

Fisheries and Oceans Pêches et Océans Canada



DESIGN CONSULTANT:

LIST OF DRAWINGS: A201 DEMOLITION PLAN, FLOOR

PLANS & REFLECTED

M1 MECHANICAL DEMOLITION M2 DOMESTIC WATER
M3 SANITARY

M4 HYDRONIC HEATING M5 HVAC

E5 PANEL SCHEDULES &

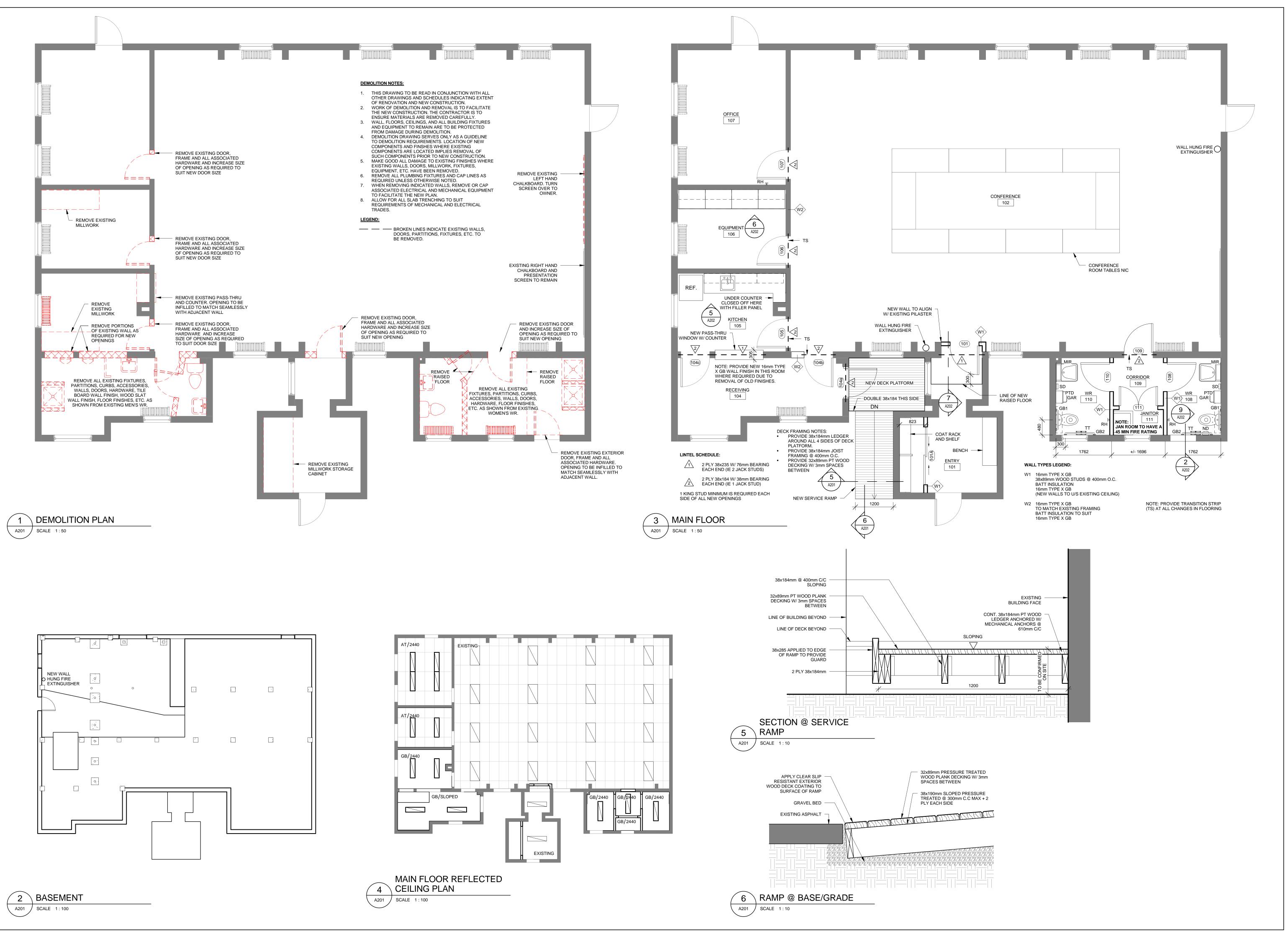
F5654-170009 FII-2 PROJECT 9L651 DESIGN FOR HARRY HACHEY CONFERENCE CENTER FIT-UP

ST. ANDREWS BIOLOGICAL STATION, 531 BRANDY COVE RD. ST. ANDREWS, NB

CONFERENCE **CENTER FIT-UP**

DRAWING TITLE:
COVER SHEET

A000



ARCHITECT:

63 Fitzroy Street
Charlottetown, PE
Canada C1A 1R4

Ph: 902-566-4449
Fx: 902-566-1235
architects@bghj.com
Web: www.bghj.com

DESIGN CONSULTANT:

1 Issued for Tender 06/21/17

Rev Description Date

22226

CERTIFICATE OF PRACTICE

PROJECT:
HARRY HACHEY
CONFERENCE
CENTER FIT-UP

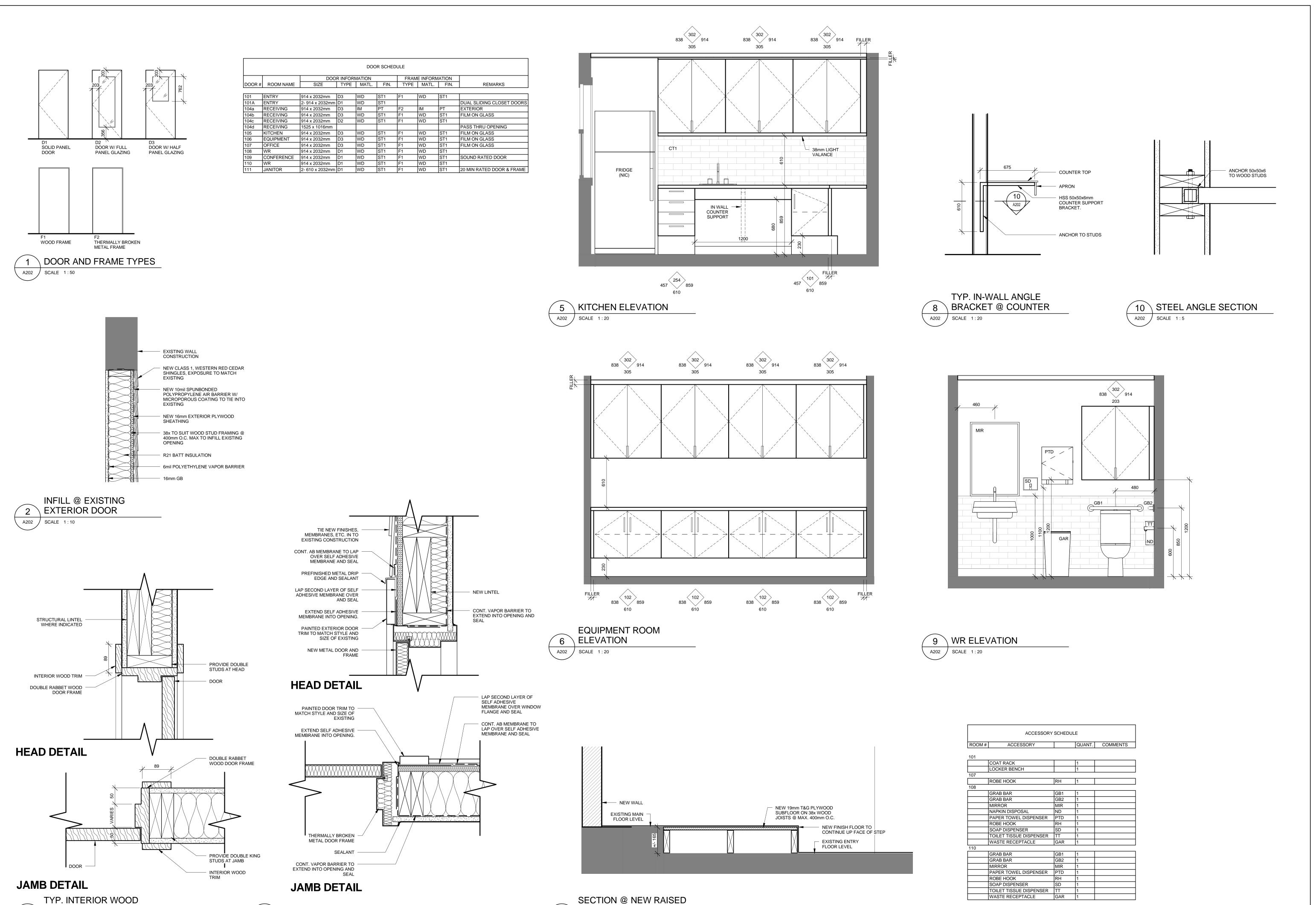
NINE YARDS INC.

St. Andrews, NB

DRAWING TITLE:
DEMOLITION PLAN,
FLOOR PLAN &
REFLECTED
CEILING PLAN

DRAWN: FILE NO:
SM 16031

A201



FLOOR

SCALE 1:10

A202

EXTERIOR DOOR DETAILS

A202 / SCALE 1:5

3 FRAME DOOR DETAILS

A202 / SCALE 1:5

ARCHITECT: Ph: 902-566-4449 Fx: 902-566-1235 architects@bghj.com

DESIGN CONSULTANT:

1 Issued for Tender 06/21/17

PROJECT: HARRY HACHEY CONFERENCE **CENTER FIT-UP**

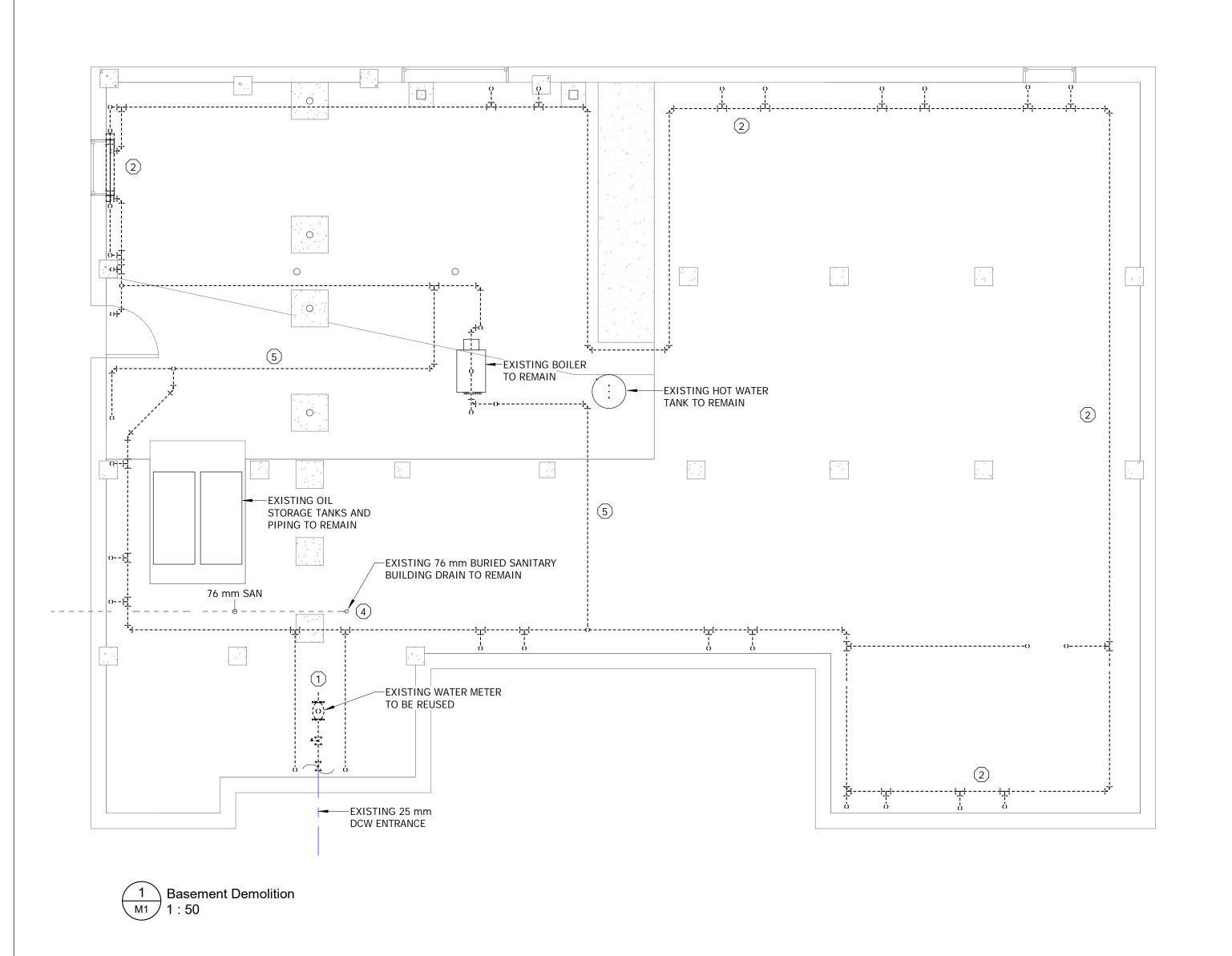
NINE YARDS INC.

