trisect
Construction Corporation

REQUEST FOR INFORMATION

Date: January 27, 2025
Trisect Project No: TC24-114
Project Name: York Region Admin., Package D Renovation

CONSULTANTS RFI NO: TC24-114-23-X

To: Stephanie Kamburis @ G. Bruce Stratton Architects **cc:** Victor Chau @ York Region **cc:** Natalie Freitas @ York Region **From:** Tom Butkovic, Ivan Lulic, Jay Cowie	**REFERENCE: Ground, 2nd & 3rd Floor Chilled Water Main** **Spec. Section:** **Drawing No.(s):** Various **Attachments**: Photos

Interior Design ☐ **Architectural** ☐ **Structural** ☐ **Mechanical** ☒ **Electrical** ☐

RESPONSE/INFORMATION REQUIRED BY: Jan. 29, 2025

On behalf of the mechanical subcontractor, please review and reply to the following RFI:

7-4020A Sladeview Crescent, Mississauga, ON L5L 6B1
p: 905-607-9600 f: 905-607-7757

54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Request For Information 24-277-009

Jan 24, 2025

Project Name
YORK REGION VARIOUS PROJECTS

Project Address
17250 Young Street Newmarket, ON

To

Name
Tom Butkovic

Company
TRISECT CONSTRUCTION

Email
tbutkovic@trisectconstruction.com

Address
4020A SLADEVIEW cRESCENT, UNIT 7 MISSISSAUGA, ON L5L 6B1 JOB: 1300 INSLINGTON SUITE 103

From

Name
INZAMAN KHAN

Company
Consult Mechanical Inc.

Email
inzaman@consultmechanical.com

Address
54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title	SCHEDULE IMPACT	COST IMPACT
Ground, 2nd & 3rd floor chilled water main	Probable	Probable

RETURN BY

Jan 29, 2025

Information Requested

Please refer below and advise
Ground floor chilled water supply main riser to P1:
Location is different from mechanical to architectural. Both suggested locations are above structure concrete caps which we're told can not be cored through. Please advise to where a new location is for the chilled line to penetrate the floor and for us to tie into the appropriate services in P1 level. The suggested location to where we are supposed to tie into the chilled mains is above a separation wall between the staff washrooms and the staff lunch room which is dry walled ceiling. Space is limited in ceiling space due to existing services as well. (Duct work, etc.)
2nd floor:
The same issue looks to be occurring. The location where it goes through the floor is near a column. Below on the ground floor it's in the old cafeteria which is blocked in and tiled. Its not possible see the column on the ground floor to confirm concrete cap underneath. Grid line #14
3rd floor:
On the drawing it shows us running our mains near the column. The current services in the ceiling space have congested that entire area. Please advise on how should we proceed with the location of the new chilled water mains to ensure we are above ceiling height, and don't have to many elevation changes to cause air lock and flow restrictions in the piping system?

GPY Response:

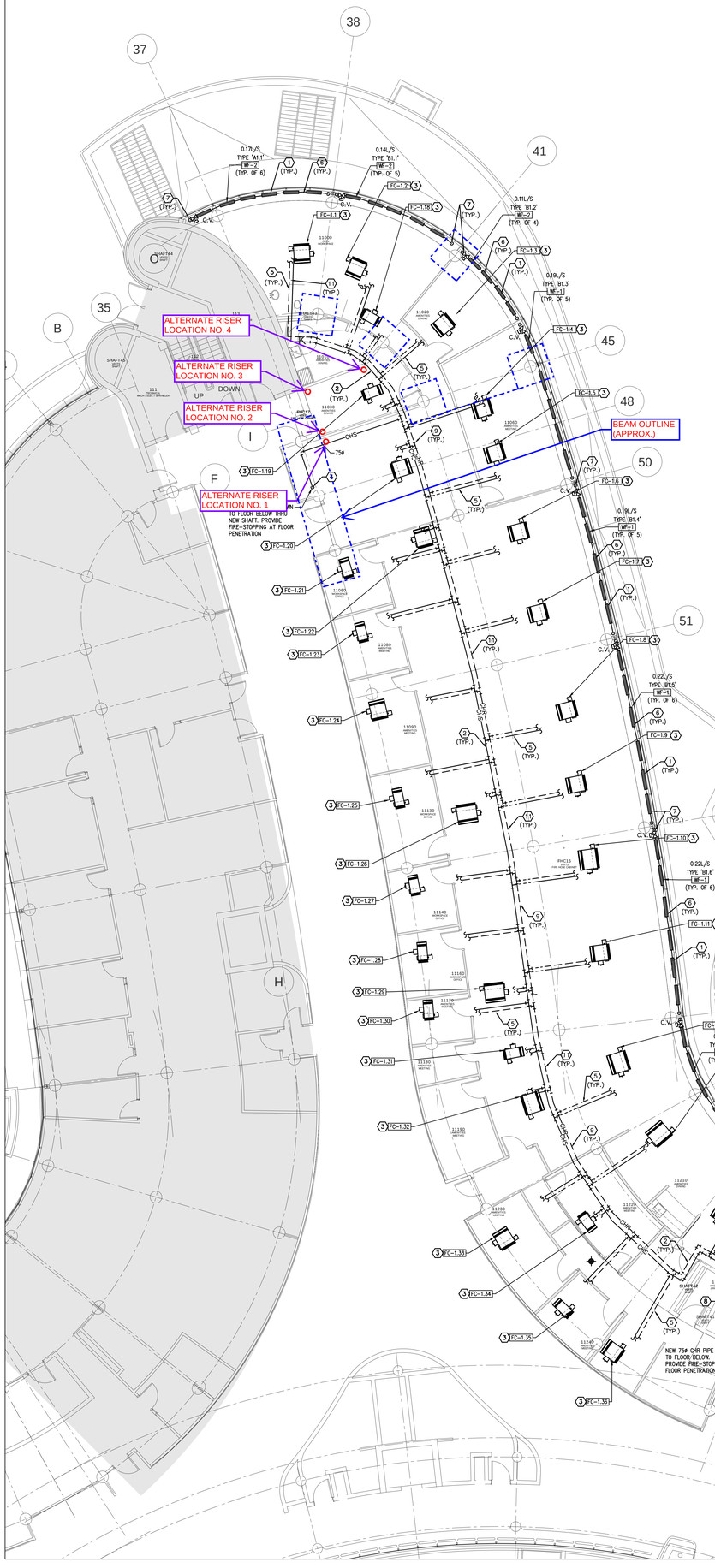
1. Ground Floor: Please send us a sketch showing multiple proposed locations for the chilled water riser so that the Furniture Team, Structural, Architect can review and comment.

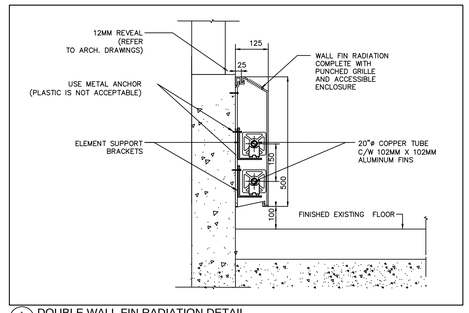
2. 2nd Floor: Please send us a sketch showing multiple proposed locations for the chilled water riser so that the Furniture Team, Structural, Architect can review and comment.

