

CITY OF TORONTO
INTERIOR OFFICE ALTERATIONS FOR PARAMEDIC SERVICES

430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

DRAWING LIST

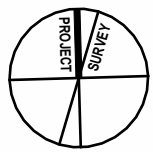
SHEET	ARCHITECTURAL DRAWINGS
A0.01	COVER PAGE
A1.01	GENERAL NOTES, LEGENDS, SCHEDULES, SECTION DETAILS, SITE LOCATION & INTERIOR VIEWS
A1.02	KEY PLAN & DEMOLITION PLAN & NOTES
A1.03	PROPOSED FLOOR PLAN AND REFLECTED CEILING PLAN
A2.01	INTERIOR ELEVATIONS, SECTIONS, SCHEDULES



SHEET	ELECTRICAL DRAWINGS
E-001	LEGEND AND DRAWINGS LIST
E-002	SPECIFICATIONS
E-200	LIGHTING
E-300	POWER AND SYSTEMS 1/2
E-301	POWER AND SYSTEMS 2/2



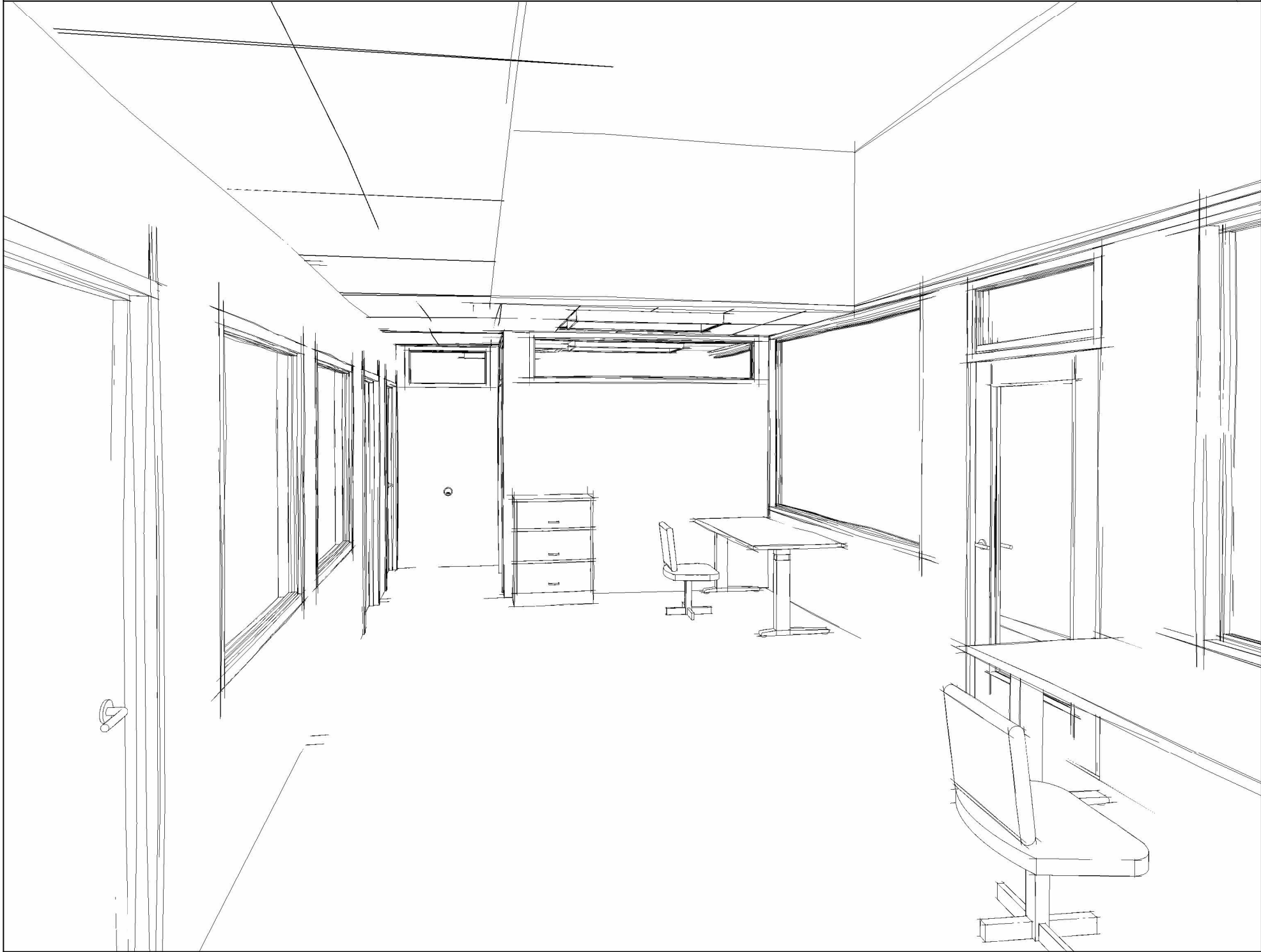
SHEET	MECHANICAL DRAWINGS
M-010	SPECIFICATIONS, LEGEND AND DRAWINGS LIST
M-300	DUCTWORK



430 DUFFERIN STREET, TORONTO

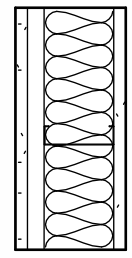
SITE LOCATION

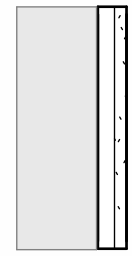
INTERIOR VIEWS



PARTITION SCHEDULE

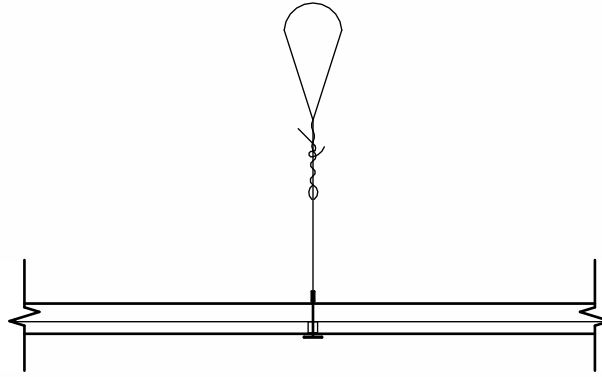
ALL NEW PARTITIONS GYPSUM BOARD TO EXTEND TO UNDERSIDE OF NEW CEILING (+/- 2653).