St. Andrews, NB

DRAWING TITLE: MISCELLANEOUS **DETAILS**

DRAWN: FILE NO:

A202



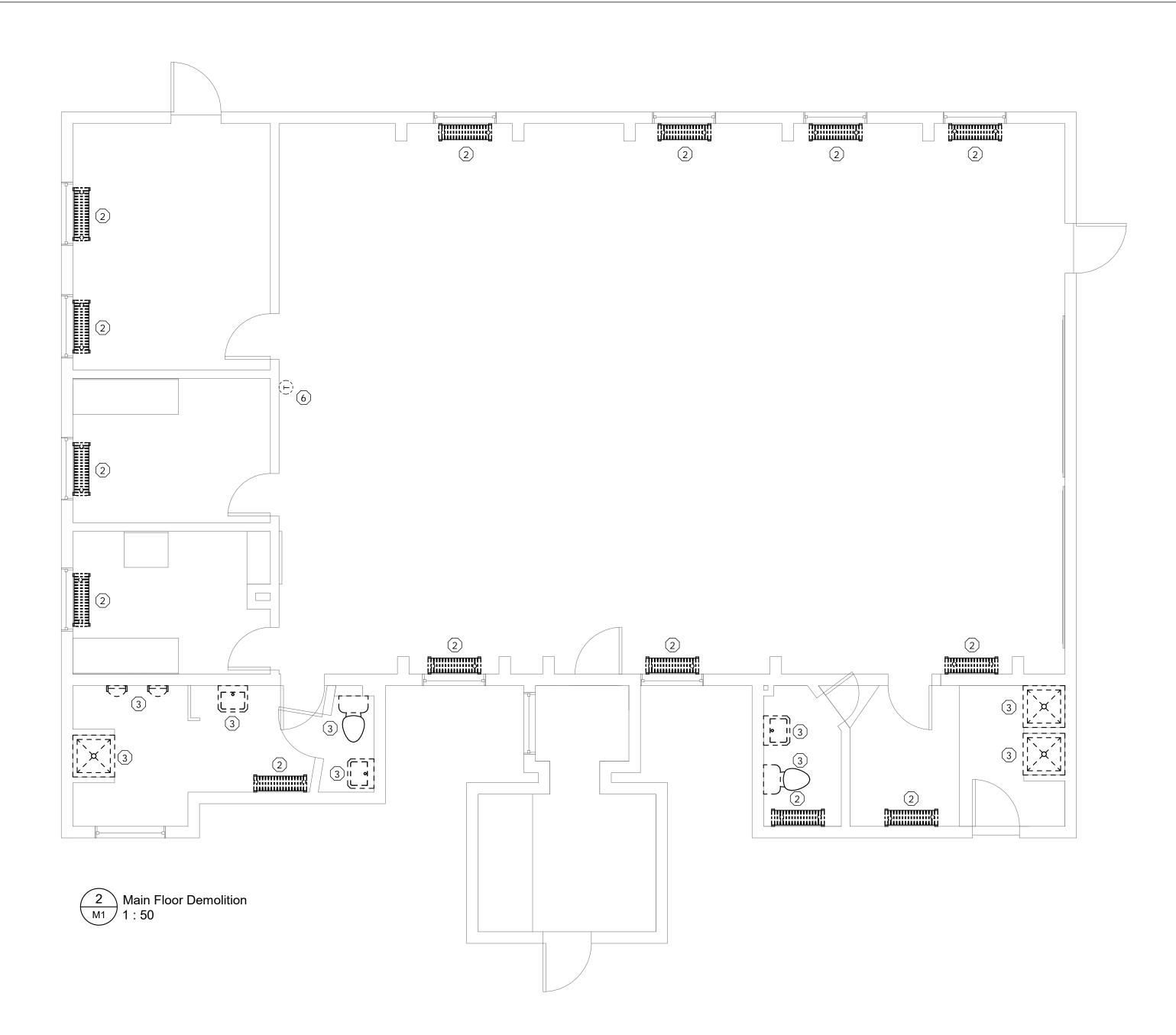
<u>DEMOLITION NOTES</u>

- 1. THESE DRAWINGS ARE PARTIALLY SCHEMATIC IN CHARACTER AND MUST NOT BE SCALED. THE CONTRACTOR SHALL FIT THE WORK TO THE JOB, CAREFULLY INVESTIGATING THE STRUCTURAL, ELECTRICAL, ARCHITECTURAL SPACES AND FINISH CONDITIONS AFFECTING THE WORK ACCORDINGLY AND FURNISHING NECESSARY BENDS, OFFSETS, FITTINGS, JUNCTIONS, ETC. WHETHER SPECIFICALLY SHOWN OR CALLED FOR OR NOT, AND SEEING THAT THERE ARE NO INTERFERENCES BETWEEN THIS WORK AND THE WORK OF ANY OTHER TRADE.
- ALL PIPING INDICATED ON DRAWINGS TO BE DEMOLISHED SHALL BE REMOVED BY THIS
 CONTRACTOR, INCLUDING ALL PLUMBING FIXTURES AND ASSOCIATED VALVES AND FITTINGS.
 THIS CONTRACTOR SHALL REMOVE FROM THE SITE AND PROPERLY DISPOSE OF ALL DEMOLISHED
 PIPING, FIXTURES, EQUIPMENT, ETC. UNLESS OTHERWISE NOTED.
- 4. THE FULL EXTENT OF CUTTING, PATCHING AND TRENCHING IS NOT NECESSARILY INDICATED IN THE DEMOLITION NOTES. REFER AS WELL TO THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR RELATED WORK. INFORMATION PRESENTED IN THE DEMOLITION NOTES IS TO BE COORDINATED AND READ IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL DETAILS, DRAWINGS AND SPECIFICATIONS.
- DRAWINGS AND SPECIFICATIONS.

 5. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND INVERT ELEVATIONS PRIOR TO COMMENCING WORK. ANY ERRORS OR OMISSIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND THE ENGINEER IMMEDIATELY.
- 6. DEMOLITION NOTES/DRAWINGS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE TO INDICATE THE GENERAL EXTENT OF DEMOLITION WORK AND AS SUCH DO NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THE EXTENT OF DEMOLITION WORK WILL BE THAT WHICH IS NECESSARY TO COMPLETE THE WORK DESCRIBED BY THE CONTRACT DOCUMENTS.
- 7. INFORMATION PRESENTED IN DEMOLITION NOTES AND ON DRAWINGS IS TO BE COORDINATED AND READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DETAILS/DRAWINGS AND SPECIFICATIONS.
- 8. PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM.

	Demolition Keynotes										
1	DISCONNECT AND REMOVE DOMESTIC HOT AND COLD WATER PIPING, INCLUDING TEES, VALVES, WATER METER, PRESSURE-REDUCING VALVE AND OTHER COMPONENTS BACK TO THE MAIN ENTRANCE. WATER METER TO BE REUSED.										
2	REMOVE AND DISPOSE OF ALL EXISTING RADIANT HEATER. REMOVE ALL HYDRONIC PIPING. PATCH UNUSED FLOOR PENETRATIONS TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS.										
3	REMOVE AND DISPOSE OF ALL PLUMBING FIXTURES IN THIS ROOM. DISCONNECT AND REMOVE ALL ASSOCIATED PIPING, TEES, VALVES AND OTHER COMPONENTS BACK TO THE WATER ENTRANCE IN BASEMENT.										
4	DISCONNECT AND REMOVE ALL SANITARY PIPING BACK TO BURIED SANITARY BUILDING DRAIN IN BASEMENT.										
(5)	DISCONNECT AND REMOVE PIPING, FITTINGS AND ASSOCIATED COMPONENTS AS SHOWN.										

6 REMOVE EXISTING THERMOSTAT



ARCHITECT:

63 Fitzroy Street Charlottetown, PE Canada C1A 1R4 Ph: 902-566-4449 Fx: 902-566-1235 architects@bghj.co Web: www.bghj.cor

DESIGN CONSULTANT:



THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS
OF THIS DRAWING ARE BASED ON
INFORMATION PROVIDED BY OTHERS
AND THE ENGINEER NEITHER
EXPRESSLY NOR IMPLICITLY
WARRANTS THE ACCURACY OR
COMPLETENESS OF SAID
DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

 3
 Revised Hydronic Heating
 June 20, 2017

 2
 Issued for Tender
 June 2, 2017

 1
 Issued for 99% Review
 May 25, 2017

 0
 Issued for Permit and Pricing
 Jan. 27, 2017

 Rev
 Description
 Date

21-6-201

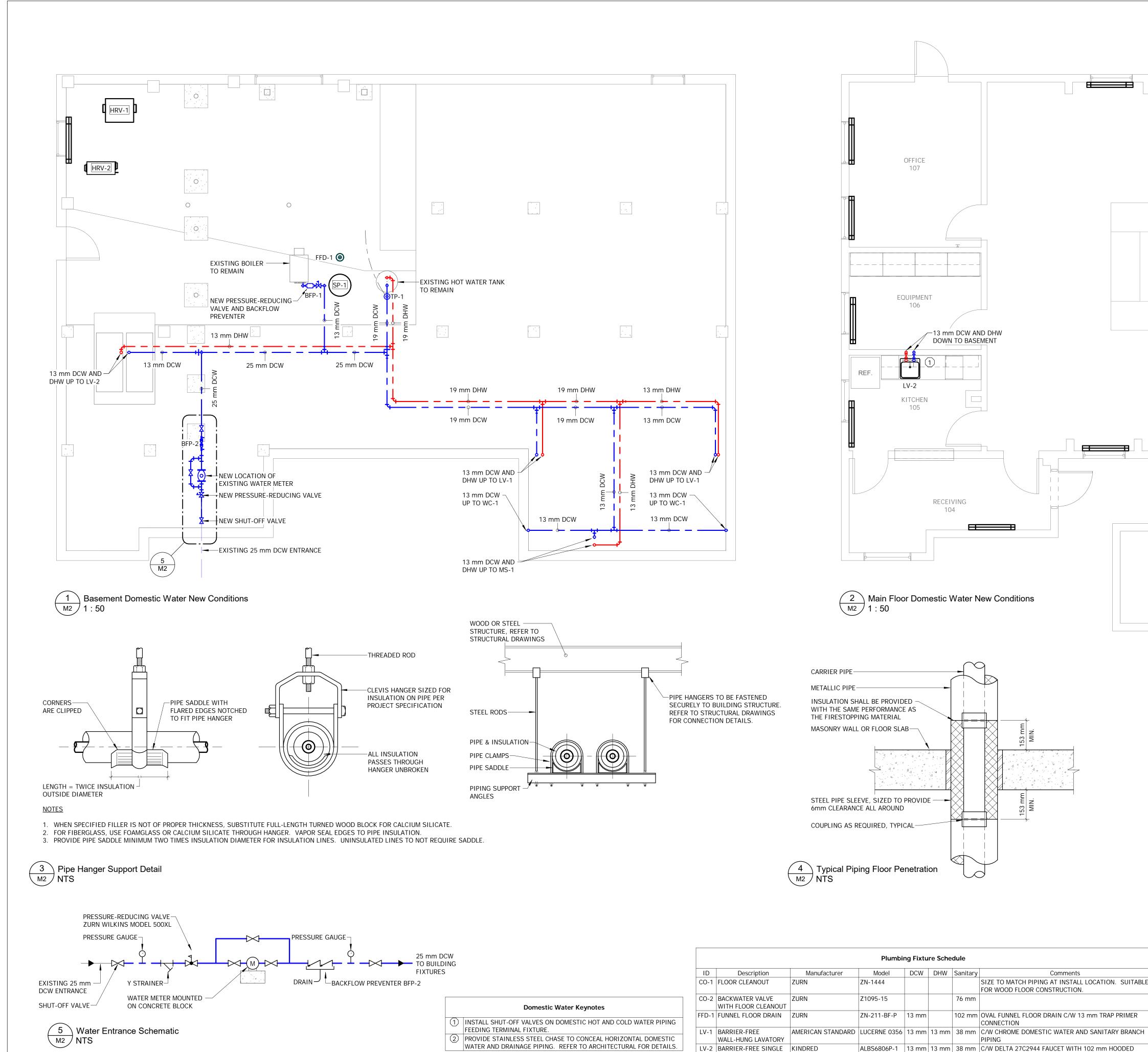
PROJECT:

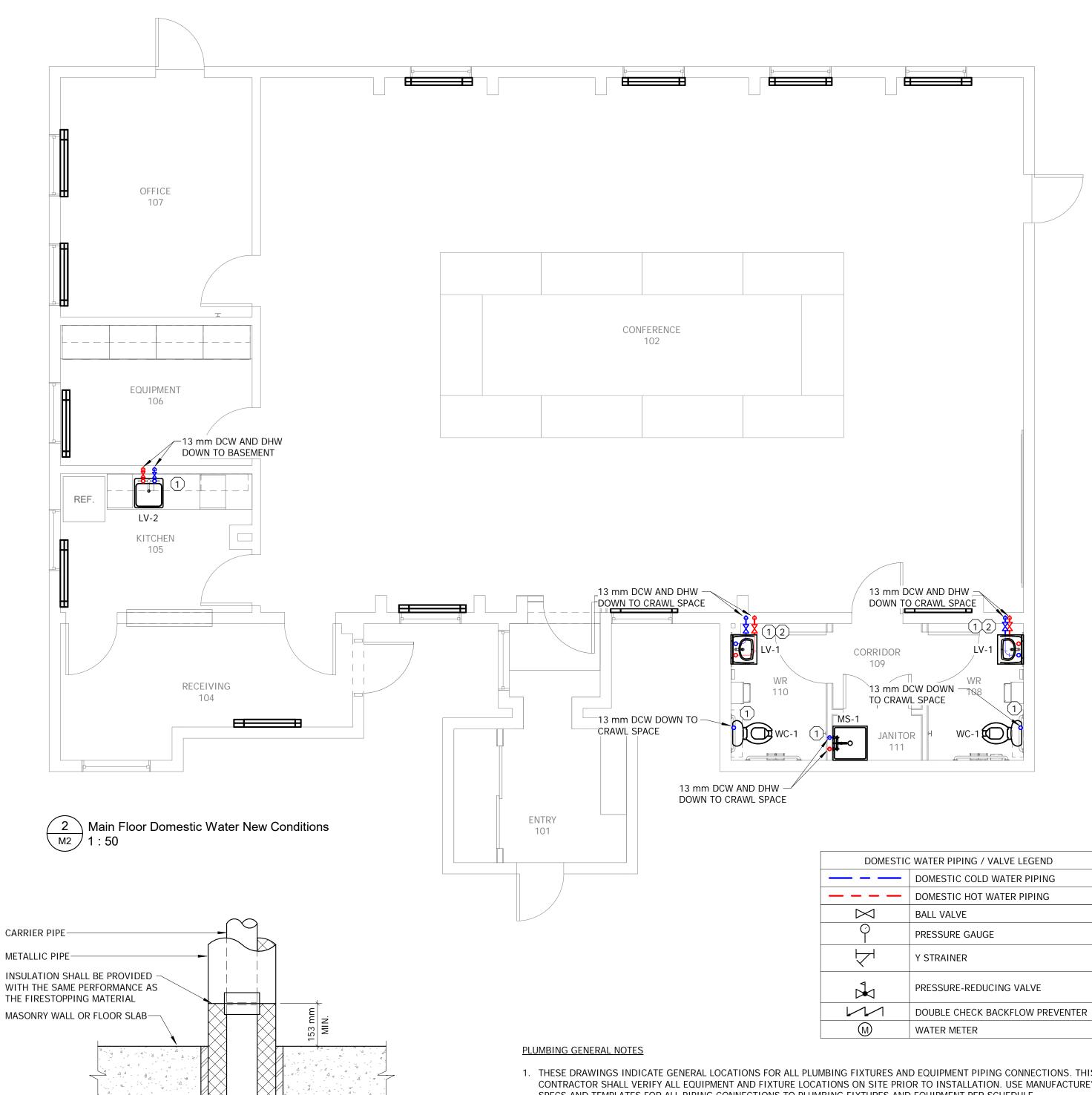
Harry Hachey Conference Center

DRAWING TITLE:
Mechanical
Demolition

DRAWN: FILE NO:
Author 12225

M1





Plumbing Fixture Schedule

13 mm

13 mm

ZN-1444

Z1095-15

MTB2424

STERN WILLIAMS

PRODUCTS

ZURN

PRECISION PLUMBING | PR-500

POT SINK

MS-1 JANITOR SINK

TP-1 TRAP PRIMER

WC-1 WATER CLOSE

Backflow Preventer Schedule

BFP-1 REDUCED PRESSURE BACKFLOW PREVENTER

BFP-2 REDUCED PRESSURE BACKFLOW PREVENTER

Manufacturer

ZURN WILKINS

ZURN WILKINS 975XL2-AG

|ZN-211-BF-P | 13 mm |

SIZE TO MATCH PIPING AT INSTALL LOCATION. SUITABLE

WALL HOOK, T-40 MOP HANGER AND BP SPLASH PANELS.

INSTALL MINIMUM 600 mm ABOVE TRAP BEING SERVED

FOR WOOD FLOOR CONSTRUCTION.

13 mm | 13 mm | 76 mm | C/W MANUFACTURER'S T-10-VB FAUCET, T35 HOSE AND

CONNECTION

ALBS6806P-1 | 13 mm | 13 mm | 38 mm | C/W DELTA 27C2944 FAUCET WITH 102 mm HOODED

BLADE HANDLES

102 mm OVAL FUNNEL FLOOR DRAIN C/W 13 mm TRAP PRIMER

INSTALL BFP-1 ON DHW AND DCW SUPPLY.

76 mm DUAL FLUSH, PRESSURE ASSIST, BARRIER-FREE

1. THESE DRAWINGS INDICATE GENERAL LOCATIONS FOR ALL PLUMBING FIXTURES AND EQUIPMENT PIPING CONNECTIONS. THIS CONTRACTOR SHALL VERIFY ALL EQUIPMENT AND FIXTURE LOCATIONS ON SITE PRIOR TO INSTALLATION. USE MANUFACTURE'S SPECS AND TEMPLATES FOR ALL PIPING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT PER SCHEDULE. 2. THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL

APPLICABLE CODES AND STANDARDS 3. ALL VENT PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE CANADIAN PLUMBING CODE. THIS CONTRACTOR SHALL SUBMIT TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW OF THE PROPOSED VENT PIPING AND STACK RISER ARRANGEMENTS.

THE LOCAL AUTHORITY HAVING JURISDICTION SHALL APPROVE PRIOR TO INSTALLATION. 4. VENT SYSTEM MUST TERMINATE MIN. 12" ABOVE ROOF LEVEL, MINIMUM 10 FEET FROM ANY OPENINGS OR AIR INTAKES. 5. THIS CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS, TOOLS, ETC. REQUIRED FOR THE COMPLETE INSTALLATION OF THE

PLUMBING SYSTEMS AS SHOWN.

6. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED CLEARANCES AS RECOMMENDED BY MANUFACTURER TO ALLOW FOR PROPER OPERATION AND SERVICING OF ALL MECHANICAL EQUIPMENT.

7. THIS CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS FOR CONNECTION OF SANITARY DRAINS AND STORM DRAINS TO SITE SERVICES TO PROVIDE FOR OPERATIONAL PLUMBING SYSTEMS.

8. ALL PENETRATIONS THROUGH FLOOR SLAB SHALL BE SEALED WITH WATERPROOF GROUTING COMPOUND. 9. ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CEILING, BULKHEADS, AND FURRED OUT PIPE CHASES PROVIDE BY OTHERS

UNLESS OTHERWISE INDICATED. 10. ALL PIPING SHALL BE PROPERLY SUPPORTED WITH PROPER PIPE HANGERS SECURELY ATTACHED TO THE BUILDING STRUCTURE.

FURNISH AND INSTALL CODE-COMPLIANT SEISMIC RESTRAINT, WHERE APPLICABLE.

11. VALVES AND UNIONS SHALL BE INSTALLED AS NECESSARY TO ALLOW FOR ISOLATION AND SERVING OF MECHANICAL EQUIPMENT.

PROVIDE ACCESSIBLE ISOLATION VALVES FOR CW AND DHW SUPPLY PIPING TO ALL PLUMBING FIXTURES. 12. THIS CONTRACTOR SHALL CONDUCT A SITE SURVEY TO VERIFY ALL LOCATIONS ON SITE PRIOR TO INSTALLATION AND TO

DETERMINE THE EXTENT OF SYSTEM INSTALLATION. 13. ALL PENETRATIONS THROUGH FIRE RATED SEPARATIONS SHALL BE SEALED WITH AN APPROVED FIRE STOPPING AND INSTALLED IN

ACCORDANCE WITH NFPA.

14. PROVIDE TRAP SEAL PRIMERS TO PRIME ALL TRAPS AND FLOOR DRAINS. 15. TERMINATE 1/2"Ø TRAP SEAL PRIMER LINES AT CENTRAL LOCATIONS FOR CONNECTION TO TRAP SEAL PRIMER MANIFOLD OR DISTRIBUTION UNIT. COIL AND CAP APPROXIMATELY 8'-0" OF PRIMER PIPING ABOVE FINISHED FLOOR. CONNECT PRIMER LINES TO

ALL UNDERSLAB TRAPS. INSURE THAT TRAP PRIMER LINES ARE STUBBED UP ABOVE FLOOR AND NOT INSIDE FUTURE FIRE RATED

16. PLUMBING CONTRACTOR SHALL FIELD COORDINATE EXACT PIPE ROUTING WITH ALL CONSTRUCTION TRADES PRIOR TO INSTALLATION.

17. CONTRACTOR SHALL INSTALL ALL NECESSARY WALL AND/OR FLOOR CLEANOUTS TO BE ACCESSIBLE FOR MAINTENANCE PURPOSES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH LATEST FIXTURE PLANS PRIOR TO STARTING ANY WORK.

18. PLUMBING CONTRACTOR SHALL FLUSH ALL SANITARY LINES AT THE END OF THE PROJECT.

19. ALL TRENCH DRAINS SHALL HAVE THE COVERS INSTALLED WITH NO GAPS AND THE MINIMUM COVER LENGTH IS 12". 20. ALL WATER SUPPLY PIPING BELOW SLAB SHALL BE PEX. NO FITTINGS BELOW SLAB ALLOWED.

21. ALL FIXTURES SHALL HAVE A BALL VALVE SHUTOFF AT THE FIXTURE CONNECTION.

22. UNDERSLAB HORIZONTAL CONNECTIONS OF VENT PIPING TO WASTE SEWER SYSTEM PIPELINE SHALL NOT BE ALLOWED, CONTRACTOR SHALL INSTALL WASTE AND VENT PIPING AS REQUIRED PER APPLICABLE CODES.

23. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF VENTS THROUGH ROOF WITH ALL CONSTRUCTION TRADES PRIOR TO INSTALLATION.

24. MINIMUM SLOPE FOR DRAINAGE PIPING SHALL BE 1:100. 25. ALL DCW AND DHW PIPING SHALL BE THERMALLY INSULATED AND CLAD WITH WHITE PVC JACKETING.

Fx: 902-566-1235 architects@bghj.com

DESIGN CONSULTANT:

ARCHITECT:

UNDY Engineerin

THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS OF THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THE ENGINEER NEITHER EXPRESSLY NOR IMPLICITLY WARRANTS THE ACCURACY OR COMPLETENESS OF SAID DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

6-21-2017

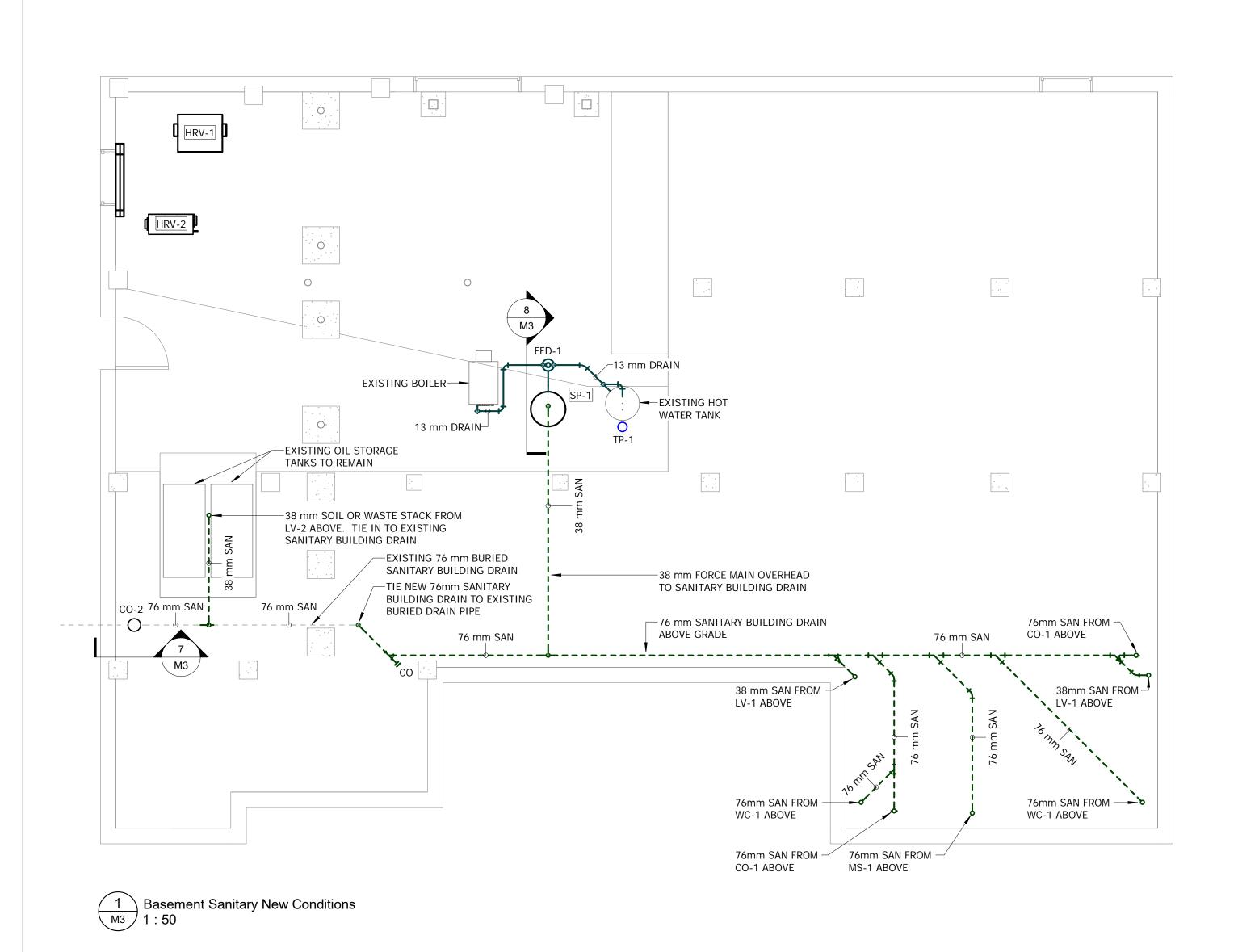
PROJECT:

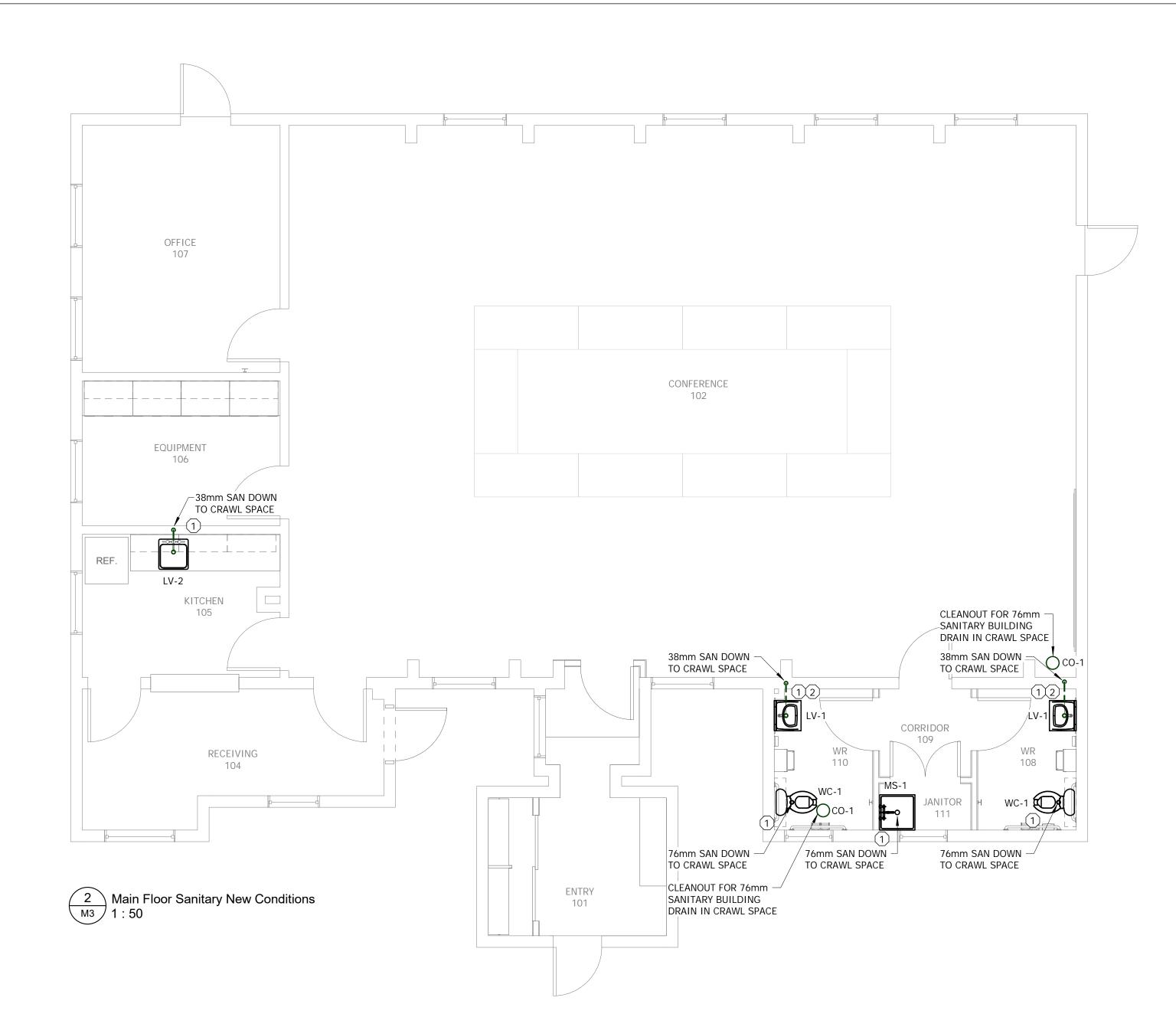
Harry Hachey Conference Center

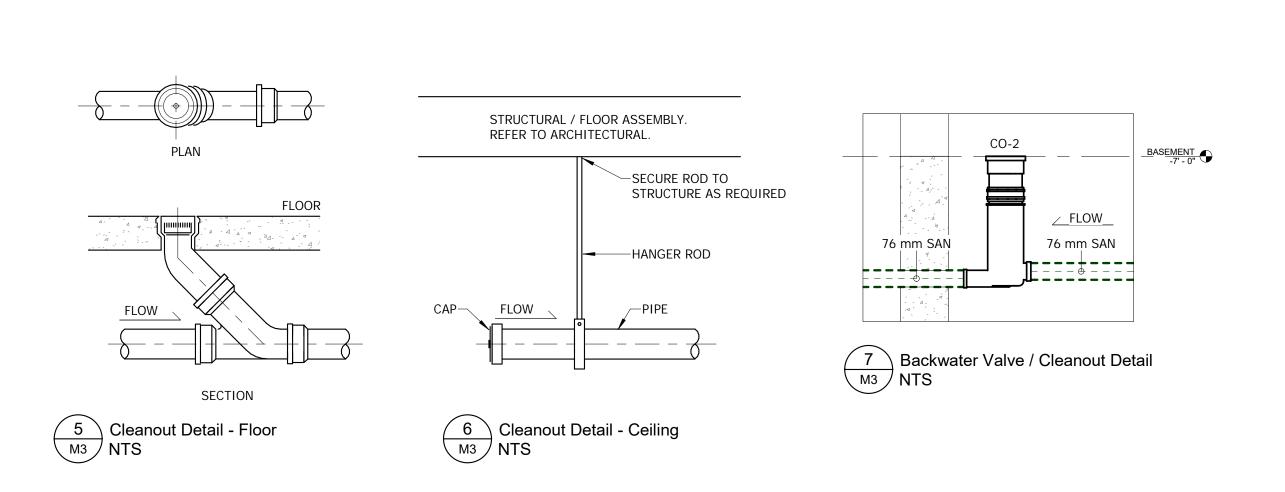
DRAWING TITLE: Domestic Water

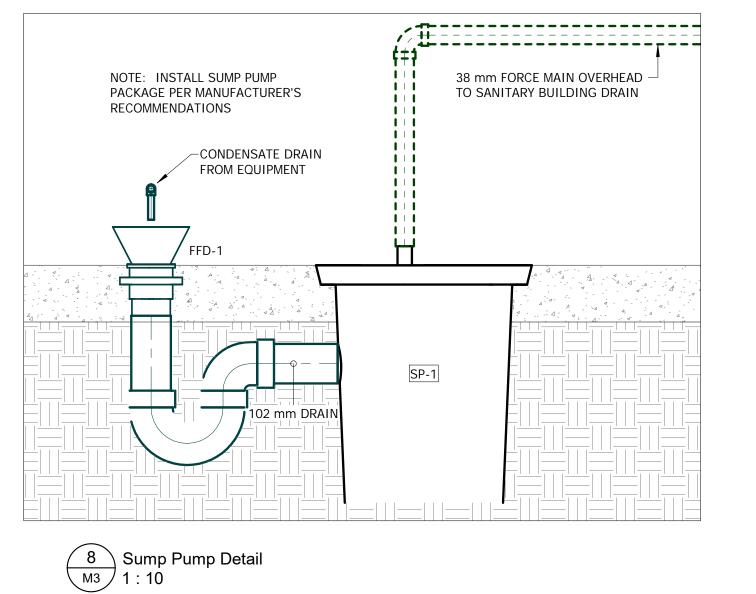
FILE NO: DRAWN:

RAF 12225









SANTI	SANITARY PIPING
	SANTIARY PIPING
	CONDENSATE DRAIN PIPING
○ co	FLOOR-MOUNTED CLEANOUT
 ∦ co	HORIZONTAL END CLEANOUT

Sanitary Keynotes

(1) CONNECT VENT TO EXISTING VENT SYSTEM AS PER THE NATIONAL PLUMBING CODE. 2 PROVIDE STAINLESS STEEL CHASE TO CONCEAL HORIZONTAL DOMESTIC WATER AND DRAINAGE PIPING. REFER TO ARCHITECTURAL FOR DETAILS.

Sump Pump Schedule

ID	Application	Manufacturer	Model	Fluid	Flow	Head	Horsepower	Voltage	Frequency	Phase
SP-1	SUMP PUMP	LIBERTY PUMPS	SPA-237	WATER	10 GPM	15 ft	0.33 hp	115 V	60 Hz	1

DRAWING TITLE: Sanitary

PROJECT:

Harry Hachey

Conference Center

21-6-2017

ARCHITECT:

DESIGN CONSULTANT:

FUNDY Engineering

THIS DRAWING IS PROVIDED TO

REFLECT THE GENERAL EXTENT OF

STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS

THIS DRAWING AND ITS RELATED

SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE

EXECUTION OF THE WORK ON THIS

SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS

ENGINEER. THE ENGINEER ACCEPTS

NO RESPONSIBILITY FOR LOSSES,

DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS

AUTHORIZED BY THE ENGINEER IN

"RECORD" OR "AS-BUILT" VERSIONS

INFORMATION PROVIDED BY OTHERS

OF THIS DRAWING ARE BASED ON

AND THE ENGINEER NEITHER

WARRANTS THE ACCURACY OR

EXCEPT AS MAY BE CERTIFIED

HARD COPY BEARING THE

OTHERWISE IN WRITING BY THE

ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE

ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE

DIMENSIONS FROM ARCHITECTURAL

DRAWINGS OR SITE MEASUREMENTS.

ENGINEER, ONLY THE REPRODUCIBLE

EXPRESSLY NOR IMPLICITLY

COMPLETENESS OF SAID

DOCUMENTS.

DRAWING NOT SPECIFICALLY

PROJECT ONLY. THIS DRAWING

WRITTEN CONSENT OF THE

DESIGNS, CALCULATIONS AND

WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH

RELATED ARCHITECTURAL,

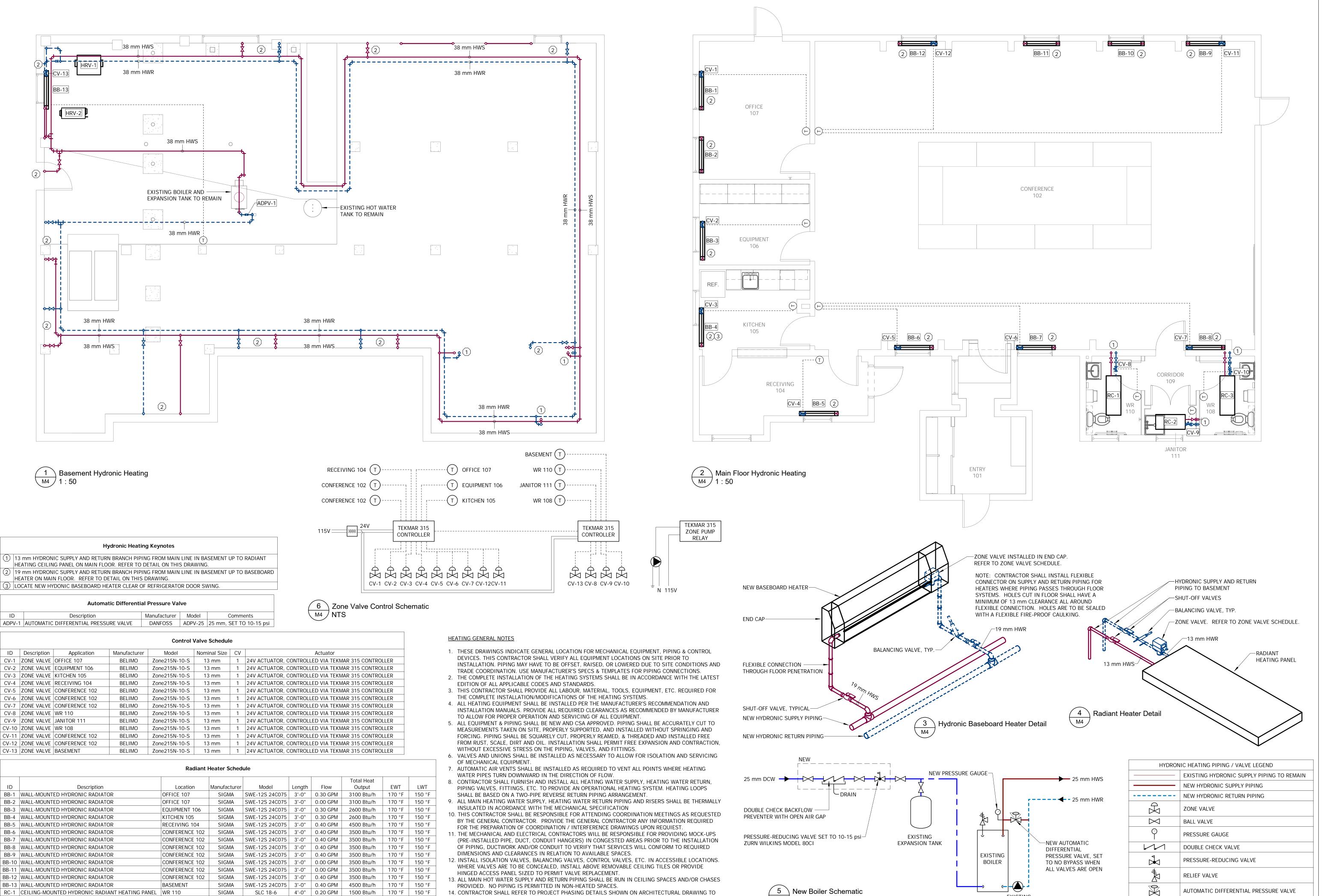
APPLICABLE.

WRITING.

Fx: 902-566-1235

FILE NO: DRAWN: RAF 12225

M3



GAIN A COMPLETE UNDERSTANDING OF THE SEQUENCE OF CONSTRUCTION.