2. 3rd Floor: Please send us a sketch showing alternate location of the chilled water main routing for our review.

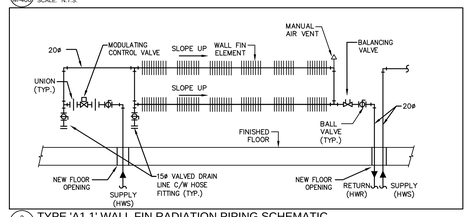
GPY Response 2025-05-20

Please refer to attached drawings for alternate chilled water riser locations. Please confirm which location is suitable for architect's and structural consultant's review and approval.

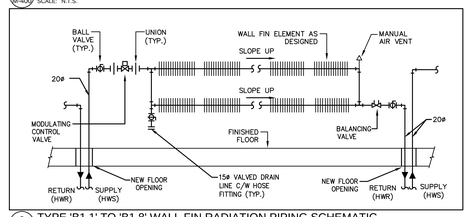




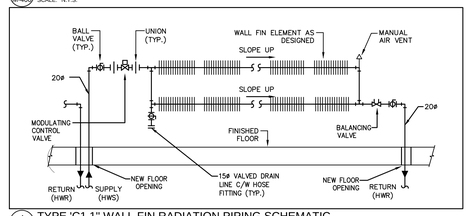
1 M-400 SCALE: N.T.S. DOUBLE WALL FIN RADIATION DETAIL



2 M-400 SCALE: N.T.S. TYPE 'A1.1' WALL FIN RADIATION PIPING SCHEMATIC



3 M-400 SCALE: N.T.S. TYPE 'B1.1' TO 'B1.8' WALL FIN RADIATION PIPING SCHEMATIC



4 M-400 SCALE: N.T.S. TYPE 'C1.1" WALL FIN RADIATION PIPING SCHEMATIC

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE IN BASEMENT FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. DROP NEW 75ø CHILLED WATER SUPPLY PIPE DOWN TO CEILING SPACE ON FLOOR BELOW AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
6. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
7. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN BASEMENT FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. CONTRACTOR TO ENSURE ALL PIPING ARE ENCLOSED WITHIN RAD ENCLOSURE. PROVIDE ALL NECESSARY FITTING/PIPE EXTENSION AS REQUIRED.
8. DROP NEW 75ø CHILLED WATER RETURN PIPE DOWN TO CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
9. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
10. EXISTING FAN COIL UNIT TO REMAIN. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE AND CONNECT TO EXISTING FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING.
11. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE BASEMENT FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FAN COIL PLACEMENT & PIPING INSTALLATION NOTES:

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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Fax: 866 853 3732
email: engineering
@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER G.B. YOUDELIS 2024/05/24 PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

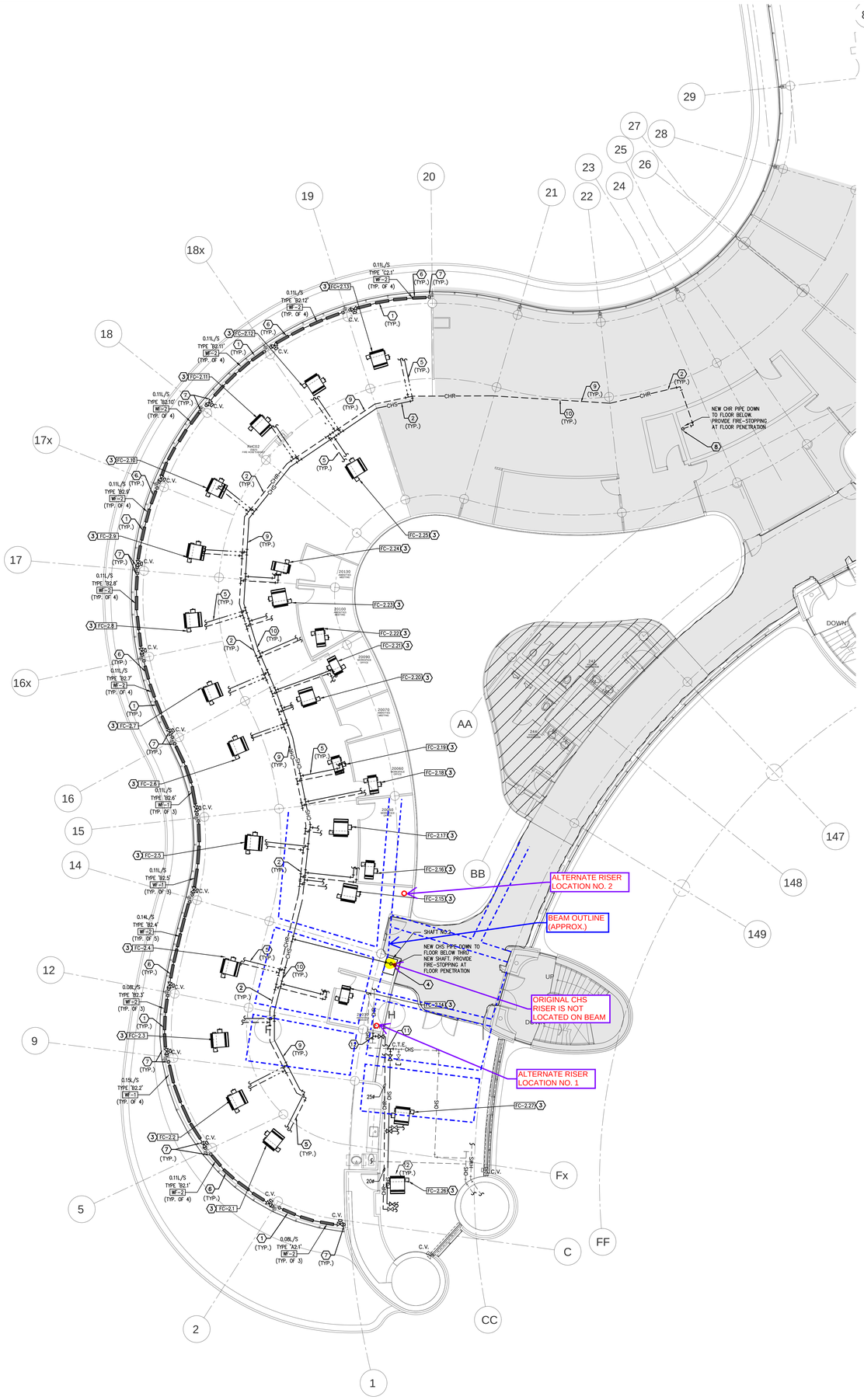
SUBMITTED TO: MUNICIPALITY OF YORK

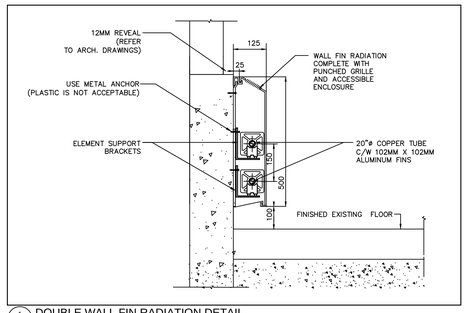
SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - HYDRONIC NEW LAYOUT

