
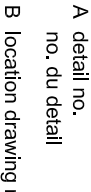


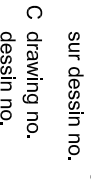



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

9		
8		
7		
6		
5		
4		
3	ISSUED FOR TENDER	13/11/08
2	100% CLIENT REVIEW	13/10/28
1	50% CLIENT REVIEW	13/10/09

 A A: detail no. no. du détail	 B B: location drawing no. sur dessin no.	 C C: drawing no. dessin no.	 A A: detail no. no. du détail	 B B: location drawing no. sur dessin no.	 C C: drawing no. dessin no.	

project
**VETEVE - ACCUMULATION CELLS
 2 HOUR FIRE SEPERATION**
 335 RIVER RD, OTTAWA, ONTARIO

drawing
**COVER PAGE
 DRAWING INDEX**
 dessin

Designed By	D. TESSIER / M. CARRIER	Conçu par
Date	2013/11/08	(yyyy/mm/dd)
Drawn By	M. CARRIER	Dessiné par
Date	2013/11/08	(yyyy/mm/dd)
Reviewed By	D. TESSIER	Examiné par
Date	2013/11/08	(yyyy/mm/dd)
Approved By	D. RANCIER	Approuvé par
Date	2013/11/08	(yyyy/mm/dd)
Tender	ISSUED FOR TENDER	Submission
Project Manager	TIMOTHY TERRELL	Administrateur de projets
Project no.	K4A22-13-0088	No. du projet
Drawing no.	A0000	No. du dessin



VETEVE - ACCUMULATION CELLS 2 HOUR FIRE SEPERATION 335 RIVER ROAD, OTTAWA, ONTARIO

ARCHITECTURAL

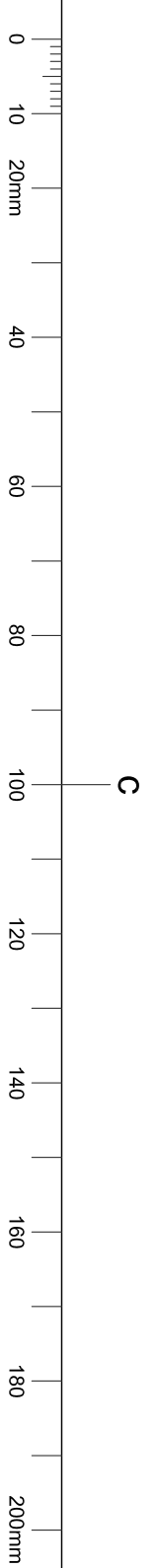
- A000 COVER PAGE
- A210 DRAWING INDEX
- A400 NEW CONSTRUCTION FLOOR PLAN
- A400 WALL & DOOR DETAILS
- A800 SCHEDULES
- A800 INTERIOR ELEVATION

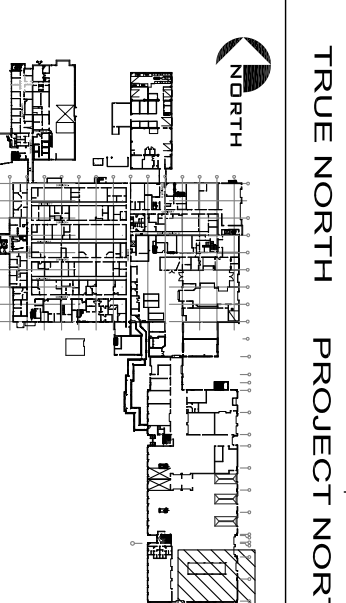
MECHANICAL

- M1 MECHANICAL DRAWING LIST, LEGENDS, GENERAL NOTES & SPECIFICATION
- M2 FIRE PROTECTION & HVAC DEMOLITION & NEW WORK

ELECTRICAL

- E1 DRAWING LIST, SYMBOL LEGEND AND ELECTRICAL SPECIFICATIONS
- E2 LIGHTING AND FIRE ALARM DEMOLITION AND NEW WORK
- E3 POWER AND SYSTEMS DEMOLITION AND NEW WORK





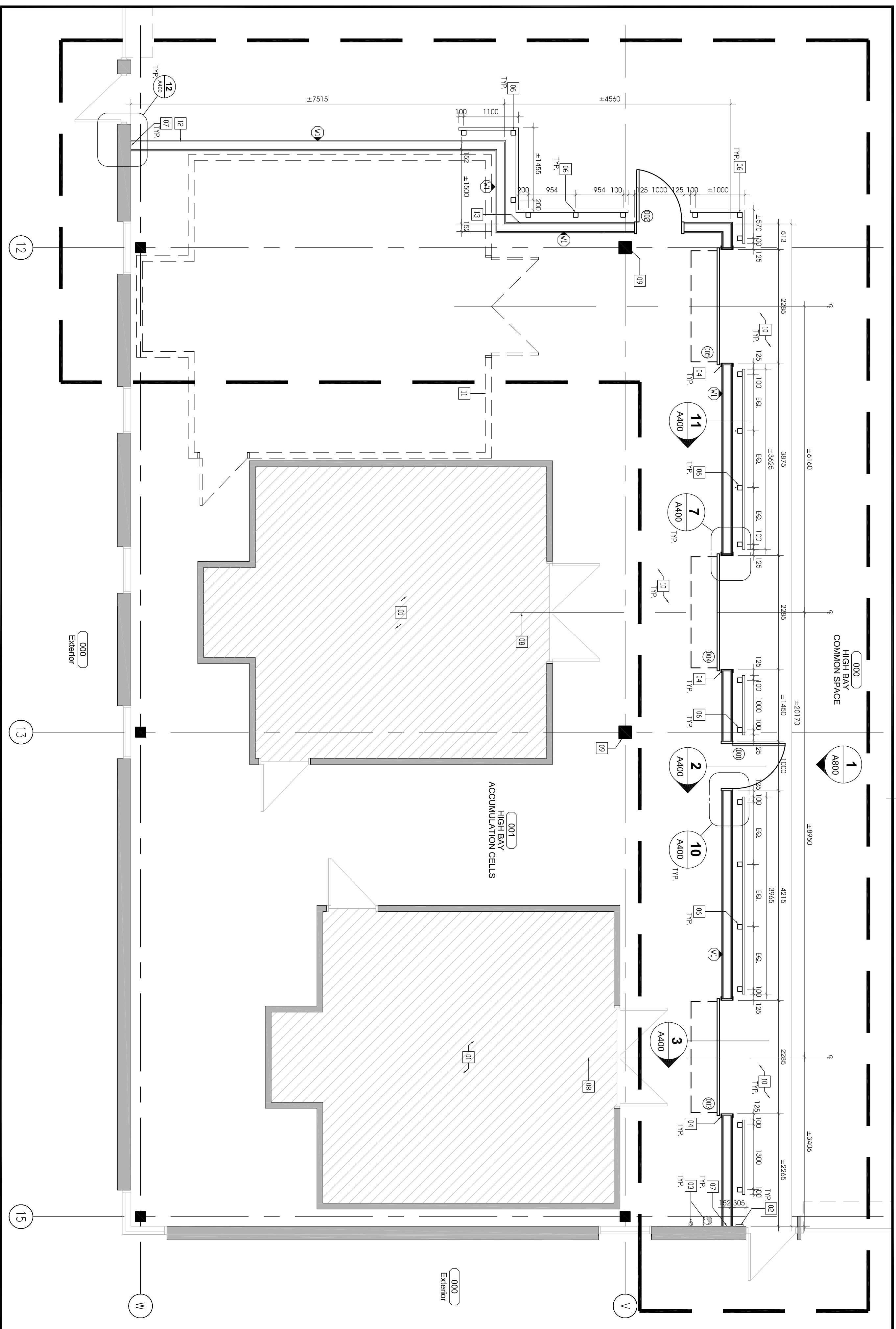
335 RIVER RD., OTTAWA, ONTARIO N.T.S.

DRAWING LEGEND

	SCOPE OF WORK
	DETAIL REFERENCE
	1 DETAIL NO.
	A100 DETAIL DRAWING
	SECTION DETAIL
	1 DETAIL NO.
	A100 DETAIL DRAWING
	10 NOTE MARKER
	10 DOOR MARKER
	EXISTING WALL TO REMAIN. PROTECT FROM DAMAGE. PATCH AND MAKE GOOD ALL DAMAGE TO MATCH EXISTING.
	NEW WALL ASSEMBLY. REFER TO ASSEMBLY SCHEDULE.
	NEW DOOR. REFER TO DOOR SCHEDULE.
	EXISTING DOOR TO REMAIN. PROTECT FROM DAMAGE.
	NEW MOTORIZED 1.12 HOUR FIRE RATED ROLLING DOOR. REFER TO DOOR SCHEDULE.

DRAWING NOTES

- EXISTING ACCUMULATION CELL UNITS, TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- RELOCATED. REFER TO ELECTRICAL DRAWINGS.
- EXISTING WALL MOUNTED PIPING TO REMAIN. REFER TO MECHANICAL DRAWINGS.
- EXISTING PIPING FOR COILING DOOR OPENINGS. REFER TO DETAILS.
- RESERVED.
- NEW TYPICAL GUARD RAIL UPRIGHTS AND WALL PROTECTION ADJACENT TO EXISTING WALL AND CEILING/ROOF STRUCTURES TO MAINTAIN FIRE SEPARATION.
- PROVIDE FIRE STOP TO PERIMETER OF NEW PARTITION ACCUMULATION CELLS.
- EXISTING COLUMNS TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING FLOOR FINISH TO REMAIN. MAKE GOOD ALL.
- LINE OF FUTURE THIRD CELL UNIT BY OWNER (N.I.C.).
- PROVIDE PLYWOOD BACKING IN PARTITION FOR RELOCATED FIRE EXTINGUISHER. WALL OFFSET TO BE VERIFIED ON SITE.
- EXACT LOCATION ON WALL OFFSET TO BE VERIFIED ON SITE.