15. HEATING SYSTEMS SHALL BE RE-BALANCED UPON COMPLETION OF EACH PHASE OF CONSTRUCTION.

RC-1 | CEILING-MOUNTED HYDRONIC RADIANT HEATING PANEL | WR 110

RC-3 | CEILING-MOUNTED HYDRONIC RADIANT HEATING PANEL | WR 108

RC-2 CEILING-MOUNTED HYDRONIC RADIANT HEATING PANEL JANITOR 111

SLC 18-6 4'-0" 0.20 GPM 1500 Btu/h 170 °F 150 °F

SLC 18-6 3'-0" 0.10 GPM 1500 Btu/h 170 °F 150 °F

SIGMA SLC 18-6 4'-0" 0.20 GPM 1500 Btu/h 170 °F 150 °F

ARCHITECT:

Ex: 902-566-1235

DESIGN CONSULTANT:



THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS OF THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THE ENGINEER NEITHER EXPRESSLY NOR IMPLICITLY WARRANTS THE ACCURACY OR COMPLETENESS OF SAID DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

21-6-2017

PROJECT: Harry Hachey Conference Center

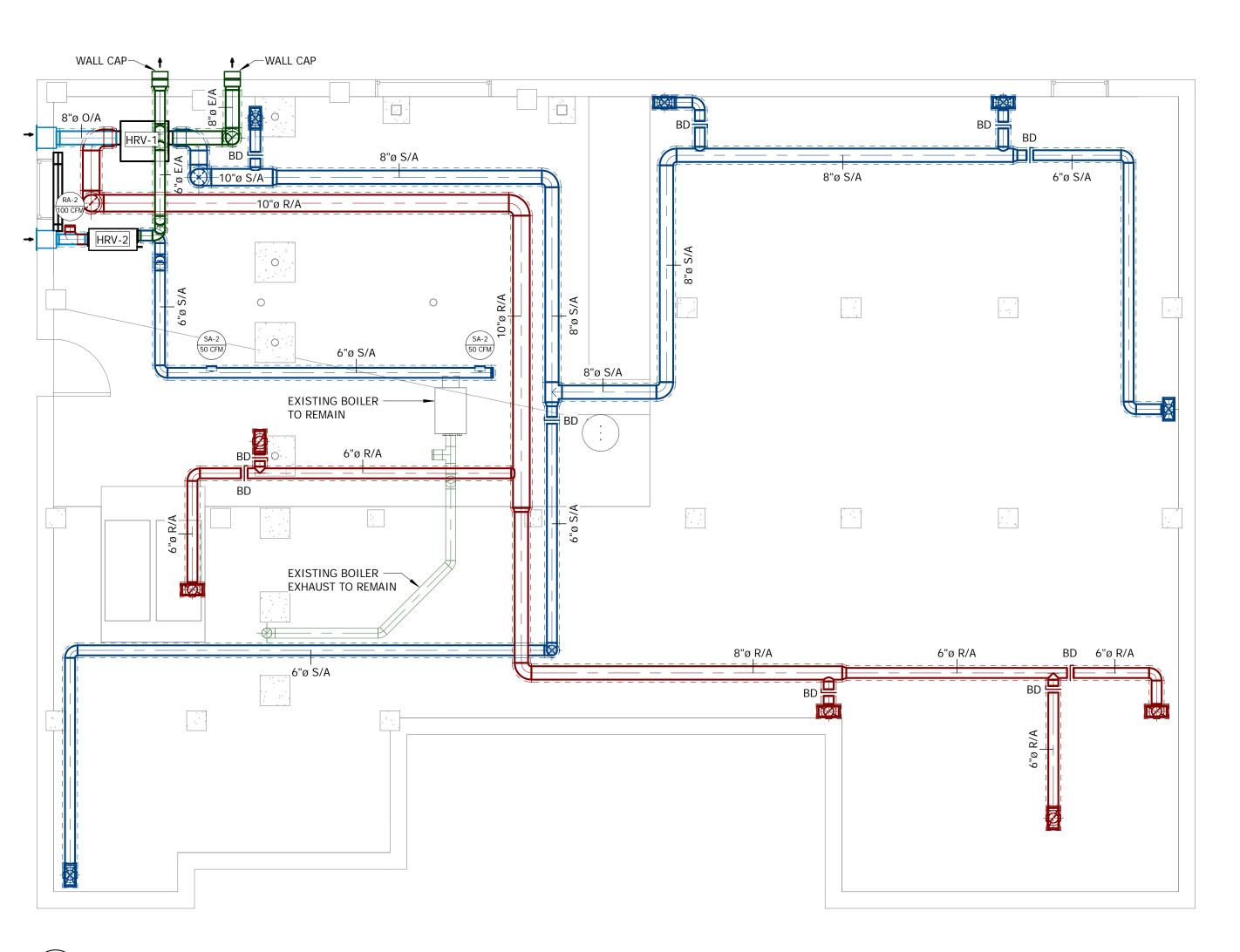
DRAWING TITLE: Hydronic Heating

FILE NO: DRAWN:

NEW THERMOSTAT: TEKMAR NET4

EXISTING

CIRCULATOR PUMP



Basement HVAC 1:50

HVAC GENERAL NOTES

- 1. THESE DRAWINGS INDICATE THE GENERAL LOCATIONS OF EQUIPMENT, DUCTWORK AND CONTROL DEVICES. THIS CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS ON SITE PRIOR TO INSTALLATION AND SHALL COORDINATE THE LOCATIONS SO AS NOT TO CAUSE INTERFERENCE WITH
- THE WORK OF OTHER TRADES.

 2. THIS CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIAL, TOOLS, EQUIPMENT, ETC. REQUIRED FOR THE INSTALLATION OF THE HVAC SYSTEMS AS SHOWN TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
- 3. VISIT THE JOB SITE AND EXAMINE ALL DRAWINGS AND CONDITIONS WHICH COULD AFFECT THE WORK. NO EXTRA COST WILL BE ALLOWED DUE TO FAILURE TO TAKE SITE CONDITIONS INTO CONSIDERATION. BE FAMILIAR WITH ALL RELATED WORK TO AVOID CONFLICTS WITH OTHER TRADES.
- 4. THE COMPLETE INSTALLATION OF THE HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND STANDARDS.5. OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND ALL REQUIRED INSPECTIONS.

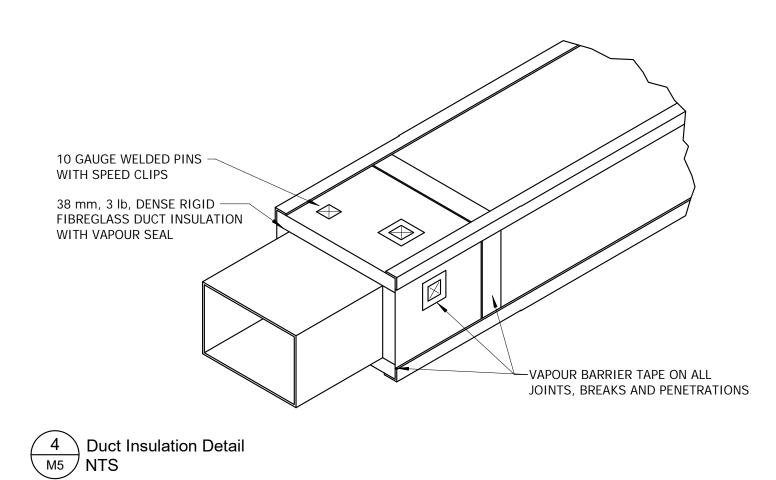
6. ALL DUCTWORK FOR SUPPLY AND RETURN DUCT COLLARS SHALL BE CONSTRUCTED IN ACCORDANCE

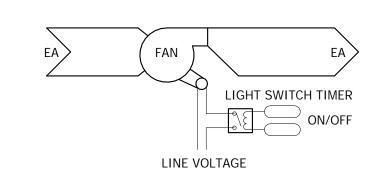
- WITH ASHRAE AND SMACNA RECOMMENDATIONS AND SHALL BE GALVANIZED STEEL C/W DAMPERS AND LOCKING QUADRANT.
- 7. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. WHERE INTERNAL INSULATION IS REQUIRED, INCREASE DUCT SIZE TO SUIT. ALL MAIN SUPPLY AIR DUCTWORK SHALL BE THERMALLY INSULATED.
- 8. SUPPLY AND LOCATE ALL SUPPORTS, SLEEVES, ROOF CURBS ETC., REQUIRED FOR THIS WORK.

 9. ALL DUCTWORK SHALL BE PROPERLY SUPPORTED WITH SPECIFIED DUCT HANGERS SECURELY
- ATTACHED TO THE BUILDING STRUCTURE. FURNISH AND INSTALL CODE-COMPLIANT SEISMIC RESTRAINT WHERE REQUIRED BY CODE.

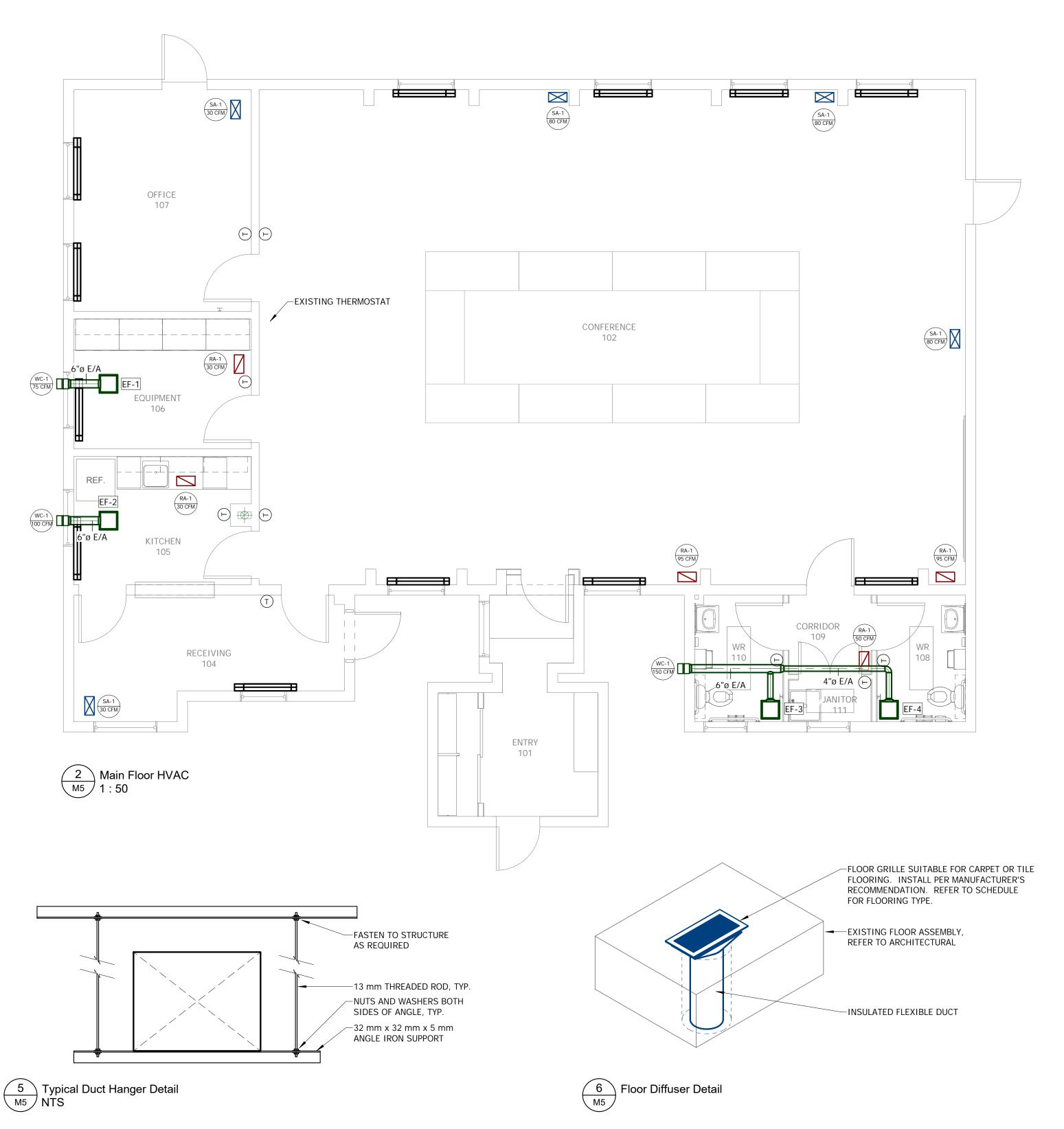
 10. THIS CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS & TOOLS REQUIRED FOR
- COMMISSIONING, CALIBRATION, ADJUSTMENT, AND SETTING OF ALL CONTROL DEVICES FOR PROPER OPERATION OF SYSTEMS. PROVE ALL MODES OF OPERATION PRIOR TO FINAL INSPECTION TO THE SATISFACTION OF THE ENGINEER.
- 11. THIS CONTRACTOR SHALL ENSURE THAT ALL REQUIRED CLEARANCES AS RECOMMENDED BY THE MANUFACTURER ARE PROVIDED TO ALLOW FOR PROPER OPERATION AND SERVICING OF MECHANICAL EQUIPMENT.
- 12. THIS CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR (GC) WHEN THE ROOF OR WALL OPENING LOCATIONS HAVE BEEN DETERMINED AND PRIOR TO CUTTING. THE GC OR HIS
- REPRESENTATIVE SHALL SUPERVISE CUTTING OF ALL OPENINGS.

 13. FURNISH AND INSTALL FIRE DAMPERS WHERE SHOWN ON DRAWING AND WHERE REQUIRED BY THE LOCAL FIRE DEPARTMENT. FIRE DAMPER RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA/CUA 90A SPECIFICATIONS. ONLY USE ULC APPROVED EQUIPMENT.
- 14. WHERE APPLICABLE, ALL MATERIALS SHALL CONFORM TO CSA, NFPA AND CEC REQUIREMENTS AND
- 15. BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND BE RESPONSIBLE WHEN CALLED UPON TO MAKE GOOD WITHOUT FURTHER COST TO THE OWNER, SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.
- 16. KEEP ACCURATE RECORD "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION.17. BE RESPONSIBLE FOR CARE OF THE BUILDING, COORDINATE ALL CORE DRILLING WITH OWNER'S SITE
- 17. BE RESPONSIBLE FOR CARE OF THE BUILDING, COORDINATE ALL CORE DRILLING WITH OWNER'S SITE REPRESENTATIVE AND EFFECTIVE TENANTS. DO ALL CUTTING, PATCHING AND PAINTING REQUIRED FOR THE WORK OF THIS TRADE. CLEAN UP ALL DEBRIS DAILY AND REMOVE FROM THE SITE ON OR BEFORE COMPLETION OF THE CONTRACT. COORDINATE WITH ALL OTHER TRADES.
- 18. ON COMPLETION OF PROJECT, SUBMIT TWO (2) HARD COVER "OPERATING AND MAINTENANCE MANUALS" FOR APPROVAL. THE MANUALS SHALL CONTAIN AN INDEX PAGE AND TABBED DIVIDER PAGES, A LIST OF THE SUPPLIER'S NAMES, ADDRESSES AND TELEPHONE NUMBERS, OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT, COPIES OF TEST CERTIFICATES, ETC. AND INCLUDING A COMPLETE SET OF "APPROVED SHOP DRAWINGS".
- 19. THESE DRAWINGS ARE PARTIALLY SCHEMATIC IN CHARACTER AND MUST NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE WHERE NEW EQUIPMENT AND FIXTURES ARE TO BE LOCATED. THE CONTRACTOR SHALL FIT THE WORK TO THE JOB CAREFULLY INVESTIGATING THE STRUCTURAL, ELECTRICAL, ARCHITECTURAL SPACES AND FINISH CONDITIONS AFFECTING THE WORK ACCORDINGLY AND FURNISHING NECESSARY BENDS, OFFSETS, FITTINGS, JUNCTIONS, ETC. WHETHER SPECIFICALLY SHOWN OR CALLED FOR OR NOT, AND SEEING THAT THERE IS NO INTERFERENCE BETWEEN THIS WORK AND THE WORK OF ANY OTHER TRADE.