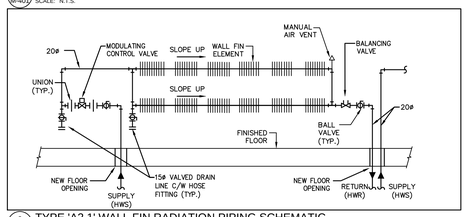
SHEET NUMBER:

M-400

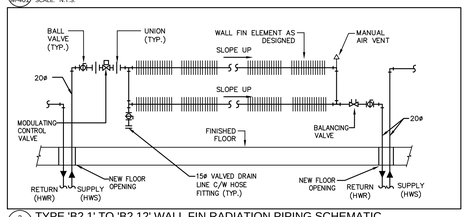




1 M-401 DOUBLE WALL FIN RADIATION DETAIL
SCALE: N.T.S.



2 M-401 TYPE 'A2.1' WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.



3 M-401 TYPE 'B2.1' TO 'B2.12' WALL FIN RADIATION PIPING SCHEMATIC
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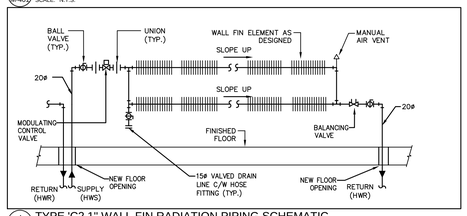

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8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
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11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE IN GROUND FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. DROP NEW CHILLED WATER SUPPLY PIPE DOWN TO GROUND FLOOR CEILING SPACE ON FLOOR BELOW AND CONNECT TO EXISTING SERVICES. REFER TO GROUND FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
6. NEW WALL FAN ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
7. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN GROUND FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. CONTRACTOR TO ENSURE ALL PIPING ARE ENCLOSED WITHIN RAD ENCLOSURE. PROVIDE ALL NECESSARY FITTING/PIPE EXTENSION AS REQUIRED.
8. DROP NEW CHILLED WATER RETURN PIPE DOWN TO GROUND FLOOR CEILING SPACE AND CONNECT TO EXISTING RISER AT ELECTRICAL ROOM. REFER TO GROUND FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
9. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
10. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.
11. CONNECT NEW CHILLED WATER SUPPLY PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION. PROVIDE NEW SHUT-OFF VALVE.
12. CONNECT NEW CHILLED WATER RETURN PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION. PROVIDE NEW SHUT-OFF VALVE.

NOTES

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1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

G.Bruce Stratton Architects
217 Richmond Street West, Suite 300
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email: engineering @gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

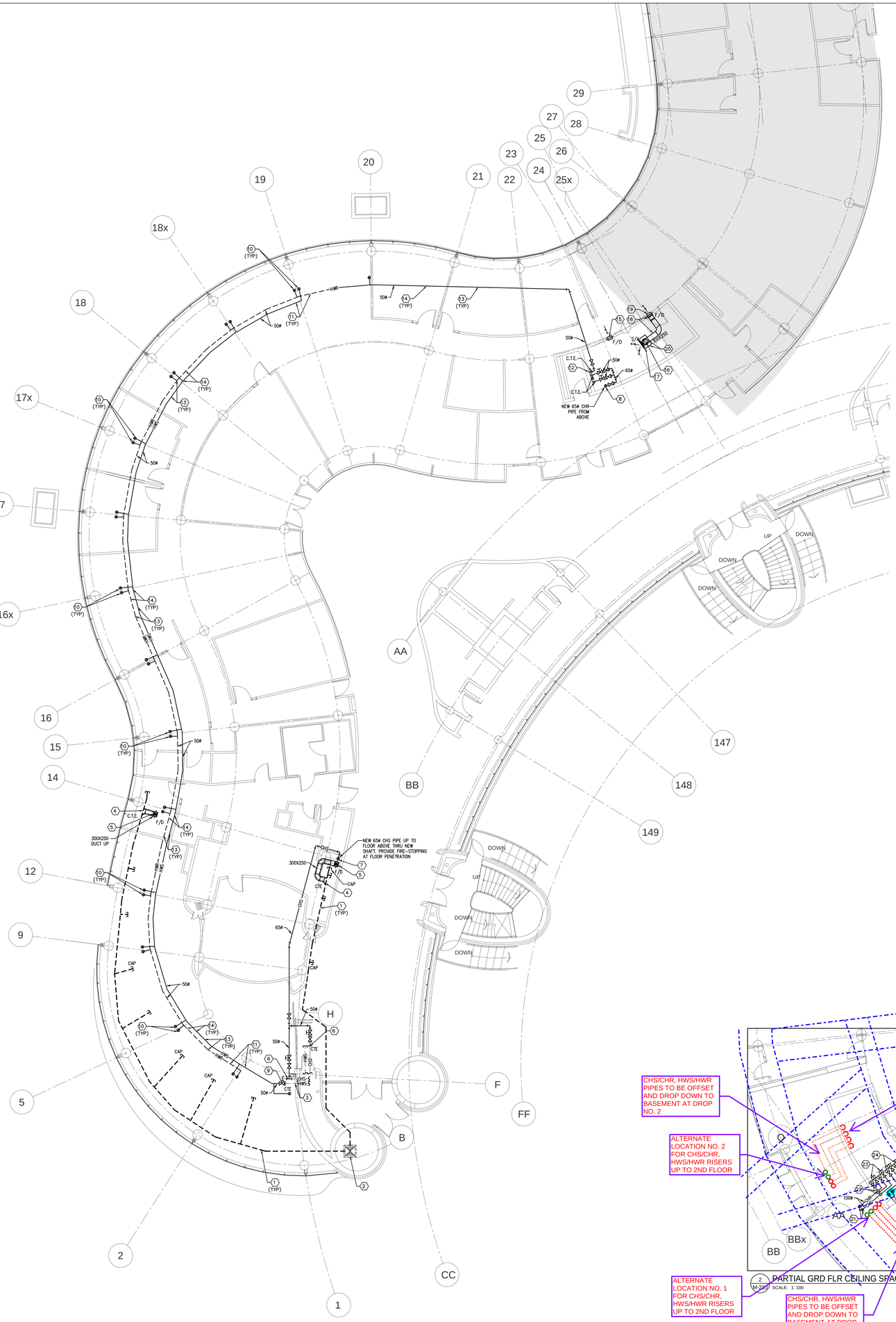
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-401



GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MEADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-211 – SECOND FLOOR HVAC NEW LAYOUT.
6. CONNECT NEW CHILLED WATER SUPPLY PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION.
7. RUN NEW CHILLED WATER SUPPLY PIPE UP TO FLOOR ABOVE. FOR CONTINUATION REFER TO DRAWING M-211 – SECOND FLOOR HVAC NEW LAYOUT.
8. NEW 65ø CHILLED WATER RETURN PIPE SERVING NEW FAN COIL UNITS FROM FLOOR ABOVE. EXTEND NEW PIPE AND CONNECT TO EXISTING MAIN CHILLED WATER PIPE RISERS AT THIS APPROXIMATE LOCATION. PROVIDE SHUT-OFF & BALANCING VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
9. CONNECT NEW HEATING WATER SUPPLY PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING CAPPED SERVICE AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPE. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO FLOOR ABOVE AND CONNECT TO NEW FLOOR MOUNTED WALL FIN HEATER. PROVIDE NEW FLOOR SLAB OPENINGS FOR HEATING SUPPLY & RETURN PIPES. ENSURE PIPES ARE WITHIN WALL FIN ENCLOSURE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 20ø BY-PASS LINE BETWEEN HEATING SUPPLY AND RETURN PIPE C/W EQL BY-PASS ACTUATOR WITH 2-WAY VALVE. BY-PASS ACTUATOR SHALL BE INTERLOCKED WITH BUILDING AUTOMATION SYSTEM.
12. CONNECT NEW 50ø HEATING WATER RETURN PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING MAIN HEATING WATER RETURN PIPE RISER AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
13. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. VICTAULIC PIPE FITTINGS ARE PERMITTED IN ACCESSIBLE SPACES ONLY. PROVIDE NEW PIPE HANGERS AS REQUIRED. INSTALL NEW HEATING PIPING TIGHT TO EXISTING SLAB AND BEAMS TO ALLOW FOR FUTURE HVAC EQUIPMENT/ TERMINAL UNITS/ DUCTWORK/ DIFFUSERS INSTALLATIONS.
14. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
15. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR AIR INTAKE. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE. REFER TO SECTION. PROVIDE FIRE DAMPER AT WALL PENETRATION.
16. EXTEND AIR EXHAUST FLEXIBLE HOSE FROM PORTABLE A/C UNIT UP & CONNECT TO NEW 300x250 EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITION AS REQUIRED. REFER TO SECTION. PROVIDE DUCT CLAMP ON AIR EXHAUST FLEXIBLE HOSE CONNECTION TO EXHAUST DUCT.
17. PROVIDE NEW PORTABLE AIR-CONDITIONING UNIT TO SERVE 3RD FLOOR ELECTRICAL ROOM. PORTABLE A/C UNIT SHALL BE OR EQUAL TO BLACK & DECKER MODEL #BFACT14WT, 14 MBH OF COOLING, 3 FAN SPEED, 115V/ 1PH/ 60HZ, 1.38 KW, 12.0 AMPS, 5-15P PLUG TYPE, 6 FT LONG POWER CORD, C/W AIR EXHAUST FLEXIBLE HOSE AND REMOTE CONTROL (PORTABLE A/C MODEL REFERENCE TO HOME DEPOT WEBSITE: HTTPS://WWW.HOMEDEPOT.CA/PRODUCT/BLACK-DECKER-14-000-BTU-7-700-BTU-DOE-PORTABLE-AIR-CONDITIONER-WITH-REMOTE-CONTROL-WHITE/1001737238). COORDINATE EXACT LOCATION ON SITE.
18. PROVIDE NEW 300x250 EXHAUST AIR DUCT AT HIGH LEVEL AND EXTEND TO NEW WALL OPENING AND CONNECT TO 300MM DIA. EXHAUST DUCT. PROVIDE SHEET METAL FRAME TO SUPPORT EXHAUST DUCT AT WALL PENETRATION AS REQUIRED. PROVIDE DUCT SUPPORTS & HANGERS FOR NEW EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITIONS. PROVIDE FIRE DAMPER AT WALL PENETRATION.
19. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR NEW EXHAUST DUCT. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL/CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE.
20. AFTER CHILLED WATER & HEATING WATER LINES HAS BEEN RESTORED AND ACTIVE. CONTRACTOR TO ENSURE EXISTING FANCOIL UNIT SERVING ELECTRICAL ROOM IS OPERATIONAL. ONCE CONFIRMED, CONTRACTOR SHALL REMOVE EXISTING EXHAUST DUCTWORK FROM WALL OPENING TO PORTABLE A/C UNIT AND DISPOSE OFF-SITE. PATCH & SEAL EXISTING WALL OPENING FOR EXHAUST & AIR INTAKE ON CONCRETE WALL AND MAKE GOOD. PORTABLE A/C UNIT C/W AIR EXHAUST FLEXIBLE HOSE SHALL BE RETURNED TO YORK REGION.
21. NEW 100ø CHILLED WATER SUPPLY & RETURN PIPE FROM FLOOR ABOVE. EXTEND PIPE TO EXISTING ELECTRICAL ROOM AS SHOWN. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
22. DROP NEW 100ø CHILLED WATER SUPPLY & RETURN PIPE TO FLOOR BELOW. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
23. PROVIDE CAPPED & VALVED 75ø CHILLED WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).
24. PROVIDE CAPPED & VALVED 50ø HEATING WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).
25. NEW 75ø HEATING WATER SUPPLY & RETURN PIPE RISERS FROM 2ND FLOOR. EXTEND RISERS DOWN TO BASEMENT AND CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION. FOR CONTINUATION REFER TO DRAWING M-208 – BASEMENT MECHANICAL NEW LAYOUT.

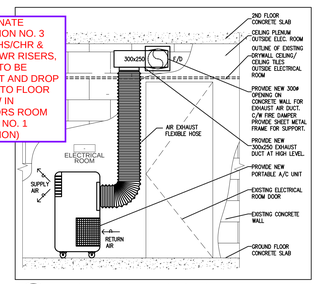
NOTES

ALL MECHANICAL WORKS INVOLVED ON THE THIS FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FINAL AIR BALANCING NOTE

PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

2 / M-210 PARTIAL GRD FLR CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1:100



1 / M-210 ELECTRICAL RM - SECTION
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