1 GROUND LEVEL - NEW CONSTRUCTION FLOOR PLAN
A210 1:50

project	VETEY- ACCUMULATION CELL 2 HOUR FIRE SEPERATION	project	
335 RIVER RD. OTTAWA, ONTARIO		dessein	
GROUND LEVEL NEW CONSTRUCTION FLOOR PLAN			
Designed By	D. TESSIER / M. CARRIER	Conçu par	
Date	2013/11/08	(yyyy/mm/dd)	
Drawn By	M. CARRIER	Designé par	
Date	2013/11/08	(yyyy/mm/dd)	
Reviewed By	D. RANCIER	Examiné par	
Date	2013/11/08	(yyyy/mm/dd)	
Approved By	D. RANCIER	Approuvé par	
Date	2013/11/08	(yyyy/mm/dd)	
Tender	ISSUED FOR TENDER	Submission	
Project Manager	TIMOTHY TERRELL	Administrateur de projets	
Project no.	K4A22-13-0088	No. du projet	
Drawing no.	A210	No. du dessin	

A	A
B	B
C	C

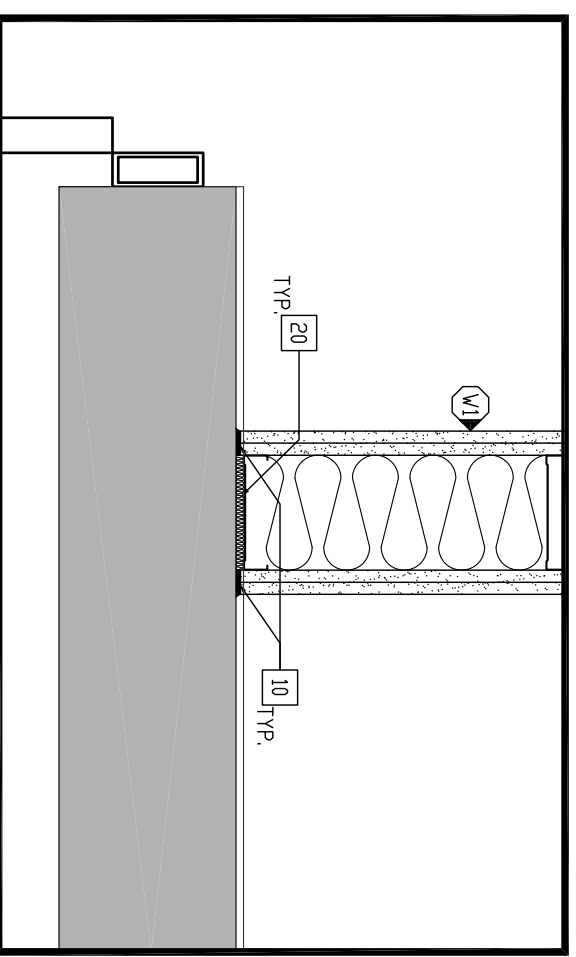
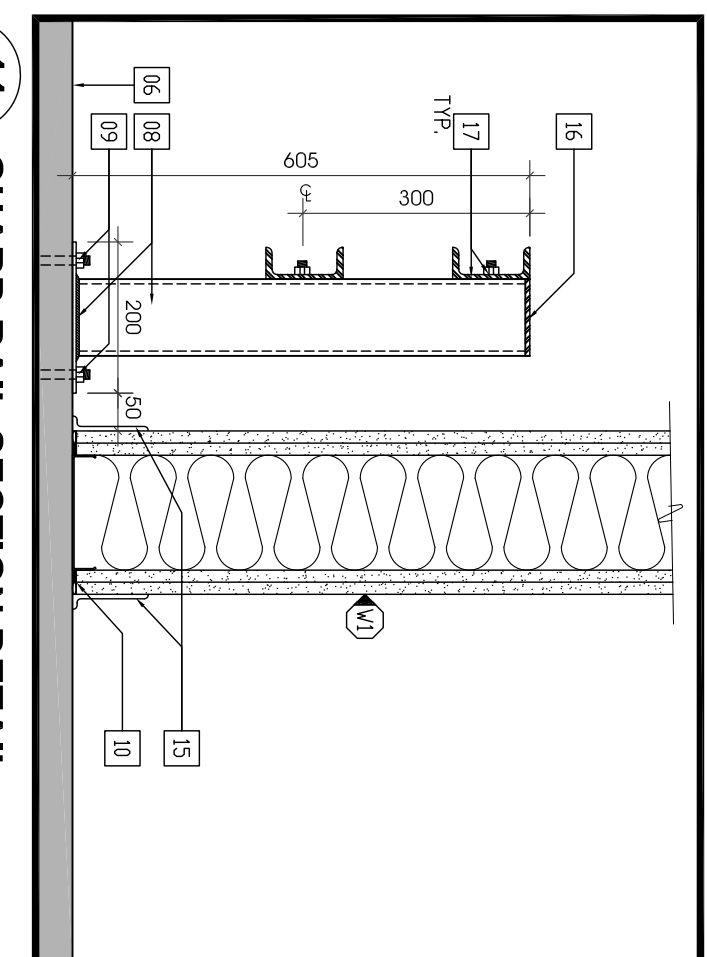
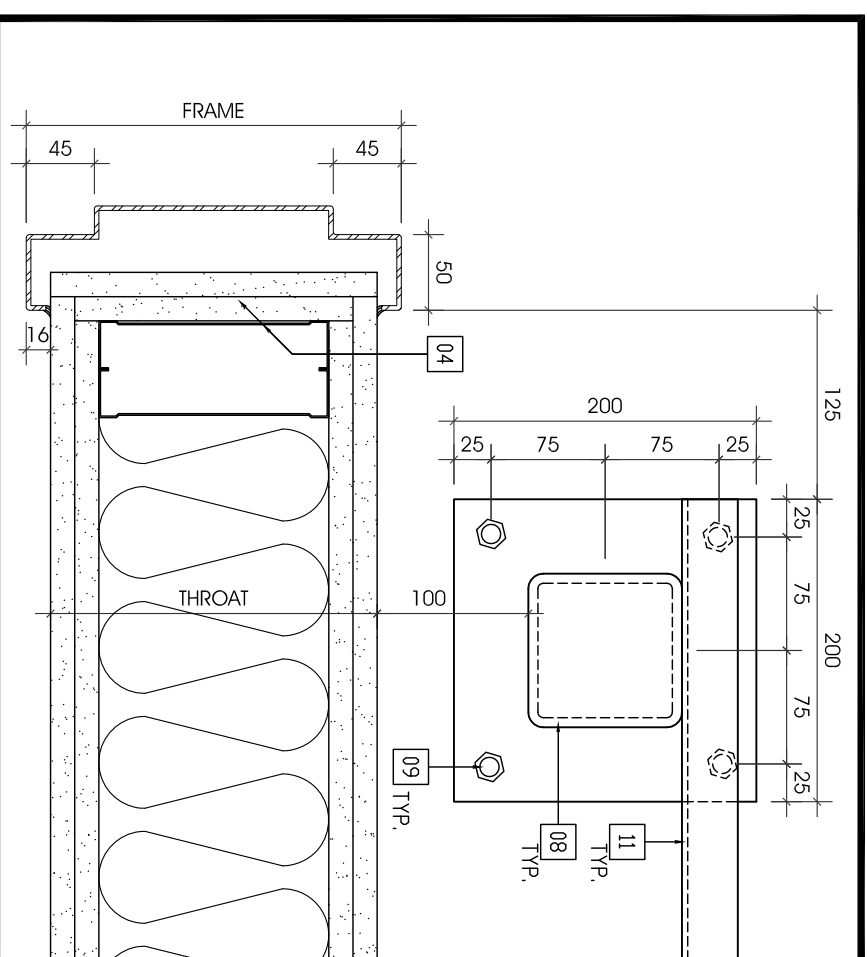
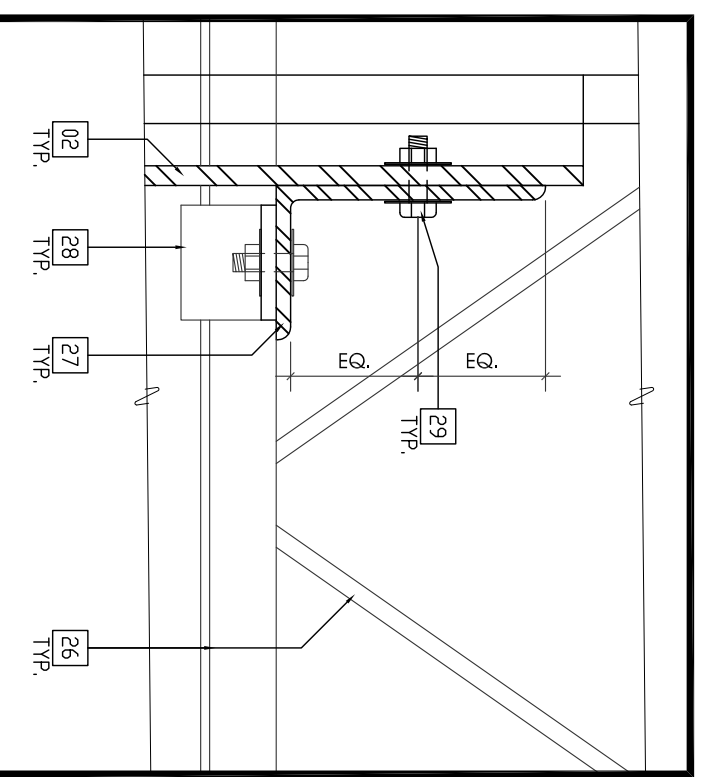
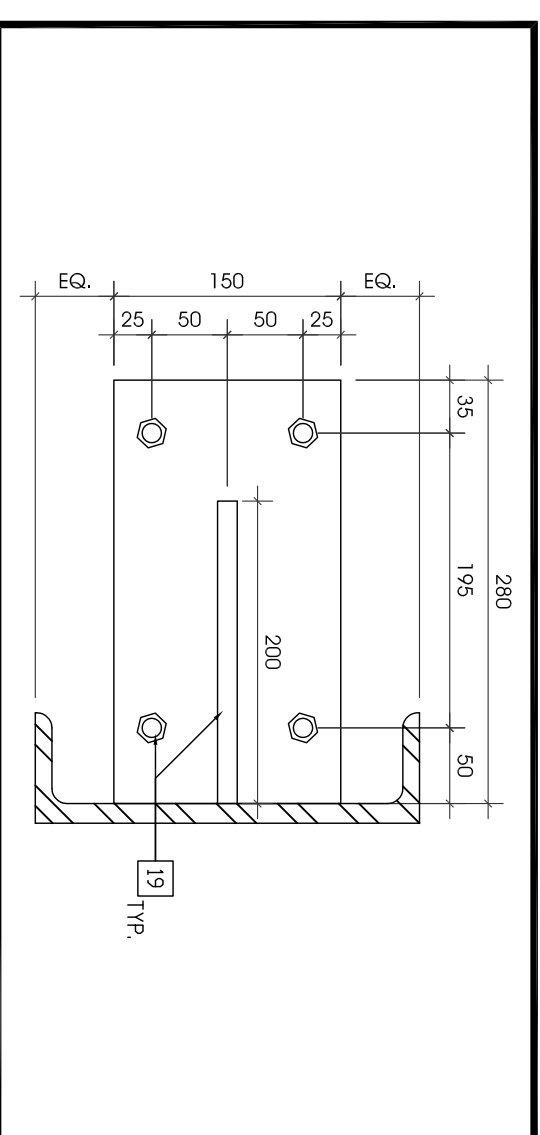
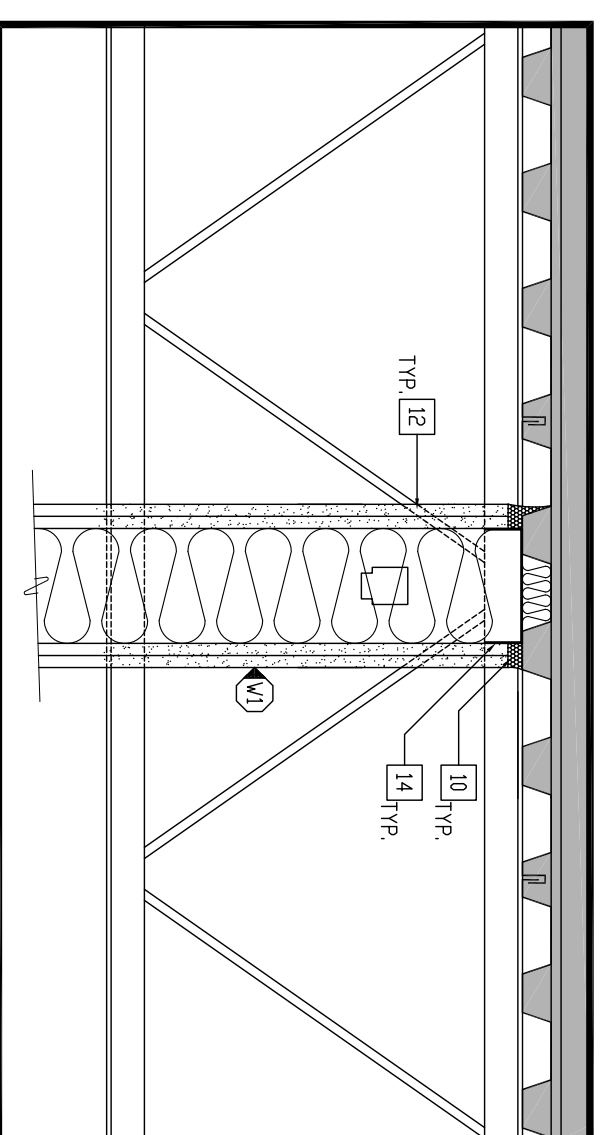
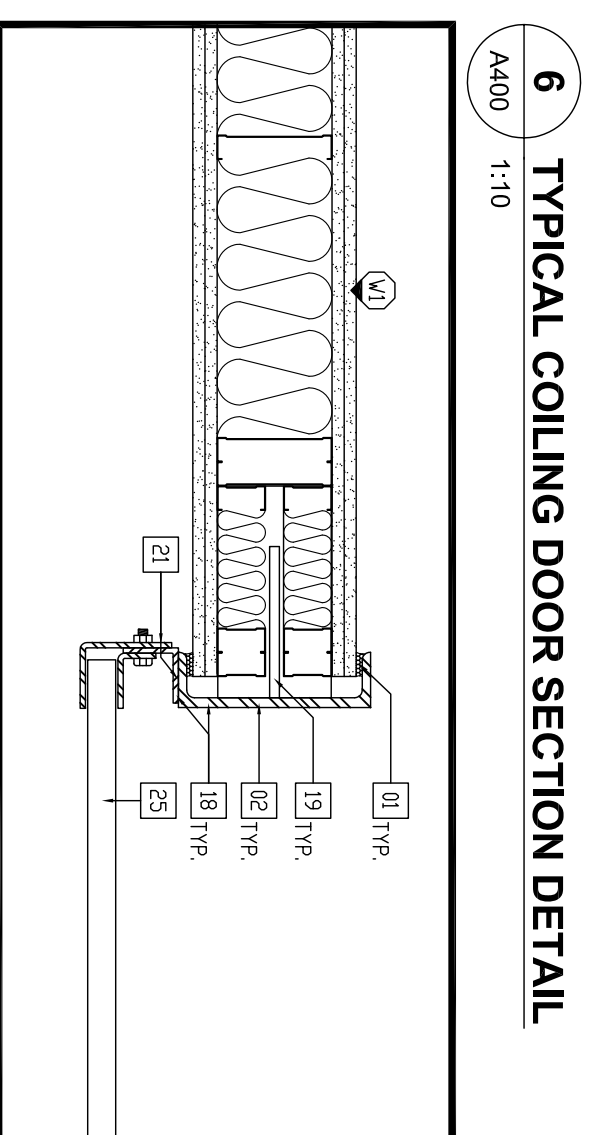
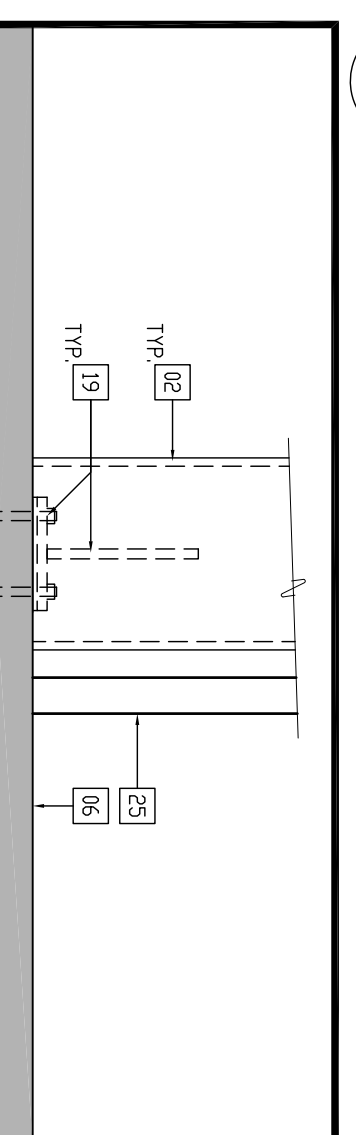
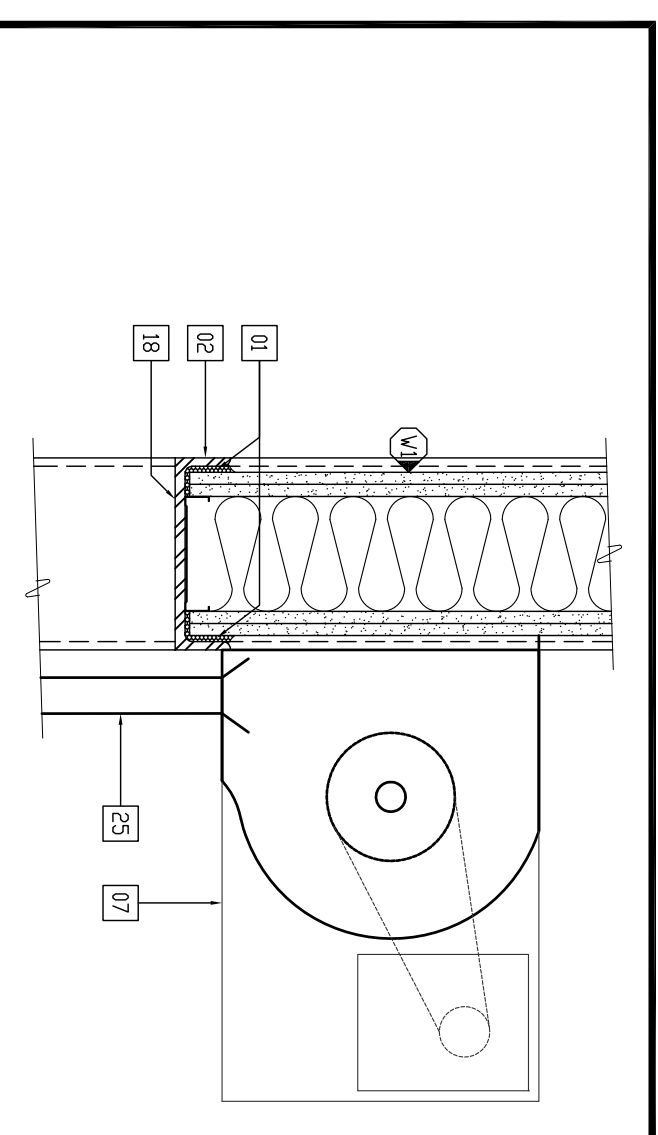
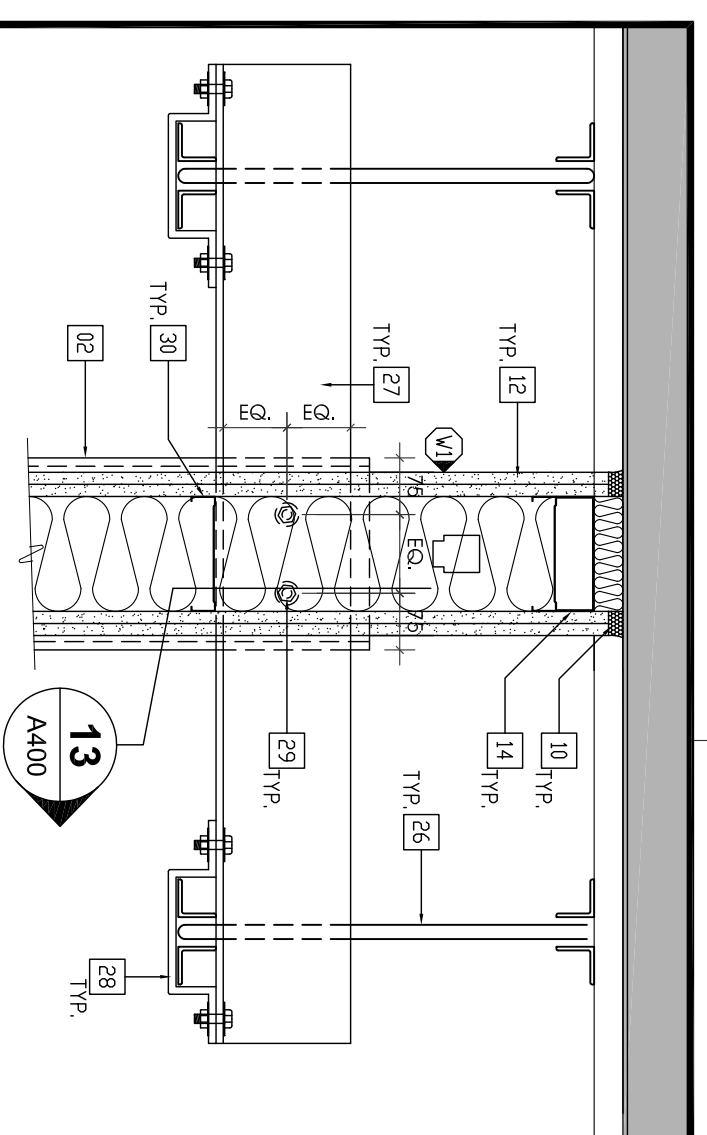
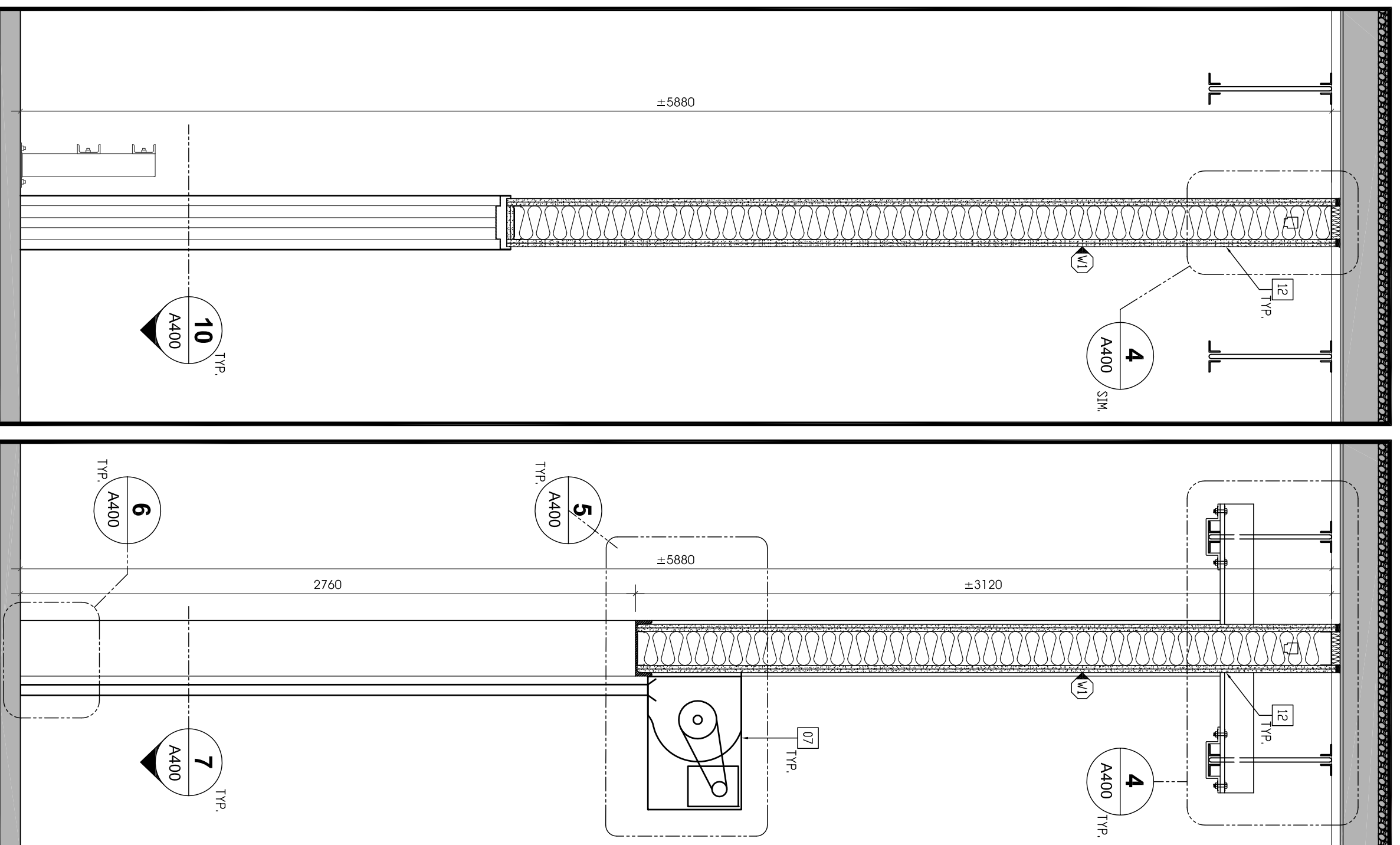
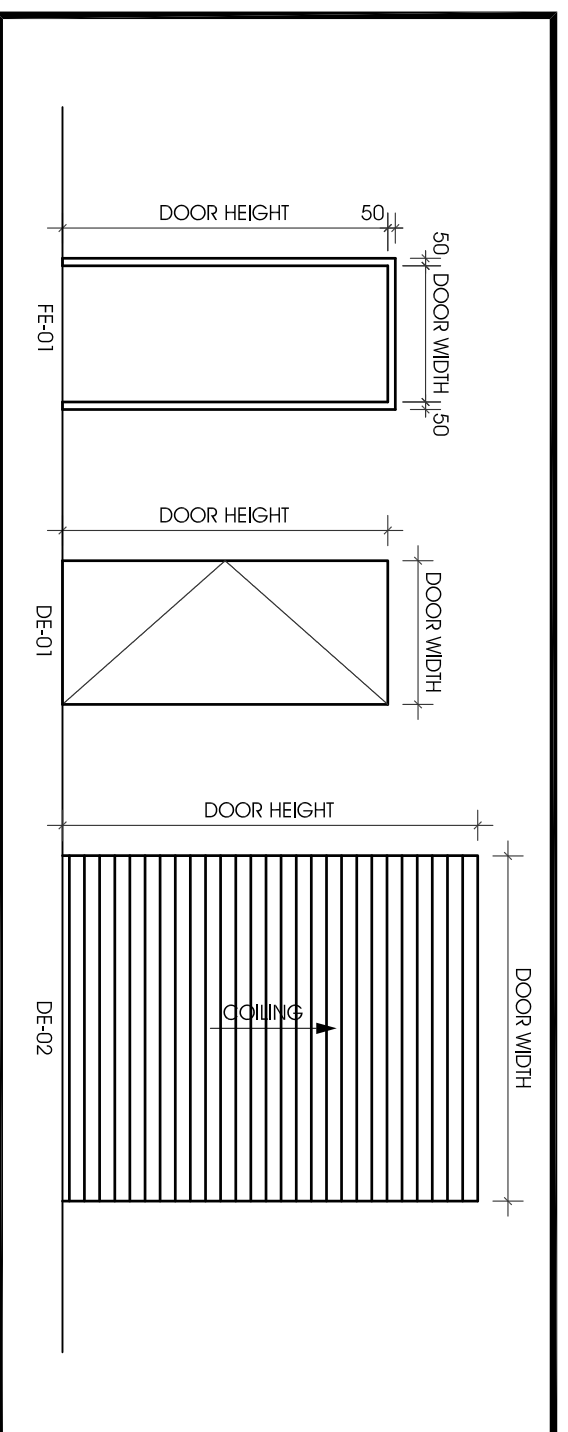
revisions	description	date
1	50% CLIENT REVIEW	10/09/13
2	100% CLIENT REVIEW	13/10/26
3	ISSUED FOR TENDER	13/11/08
4		
5		
6		
7		
8		
9		

