		613-710-0087	b.beemer@swk.ca
PSL Mechanical	Bill Miller		613-402-2516	billmiller@pslmechanical.com
LCC	Sebastien Carthel		8-923-9736	SEBASTIEN@LCCCANADA.CA
Carlton Elec	Steve Johnston		613-899-5411	sjohnston@carltonelectric.com
SPRIMON MECH	Adam Fleming		343-542-6758	ADAM.FLEMING@SPRIMONMECH.COM
APELM SERVICE	Stavros Louves		613-406-1354	slouves@arrowservice.ca
TIM	Phil MacMillan		289-928-6825	macp927@gmail.com



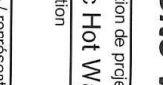
National Research Council Canada

Conseil national de recherches Canada



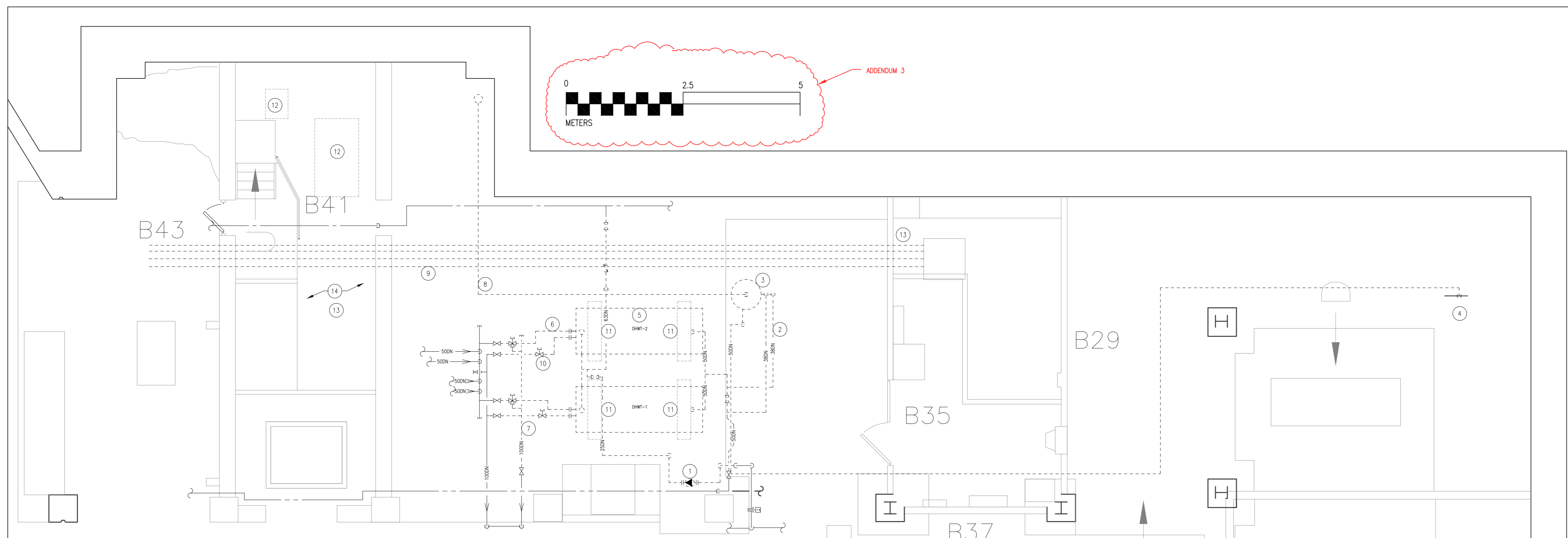
Mandatory Site Visit Attendance / Visite de chantier obligatoire

Project Description / Description de projet Domestic Hot Water Conversion to Electric/Conversion du système d'eau chaude domestique en système électrique		Closing Date / Date de fermeture December 15, 2020		2:00 PM
Solicitation No./N° de sollicitation number		Project No./No de projet 5909		9:30 AM
Departmental Representative / représentant Allan Smith		Signature <i>[Signature]</i>		9:30 AM
COMPANY/ENTREPRENEUR		NAME/NOM		9:30 AM
Black & McDonald Limited	Sank Girgok	<i>[Signature]</i>	613 736 8447	Sgirkok@blackandmcdonald.com
F. Fichter Construction	Kassem Abdou	<i>[Signature]</i>	613 745 8683	bidso@fichter.ca
Seamless Mechanical	Medas Vivette	<i>[Signature]</i>	613-406-9324	seamlessmechanical.solutions@gmail.com
SQR Mechanical	Chris Gir	<i>[Signature]</i>	613-978-2247	estimation@sqrmech.com