	Heat Recovery Ventilator Schedule												
						Static	Motor			Full Load			
ID	Description	Area Served	Manufacturer	Model	Air Flow	Pressure	Horsepower	Voltage	Phase	Ampacity	Accessories and Comments		
HRV-1	HEAT RECOVERY VENTILATOR	MAIN FLOOR	RENEWAIRE	EV 300	300 CFM	0.40 in-wg	0.2 hp	120 V	1		C/W 8" BACKDRAFT DAMPER, 8" WALL CAP, 12"x8" LOUVEI INTERLOCK WITH HP-1 (CONTINUOUS OPERATION)		
HRV-2	HEAT RECOVERY VENTILATOR	BASEMENT	RENEWAIRE	EV 130	165 CFM	0.10 in-wg	0.1 hp	120 V	1		C/W 8" BACKDRAFT DAMPER, 8" WALL CAP, 12"x8" LOUVE INTERLOCK WITH HP-1 (CONTINUOUS OPERATION)		

	Exhaust Fan Schedule										
ID	Description	Manufacturer	Model	Air Flow	Static Pressure	Power	Voltage	Phase	Frequency	Amperage	Control Method
EF-1	CEILING EXHAUST FAN	PANASONIC	FV-05-11VK1	75 CFM	0.25 in-wg	16.1 W	120 V	1	60 Hz	0.16 A	WALL SWITCH
EF-2	CEILING EXHAUST FAN	PANASONIC	FV-05-11VK1	100 CFM	0.25 in-wg	16.1 W	120 V	1	60 Hz	0.16 A	WALL SWITCH
EF-3	CEILING EXHAUST FAN	PANASONIC	FV-05-11VK1	75 CFM	0.25 in-wg	16.1 W	120 V	1	60 Hz	0.16 A	INTERLOCKED WITH LIGHT SWITCH, C/W 15 MIN DELAY TIM
EF-4	CEILING EXHAUST FAN	PANASONIC	FV-05-11VK1	75 CFM	0.25 in-wg	16.1 W	120 V	1	60 Hz	0.16 A	INTERLOCKED WITH LIGHT SWITCH, C/W 15 MIN DELAY TIM

	Grille and Diffuser Schedule											
ID	System	Description	Manufacturer	Model	Width	Height	Neck Size	Max Flow	Finish	Accessories		
RA-1	RETURN AIR	LINEAR FIXED BAR DIFFUSER	TITUS	CT-581-26	152 mm	305 mm		200 CFM	BLACK	MOUNTING HARDWARE SUITABLE FOR FLOOR FINISH. REFER TO ARCHITECTURAL.		
RA-2	RETURN AIR	DUCT-MOUNTED RETURN GRILLE	TITUS	TMRA	152 mm			100 CFM	WHITE			
SA-1	SUPPLY AIR	LINEAR FIXED BAR DIFFUSER	TITUS	CT-581-26	152 mm	305 mm		150 CFM	BLACK	MOUNTING HARDWARE SUITABLE FOR FLOOR FINISH. REFER TO ARCHITECTURAL.		
SA-2	SUPPLY AIR	DUCT-MOUNTED SUPPLY DIFFUSER	TITUS	TMRA	152 mm			100 CFM	WHITE			

ARCHITECT:

63 Fitzroy Street Charlottetown, PE Canada C1A 1R4 Ph: 902-566-4449 Fx: 902-566-1235 architects@bghj.co Web: www.bghj.cor

DESIGN CONSULTANT:



THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS
OF THIS DRAWING ARE BASED ON
INFORMATION PROVIDED BY OTHERS
AND THE ENGINEER NEITHER
EXPRESSLY NOR IMPLICITLY
WARRANTS THE ACCURACY OR
COMPLETENESS OF SAID
DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED
OTHERWISE IN WRITING BY THE
ENGINEER, ONLY THE REPRODUCIBLE
HARD COPY BEARING THE
ENGINEER'S SEAL AND ORIGINAL
SIGNATURE SHALL CONSTITUTE THE
ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

 2
 Issued for Tender
 June 2, 2017

 1
 Issued for 99% Review
 May 25, 2017

 0
 Issued for Permit and Pricing
 Jan. 27, 2017

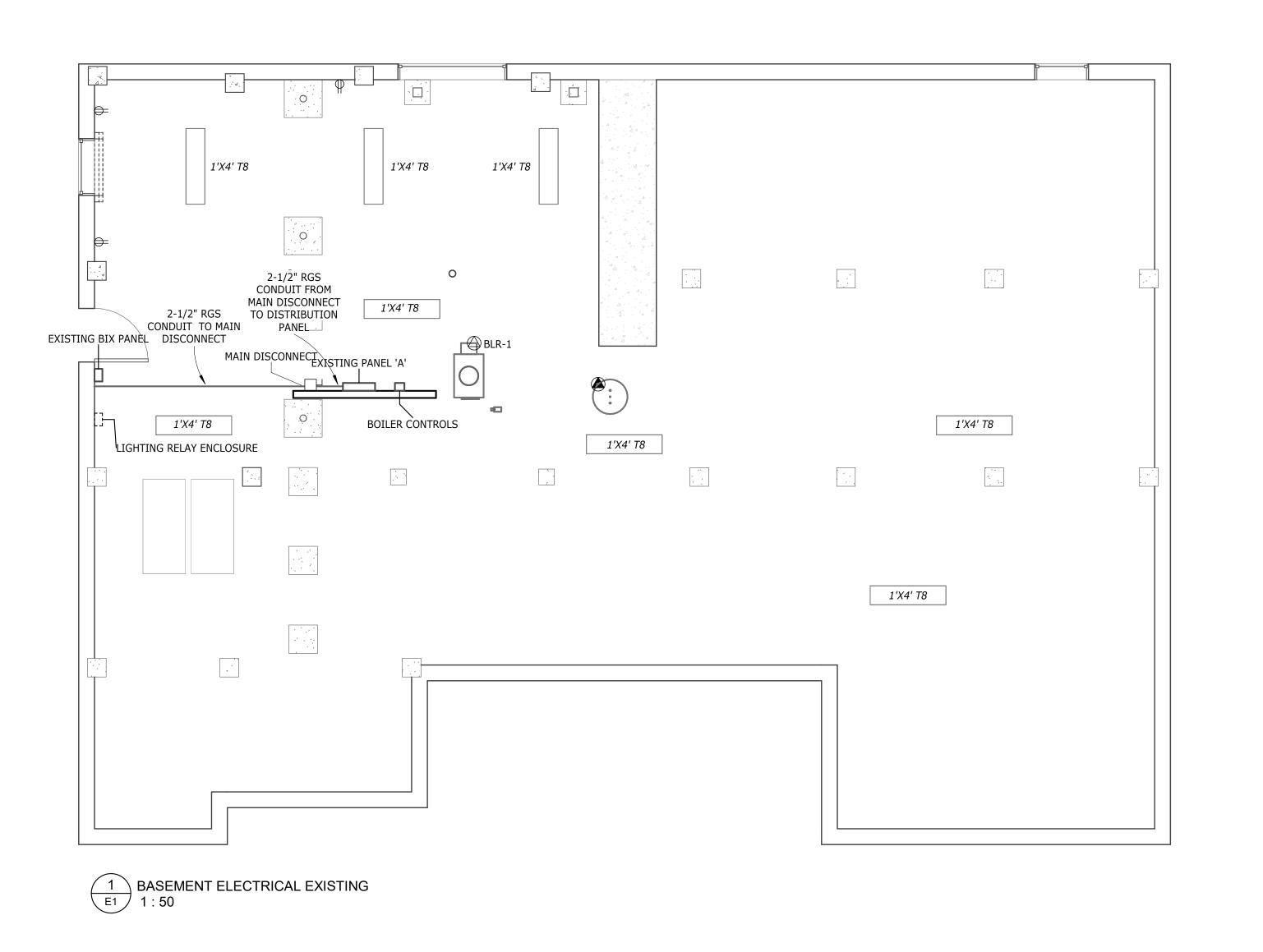
 Rev
 Description
 Date

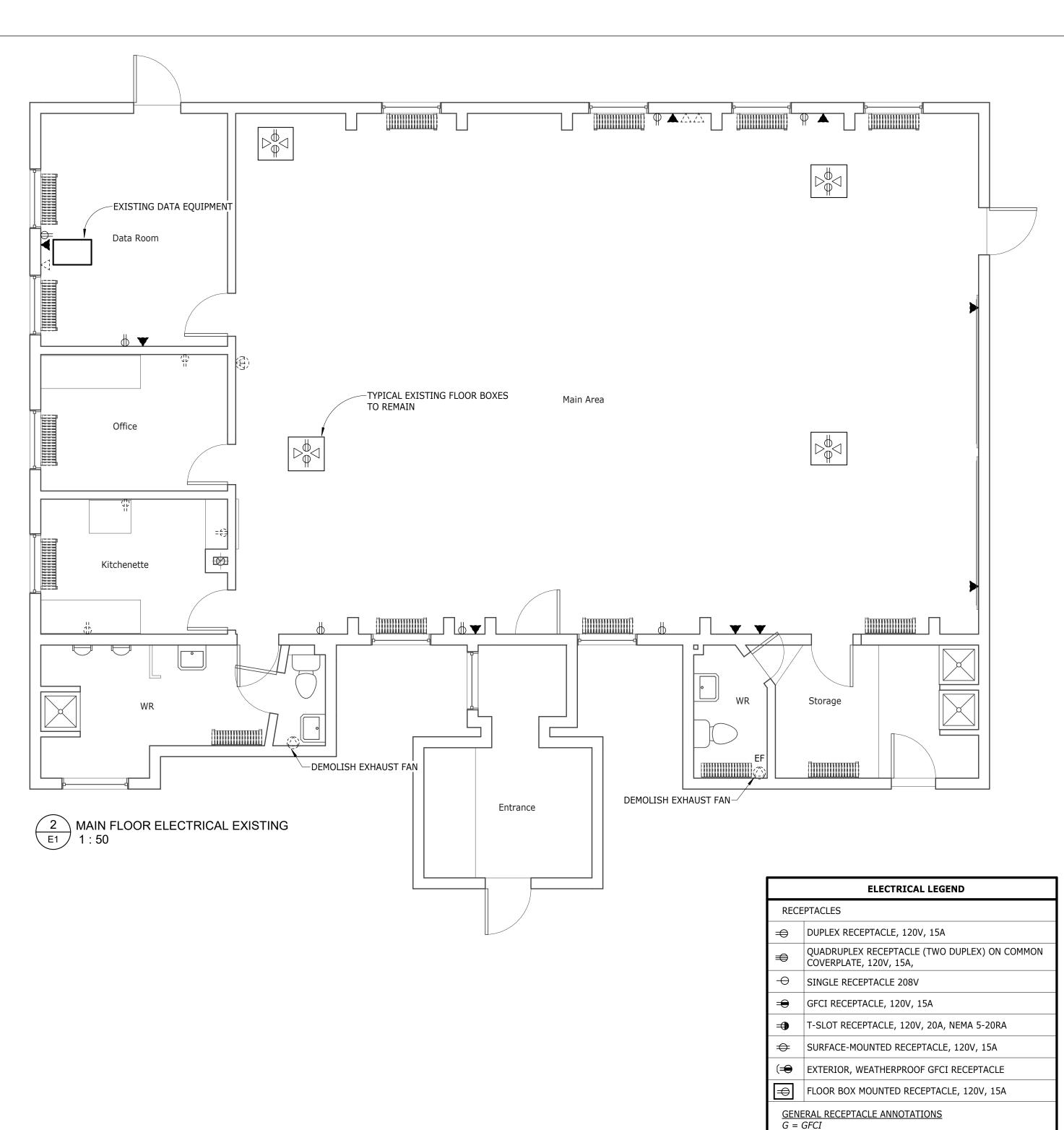
Harry Hachey
Conference Center

DRAWING TITLE:

DRAWN: FILE NO:
RAF 12225

DWG:





A = ABOVE COUNTER

DIRECT CONNECTION, 120V DIRECT CONNECTION, 120V IN WALL BOX DIRECT CONNECTION, 240V, 2 POLE DISCONNECT: AMPERAGE, VOLTAGE AND NUMBER OF DISCONNECT: AMPERAGE, VOLTAGE AND POLES TO MATCH LOAD CONNECTED (JB) | JUNCTION BOX C/W 120V CIRCUITS (T) IN-LINE RESISTANCE HEATER THERMOSTAT CEILING-MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL SYSTEM DATA/COMMUNICATIONS 120V, 15A RECEPTACLE | ▶ | 1 DATA, 1 TELEPHONE IN-FLOOR BOX ELECTRICAL PANEL OR ELECTRICAL EQUIPMENT AS DESIGNATED DATA/TELEPHONE OUTLET H FORCE FLOW HEATER □ 1-CAT6 DATA TO EQUIPMENT ROOM DATA EQUIPMENT 1-CAT6 TELEPHONE TO BASEMENT TELEPHONE PANEL EQUIPMENT DESIGNATIONS EF - EXHAUST FAN FF - FORCE-FLOW ELECTRIC HEATER RESIDENT DATA OUTLET AC - AIR CONDITIONER 1-CAT6 DATA TO EQUIPMENT ROOM DATA EQUIPMENT TX - TRANSFORMER TELEPHONE OUTLET 1-CAT6 TELEPHONE TO BASEMENT TELEPHONE PANEL LINE-WORK LEGEND: EXISTING TO REMAIN: Wi WiFi ROUTER DEMOLISH ELECTRICAL: -----DATA ANNOTATION