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

INTERIOR

**PARTITION ASSEMBLY - W1
FIRE RATED STUD PARTITION**

FIRE RESISTANCE RATINGS:	SEE SCHEDULE
ASSEMBLY DESCRIPTION:	SEE SCHEDULE
PAIN FINISH:	150mm METAL STUDS @ 400 O.C. 150mm FIBRE BATT INSULATION PAINT FINISH WHITE
INTERIOR:	ALL TO US OF EXISTING ROOF DECK



DRAWING LEGEND

1	DETAIL NO.
A100	DETAIL DRAWING
10	NOTE MARKER
10	DOOR MARKER
10	WALL MARKER

EXISTING WALL TO REMAIN NO DEMOLITION.
TO EXISTING WALL COMPOSITION REQUIRED.
CONTRACTOR TO REPAIR ANY DAMAGE DONE
TO EXISTING WALL DURING DEMOLITION.
NEW WALL ASSEMBLY

DRAWING NOTES

- PROVIDE FIRE STOP SEALANT
- CSX037 'C' CHANNEL COILING DOOR FRAME FRAME FRAME WELDED TO 280X150X6 4MM STEEL PLATE
- PROVIDE 150mm HIGH RUBBER BASE TYPICAL AT NEW PARTITION
- PROVIDE FIRE STOP MATERIAL AT ALL WALL AND CEILING/DECK LINE OF HORIZONTAL GUARDS
- PROVIDE FIRE STOPPING FOR ALL NEW AND EXISTING MECH/ELECT SERVICES OR STRUCTURAL ELEMENTS PENETRATING LINE OF FIRE DAMPER, CENTERED ABOVE OVERHEAD DOOR. REFER TO MECHANICAL
- PROVIDE SLIDING TOP TRACK, TO ALLOW MOVEMENT AND PROVIDE NEW 150mm HIGH RUBBER BASE TYPICAL AT NEW PARTITION
- REMOVE OPEN WELDED TOP CAP GRIND ALL EDGES SMOOTH, UPRIGHT WITH 'BOOT' PROVIDE 12mmØ THREADED SHOP WELDED TO FACE OF UPRIGHT
- PROVIDE 2MM ANTI-ULTRAVIOLET PAINT TO EXPOSED STEEL
- FASTEN TO CONCRETE SLAB W/ 200X20X125 LUG BOLTS FASTEN FLAT ALL Voids W/ FIRE BATT INSULATION TO MAINTAIN 2HR F.R.R.
- COILING DOOR TRACK WELDED TO C-CHANNEL, INSTALL AS PER RESERVED
- PROVIDE NEW FIRE DAMPER, REFER TO MECHANICAL
- NEW 75X25X3mm HOLLOW STRUCTURAL SECTION WELDED LINE OF COILING DOOR, INSTALL AS PER MANUFACTURERS INSTRUCTIONS.
- EXISTING OPEN WEB STEEL JOIST TO REMAIN. COORDINATE WITH ARCHITECT'S SECTION SHOWN.
- REQUIRED LENGTH ON SITE 75X25X3mm.
- STEEL ANGLE JOIST CLIPS, SECURED TO STEEL ANGLE.
- CONNECTION DESIGNED BY PROFESSIONAL ENGINEER.
- STEEL STUD FRAMING AROUND ANGLE BRACING.

GENERAL NOTES

ALL DIMENSIONS TO BE PAINTED 'P' UNLESS OTHERWISE INDICATED. DOOR AND FRAME TO BE PAINTED 'P-FIN'. PROVIDE FLOOR BASE R4-01 TO NEW WALLS THROUGHOUT.