- 

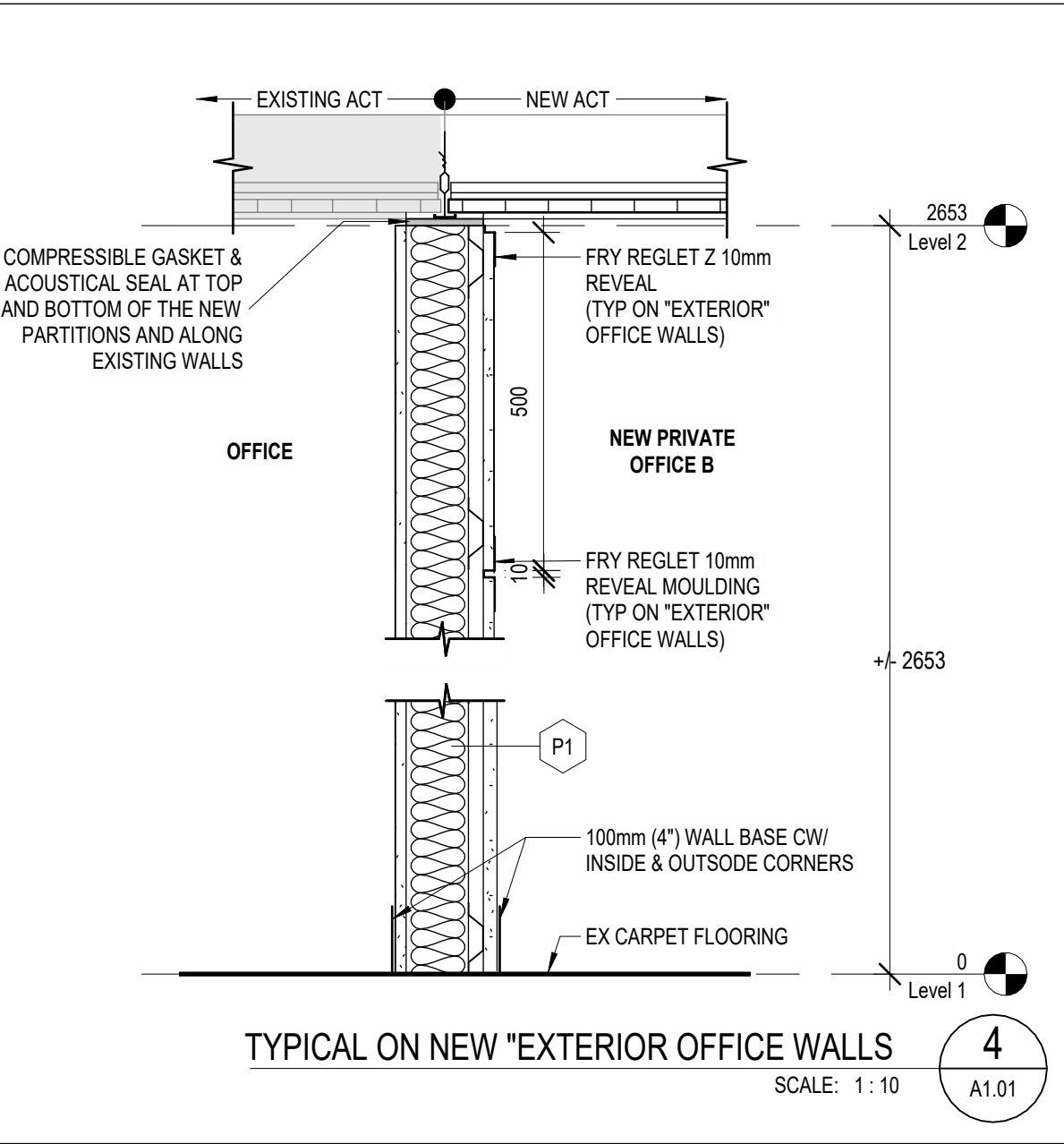
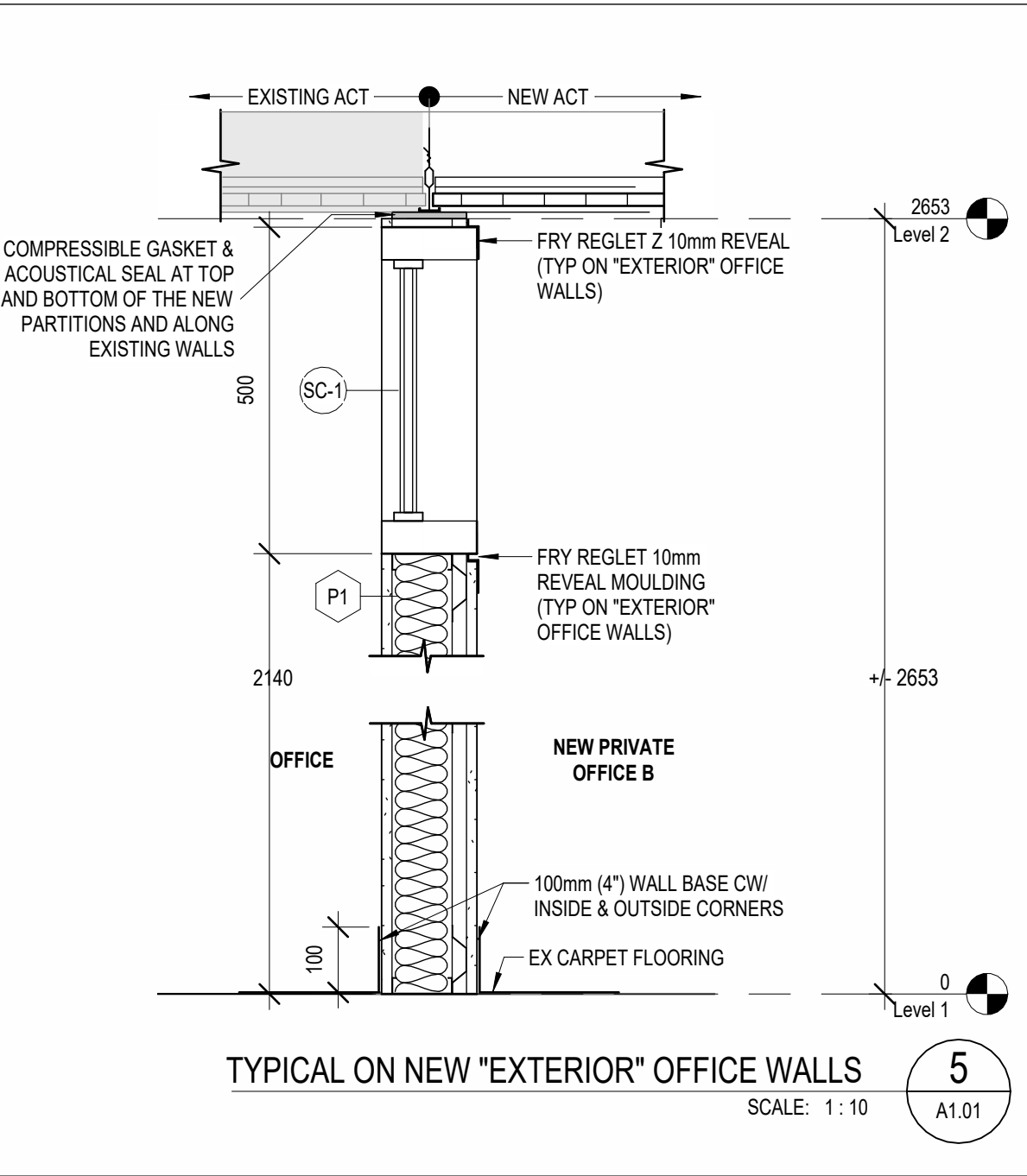
P1
STC 50
15.9mm GYPSUM BOARD
22mm FURRING CHANNELS @ 400mm O.C.
92mm STEEL STUDS @ 610mm O.C.
89mm BATT INSULATION
15.9mm GYPSUM BOARD
- 