T = TAMPERPROOF

TVSS = SURGE PROTECTION 208V = 208V RECEPTACLE F = FRIDGE RECEPTACLE

ELECTRICAL CONNECTIONS

NEW ELECTRICAL: —

ARCHITECT:

Fx: 902-566-1235 Web: www.bghj.com

DESIGN CONSULTANT:

FUNDY Engineering

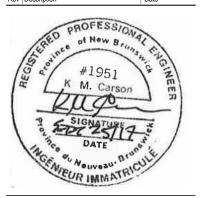
THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS OF THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THE ENGINEER NEITHER EXPRESSLY NOR IMPLICITLY WARRANTS THE ACCURACY OR COMPLETENESS OF SAID DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

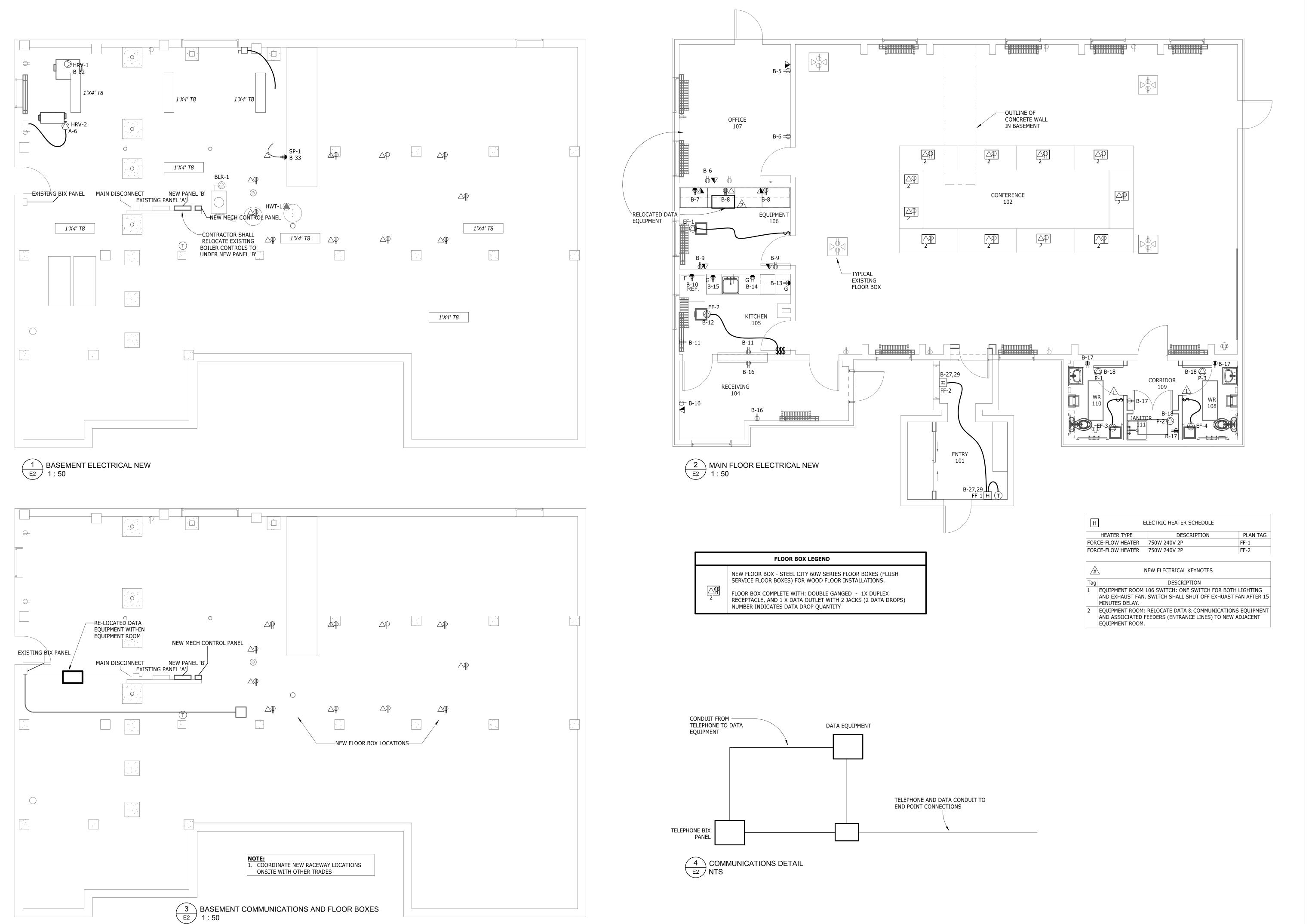


PROJECT: HARRY HACHEY CONFERENCE CENTER

ST. ANDREWS, NB

DRAWING TITLE: **EXISTING ELECTRICAL** CONDITIONS

FILE NO: DRAWN: JDB 12225



63 Fitzroy Street Charlottetown, PE Canada C1A 1R4 Ph: 902-566-4449 Fx: 902-566-1235 architects@bghj.com Web: www.bghj.com

DESIGN CONSULTANT:

FUNDY Engineering

27 Wellington Row
P.O. Box 6626
Saint John, NB

Tel. (506) 635-1566
Fax. (506) 635-0206
fundy@fundyeng.com

THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS
OF THIS DRAWING ARE BASED ON
INFORMATION PROVIDED BY OTHERS
AND THE ENGINEER NEITHER
EXPRESSLY NOR IMPLICITLY
WARRANTS THE ACCURACY OR
COMPLETENESS OF SAID
DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

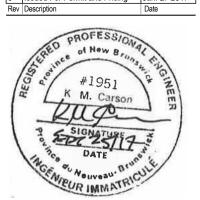
THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.

 2
 Re-Issued For Tender
 Sept. 25 201

 1
 Issued For 99% Review
 May 25 2017

 0
 Issued For Permit and Pricing
 Jan. 27 2017

 Rev
 Description
 Date



PROJECT:
HARRY HACHEY
CONFERENCE
CENTER

ST. ANDREWS, NB

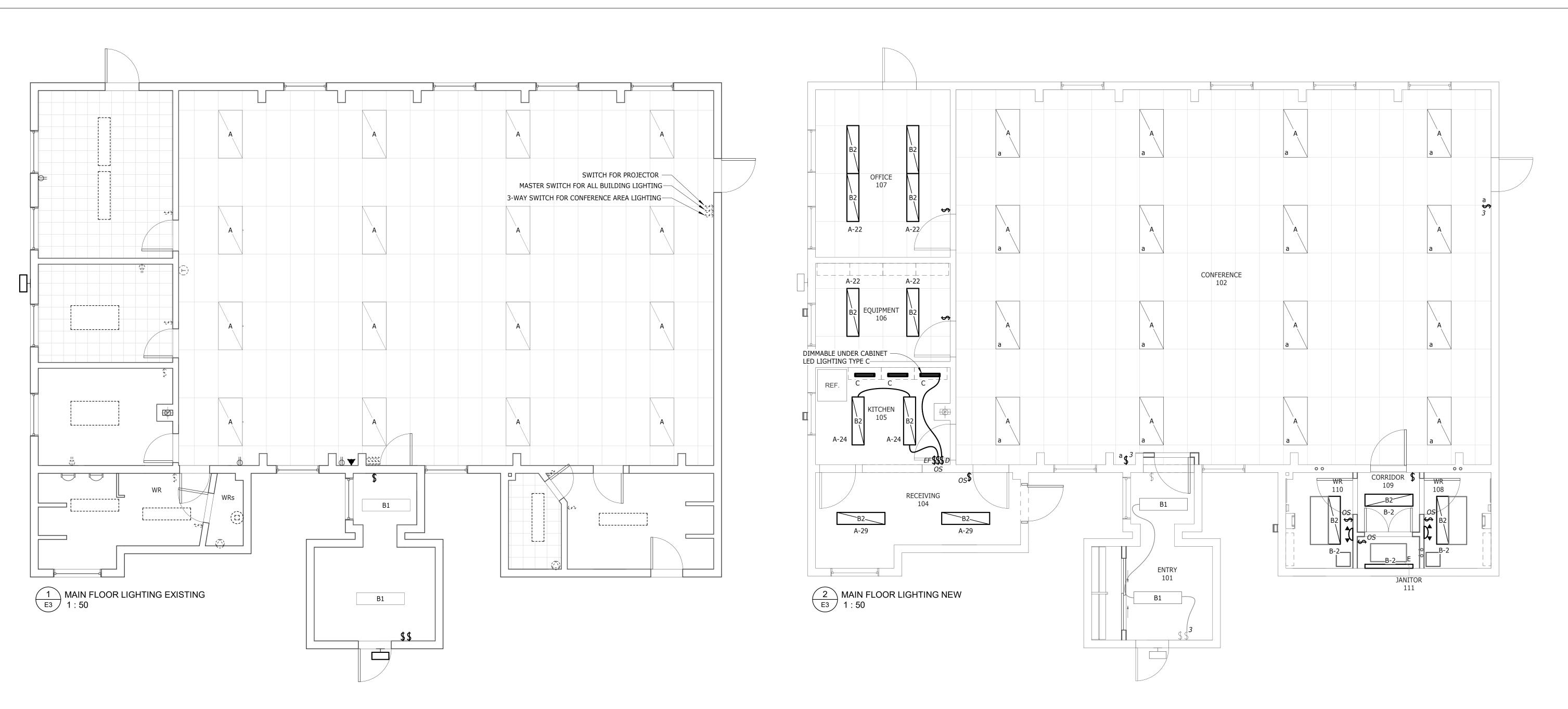
DRAWING TITLE:
NEW ELECTRICAL

DRAWN: FILE NO:

JDB 12225

DWG:

DWG:



	LIGHT FIXTURE LEGEND		
SYMBOL	DESCRIPTION	MANUFACTURER	LAMP
A	T8 FLOURESCENT RECESSED PRISMATIC LIGHT FIXTURE	EXISTING FIXTURE TYPE	T8 32W
B1	T8 FLOURESCENT SURFACE PRISMATIC LIGHT FIXTURE	EXISTING FIXTURE TYPE	T8 32W
B2	LED RECESSED 300mm X 1200mm FIXTURE	PHILIPS DAY-BRITE 1AVEG38L840-4-ACR-UNV-DIM	3800 LUMEN LED, 4000K 40W
C	LED UNDERCABINET LIGHT FIXTURE	PHILIPS eW PROFILE POWERCORE	480 LUMEN LED, 4000K 10W
E	LED STRIP LIGHT WALL MOUNTED	PHILIPS SF4C38A5OUUS C/W MOTION SENSOR	4000 LUMEN LED, 4000K 40W
	EXIT SIGN AND EMERGENCY LIGHT COMBO UNIT	AIMLITE CARPW1250-2-M-2MD	2-4LR
\Box	EMERGENCY LIGHT BATTERY UNIT 12VDC/120AC, 44W	AIMLITE EBST-12050-2MD-4WLR	2-4WLR
1	EMERGENCY LIGHT REMOTE HEAD COMPATIBLE WITH BATTERY UNIT	AIMLITE EBST-REMOTE HEAD	2-4WLR
\$	SWITCH LETTER DESIGNATIONS: a - LOWERCASE LETTER INDICATES SWITCH ID AND ASSOICATED LIGHT FIXTURES EF - INDICATES SWITCH USED FOR EXHAUST FAN IN ASSOCIATED SPACE OS - INDICATES SWITCH IMPLEMENTS OCCUPANCY SENSOR D - INDICATES DIMMER SWITCH		

Ph: 902-566-4449 Fx: 902-566-1235 architects@bghj.com architects@bgnj.com Web: www.bghj.com

DESIGN CONSULTANT:



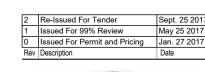
THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

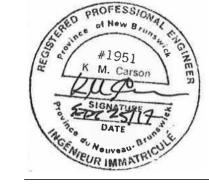
THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS OF THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THE ENGINEER NEITHER EXPRESSLY NOR IMPLICITLY WARRANTS THE ACCURACY OR COMPLETENESS OF SAID DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.