PROVIDE STEEL STUD SHOP DRAWING, SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO. PROVIDE MISCELLANEOUS STEEL SHOP DRAWING FOR THE COILING DOOR FRAME, SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

DOOR & FRAME SCHEDULE

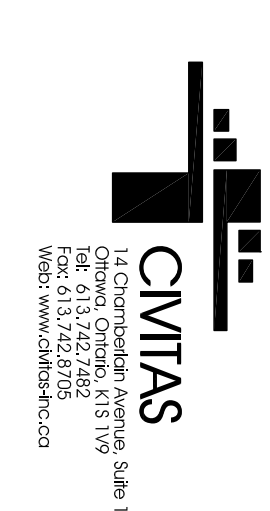
NUMBER	DOOR	WIDTH	HEIGHT	THICK	TYPE	FINISH	ELEV.	THROAT	HARDWARE	FIRE RATING	REMARKS	
D01	SINGLE	950	2150	45	MD-01	PT-02	DE-01	PT-02	MF-01	FE-01	216	HS-01
D02	SINGLE	950	2150	45	MD-01	PT-02	DE-01	PT-02	MF-01	FE-01	216	HS-01
D03	OH	2255	2780		MD-02	PT-02	DE-02	PT-02			N/A	
D04	OH	2255	2780		MD-02	PT-02	DE-02	PT-02			N/A	
D05	OH	1500	2780		MD-02	PT-02	DE-02	PT-02			N/A	

HARDWARE GROUPS

1	STANDARD HINGE	BR1275 127X101 US300	CS30
1	LOCKSET	ML 2057 NSM 626	626
1	DOOR CLOSER	4041 CLSH	ALV
1	FLOOR DOOR STOP	GH5 2188 CS20	CS20

Environment Canada
Environnement Canada

Canada



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
1	50% CLIENT REVIEW	13/10/09
2	100% CLIENT REVIEW	13/10/26
3	ISSUED FOR TENDER	13/11/08

project VETEV- ACCUMULATION CELLS
2 HOUR FIRE SEPERATION

335 RIVER RD. OTTAWA, ONTARIO

**GROUND LEVEL
NEW CONSTRUCTION
WALL & DOOR DETAILS**

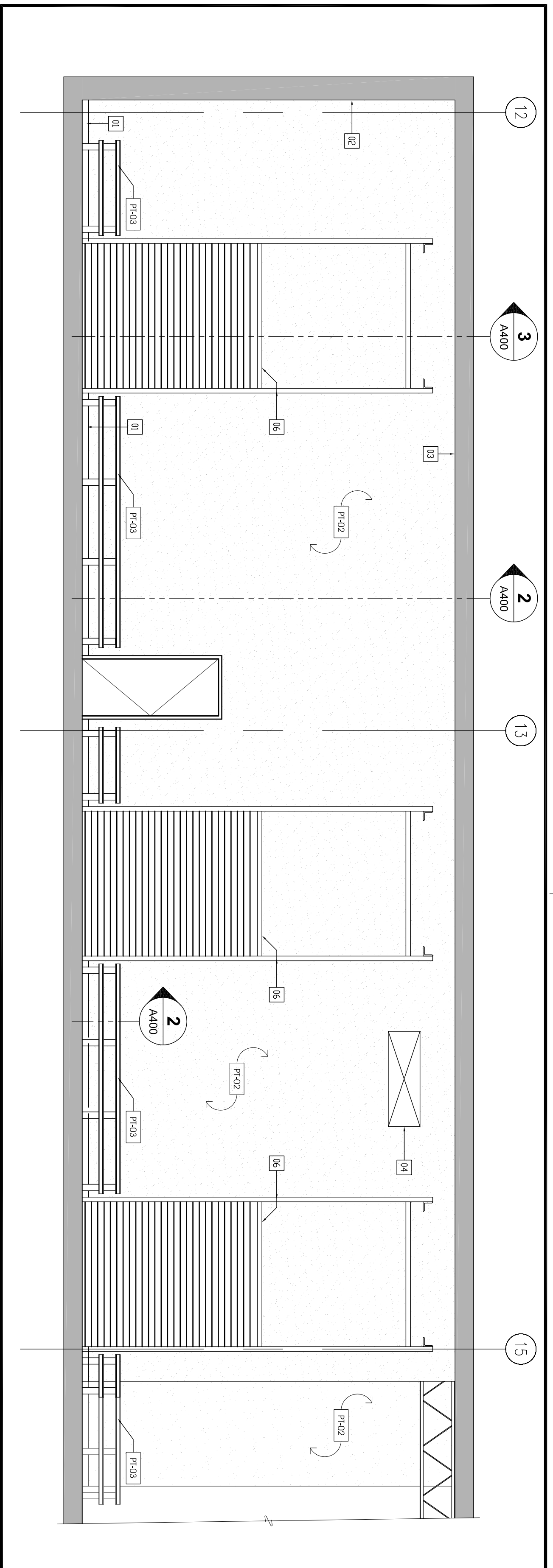
Designed By	D. TESSIER / M. CARRIER	Conçu par
Date	2013/11/08	(yyyy/mm/dd)
Drawn By	M. CARRIER	Designé par
Date	2013/11/08	(yyyy/mm/dd)
Reviewed By	D. TESSIER	Examiné par
Date	2013/11/08	(yyyy/mm/dd)
Approved By	D. RANCIER	Approuvé par
Date	2013/11/08	(yyyy/mm/dd)
Tender	ISSUED FOR TENDER	Submission
Project Manager	TIMOTHY TERRELL	Administrateur de projets
Project no.	K4A22-13-0088	No. du projet
Drawing no.	A400	No. du dessin

DRAWING LEGEND

- SCOPE OF WORK
- DETAIL REFERENCE
- 1 DETAIL NO.
- A100 DETAIL DRAWING
- SECTION DE F.M.L.
- 1 DETAIL NO.
- A100 DETAIL DRAWING
- NOTE MARKER
- 01
- DOOR MARKER
- 02
- MATERIAL MARKER
- FR-03
- LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPLY TO THIS SPECIFIC PROJECT.

DRAWING NOTES

- 01 PROVIDE NEW 100mm RUBBER BASE.
- 02 LINE OF EXISTING WALL.
- 03 LINE OF EXISTING CEILING.
- 04 LINE OF EXISTING FLOOR.
- 05 OUTLINE OF WALL MOUNTED OVERHEAD COILING DOOR HOUSING, OPEN STEEL FRAME, PROVIDE 2HR INTUMESCENT PANEL TO EXPOSED STEEL.



1 INTERIOR ELEVATION
A800 1:50

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
1	50% CLIENT REVIEW	13/10/18
2	100% CLIENT REVIEW	13/10/18
3		
4		
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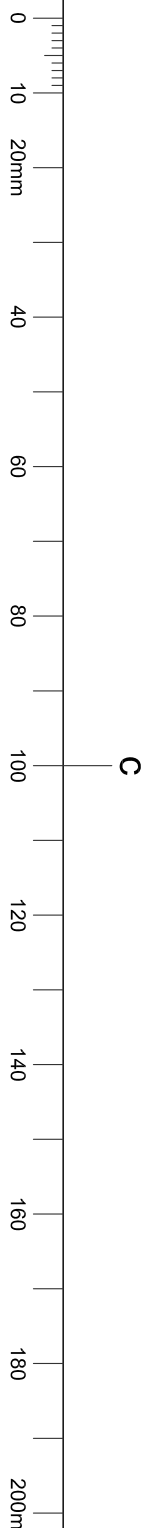
A	B	C
A	A	A
C	B	C

project
VETEVY- ACCUMULATION CELL
FIRE SEPARATION WALL

335 RIVER RD. OTTAWA, ONTARIO

drawing
INTERIOR ELEVATION

Designed By	D. TESSIER / M. CARRIER	Conçu par
Date	2013/10/28	(yyyy/mm/dd)
Drawn By	M. CARRIER	Dessiné par
Date	2013/10/28	(yyyy/mm/dd)
Reviewed By	D. TESSIER	Examiné par
Date	2013/10/28	(yyyy/mm/dd)
Approved By	D. RANCIER	Approuvé par
Date	2013/10/28	(yyyy/mm/dd)
Tender	TIMOTHY TERRELL	Soumission
Project Manager	Administrateur de projets	
Project no.	No. du projet	
	K4A22-13-0088	
Drawing no.	No. du dessin	
	A800	



ENVIRONMENT CANADA - CONSULTING SERVICES FOR VETEV

335 RIVER ROAD, OTTAWA, ONTARIO MECHANICAL

DRAWING LIST	
SYMBOL	DESCRIPTION
M1	MECHANICAL DRAWING LIST, LEGENDS, GENERAL NOTES & SPECIFICATIONS
M2	FIRE PROTECTION & HVAC DEMOLITION & NEW WORK

GENERAL LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING PIPING/DUCTWORK/EQUIPMENT
----	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
---	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
(E)	DEMOTES EXISTING EQUIPMENT
(R)	DEMOTES RELOCATED EQUIPMENT
(N)	DEMOTES NEW EQUIPMENT

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
○	SEMI-RECESSED SPRINKLER
⊗	UPRIGHT SPRINKLER
⊙ FET	FIRE EXTINGUISHER C/W MOUNTING BRACKET

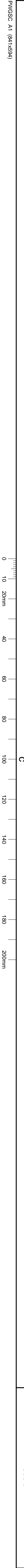
HVAC LEGEND	
SYMBOL	DESCRIPTION
▭	RECTANGULAR DUCTWORK
⊕	DUCTWORK UP
⊖	DUCTWORK DOWN
⊕ ⊖	TRANSFER OPENING (TO)
— 10	FIRE DAMPER (FD)
— 10	MOTORIZED DAMPER
⊕	UNIT HEATER (UH)
⊖	EXHAUST FAN (EF)

GENERAL NOTES:

- ALL WORK SHOWN OR IMPLIED ON THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH APPLICABLE (OHS) REGULATIONS AND BY-LAWS.
- MEASUREMENTS AND DIMENSIONS SHALL BE TAKEN AS SHOWN ON THESE DRAWINGS UNLESS OTHERWISE SPECIFIED.
- IN ACCORDANCE WITH SMOKE-LATEST EDITION (DUCTWORK)
- IN ACCORDANCE WITH FM & NFPA (FIRE PROTECTION)
- IN ACCORDANCE WITH UIC STANDARDS
- PRIOR TO SIGHTING TENDERS, EACH TRADE SHALL EXAMINE THE SITE TO DETERMINE THE CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK. NO CLAIM FOR EXTRA PAYMENT WILL BE CONSIDERED BECAUSE OF UNREASONABLE DELAYS OR CHANGES IN THE WORK OR UNEXPECTED DEGREE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
- THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION. MECHANICAL CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE LOCATION OF NEW OR RELOCATED EQUIPMENT TO VERIFY CLEARANCES WITH THE MANUFACTURER FROM TO ORDERING.
- THESE MECHANICAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- THE WROD "PROVIDE" SHALL DENOTE "SUPPLY AND INSTALL." THE WORD "TYPE" SHALL DENOTE TESTING, ADJUSTING, AND BALANCING.
- CONTRACTOR SHALL FOLLOW THE BEING DOCUMENT PROJECT SCHEDULE AND ALL OTHER SCHEDULES AND CONDITIONS OF CONTRACT. CONTRACTOR MANAGER & ENGINEER FOR APPROVAL.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE CONTRACTOR IN RESPECT TO RESOURCES FOR COMMUNICATING SAFETY REQUIREMENTS TO ITS EMPLOYEES AND COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY ACT.
- CONTRACTOR TO PROVIDE PRIOR TO COMMENCEMENT OF WORK, ONTARIO MINISTRY OF LABOUR CONTRACTOR REGISTRATION FORM AS WELL AS A CURRENT SIGNED AND DATED CORPORATE HEALTH AND SAFETY POLICY.
- CONTRACTOR TO PROVIDE FOR THE USE OF HIS WORK FORCE A FIRST AID KIT ACCEPTABLE TO WSB AND WCL.
- PAY ALL REQUIRED FEES AND PENALTIES.
- WORKMANSHIP AND MATERIALS SHALL NOT EXCEED THAT OF THE EXISTING AS PRESENTED BY THE PROJECT MANAGER.
- ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
- ALL CHANGES AND CONNECTIONS TO EXISTING SERVICES, REQUIRING THE SHUTDOWN OF THAT SERVICE SHALL BE DONE AT THE TIME DESIGNATED BY THE PROJECT MANAGER, UNLESS OTHERWISE STATED.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP PROGRESS FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. THE CLEANING OF THE AFFECTED AREA SHALL BE COMPLETED PRIOR TO PROCEEDING WITH THE WORK. ALL WASTE MATERIALS SHALL BE PROPERLY STORED AND REMOVED TO DESIGNATED WASTE DISPOSAL FACILITY.
- EQUIPMENT REQUIRING CONNECTION TO AN ELECTRICAL POWER SOURCE SHALL BE, C/S OR O/C APPROVED FOR USE AT LOCATION OF INSTALLATION.
- COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
- MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
- INSPECT ALL NEW AND/OR RELOCATED EQUIPMENT UPON DELIVERY AND/OR RELOCATION AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
- ALL EQUIPMENT, PIPING, DUCTWORK AND WIRING SHALL BE SUSPENDED FROM THE BUILDING STRUCTURE.
- PROVIDE BLACK WITH WHITE WRITING LAMINATED PLATE ON ALL NEW EQUIPMENT. LABEL UNIT AS SHOWN ON DRAWINGS. LETTERING SIZE TO BE MINIMUM 25MM HIGH. MOUNT NEAR CONTROL SECTION OF THE UNIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILING, DRAWING, RETULING AND REWORKING OF WET PIPE SPRINKLER SYSTEM OR STANDPIPE ON A DAILY BASIS, COORDINATE WITH OWNER.
- PROJECT EXISTING AIR HANDLING SYSTEM FROM CONSTRUCTION DIST. PROVIDE FILTER MEDIA ON RETURN OPENINGS, FASTEN SECURELY TO THE RETURN DUCT INLET; REPLACE DURING CONSTRUCTION AS REQUIRED. APPROVED MATERIAL, APPROVED TRADE OR APPROVED EQUAL.
- DUCT SIZES INDICATED ON DRAWINGS WERE ACQUISITIVELY LINED ARE FREE AREA SIZES AND NOT SHEET METAL SIZES.
- SUBMITTALS:
 - SUBMIT ONE(1) COPY OF SHOP DRAWINGS AND PRODUCT DATA IN ELECTRONIC PDF FORMAT FOR ENGINEER'S REVIEW PRIOR TO PROCEEDING AND ONE(1) HARD COPY SHOP DRAWINGS WILL NOT BE DISTRIBUTED AS PER PROJECT MANAGER'S INSTRUCTIONS. SHOP DRAWINGS SHALL INCLUDE ALL SPECIFIED EQUIPMENT & SYSTEMS.
 - PROVIDE SUBMITTALS IN ACCORDANCE WITH APPLICABLE CODES OR OCCUPANCY INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - FIRE PROTECTION:
 - NFPA-13 CERTIFICATION LETTER (WARRANTY LETTER IS ACCEPTABLE) AND NFPA-13 INSULATION MEETS NFPA-13).