P2
EXISTING WALL
22mm FURRING CHANNELS @ 400mm O.C.
15.9mm GYPSUM BOARD


CEILING SCHEDULE

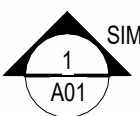
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
ACT1
XXX
• 610 x 1220 ACOUSTIC CEILING TILES

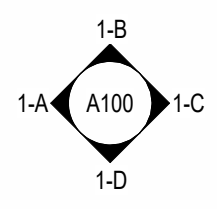



SYMBOL LEGEND


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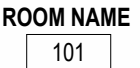
0
STRUCTURAL GRID
- 


1
A01
SECTION REFERENCE
- 


1
A100
DETAIL REFERENCE
- 

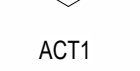
1-A
A100
1-C
1-D
INTERIOR ELEVATION REFERENCE
- 


EL
SPOT ELEVATION
- 


?
DEMOLITION / CONSTRUCTION TAG
- 


ROOM NAME
101
ROOM TAG
- 


SD
DOOR TAG
- 

P1
WALL TAG
- 

ACT1
XXX
CEILING TAG
- 

W1
WINDOW / SCREEN TAG
- 

TI
FLOOR TAG
- 

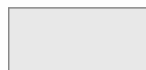
R1
ROOF TAG
- 

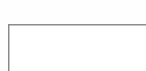
REVISION TAG


ABBREVIATION LEGEND


- STANDARDS
- A.F.F. ABOVE FINISHED FLOOR
C/W COMPLETE WITH
DN DOWN
EL. ELEVATION
EX. EXISTING
EXP. EXPOSED
FIN. FINISHED
FTG. FOOTING
G.C. GENERAL CONTRACTOR
GL. GRID LINE
G/R. GUARDRAIL
H/R. HANDRAIL
H.D.G. HOT DIPPED GALVANIZED
N.I.C. NOT IN CONTRACT
N.T.S. NOT TO SCALE
SIM. SIMILAR
STRU. STRUCTURE
TJ. TOP OF
TYP. TYPICAL
UBS. UNDERSIDE
NIC. NOT INCLUDED
- MATERIAL
- ACT. ACOUSTICAL CEILING TILE
CAR. CARPET
CMU. CONCRETE MASONRY UNIT
CONC. CONCRETE
GB. GYPSUM BOARD
GW. GEORGIAN WIRE
HM. HOLLOW METAL
INT. INTEGRAL
PT. PAINT
RB. RUBBER BASE
SC. SOLID CORE
SHT. SHEET
S.S. STAINLESS STEEL
ST. STAIN
TG. TEMPERED GLASS
VCT. VINYL COMPOSITE TILE
SU. DOUBLED GLAZED SEALED UNIT


DRAWING LEGEND

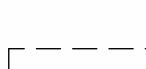
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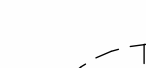
EXISTING
- 

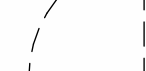
AREA OF WORK
- 


GYPSUM BOARD PARTITIONS
- 

BATT INSULATION
- 

EXISTING WALL TO REMAIN
- 

EXISTING TO BE DEMOLISHED
- 

DOORS TO BE DEMOLISHED
- 

EXISTING DOORS TO REMAIN
- 

NEW DOORS

GENERAL NOTES & SPECIFICATIONS

THE PROJECT SCOPE INCLUDES PARTIAL INTERIOR RENOVATION OF THE EXISTING OFFICE AT 430 DUFFERIN STREET, TORONTO , ON AS REQUIRED TO PROVIDE TWO PRIVATE OFFICES.