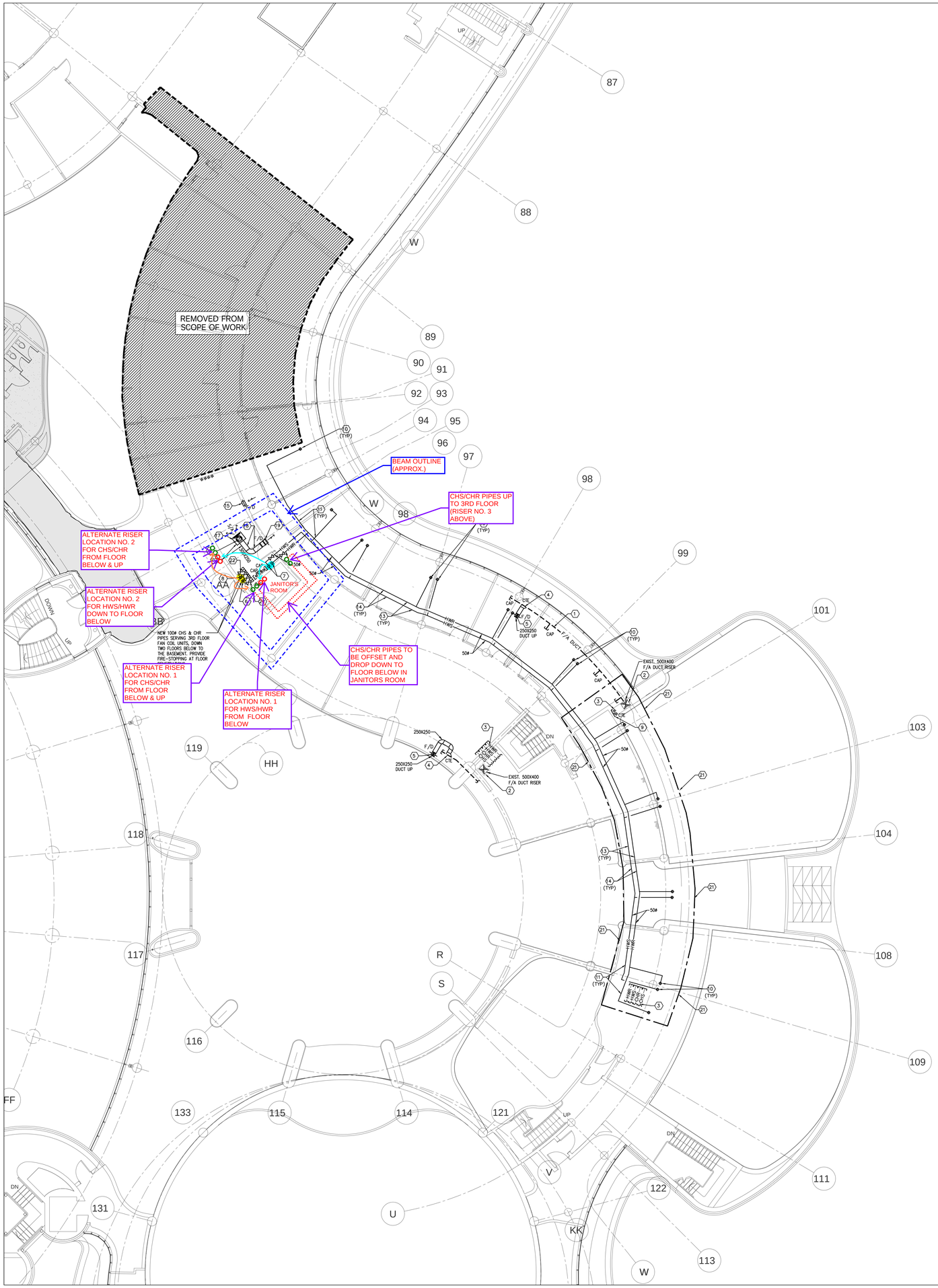
SCALE:	1:100
DRAWN BY:	K.J/G.P.Y.
SUBMITTED TO:	MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR CEILING SPACE AT BLOCK 'A' & 'C' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-210



GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MEADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

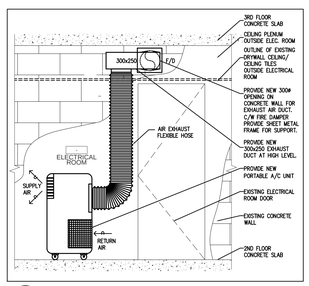
1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-211 – SECOND FLOOR HVAC NEW LAYOUT.
6. NEW 100ø CHILLED WATER SUPPLY PIPE RISER FROM FLOOR BELOW AND EXTEND UP TO 3RD FLOOR TO SERVE NEW FAN COIL UNITS. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
7. NEW 75ø HEATING WATER SUPPLY & RETURN PIPE DOWN TO BASEMENT AND CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION. FOR CONTINUATION REFER TO DRAWING M-210 – GROUND FLOOR MECHANICAL NEW LAYOUT.
8. NEW 100ø CHILLED WATER RETURN PIPE RISER FROM FLOOR ABOVE AND DROP DOWN TO THE BASEMENT TO CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
9. CONNECT NEW HEATING WATER SUPPLY PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING CAPPED SERVICE AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPE C/W SHUT-OFF VALVES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO FLOOR ABOVE AND CONNECT TO NEW FLOOR MOUNTED WALL FIN HEATER. PROVIDE NEW FLOOR SLAB OPENINGS FOR HEATING SUPPLY & RETURN PIPES. ENSURE PIPES ARE WITHIN WALL FIN ENCLOSURE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 20ø BY-PASS LINE BETWEEN HEATING SUPPLY AND RETURN PIPE C/W EQL BY-PASS ACTUATOR WITH 2-WAY VALVE. BY-PASS ACTUATOR SHALL BE INTERLOCKED WITH BUILDING AUTOMATION SYSTEM.
12. CONNECT NEW HEATING WATER RETURN PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING MAIN HEATING WATER RETURN PIPE RISER AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
13. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. SIZES OF NEW HEATING PIPING SHALL MATCH EXISTING HEATING PIPING SIZES. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. VICTAULIC PIPE FITTINGS ARE PERMITTED IN ACCESSIBLE SPACES ONLY. PROVIDE NEW PIPE HANGERS AS REQUIRED. INSTALL NEW HEATING PIPING TIGHT TO EXISTING SLAB AND BEAMS TO ALLOW FOR FUTURE HVAC EQUIPMENT/ TERMINAL UNITS/ DUCTWORK/ DIFFUSERS INSTALLATIONS.
14. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
15. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR AIR INTAKE. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE. REFER TO SECTION. PROVIDE FIRE DAMPER AT WALL PENETRATION.
16. EXTEND AIR EXHAUST FLEXIBLE HOSE FROM PORTABLE A/C UNIT UP & CONNECT TO NEW 300x250 EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITION AS REQUIRED. REFER TO SECTION. PROVIDE DUCT CLAMP ON AIR EXHAUST FLEXIBLE HOSE CONNECTION TO EXHAUST DUCT.
17. PROVIDE NEW PORTABLE AIR-CONDITIONING UNIT TO SERVE 3RD FLOOR ELECTRICAL ROOM. PORTABLE A/C UNIT SHALL BE OR EQUAL TO BLACK & DECKER MODEL #BPACT14WT, 14 MBH OF COOLING, 3 FAN SPEED, 115V/ 1PH/ 60HZ, 1.38 KW, 12.0 AMPS, 5-15P PLUG TYPE, 6 FT LONG POWER CORD, C/W AIR EXHAUST FLEXIBLE HOSE AND REMOTE CONTROL (PORTABLE A/C MODEL REFERENCE TO HOME DEPOT WEBSITE: HTTPS://WWW.HOMEDEPOT.CA/PRODUCT/BLACK-DECKER-14-000-BTU-7-700-BTU-DOE-PORTABLE-AIR-CONDITIONER-WITH-REMOTE-CONTROL-WHITE/1001737238). COORDINATE EXACT LOCATION ON SITE.
18. PROVIDE NEW 300x250 EXHAUST AIR DUCT AT HIGH LEVEL AND EXTEND TO NEW WALL OPENING AND CONNECT TO 300MM DIA. EXHAUST DUCT. PROVIDE SHEET METAL FRAME TO SUPPORT EXHAUST DUCT AT WALL PENETRATION AS REQUIRED. PROVIDE DUCT SUPPORTS & HANGERS FOR NEW EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITIONS. PROVIDE FIRE DAMPER AT WALL PENETRATION.
19. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR NEW EXHAUST DUCT. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL/CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE.
20. AFTER CHILLED WATER & HEATING WATER LINES HAS BEEN RESTORED AND ACTIVE. CONTRACTOR TO ENSURE EXISTING FANCOIL UNIT SERVING ELECTRICAL ROOM IS OPERATIONAL, ONCE CONFIRMED, CONTRACTOR SHALL REMOVE EXISTING EXHAUST DUCTWORK FROM WALL OPENING TO PORTABLE A/C UNIT AND DISPOSE OFF-SITE. PATCH & SEAL EXISTING WALL OPENING FOR EXHAUST & AIR INTAKE ON CONCRETE WALL AND MAKE GOOD. PORTABLE A/C UNIT C/W AIR EXHAUST FLEXIBLE HOSE SHALL BE RETURNED TO YORK REGION.
21. ALL WORK INVOLVED WITHIN THIS AREA WILL BE AT HIGH LEVEL. CONTRACTOR TO PROVIDE ALLOWANCE FOR PROVIDING NECESSARY SCAFFOLDING AND SCISSOR LIFT TO EXECUTE DEMOLITION/ NEW WORK AS SHOWN. ALLOW FOR CUTTING/ PATCHING OF EXISTING DRYWALL CEILING TO SUIT DEMOLITION/ NEW WORK.
22. PROVIDE CAPPED & VALVED 75ø CHILLED WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE THIS FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FINAL AIR BALANCING NOTE

PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW



1 / M-210 ELECTRICAL RM - SECTION
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
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2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER G.P. YOUDELIS 2024/05/24 PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

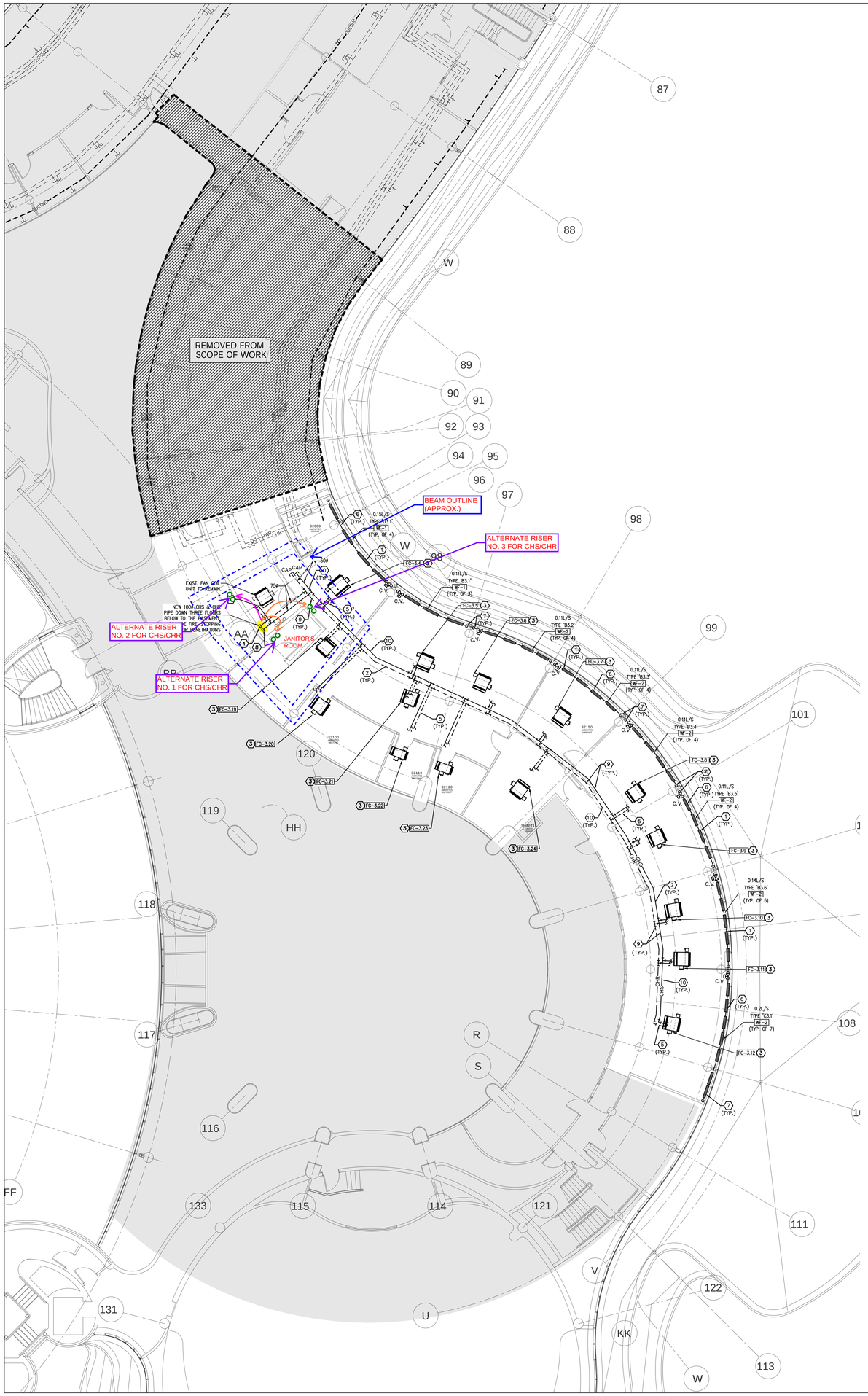
SUBMITTED TO: MUNICIPALITY OF YORK

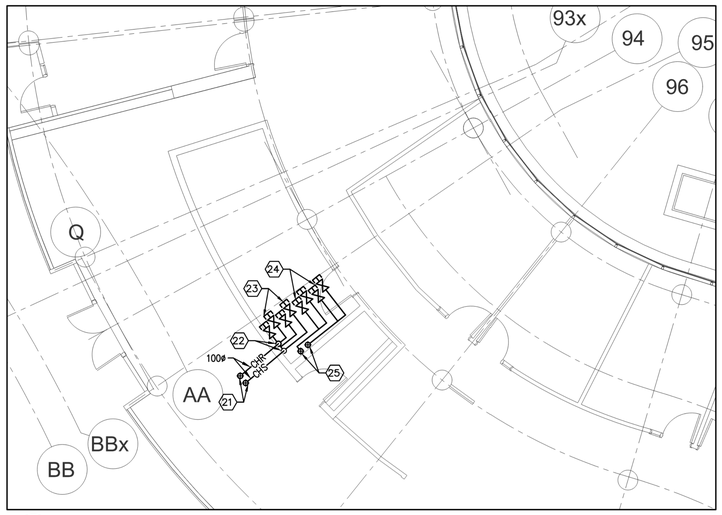
SHEET TITLE:

PARTIAL SECOND FLOOR CEILING SPACE AT BLOCK 'B' & 'C' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-212





2 M-210 PARTIAL GRD FLR CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1: 100

NOTES

THE EXTENT OF ALL EXISTING

LOCATIONS AND/OR EXISTING
FOR INSTRUCTIONS BEFORE ANY WORK

EXISTING & NEW MECHANICAL,

REMENTS AND TO ENSURE THAT ALL
D.

SUCH WAY THAT OTHER SERVICES

EXISTING DRYWALL CEILING TO
AL SERVICES OUTLINED IN SCOPE OF

G MAINTENANCE IS ACCESSIBLE.
NEER AND ENGINEER, PROVIDE ACCESS

SHALL BE FIRE STOPPED, SEALED,

TED TO BE REMOVED, REMOVE ALL
, ETC.

CTION WITH ARCHITECTURAL DRAWINGS.

ALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

E C/W ENCLOSURE. PROVIDE NEW
NG WATER PIPE IN GROUND FLOOR
34. (TYPICAL)

R PIPING CONTRACTOR TO PROVIDE
R. (TYPICAL)

IT TIGHT TO CEILING SLAB AS HIGH
ED. (TYPICAL)

N THREE FLOORS BELOW TO THE
NG SERVICES. REFER TO BASEMENT
TO BE CONFIRMED ON SITE.