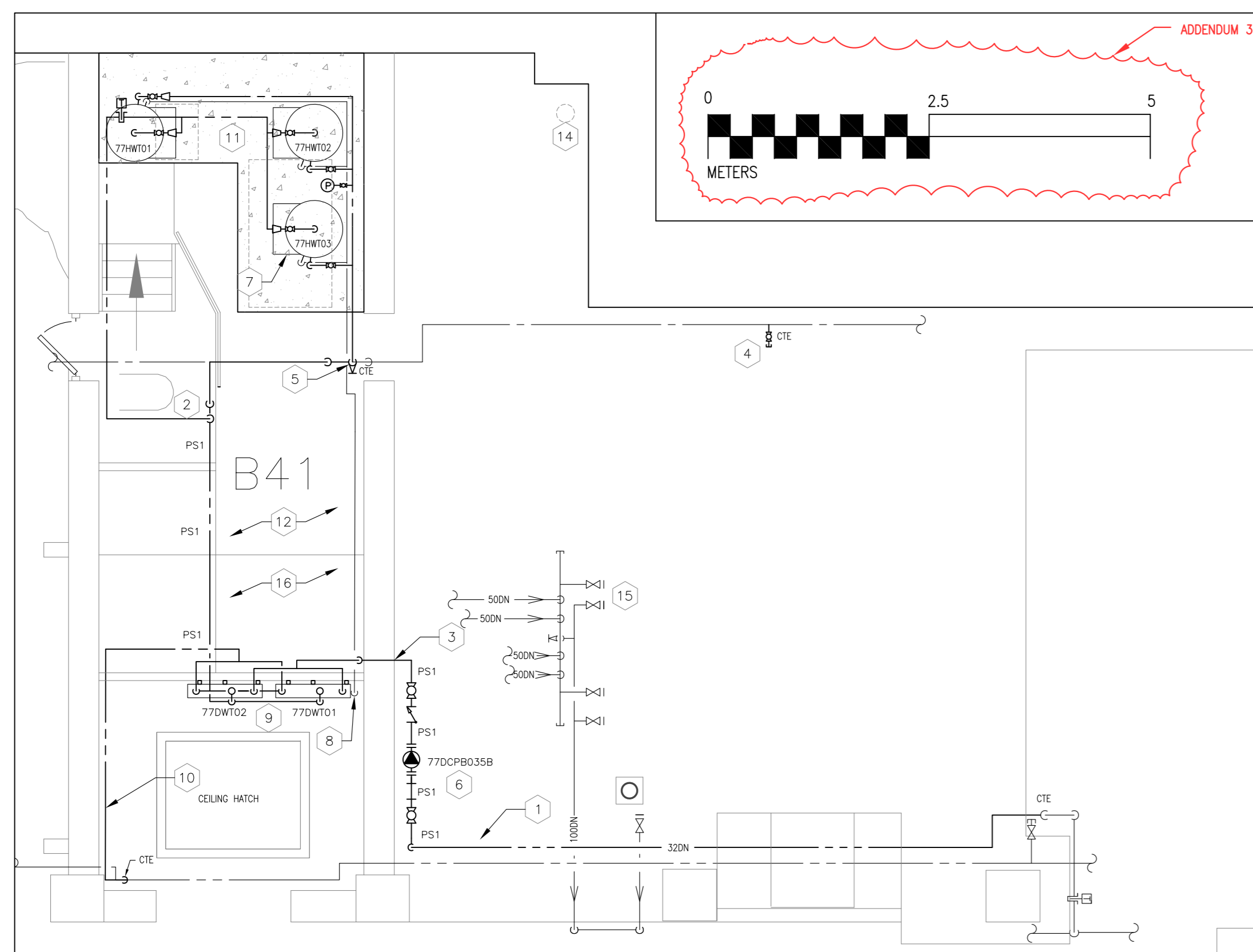


GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- ALL CONTROL WORK TO BE COMPLETED BY AINSWORTH INC. CONTACT AARON DOBSON AT (613) 247-7938, (AARON.DOBSON@AINSWORTH.COM) FOR PRICING.
- CONTRACTOR SHALL RELOCATED EXISTING RE-CIRCULATING DOMESTIC HOT WATER PUMP DURING A SCHEDULE 2 DAY SCHEDULED