THE APPROX. AREA OF WORK IS 65.5 SQ. M.

THE GENERAL CONTRACTOR SHALL MAINTAIN AT ALL TIMES DURING CONSTRUCTION A MINIMUM OF TWO PATHS OF EXIT, AND SHALL CONDUCT CONSTRUCTION IN A MANNER SUCH THAT THERE ARE MINIMAL TO NO DISTURBANCE TO THE DAY-TO-DAY OPERATION OF THE BUILDING AND SURROUNDING AREAS.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL, PROVINCIAL AND FEDERAL CONSTRUCTION AND BUILDING CODES, THE NATIONAL FIRE CODE, THE OCCUPATIONAL HEALTH AND SAFETY ACT, AND ANY OTHER AUTHORITIES HAVING JURISDICTION.

THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS WITH RESPECT TO CONSTRUCTION PROCEDURES, INSURANCE, SECURITY, BUILDING ACCESS, LIFE SAFETY & FIRE REGULATIONS, SECURITY CLEARANCES OF EMPLOYEES, HOISTING, GARBAGE REMOVAL, ETC., AS SET OUT BY THE CLIENT AND INSTRUCTIONS TO BIDDERS.

THE CONTRACTOR SHALL READ THE DRAWINGS PROVIDED IN CONJUNCTION WITH SPECIFICATIONS & INSTRUCTIONS ON THE BID DOCUMENTS. ANY DISCREPANCIES OR OMISSIONS ON ANY DRAWINGS OR SPECIFICATIONS ARE TO BE REPORTED TO THE CONSULTANT PRIOR TO THE COMMENCEMENT OF WORK.

THE GENERAL CONTRACTOR MUST FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS DURING DESIGNATED SITE VISIT DATE OR OTHERWISE OBTAIN INFORMATION REQUIRED TO SUBMIT A FIRM QUOTATION. CONTRACTORS WILL NOT BE ALLOWED TO VISIT THE SITE PRIOR TO OR AFTER THE DESIGNATED SITE VISIT DATE.

ALL DIMENSIONS ARE CLEAR UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION AND REPORT DISCREPANCIES TO CONSULTANT PRIOR TO MAKING MODIFICATIONS TO SUIT EXISTING SITE CONDITIONS.

ALL MATERIALS SPECIFIED ARE TO BE INSTALLED, FINISHED & SEALED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS & SPECIFICATIONS WHILE MAINTAINING FIRE SEPARATIONS.

ALL MATERIALS SHALL BE AS SPECIFIED. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM ARCHITECT FOR ANY MATERIAL OR FINISH SUBSTITUTES OR ALTERNATIVES.

ALL MATERIALS AS SUPPLIED AND INSTALLED IN THIS PROJECT MUST MEET THE SMOKE/FLAME SPREAD RATING AS SPECIFIED IN THE BUILDING CODE.

THE CONTRACTOR SHALL ENSURE ALL WORK AREAS ARE SEALED AGAINST DUST & SECURED WITH SAFETY WALLS/BOARDING. DAMAGES TO EXISTING MATERIALS, WINDOWS, FURNISHINGS, EQUIPMENT, BASE BUILDING FINISHES WITHIN AND OUTSIDE THE "AREA OF WORK" WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR TO REPLACE WITHOUT ADDITIONAL COSTS.

THE "AREA OF WORK" IS DEFINED AS THE IMMEDIATE AREAS WHERE DEMOLITION AND NEW CONSTRUCTION OCCURS BUT MAY NOT BE COMPLETELY LIMITED TO THE AREA DEFINED WITHIN.

THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ANY MATERIALS REASONABLY IMPLIED AND NECESSARY FOR COMPLETION OF WORK WITH NO ADDITIONAL COSTS UNDER HIS OR HER CONTRACT.

TO MINIMIZE DUST TRAVEL, ALL SUPPLY AIR DIFFUSERS & EXHAUST AIR GRILLED TO BE SEALED IN AREAS OF DEMOLITION AND CONSTRUCTION.

THE CONTRACTOR SHALL PATCH AND REPAIR AND/OR SKIM COAT AT DAMAGES, PUNCTURES, AND OTHER IRREGULARITIES ON EXISTING WALLS, FLOORS, AND CEILINGS, WHERE DAMAGES ARE EXISTING OR CAUSED BY DEMOLITION. THE CONTRACTOR SHALL ENSURE A SMOOTH AND EVEN SURFACE TO THE SATISFACTION OF THE ARCHITECT, IN PREPARATION FOR NEW FINISH APPLICATIONS AS SPECIFIED.

THE CONTRACTOR IS TO COORDINATE ANY BUILDING SERVICES SHUTOFF WITH THE OWNER AT LEAST 48 HOURS IN ADVANCE TO WORK COMMENCING.

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN ALL SHORING AND TEMPORARY BRACING AS PER O. REG 213/91 AND THE CONTRACTOR SHALL RETAIN AN ENGINEER AS REQUIRED.

DEMOLITION

FOR THE FULL SCOPE OF WORK, REVIEW DEMOLITION PLAN, ELECTRICAL AND MECHANICAL DESIGN, AND REMOVE EXISTING ACOUSTICAL CEILING TILES AND GRID IN AREA OF TWO NEW OFFICES.