D WATER PIPE TO NEW FAN COIL UNIT
L VALVE AND CONTROL WIRING.

OUS FROM WALL TO WALL PROVIDE
SHALL BE ACCESSIBLE AT ALL TIMES.

7 NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN 2ND FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB PENETRATIONS AS REQUIRED. CONTRACTOR TO ENSURE ALL PROVIDE ALL NECESSARY FITTING/PIPE

N THREE FLOORS BELOW TO THE
G SERVICES. REFER TO BASEMENT
TO BE CONFIRMED ON SITE.

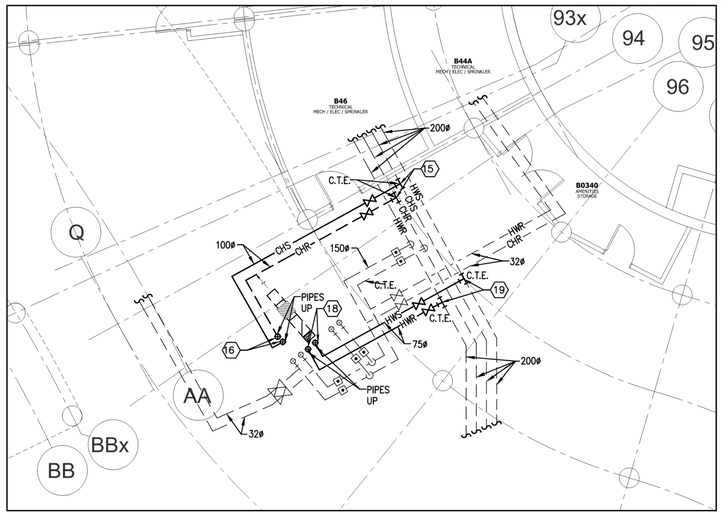
TH NO LOSS OF PRESSURE PRIOR TO
TYPICAL)

E SIZES, REFER TO SCHEMATIC

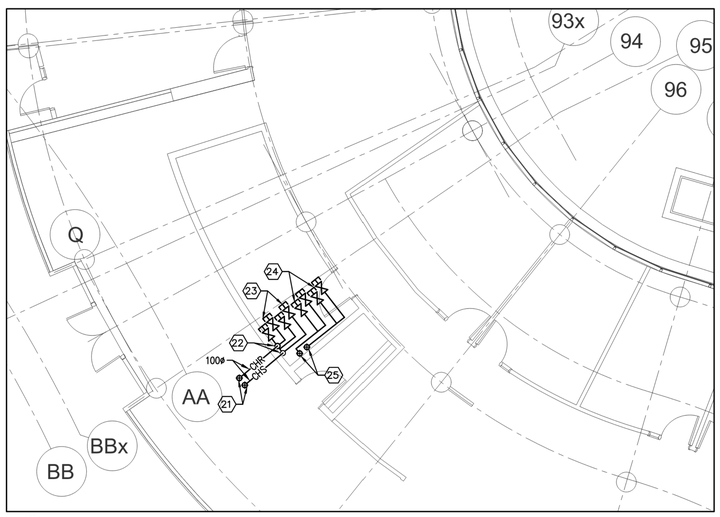
75ø CHILLED WATER SUPPLY/RETURN
NIT C/W ISOLATION VALVE,
ARING.

ND BASEMENT SHALL ONLY BE
DES REMOVAL & CAPPING OF
APPING/NEW CONNECTION OF
L/CAPPING/NEW CONNECTION OF
T.C.. CONTRACTOR SHALL
T OF ANY WORK.

ARCHITECT AND YORK REGION
REVIEW AND SIGN-OFF ON ALL
ECHANICAL FAN COIL UNITS TO
RINKLER PIPE, CHILLED/ HEATING
IS IS TO ALLOW FOR THE MOTOR
ENSURE ADEQUATE SPACE IS
FAN COIL UNIT FOR REGULAR
URE TO HAVE A MEETING TO
EAR ALL COST FOR THE REWORK.



1 M-208 PARTIAL BASEMENT CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1: 100



2 M-210 PARTIAL GRD FLR CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1: 100

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-402

1st Floor

0.17L/S
TYPE 'A1.1'
WF-2
(TYP. OF 6)

7 (TYP.)

1 (TYP.)

6 (TYP.)

C.V.

0.14L/S
TYPE 'B1.1'
WF-2
(TYP. OF 5)

FC-1.2 3

FC-1.1 3

FC-1.18 3

7 (TYP.)

0.11L/S
TYPE 'B1.2'
WF-2
(TYP. OF 4)

6 (TYP.)

FC-1.3 3

1 (TYP.)

0.19L/S
TYPE 'B1.3'
WF-1
(TYP. OF 5)

C.V.

FC-1.4 3

FC-1.5 3

7 (TYP.)

C.V.

FC-1.6 3

6 (TYP.)

FC-1.7 3

1 (TYP.)

C.V.

FC-1.8 3

0.22L/S
TYPE 'B1.5'
WF-1
(TYP. OF 5)

5 (TYP.)

11 (TYP.)

9 (TYP.)

5 (TYP.)

2 (TYP.)

FC-1.19 3

FC-1.20 3

FC-1.21 3

FC-1.22 3

FC-1.23 3

FC-1.24 3

FC-1.25 3

0.19L/S
TYPE 'B1.4'
WF-1
(TYP. OF 5)

NEW 75Ø CHS PIPE DOWN TO FLOOR BELOW THRU NEW SHAFT. PROVIDE FIRE-STOPPING AT FLOOR PENETRATION

CHS 75Ø

CHS

CHR

CHS

CHR

SHAFT44 VERTS SHAFT

SHAFT45 VERTS SHAFT

SHAFT43 VERTS SHAFT

112 VERTS STAIR

111 TECHNICAL MECH / ELEC / SPRINKLER

113 TECHNICAL MECH / ELEC / SPRINKLER

UP

DOWN

11000 OPEN WORKSPACE

11010 AMENITIES DINING

11020 AMENITIES DINING

11030 AMENITIES DINING

FHC17 VERTS FIRE HOSE CABINET

11060 AMENITIES MEETING

11060 WORKSPACE OFFICE

11080 AMENITIES MEETING

11090 AMENITIES MEETING

35

41

I

45

F

48

50

51

41

45

48

50

51

I

F

P4

SHAFT44
VERTS
SHAFT

11000
OPEN
WORKSPACE

NEW WALL TO FOLLOW
NATURAL CURVE OF
ARCHITECTURE

SHAFT43
VERTS
SHAFT

3

1482

P2

1120

543

K

11010
AMENITIES
DINING

2
A601

1
A601

3360

P2

150°

113
TECHNICAL
MECH / ELEC / SPRINKLER

112
VERTS
STAIR

UP

DOWN

FP

11020
AMENITIES
DINING

G-21

3

11030
AMENITIES
DINING

G-20

FHC17
VERTS
FIRE HOSE CABINET

F.H.C.