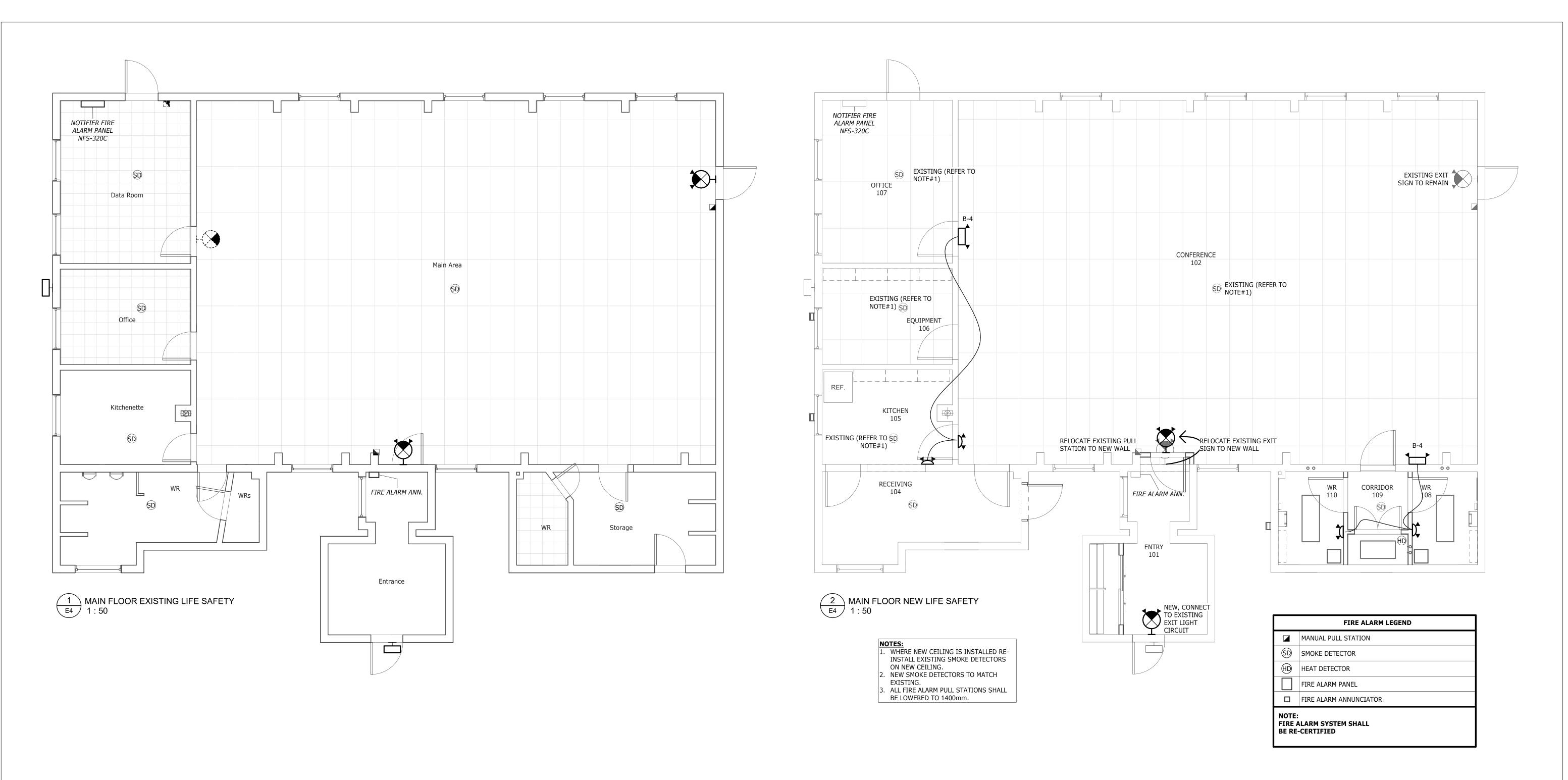


HARRY HACHEY CONFERENCE CENTER

ST. ANDREWS, NB

DRAWING TITLE:
LIGHTING PLAN

DRAWN: JDB





DESIGN CONSULTANT:



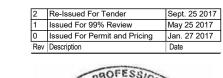
THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

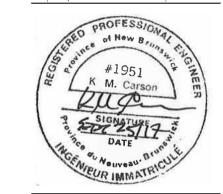
THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS
OF THIS DRAWING ARE BASED ON
INFORMATION PROVIDED BY OTHERS
AND THE ENGINEER NEITHER
EXPRESSLY NOR IMPLICITLY
WARRANTS THE ACCURACY OR
COMPLETENESS OF SAID
DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.





PROJECT:
HARRY HACHEY
CONFERENCE
CENTER

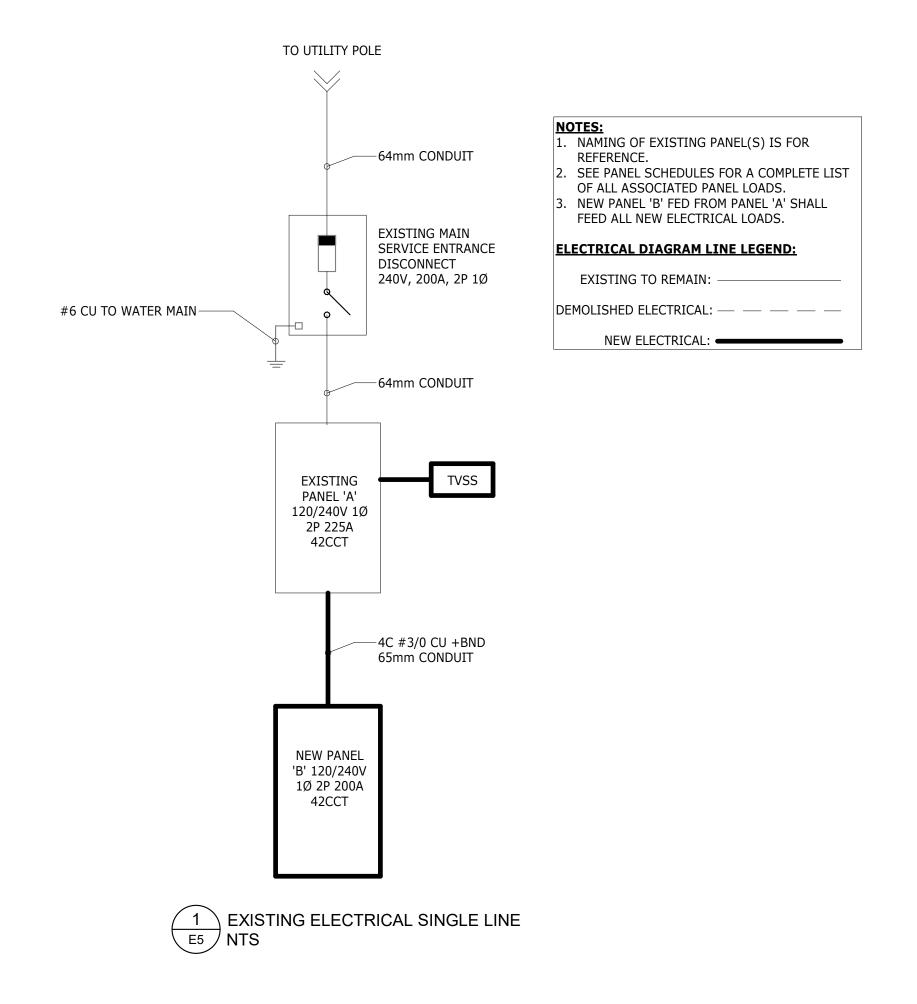
ST. ANDREWS, NB

DRAWING TITLE:
LIFE SAFETY &
FIRE ALARM

DRAWN: FILE NO:

JDB 12225

	Panel ID: EXISTING PANEL 'A'					Panel Totals									
	Location: BASEMENT	Sup	ply From	: MAIN DI	SC.			Total Pha	ase A: 10	0103 W					
	Mounting: Surface	-	 Enclosure					Total Pha	ase B: 78	340 W					
	Volts: 120/240 Single	A.I.	.C. Rating	j:	Total Phase C: 0 W										
	Phases: 1	s: 3													
	Mains Rating: 200 A Main Type: MLO	Γo be C/W	<i>I</i> : Label ID	and Direct	ory (Typed)		Amps: 7	5 A						
ССТ	Circuit Description	Trip	Poles	A	\	E	3	Poles	Trip	Circuit Description	ССТ				
A-1	LIGHTING ENTRANCE	15 A	1	128 W	540 W			1	15 A	RECEPTACLES BASEMENT	A-2				
A-3							540 W	1	15 A	EXISTING CORRIDOR RECEPTACLES	A-4				
A-5					350 W			1	15 A	HRV-2 BASEMENT	A-6				
A-7											A-8				
A-9											A-10				
\-11											A-12				
-13	PANEL 'B'	200 A	2	5495 W							A-14				
-15						4360 W					A-16				
-17											A-18				
-19											A-20				
-21					450 W			1	15 A	LIGHTING OFFICE 107	A-22				
-23	BLR-1	20 A	1			600 W	90 W	1	15 A	LIGHTING KITCHEN 105	A-24				
-25	LIGHTING BASE BUILDING	15 A	1	600 W							A-26				
-27											A-28				
-29	LIGHTING QUIET ROOM 104	15 A	1	90 W							A-30				
-31											A-32				
-33											A-34				
-35											A-36				
-37					200 W			1	15 A	FIRE ALARM PANEL	A-38				
-39	TVSS	20 A	2			0 W	2250 W	2	30 A	HOT WATER TANK (HWT-1)	A-40				
-41				0 W	2250 W						A-42				
		Tot	tal Load:	1010	3 W	784	O W			-	1				
otes:						1									
-															



	Panel ID: NEW PANEL 'B'					Panel '	Totals				
	Location: BASEMENT	Su	pply From	: EXISTIN	IG PANEL	'A'		Total Pha	ase A: 5	495 W	
	Mounting: Surface		Enclosure			Total Phase B: 4360 W					
	Volts: 120/240 Single	A.I	.C. Rating) :		Total Phase C: 0 W					
	Phases: 1		Wires	: 3		Total Conn. Load: 9855 W					
	Mains Rating: 200 A Main Type: MLO	Panel [*]	To be C/W	: Label ID	and Direct	ory (Typed)	,	Amps: 4	1 A	
ССТ	Circuit Description	Trip	Poles		A	E	3	Poles	Trip	Circuit Description	ССТ
B-1					525 W			1	15 A	LIGHTING WASHROOMS	B-2
B-3							300 W	1	15 A	NEW EMERGENCY LIGHTING	B-4
B-5	RECEPTACLES OFFICE 107	15 A	1	180 W	360 W			1	15 A	RECEPTACLES OFFICE 107	B-6
B-7	EQUIPMENT 106 PRINTER	20 A	1			400 W	800 W	1	15 A	RECEPTACLES EQUIPMENT 106	B-8
B-9	RECEPTACLES EQUIPMENT 106	15 A	1	360 W	500 W			1	20 A	FRIDGE KITCHEN 105	B-10
3-11	RECEPTACLES KITCHEN 105	15 A	1			360 W	180 W	1	15 A	EXHAUST FAN KITCHEN 105	B-12
B-13	RECEPTACLES COUNTER KITCHEN 105	20 A	1	180 W	1200 W			1	20 A	MIRCOWAVE RECEPTACLE KITCHEN	B-14
B-15	RECEPTACLES COUNTER KITCHEN 105	20 A	1			500 W	540 W	1	15 A	RECEPTACLES QUIET ROOM	B-16
3-17	WASHROOMS RECEPTACLES	15 A	1	720 W	540 W			1	15 A	Mech Circ Pumps In WR's	B-18
3-19											B-20
3-21											B-22
3-23											B-24
3-25											B-26
B-27	Heating ENTRY 101	20 A	2			750 W					B-28
3-29				750 W							B-30
B-31	HEATING SINGLE POINT CIRC PUMPS	15 A	1			180 W	350 W	1	15 A	HRV-1	B-32
B-33	SUMP PUMP SP-1	15 A	1	180 W							B-34
B-35	Spare	15 A	1			0 W	0 W	1	15 A	Spare	B-36
B-37	Spare	15 A	1	0 W	0 W			1	15 A	Spare	B-38
B-39	Spare	15 A	1			0 W	0 W	1	15 A	Spare	B-40
B-41	Spare	15 A	1	0 W	0 W			1	15 A	Spare	B-42
		То	tal Load:	549	5 W	436	0 W				,

Mechanical Equipment Schedule											
Mechanical ID	Voltage	Electrical Load	Circuit Number	Panel	Phase Created	Wire Size (H,N,G)					
BLR-1	120 V	600 W	A-23	EXISTING PANEL 'A'	Existing	1-#12, 1-#12, 1-#12					
EF-1	120 V	180 W	A-22	EXISTING PANEL 'A'	New Construction	1-#12, 1-#12, 1-#12					
EF-2	120 V	180 W	B-12	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
EF-3	120 V	180 W	B-2	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
EF-4	120 V	180 W	B-2	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
HRV-1	120 V	350 W	B-32	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
HRV-2	120 V	350 W	A-6	EXISTING PANEL 'A'	New Construction	1-#12, 1-#12, 1-#12					
HWT-1	240 V	4500 W	A-40,42	EXISTING PANEL 'A'	Existing	2-#10, 1-#10, 1-#10					
P-1	120 V	180 W	B-18	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
P-2	120 V	180 W	B-18	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
P-3	120 V	180 W	B-18	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					
P-12	120 V	180 W	B-31	NEW PANEL 'B'	New Construction	1-#12, 1-#12, 1-#12					



DESIGN CONSULTANT:



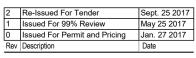
THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

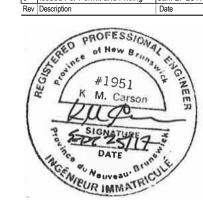
THIS DRAWING AND ITS RELATED DESIGNS, CALCULATIONS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THE EXECUTION OF THE WORK ON THIS PROJECT ONLY. THIS DRAWING SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR LOSSES, DAMAGES OR COSTS ARISING OUT OF ANY USE OR REUSE OF THIS DRAWING NOT SPECIFICALLY AUTHORIZED BY THE ENGINEER IN WRITING.

"RECORD" OR "AS-BUILT" VERSIONS
OF THIS DRAWING ARE BASED ON
INFORMATION PROVIDED BY OTHERS
AND THE ENGINEER NEITHER
EXPRESSLY NOR IMPLICITLY
WARRANTS THE ACCURACY OR
COMPLETENESS OF SAID
DOCUMENTS.

EXCEPT AS MAY BE CERTIFIED OTHERWISE IN WRITING BY THE ENGINEER, ONLY THE REPRODUCIBLE HARD COPY BEARING THE ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL CONSTITUTE THE ORIGINAL OF THIS DRAWING.

THIS DRAWING IS NOT TO BE SCALED. OBTAIN ACCURATE DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR SITE MEASUREMENTS.





PROJECT:
HARRY HACHEY
CONFERENCE
CENTER

ST. ANDREWS, NB

PANEL
SCHEDULES &
DETAILS

DRAWN:	FILE NO:
JDB	12225
	·