PARTIALLY REMOVE EXISTING CARPET IN NEW OFFICE AREA AND USE IT TO REPLACE WORN OUT AREAS IN THE OPEN OFFICE.

COORDINATE WITH LOCATION OF NEW PARTITIONS.

REMOVE EXISTING HOLLOW METAL SCREEN AND INFILL OPENING WITH MATERIALS TO MATCH EXISTING, INCLUDING BATT INSULATION. PREPARE AREA FOR NEW HOLLOW METAL SCREEN.

REMOVE EXISTING WOOD WALL PANEL AS INDICATED AND MODIFY IT AS REQUIRED FOR NEW WALL INSTALLATION.

NEW CONSTRUCTION

THE NEW CONSTRUCTION SCOPE INCLUDES ADDING FURRING CHANNELS AND A LAYER OF GYPSUM BOARD TO THE EXISTING OFFICE 5 WALL ADJACENT TO THE NEW OFFICE. BUILD NEW OFFICES AS NOTED ON THE PROPOSED PLANS, INCLUDING NEW HOLLOW METALS SCREENS WITH DOUBLE-GLAZED SEALED UNITS AND INSULATED WOOD DOORS. PAINT TO MATCH EXISTING.

NEW WALL BASE TO BE 100 MM STAINLESS STEEL SS304 BY INPRO CORP OR APPROVED EQUAL, C/W INSIDE AND OUTSIDE CORNERS AND TO MATCH EXISTING.

PRIME AND PREPARE FOR PAINTING ALL NEW SURFACES, INCLUDING WALLS, FRAMES AND DOORS. MAKE GOOD ALL EXISTING ADJACENT SURFACES.

IN TWO NEW OFFICES, PREPARE EXISTING SLAB FOR NEW CARPET TILE FLOORING. CARPET TILES TO BE INTERFACE STYLE: 1380102500, PATTERN TO MATCH EXISTING OFFICES.

INSTALL NEW SCREEN BACKING IN ROOM C311 AS DETAILS ON A1.02, PAINT INSTALLED PLYWOOD TO MATCH EXISTING WALL PAINT.

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0	ISSUED FOR PERMIT/TENDER	2025/04/07
No.	DESCRIPTION	DATE

REVISIONS



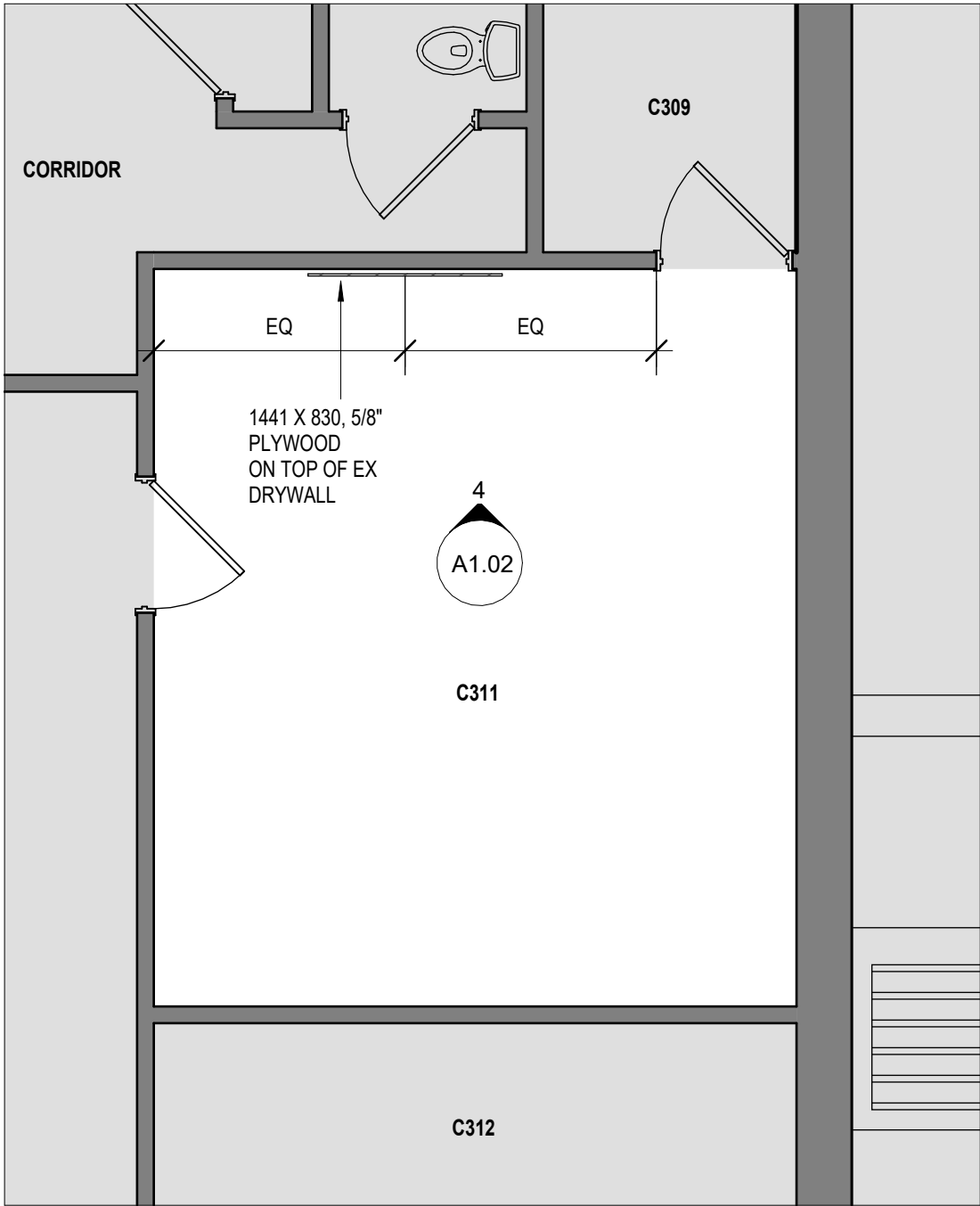
CITY OF TORONTO

INTERIOR OFFICE ALTERATIONS FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