P4

ALIGN

3

11060
AMENITIES
MEETING

EG-5

EG-6

3

3130 TYP

G-19

11060
WORKSPACE
OFFICE

3150

G-18

11080
AMENITIES
MEETING

3120

G-17

4835

11090
AMENITIES
MEETING

41

45

48

50

51

I

K

DOWN

11000
OPEN WORKSPACE

11010
AMENITIES DINING

11020
AMENITIES DINING

11030
AMENITIES DINING

113
TECHNICAL
MECH / ELEC / SPRINKLER

SHAFT43
VERTS
SHAFT

FHC17
VERTS
FIRE HOSE CABINET

BANQ BENCH SEATING

11040.04
WORKSPACE WORKSTATION

11040.03
WORKSPACE WORKSTATION

11040.02
WORKSPACE WORKSTATION

11040.01
WORKSPACE WORKSTATION

11060
AMENITIES MEETING

11060
WORKSPACE OFFICE

11080
AMENITIES MEETING

11090
AMENITIES MEETING

11050.01
WORKSPACE WORKSTATION

11070.01
WORKSPACE WORKSTATION

11070.02
WORKSPACE WORKSTATION

11070.03
WORKSPACE WORKSTATION

11070.04
WORKSPACE WORKSTATION

11070.05
WORKSPACE WORKSTATION

11070.06
WORKSPACE WORKSTATION

11070.07
WORKSPACE WORKSTATION

11100.01
WORKSPACE WORKSTATION

11100.02
WORKSPACE WORKSTATION

11100.03
WORKSPACE WORKSTATION

11100.04
WORKSPACE WORKSTATION

POWER POLE

FP

2nd Floor


0.11L/S
TYPE 'B2.8'
WF-2
(TYP. OF 4)
3 FC-2.8
C.V.
6 (TYP.)
0.11L/S
TYPE 'B2.7'
WF-2
(TYP. OF 4)
1 (TYP.)
3 FC-2.7
7 (TYP.)
3 FC-2.6
0.11L/S
TYPE 'B2.6'
WF-1
(TYP. OF 3)
16
15
3 FC-2.5
14
0.11L/S
TYPE 'B2.5'
WF-1
(TYP. OF 3)
0.14L/S
TYPE 'B2.4'
WF-2
(TYP. OF 5)
3 FC-2.4
6 (TYP.)
12
0.08L/S
TYPE 'B2.3'
WF-2
(TYP. OF 3)
1 (TYP.)
3 FC-2.3
9
7 (TYP.)
0.15L/S
TYPE 'B2.2'
WF-1
(TYP. OF 4)
3 FC-2.2
7 (TYP.)
0.11L/S
TYPE 'B2.1'
WF-2
(TYP. OF 4)
6 (TYP.)
3 FC-2.1
5
5 (TYP.)
10 (TYP.)
2 (TYP.)
9 (TYP.)
CHR
CHS
FC-2.22 3
FC-2.21 3
20090 WORKSPACE OFFICE
FC-2.20 3
20070 AMENITIES MEETING
AA
FC-2.19 3
20060 WORKSPACE OFFICE
FC-2.18 3
20050 WORKSPACE OFFICE
FC-2.17 3
BB
FC-2.16 3
FC-2.15 3
SHAFT NO.2
NEW CHS PIPE DOWN TO FLOOR BELOW THRU NEW SHAFT. PROVIDE FIRE-STOPPING AT FLOOR PENETRATION
4
FC-2.14 3
H
20030 AMENITIES SUPPORT
C.T.E.
11
12
25ø
20ø
12 (TYP.)
FC-2.26 3
HWS


Available from Grabber:
Drywall Screws
GRABBER


MALA
#322654


SuperPaint
KILZ
PVA
head
protection
eye
protection

3rd Floor

REMOVED FROM
SCOPE OF WORK
W
88
89
90
91
92
93
94
95
96
97
98
98
99
101
1
108
114
120
AA
BB
HH
R
S
HWR
CHR
32080
EXIST. FAN COIL
UNIT TO REMAIN.
NEW 100ø CHS & CHR
PIPE DOWN THREE FLOORS
BELOW TO THE BASEMENT.
PROVIDE FIRE-STOPPING
AT FLOOR PENETRATIONS
CAP CAP
75ø
50ø
11
4
8
9 (TYP.)
10 (TYP.)
5 (TYP.)
2 (TYP.)
6 (TYP.)
7 (TYP.)
1 (TYP.)
0.15L/S
TYPE 'D3.1'
WF-1
(TYP. OF 4)
FC-3.4 3
C.V.
0.11L/S
TYPE 'B3.1'
WF-1
(TYP. OF 3)
FC-3.5 3
FC-3.6 3
0.11L/S
TYPE 'B3.2'
WF-2
(TYP. OF 4)
FC-3.7 3
0.11L/S
TYPE 'B3.3'
WF-2
(TYP. OF 4)
0.11L/S
TYPE 'B3.4'
WF-2
(TYP. OF 4)
FC-3.8 3
0.11L/S
TYPE 'B3.5'
WF-2
(TYP. OF 4)
FC-3.9 3
0.14L/S
TYPE 'B3.6'
WF-2
(TYP. OF 5)
FC-3.10 3
FC-3.11 3
0.2L/S
TYPE 'C3.1'
WF-2
(TYP. OF 7)
FC-3.12 3
3 FC-3.19
3 FC-3.20
3 FC-3.21
3 FC-3.22
3 FC-3.23
3 FC-3.24
32100
32110
32120
32150
SHAFT15
CHS
CHR
relocation of VAV
due to old mains/electrical conduit

90
91
92
93
94
95
96
97
98
99
101
103
104
108
119
120
121
BB
AA
W
HH
R
S
313 MECHANICAL MECH / ELEC / SPRINKLER
314 HYGIENE JANITOR
32080 AMENITIES LOBBY
32100 AMENITIES MEETING
32110 AMENITIES MEETING
32120 AMENITIES SUPPORT
32150 AMENITIES SUPPORT
32240 AMENITIES STORAGE
32250 TECHNICAL TELECOM / SERVER
323B VERTS ATRIUM
317 VERTS STAIR
SHAFT14 VERTS SHAFT
SHAFT15 VERTS SHAFT
SHAFT16 VERTS SHAFT
FHC07 FIRE HOSE CABINET
FHC08 SPRINKLER VALVE ACCESS
C 600X600 R/A (TYP. FOR 3)
D 200ø 79L/S (TYP. FOR 3)
FC-3.4
FC-3.5
FC-3.6
FC-3.7
FC-3.8
FC-3.9
FC-3.10
FC-3.11
FC-3.12
FC-3.19
FC-3.20
FC-3.21
FC-3.22
FC-3.23
FC-3.24
A 200ø 93L/S (TYP. FOR 2)
A 200ø 79L/S (TYP. FOR 3)
A 150ø 61L/S (TYP. FOR 2)
D 200ø 93L/S
D 150ø 61L/S (TYP. FOR 2)
C 600X300 R/A (TYP. FOR 3)
C 600X600 R/A (TYP. FOR 6)
1000x250
800x250
500X250
300X250
250x250
250X200 F/A DUCT FROM BELOW C/W FIRE DAMPER.
F/D
(TYP.)
B.D. 21L/S
B.D. 22L/S
B.D. 7L/S
B.D. 20L/S
B.D. 16L/S
B.D. 17L/S
150ø
200ø
250X250
BF-3.2