MECHANICAL SPECIFICATIONS:

- FIRE PROTECTION PIPING:**
 - ALL COMPONENTS WITHIN THE SYSTEM TO BE FM & UIC LISTED.
 - WORKING PRESSURE NOT LESS THAN 175 PSI.
 - FITTINGS AND JOINTS TO FM & NFPA 13-2002.
 - FERROUS, SPHERICAL, WELDED, FLANGED OR ROLL GROOVED.
 - PIPE HANGERS:
 - UIC LISTED FOR FIRE PROTECTION SERVICES.
 - SPRINKLER SYSTEM SHALL BE RATED AT 1380 lbf (200 lbf).
- FIRE EXTINGUISHERS:**
 - (FET) STORED PRESSURE DRY CHEMICAL TYPE WITH HEAVY DUTY BRACKET. APPROVED BY THE PROJECT MANAGER. APPROVED MATERIAL, APPROVED TRADE OR APPROVED EQUAL.
 - ALL CLASS PROTECTION C/W WALL MOUNTING BRACKET, SIZE 2.25 KG, 3A-10BC RATING, ACCEPTABLE MATERIAL, NATIONAL FIRE, CANADIAN FIRE EQUIPMENT OR EQUAL.
- WET PIPE SPRINKLERS:**
 - UPRIGHT, BRONZE, QUICK RESPONSE FOR HAZARD COVERAGE AS INDICATED, 5.8 K FACTOR, FM APPROVED, CHARME FINISH, GLASS INDICATOR, 68°C (153°F) RATED, 1.9 MM (3/32) ORifice, PROVIDE WIRE GUARDS.
- DUCTWORK:**
 - GENERAL:
 - CONSTRUCTION AND MATERIALS HEREIN SHALL BE AS PER SMOKE STANDARDS.
 - ALL MATERIALS SHALL CONFORM TO SMOKE AND FLAME SPREAD REQUIREMENTS AS SPECIFIED IN THE PROVISIONAL BUILDING CODES AND STANDARDS.
 - ALL GALVANIZED DUCTWORK INDICATED TO BE FABRICATED FROM 0.2% COPPER CONTENT GALVANIZED SHEET STEEL WITH 1-1/4 OZ. ZINC COATING. GALVANIZED SHEET STEEL NOT LESS THAN THE FOLLOWING THICKNESS: 24 GA. = 750MM (30") WIDE SMALLER.
 - ROUND & OVAL DUCT AND FITTINGS SHALL BE SPRAY PAINTED WITH AN APPROVED PRIMER AND FINISH. FINISH SHALL NOT BE LESS THAN THE FOLLOWING THICKNESS: 28 GA. = 75MM TO 150MM (3" TO 14") DIA. 24 GA. = 350MM (14") DIA. & LARGER.
 - FIRE DAMPERS:**
 - GENERAL:
 - ARRANGEMENT TYPE B OR C, LISTED AND BEAR LABEL OF U.I.C. (UIC) MEET REQUIREMENTS OF NFPA (NFPA) 90A AUTHORITIES HAVING JURISDICTION. FIRE DAMPER ASSEMBLIES TO BE FIRE TESTED IN ACCORDANCE WITH CANULC S112.
 - ALL FIRE RATING EQUIPMENT TO MAINTAIN INTEGRITY OF FIRE WALL AND/OR FIRE SEPARATION.
 - TOP HINGED, OFFSET SINGLE DAMPER, ROUND OR SQUARE, INTERLOCKING TYPE, SIZED TO MAINTAIN FULL DUCT CROSS SECTION.
 - ROSBIE LINK ACTUATED, WEIGHED TO CLOSE AND LOCK IN CLOSED POSITION WHEN RELEASED.
 - 40 X 40 X 3 MM REMAINING ANGLE IRON FRAME, ON FULL PERIMETER OF DAMPER, ON BOTH SIDES OF THE SEPARATION BEAM.
 - RATING: 1 1/2 HR.
 - ACCEPTABLE MATERIAL: JMI, NCA, VALOR, RUSON, VERTEX.



Environment Canada
 Environment Canada

 Canada

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<p>Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.</p>		
9		
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2	ISSUED FOR TENDER	
1	98% REVIEW	
revisions	description	date
		06/11/13
		30/08/13

A: sheet no.
 B: location drawing no.
 C: drawing no.
 D: design no.

A	A
C	B C

VETEV - ACCUMULATION CELLS
2 HOUR FIRE SEPERATION
 335 RIVER RD, OTTAWA, ONTARIO

drawing: **MECHANICAL**
 design: **DRAWING LIST, LEGENDS, GENERAL NOTES & SPECIFICATIONS**

Designed By	S.HAMILTON	Conçu par
Date	DATE_DES	(yyyy/mm/dd)
Drawn By	C.LALONDE	Dessiné par
Date	DATE_DRA	(yyyy/mm/dd)
Reviewed By	S.HAMILTON	Examiné par
Date	DATE_REV	(yyyy/mm/dd)
Approved By	S.HAMILTON	Approuvé par
Date	DATE_APP	(yyyy/mm/dd)
Tender	TENDER_PROJECT_MAN	Soumission
Project Manager	Administrateur des projets	
Project no.	KAA22-13-0088	No. du projet
Drawing no.	M1	No. du dessin

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
1	ISSUED FOR TENDER	06/11/13
2	98% REVIEW	30/08/13
3		
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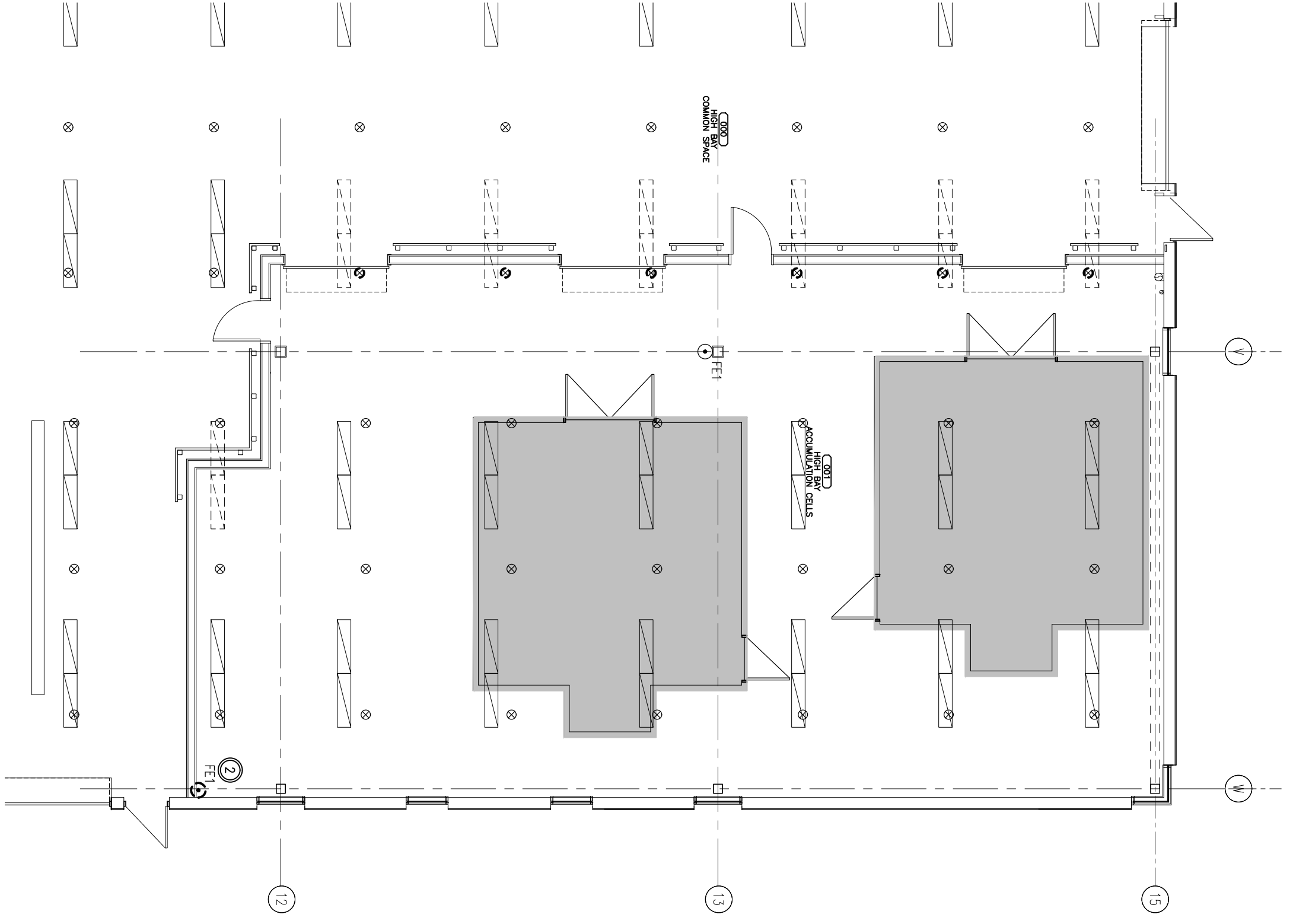
A	A
B	B
C	C