Drawing title:
GENERAL NOTES, LEGENDS,
SCHEDULES, SECTION DETAILS,
SITE LOCATION & INTERIOR
VIEWS

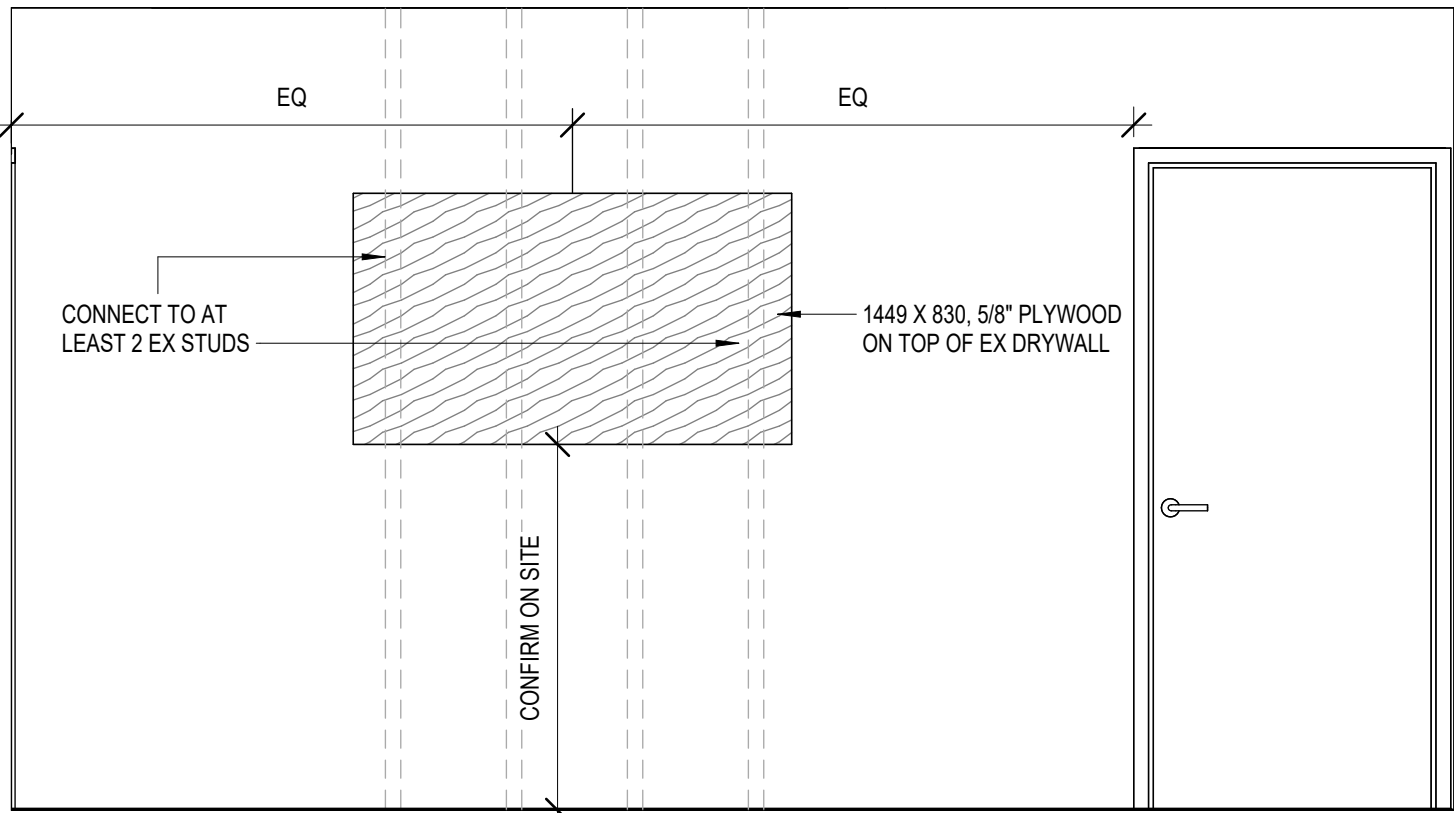
drawn:	scale:
RMC	As indicated
date:	project number:
02/07/25	25-06