SHUTDOWN WITH NRC. CONTRACTOR TO INCLUDE FOR A WEEKEND SHUTDOWN.
- NEW DOMESTIC HOT WATER SYSTEM SHALL BE OPERATING FOR A MINIMUM OF SEVEN DAYS BEFORE DEMOLITION OF EXISTING DOMESTIC HOT WATER SYSTEM CAN START.



1 DEMOLITION LAYOUT
MO1



2 NEW DOMESTIC HOT WATER SUPPLY LAYOUT
MO1

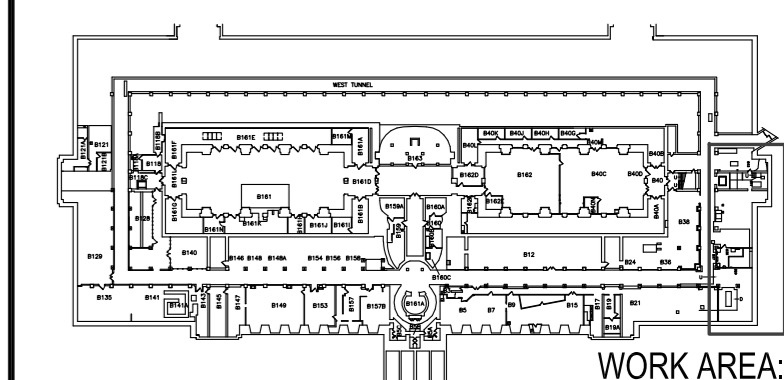
DETAIL 2 NOTES:

- NEW INSULATED DOMESTIC HOT WATER RE-CIRCULATING TUBING TO BE ROUTED PARALLEL TO EXISTING 500N DOMESTIC HOT WATER PIPING. CONNECT TO EXISTING PIPING AT LOCATION INDICATED.
- NEW INSULATED DOMESTIC COLD/HOT WATER PIPING TO DROP DOWN TO 250mm/400mm ABOVE FINISHED FLOOR AND BE NE SUPPORTED TO EXISTING WALL WITH CORE 100mm HOLE THROUGH EXISTING 500mm THICK CONCRETE WALL TO SUIT NEW INSULATED TUBING.
- PROVIDE NEW 630N ISOLATION VALVE C/W CAP AS CLOSE TO EXISTING MAIN AS POSSIBLE.
- NEW INSULATED DOMESTIC COLD WATER PIPING. CONNECT TO EXISTING DOMESTIC COLD WATER PIPING AT LOCATION INDICATED. TUBING TO BE LOCATED AT HIGH AS POSSIBLE AND SLOPED TO SUIT CEILING.
- RELOCATED RE-CIRCULATING HOT WATER PUMP TO THIS LOCATION AT 300mm ABOVE FINISHED FLOOR. TYPICAL OF THREE NEW ELECTRIC HOT WATER TANKS TO BE PROVIDED.
- VENT TUBING FROM EACH TANK TO BE CONNECTED AND RUN ALONG WALL TERMINATED AT 100mm ABOVE BASEMENT FLOOR AT THIS APPROXIMATE LOCATION.
- TYPICAL OF TWO NEW DOMESTIC WATER TEMPERING STATIONS TO BE PROVIDED. SUPPORT EACH STATION ON THREE VERTICAL 3 METERS LONG SECTIONS OF GALVANIZED UNISTRUT (P1000). EXACT LOCATION OF EACH STATION TO BE COORDINATED ON SITE WITH NRC. SECURE UNISTRUT TO CONCRETE WALL WITH THREE EQUALLY SPACED HILTI ANCHORS (KH-3/8"x3"). PROVIDE GALVANIZED WASHERS BETWEEN UNISTRUT AND WALL AS REQUIRED TO LEVEL STRUCTURE. SECURE EACH STATION TO UNISTRUT WITH SIX 1/2" SHAPED UNISTRUT FITTINGS (P-6048) TO BE C/W BOLTING HARDWARE. PROVIDE A VERTICAL UNISTRUT BRACE 150mm FROM TOP OF EACH UNISTRUT TO EXISTING FLOOR AT A NOMINAL 22.5 DEGREE ANGLE. SECURE BRACE TO UNISTRUT FITTING (P2102-C/W HARDWARE) AND SECURE BRACE TO FLOOR WITH UNISTRUT FILLING (P2096-C/W HARDWARE AND CONCRETE ANCHOR).
- NEW INSULATED DOMESTIC HOT WATER TUBING. CONNECT TO EXISTING DOMESTIC HOT WATER TUBING AT LOCATION INDICATED. TUBING TO BE LOCATED AT HIGH AS POSSIBLE AND SLOPED TO SUIT CEILING.
- NEW CONCRETE INFILL TO LEVEL OF EXISTING CONCRETE PADS; APPROX. 102mm THICK 25 MPa C/W 15M DOWELS AT EACH CORNER AND AT 610mm O.C. EACH DIRECTION. DOWEL TO EXISTING ROUGHENED CONCRETE SURFACE. NEW CONCRETE TO RECEIVE 15M Ø305mm EACH WAY. PAD TO BE WOOD FLOAT FINISHED WITH CHAMFERED EDGE. EXACT LOCATION TO BE DETERMINED ONSITE. PAINT CONCRETE WITH NEW EPOXY PAINT (GREY), 102mm STRIP AT EDGE OF CONCRETE TO BE PAINTED CAUTION YELLOW.
- ALL INTERIOR WALLS TO BE PAINTED WITH EPOXY PAINT (GREY). EXISTING STAIRS, GUARDRAIL AND ALL ASSOCIATED ELEMENTS TO BE PAINTED CAUTION YELLOW.
- INFILL PENETRATIONS WHERE CONDUIT HAS BEEN REMOVED. FIRESTOP TO 1HR USING SYSTEM AS RECOMMENDED BY MANUFACTURER BASED ON OPENING SIZE. STANDARD MANUFACTURER OF ACCEPTANCE; HILTI.
- FILL REMAINING VOID WITH FIRE RATED SILICON AND PROVIDE 200x200x12mm (THICK) STEEL PLATE AND SECURE TO FLOOR.
- PROVIDE NEW CLASS 150 BLIND FLANGE ON REMAINING STEAM AND CONDENSATE VALVES REMAINING. TYPICAL OF FIVE.
- EXISTING SLAB TO RECEIVE NEW 25mm CONCRETE TOPPING. STANDARD OF ACCEPTANCE: QUICKRETE C/W BONDING ADHESIVE.

DETAIL 1: DEMOLITION NOTES:

- DOMESTIC HOT WATER RE-CIRCULATING PUMP TO BE RELOCATED TO NEW LOCATION INDICATED. NEW RE-CIRCULATING PIPING TO BE COMPLETED IN ADVANCE OF RELOCATING THE PUMP. ALL OTHER DEMOLITION NOTE TO BE COMPLETED ONLY AFTER NEW DOMESTIC HOT WATER SYSTEM HAS BEEN COMPLETED AND OPERATING TROUBLE FREE FOR A MINIMUM OF SEVEN CONTINUOUS DAYS.
- EXISTING INSULATED DOMESTIC HOT WATER COPPER TUBING TO BE REMOVED AND DISPOSED OF BY CONTRACTOR.
- EXISTING NATURAL GAS DOMESTIC HOT WATER TANK AND ALL GAS PIPING AND VENTING TO BE REMOVED AND DISPOSED OF BY CONTRACTOR. REMOVAL CONTRACTOR SHALL BE A LICENSED CONTRACTOR WITH TSSA AND HAVE A VALID C2 NATURAL GAS CERTIFICATE.
- NATURAL GAS PIPING TO BE REMOVED AND DISPOSED OF BY CONTRACTOR, PIPING TO BE CAPPED AT THIS APPROXIMATE LOCATION.
- TYPICAL OF TWO INSULATED STEAM TO HOT WATER (SHELL AND TUBE) TANKS TO BE RE-MOVED AND DISPOSED OF BY CONTRACTOR. NOMINAL DIMENSIONS : 950mmx3 METERS.
- TYPICAL INSULATED 100 PSIG STEAM PIPING (STEEL-SCHEDULE 40) C/W SUPPORTS, VALVES, FITTINGS, GAUGES, TEMPERATURE SENSORS AND SUPPORTS TO BE REMOVED AND DISPOSED OF BY CONTRACTOR.
- TYPICAL INSULATED HIGH TEMPERATURE STEAM CONDENSATE PIPING (STEEL-SCHEDULE 80) C/W SUPPORTS, VALVES, FITTINGS, GAUGES, TEMPERATURE SENSORS AND SUPPORTS TO BE REMOVED AND DISPOSED OF BY CONTRACTOR.
- EXISTING 1000N VENT PIPING FROM HOT WATER TANK TO EXISTING EXHAUST FAN LOCATED IN ROOM 39A TO BE REMOVED. ALL ELECTRICAL BETWEEN FAN AND HOT WATER TANK TO BE REMOVED, TO BE COORDINATED WITH ELECTRICAL DISCHARGE 1000N VENT TO BE FILLED WITH ROXUL INSULATION AND CAPPED.
- EXISTING FOUR 1000N EMPTY ELECTRICAL CONDUITS AND RELATED SUPPORTS TO BE REMOVED. EXISTING JUNCTION BOX TO REMAIN AND FOUR 1000N CONNECTIONS CAPPED PER ELECTRICAL CODE. SEE ELECTRICAL.
- TYPICAL OF TWO STEAM CONDENSATE 3-WAY MIXING VALVES AND TWO 2-WAY CONTROL VALVES TO BE REMOVED AND HANDED OVER TO NRC.
- REMOVE EXISTING STEAM TO HOT WATER SHELL CONCRETE SADDLES (TYPICAL OF TWO PER TANK AND FOUR SADDLES IN TOTAL). CHIP OUT CONCRETE AND CUT BACK ANY REBAR OR DOWELS TO SLAB LEVEL. INFILL ALL DEPRESSIONS OR CRACKS TO ENSURE EVEN APPLICATION OF NEW TOPPING.
- EXISTING CONCRETE HOUSEKEEPING PADS TO REMAIN. CHIP CONCRETE DOWN TO SOUND MATERIAL. CHIP OUT CONCRETE AND CUT BACK ANY REBAR OR DOWELS TO LEVEL. INFILL ALL DEPRESSIONS OR CRACKS TO ENSURE EVEN APPLICATION OF NEW TOPPING AND FINISH.
- REMOVE ALL SPALLING/PEELING EXISTING PAINT AND EFFLORESCENCE FROM MASONRY UNIT WALLS IN AREA TO MAKE READY FOR NEW EPOXY PAINT FINISH.
- EXISTING UPPER AREA SLAB TO BE CLEANED OF ALL DEBRIS DOWN TO SOUND SURFACE AND MADE READY FOR NEW CONCRETE APPLICATION.

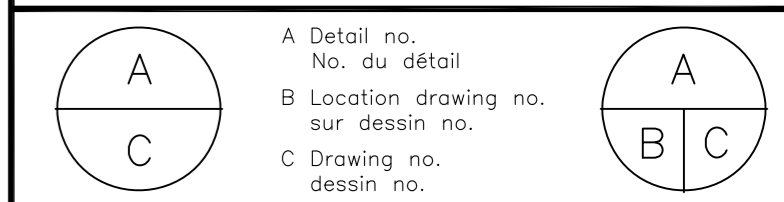
KEY PLAN PLAN CLÉ



No.	Date	Revision	By:
1	01 12 2020	ISSUED FOR ADDENDUM 3	RGC
0	14 10 2020	ISSUED FOR TENDER	RGC

Date Printed / Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project / projet

DOMESTIC HOT WATER SYSTEM CONVERSION TO ELECTRIC
SUSSEX CAMPUS (S77)

drawing / dessin

MECHANICAL LAYOUT

designed / conçu R.G.C./C.E. date 10/2020

drawn / dessinée R.G.C./C.E. scale NA échelle

checked / vérifié sheet 1 of/de 2 feuille

approved / approuvé W.O.no. A1-011224-14 D.T.no.

dwg.no. 5909-G01 dessin no.