project
**VETEV - ACCUMULATION CELLS
 2 HOUR FIRE SEPERATION**

335 RIVER RD. OTTAWA, ONTARIO

**FIRE PROTECTION
 & HVAC
 DEMOLITION &
 NEW WORK**

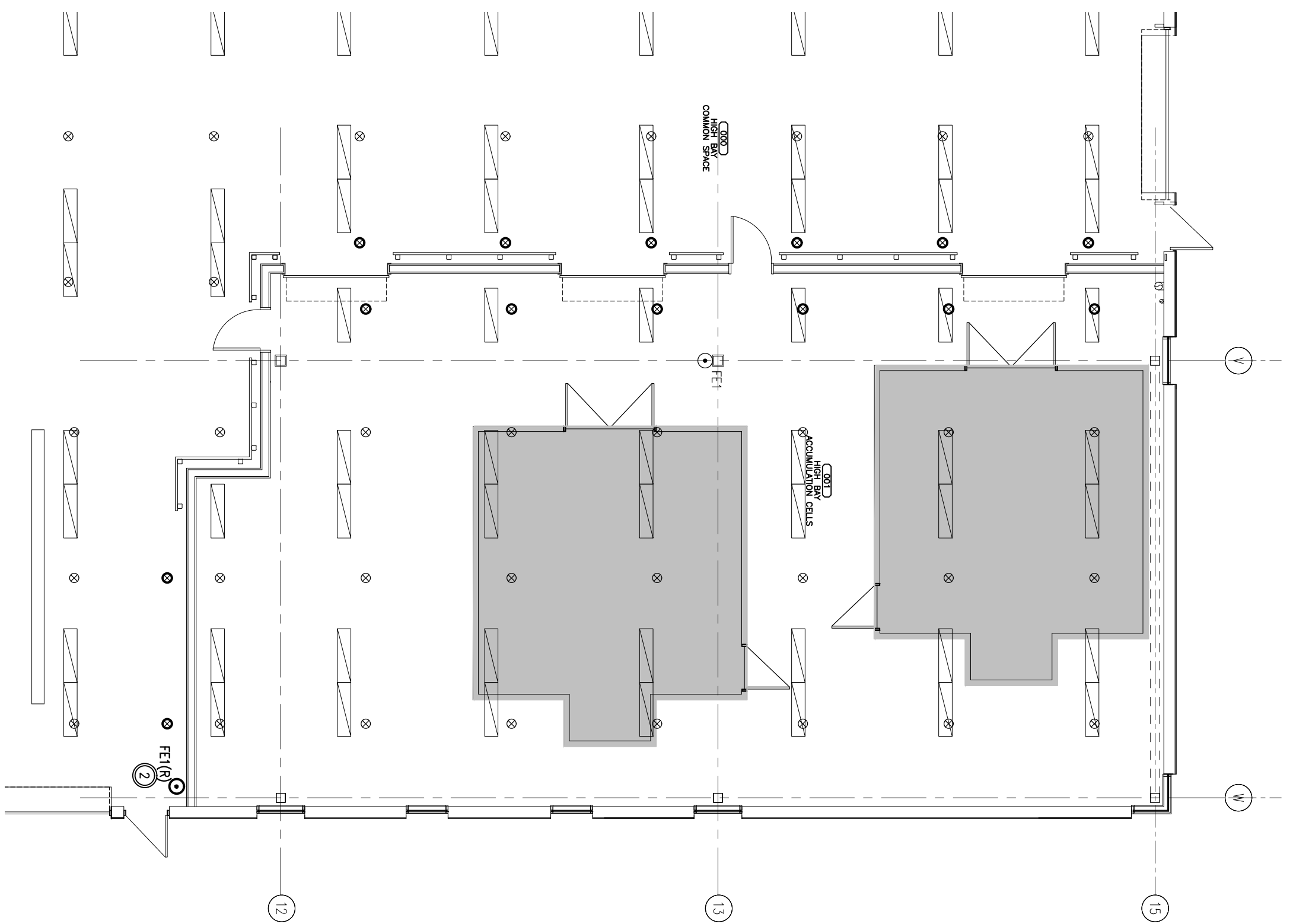
Designed By	S.HAMILTON	Conçu par
Date	DATE_DES	(yyyy/mm/dd)
Drawn By	C.LALONDE	Designé par
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Date	DATE_REV	(yyyy/mm/dd)
Approved By	S.HAMILTON	Approuvé par
Date	DATE_APP	(yyyy/mm/dd)
Tender	TENDER	Submission
Project Manager	PROJECT_MAN	Administrateur des projets
Project no.	K4A22-13-0088	No. du projet
Drawing no.	M2	No. du dessin



**FLOOR PLAN
 FIRE PROTECTION - DEMOLITION WORK**
 1 M2 1:100

DESCRIPTION OF WORK

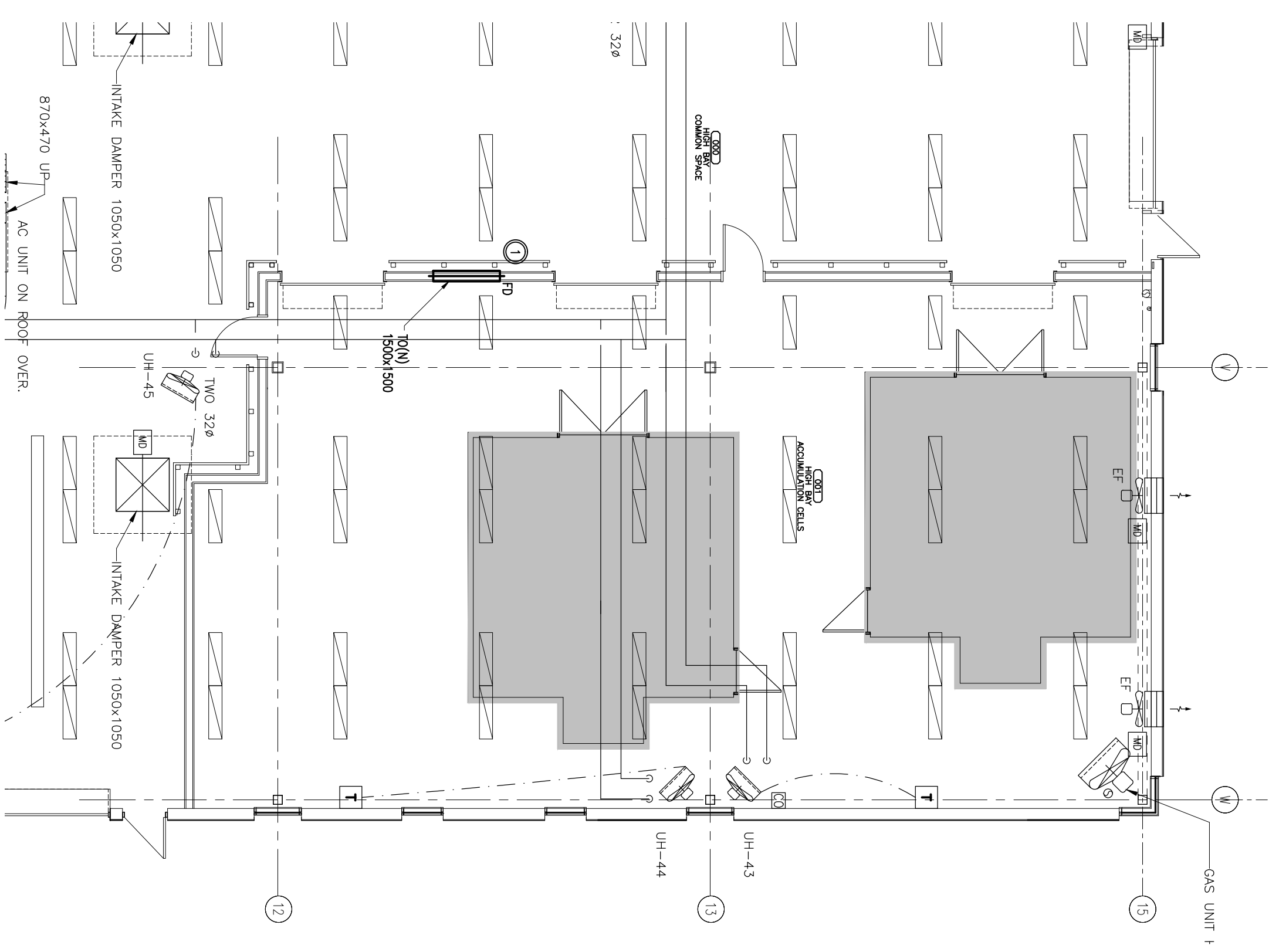
- REMOVE EXISTING SPRINKLER HEADS AS INDICATED. RETAIN FOR RE-USE IN NEW CONSTRUCTION.
- REMOVE EXISTING FIRE EXTINGUISHER AS INDICATED. RETAIN FOR RE-USE IN NEW CONSTRUCTION.



**FLOOR PLAN
 FIRE PROTECTION - NEW WORK**
 1 M2 1:100

DESCRIPTION OF WORK

- PROVIDE NEW & RELOCATE EXISTING SPRINKLER HEADS AS INDICATED.
- RELOCATE EXISTING FIRE EXTINGUISHER AS INDICATED.



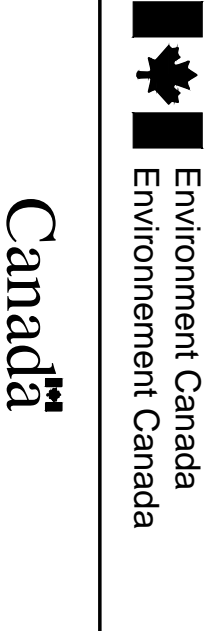
**FLOOR PLAN
 HVAC - NEW WORK**
 1 M2 1:100

DESCRIPTION OF WORK

- PROVIDE NEW TRANSFER OPENING AS INDICATED, C/W FIRE DAMPER.

ENVIRONMENT CANADA - CONSULTING SERVICES FOR VETEV

335 RIVER ROAD, OTTAWA, ONTARIO ELECTRICAL



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DRAWING LIST	
SYMBOL	DESCRIPTION
E1	DRAWING LIST, SYMBOL LEGEND AND ELECTRICAL SPECIFICATIONS
E2	LIGHTING AND FIRE ALARM DEMOLITION AND NEW WORK
E3	POWER AND SYSTEMS DEMOLITION AND NEW WORK

ELECTRICAL SPECIFICATIONS

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE - TYPE AS SHOWN
	LIGHT FIXTURES ON EMERGENCY POWER - DO NOT SWITCH
	WALL MOUNTED EXIT LIGHT, SINGLE OR DOUBLE-FACE AS SHOWN
	FIRE ALARM HORN
	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
	RECEPTACLE INSTALLED OVER COUNTER
	ROLLING DRY DOOR OPERATOR
	THERMOSTAT PROVIDED BY DW 15
	SINGLE PHASE ELECTRIC MOTOR
	MOTORIZED DAMPER
	DISCONNECT SWITCH
LINE TYPE	DESCRIPTION
---	DEMOLITION
---	NEW WORK
---	EXISTING

DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, MATERIALS TO BE REMOVED BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE TAKEN FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
- DISCONNECT AND MAKE SAFE ALL SYSTEMS TO BE DEMOLISHED INCLUDING PANELS, FEEDERS, BRANCH CIRCUITS AND EQUIPMENT BY OTHER DIVISIONS, COORDINATE WITH OTHER DIVISIONS.
- MAINTAIN EXISTING REMAINING CIRCUITS, SYSTEMS, ETC., WHICH PASS THROUGH AREA OF CONSTRUCTION AND IN CLOSE PROXIMITY. PROVIDE NECESSARY COMPONENTS TO MAINTAIN SYSTEMS. ENSURE COMPONENTS WILL BE COMPLETED WHEN CONSTRUCTION IS COMPLETE.
- REMOVING IMMEDIATELY ANY REMAINING EXISTING SYSTEMS IN-ADVERTENTLY INTERRUPTED DURING CONSTRUCTION.

- THE DRAWINGS INDICATE KNOWN CONDITIONS AND MAY NOT INDICATE ALL DEMOLITION REQUIREMENTS. ELECTRICAL IN TENDER SHALL VISIT THE SITE PRIOR TO TENDER SUBMISSION AND VERIFY REQUIREMENTS AND INCLUDE ALL COSTS CONSTRUCTION IS COMPLETE.
- REMOVING IMMEDIATELY ANY REMAINING EXISTING SYSTEMS IN-ADVERTENTLY INTERRUPTED DURING CONSTRUCTION.
- REPAIR REWORKED CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
- DEVICES FROM DEMOLITION ARE NOT TO BE REUSED UNLESS NOTED OTHERWISE. NEW DEVICES SHALL BE SUPPLIED WHERE NECESSARY.
- ALL FIRE ALARM DEVICES TO REMAIN IN OPERATION. PROTECT SMOKE DETECTORS FROM DUST EXPOSURE DURING CONSTRUCTION.

- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH SHIFT.
- AFTER DEMOLITION WORK IS COMPLETE AND UNMANNED THREE (3) WORKING DAYS PRIOR TO PROCEEDING WITH NEW WORK, NOTIFY ENGINEER FOR INSPECTION.

GENERAL NOTES:

- ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE OF ONTARIO AND WITH NEW ELECTRICAL CODE REQUIREMENTS (2014 CAN/CSA C22.1-14 (REVISIONS)) CONDUCTOR TO BE AS NECESSARY. PAY ALL APPLICABLE FEES AND INSPECTION COSTS.
- COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE.
- ENSURE ELECTRICAL COMPONENTS (IE. WIRING, CONDUIT, ETC.) RELATING TO THE AREA OF WORK ARE INDEPENDENTLY SECURED TO COMPLY WITH CODE REQUIREMENTS. IT IS NOT ACCEPTABLE TO SECURE THE COMPONENTS TO DUCTWORK, DUCT WORK TO CONDUIT, OR ANY OTHER SYSTEMS.
- ENSURE ALL EXISTING CEILING MOUNTED BOXES ARE CLOSED PRIOR TO COMPLETION OF PROJECT. PROVIDE LABELLED AND COLOUR CODED COVER PLATES (IE. PANEL NAME AND CIRCUIT NUMBER) AS REQUIRED.
- UNMANNED THREE (3) WORKING DAYS PRIOR TO CLOSING CEILING, NOTIFY THE ENGINEER FOR CEILING INSPECTION.

LIGHTING NOTES:

- REPAIR EXISTING, DEFECTIVE AND VISIBLE SURFACES OF LUMINAIRES. REPLACE DEFECTIVE LAMPS, BALLAST AND DAMAGED LENSES.
- LUMINAIRES IN CONSTRUCTION AREA ARE TO BE INDEPENDENTLY SUPPORTED, INCLUDING EXISTING TO REMAIN, RELOCATED AND NEW TO COMPLY WITH CODE REQUIREMENTS.
- ADD, RELOCATE AND CONNECT LIGHT FIXTURES TO SUIT INDICATED LAYOUT, EXTEND CONDUIT AND WIRING AS REQUIRED AND NEW TO COMPLY WITH CODE REQUIREMENTS.

EXIT LIGHTS:

- ADD/REMOVE EXISTING EXIT LIGHTS TO SUIT FLOOR PLAN LAYOUT.
- IN OPEN AREA ENSURE THE DEVICE HAS 610mm CLEARANCE FROM ANY SPRINKLER HEAD.

FIRE ALARM NOTES:

- PROVIDE NEW CIRCUITS AS REQUIRED FOR ALARME AND ALARM CIRCUITS.
- TEST FINAL INSTALLATION AND PROVIDE VERIFICATION OF FIRE ALARM SYSTEMS IN ACCORDANCE WITH CAN/ULC S537 LATEST EDITION. VERIFICATION REPORT SHALL INCLUDE MEASURED dB LEVELS.

POWER NOTES:

- ENSURE EXISTING REMAINING OUTLETS IN AFFECTED AREA ARE FUNCTIONAL.
- DO NOT REMOVE WALL OUTLETS BACK TO BACK, LEAVE UNMANNED ROOM SPACE BETWEEN OUTLETS. STAGGER OUTLETS WHEN ALTERNATE STUD CAVITIES. DO NOT ANCHOR BACK TO BACK OUTLETS TO THE SAME STUD.

COLOR CODING:

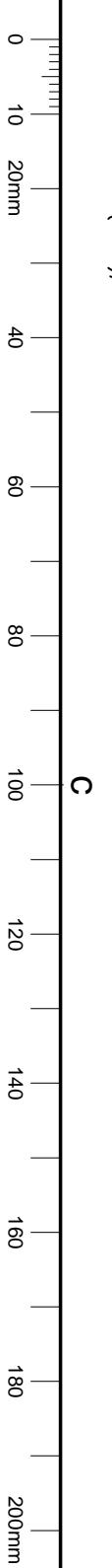
- APPLICABLE TO NEW OR RELOCATED WORK UNLESS OTHERWISE NOTED.
- TO COMPLY TO CLIENT'S BUILDING COLOR SYSTEM
 - CONDUIT CODE CONDUITS AND BOXES.
 - CODE WITH PLASTIC TAPE OR PAINT WHERE CONDUITS ENTER WALLS, CEILING, OR FLOOR AND AT 3 METERS INTERVALS.
 - CONDUITS: 25mm WIRE PINKIE COLOUR AND 20mm WIRE AUXILIARY COLOUR.

SERVICE	WIRE COLOR	AUXILIARY COLOR
UP TO 250V	BLUE	
UP TO 600V	YELLOW	
TELECOMMUNICATION	GREEN	
FIRE ALARM	RED	

project	project
VETEV - ACCUMULATION CELLS	VETEV - ACCUMULATION CELLS
2 HOUR FIRE SEPERATION	2 HOUR FIRE SEPERATION
335 RIVER RD, OTTAWA, ONTARIO	335 RIVER RD, OTTAWA, ONTARIO

DRAWING LIST, SYMBOL LEGEND AND ELECTRICAL SPECIFICATIONS

Designed By	Conçu par
Date	(yyyy/mm/dd)
Drawn By	Designé par
Date	(yyyy/mm/dd)
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Tender	Submission
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Project no.	No. du projet
KAA22-13-0088	
Drawing no.	No. du dessin
E1	



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

no.	description	date
1	ISSUED FOR TENDER	06/11/13
2	98% REVIEW	30/08/13

A	A
B	B
C	C

project: VETEV - ACCUMULATION CELLS
2 HOUR FIRE SEPERATION

335 RIVER RD. OTTAWA, ONTARIO

LIGHTING AND FIRE ALARM ALARM DEMOLITION AND NEW WORK

Designed By	Compu par
Date	(yyyy/mm/dd)
Drawn By	Designé par
Date	(yyyy/mm/dd)
Reviewed By	Examiné par
Date	(yyyy/mm/dd)
Approved By	Approuvé par
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Project no.	No. du projet
K4A22-13-0088	
Drawing no.	No. du dessin
E2	



1
E2
1:100
LIGHTING & FIRE ALARM
DEMOLITION WORK

2
E2
1:100
LIGHTING & FIRE ALARM
NEW WORK

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	QTY	LAMPS PER FIXTURE	VOLT	WARRANTY	REMARKS
A	EXISTING 244mm OPEN INDUSTRIAL FLUORESCENT FIXTURE C/W UPRIGHT REFLECTOR SUSPENDED ON CHAINS OR CEILING MOUNTED AS REQUIRED	CR FT248T	4 TB	32	347V	SUSPENDED	-
B	NEW 1219mm OPEN INDUSTRIAL TUBEST STYLE FLUORESCENT FIXTURE C/W UPRIGHT REFLECTOR SUSPENDED ON CHAINS		2 TB	32	347V	SUSPENDED	MATCH SUSPENSION HEIGHT OF EXISTING TYPE 'A'. ALLOW FOR MINIMUM 1219mm CHAIN

NOTES:
1. ALL NEW LAMPS SHALL HAVE MINIMUM 8000 HOUR LIFE.
2. ALL EXISTING LAMPS SHALL BE REMOVED ON 22% THICK COPPERWIRE MESH OR 25.4mm DIA. MESH WITH INTERIOR DESIGNER AND CLIENT.

DRAWING NOTES

- TYPICAL: DISCONNECT AND RELOCATE EXISTING 244mm FLUORESCENT FIXTURE TO MAKE WAY FOR NEW FIRE RATED PARTITION.
- TYPICAL: DISCONNECT AND RELOCATE EXISTING EXIT SIGN C/W SURFACE MOUNTED CONDUIT ABOVE EXISTING DOOR TRANSOM.
- TYPICAL: NEW 1219mm FLUORESCENT FIXTURE AND CONNECT NEW FIXTURES TO EXISTING CIRCUIT AND CONTROLS FEEDING THE AREA.
- TYPICAL: NEW FIRE ALARM HORN AND CONNECT TO EXISTING CIRCUIT FEEDING THE AREA.
- RE-WIRE EXISTING FIXTURE AS UNSWITCHED EMERGENCY FIXTURE.
- REVERSE LOCATION OF FIRE ALARM WIRE-HORN C/W SURFACE MOUNTED CONDUIT TO MAKE WAY FOR NEW FIRE RATED PARTITION.