checked:	DRAWING NO.	
AJ	A1.01	0
date:		Revision
03/2025		



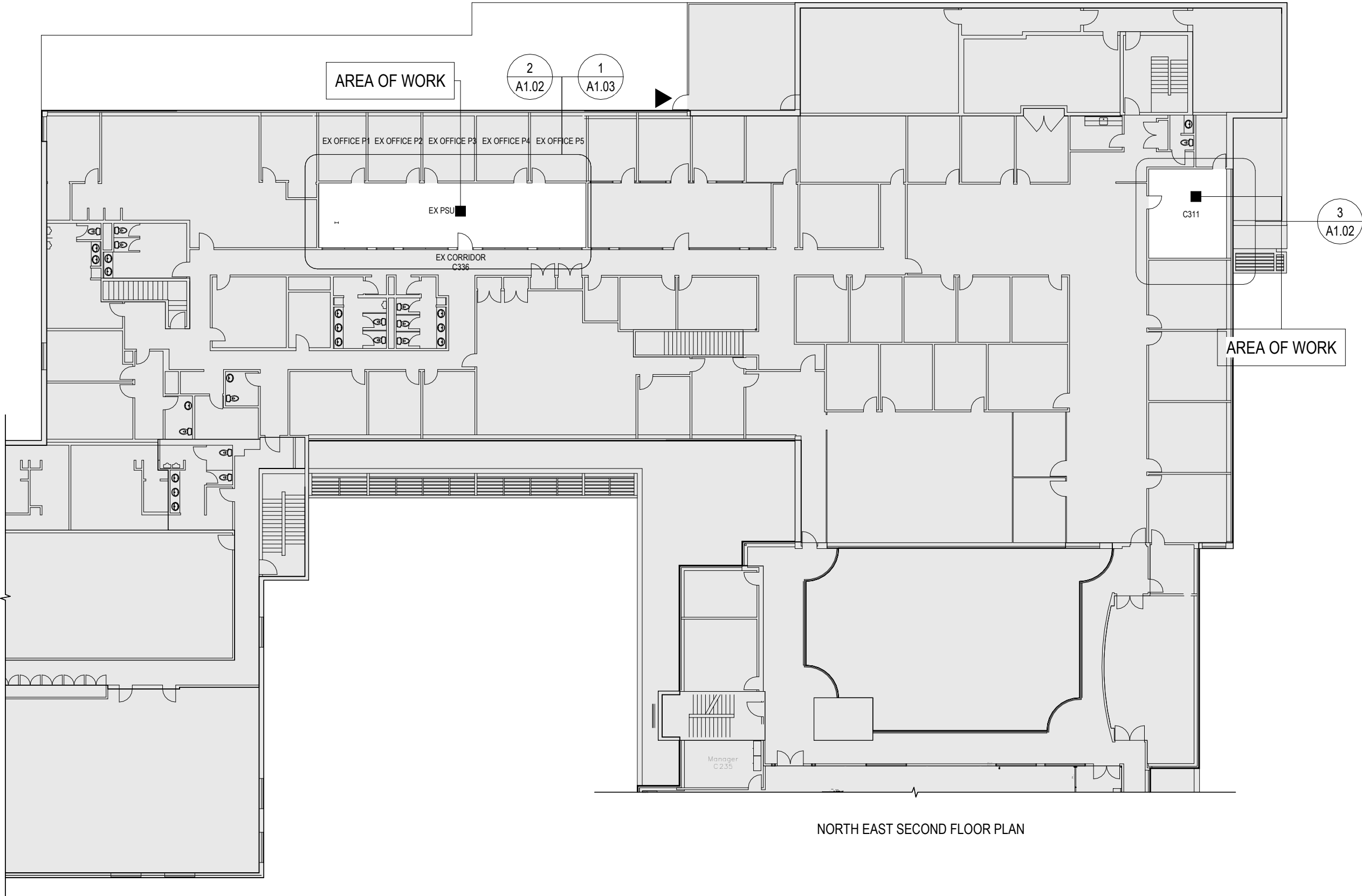
ROOM 311
SCALE: 1 : 50

3
A1.02



WALL BACK BOARD FOR TV
SCALE: 1 : 25

4
A1.02



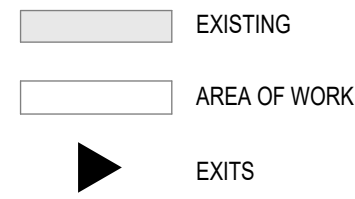
KEY PLAN
SCALE: 1 : 250

1
A1.02

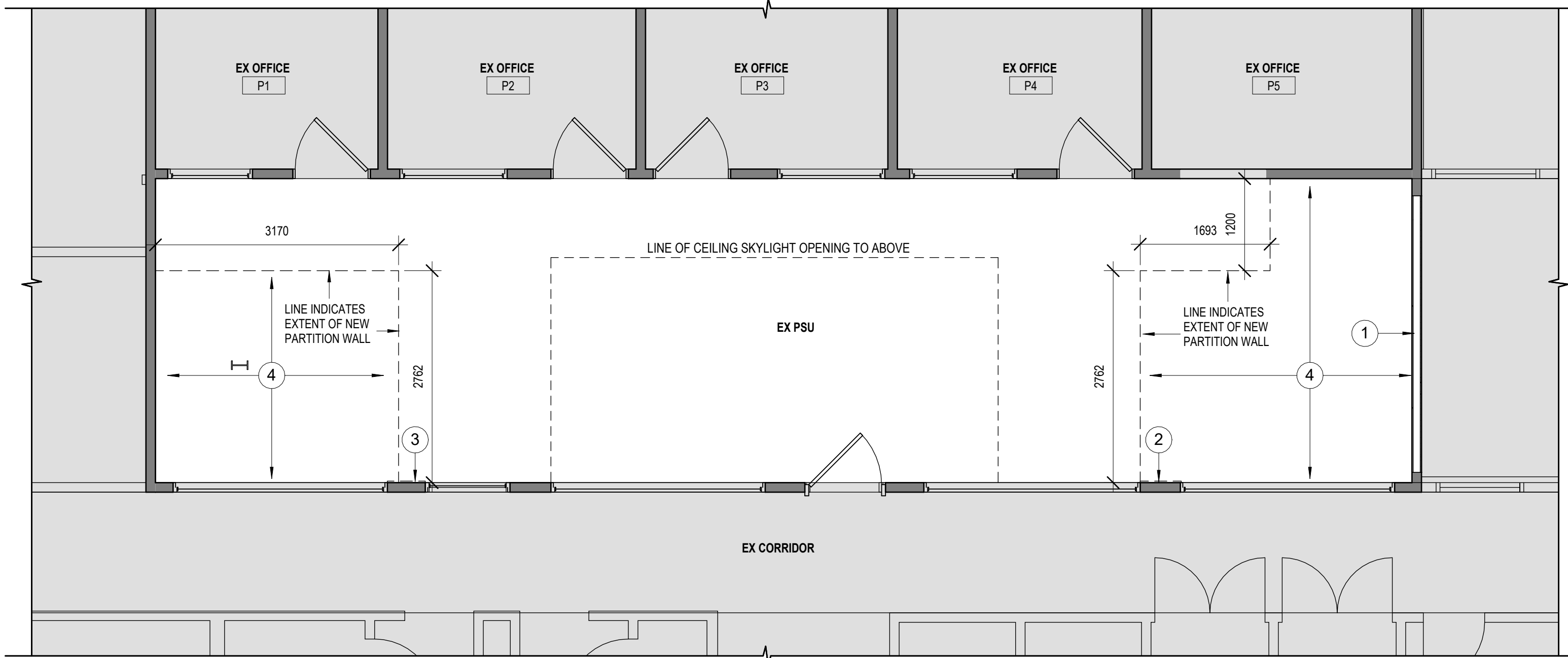
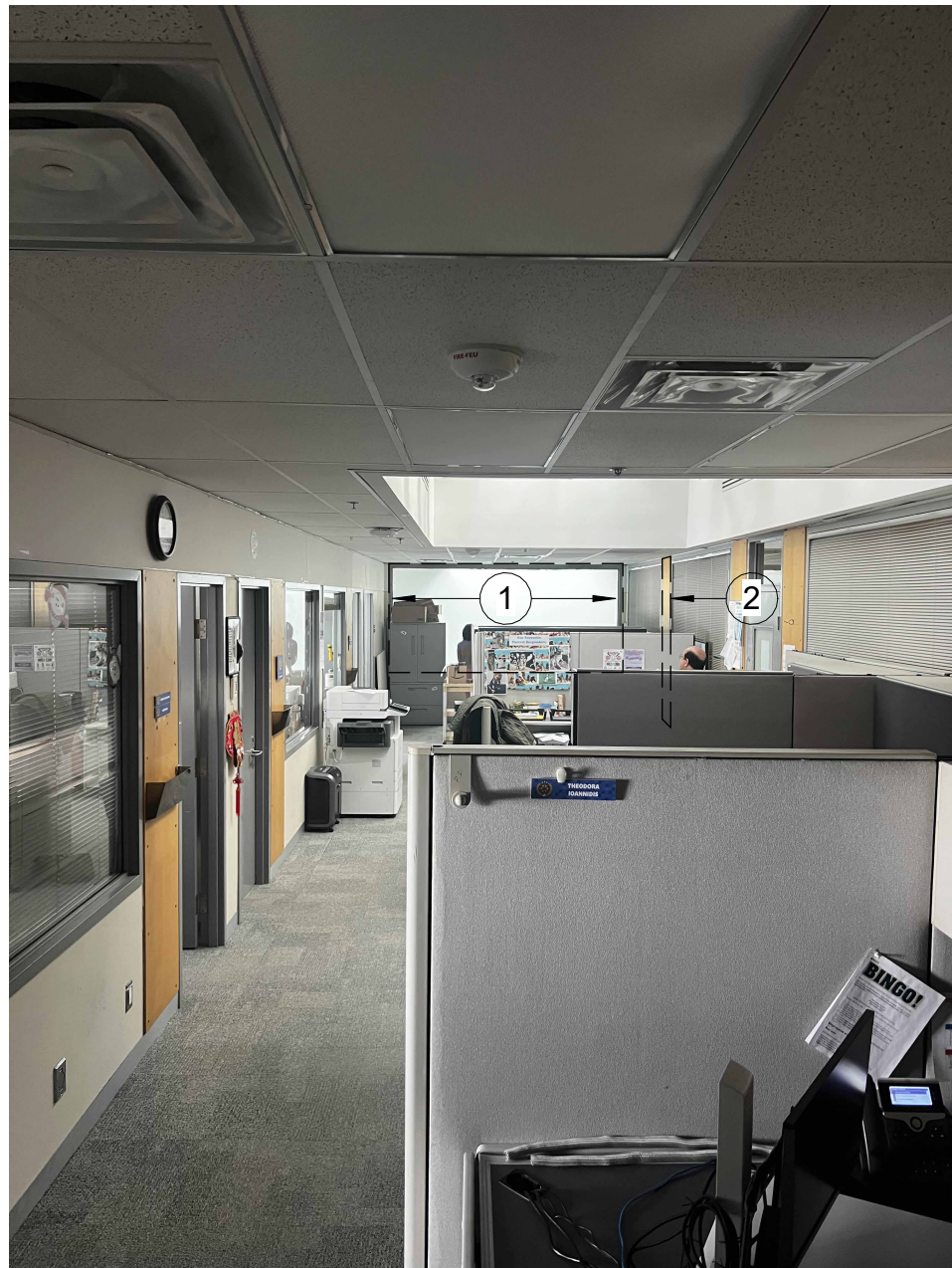
DEMOLITION NOTES

NUMBER	DESCRIPTION
1	REMOVE EXISTING 1850mm HIGHT SCREEN CW/ EX HM FRAME AND PREPARE FOR NEW CONSTRUCTION.
2	COMPLETELY REMOVE EXISTING WOOD PANELS. PATCH AND PAINT ADJACENT AREAS AFFECTED.
3	REMOVE AND MODIFY EXISTING PANEL AS REQUIRED FOR THE NEW PARTITION.
4	REMOVE EXISTING CARPET TILES, ACT AND GRID IN THE AREA OF NEW OFFICES. COORDINATE WITH LOCATIONS OF NEW PARTITIONS

KEYPLAN LEGEND



EXISTING PHOTOS



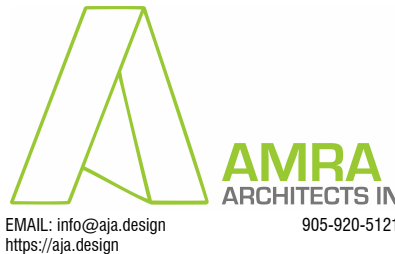
DEMOLITION PLAN
SCALE: 1 : 50

2
A1.02

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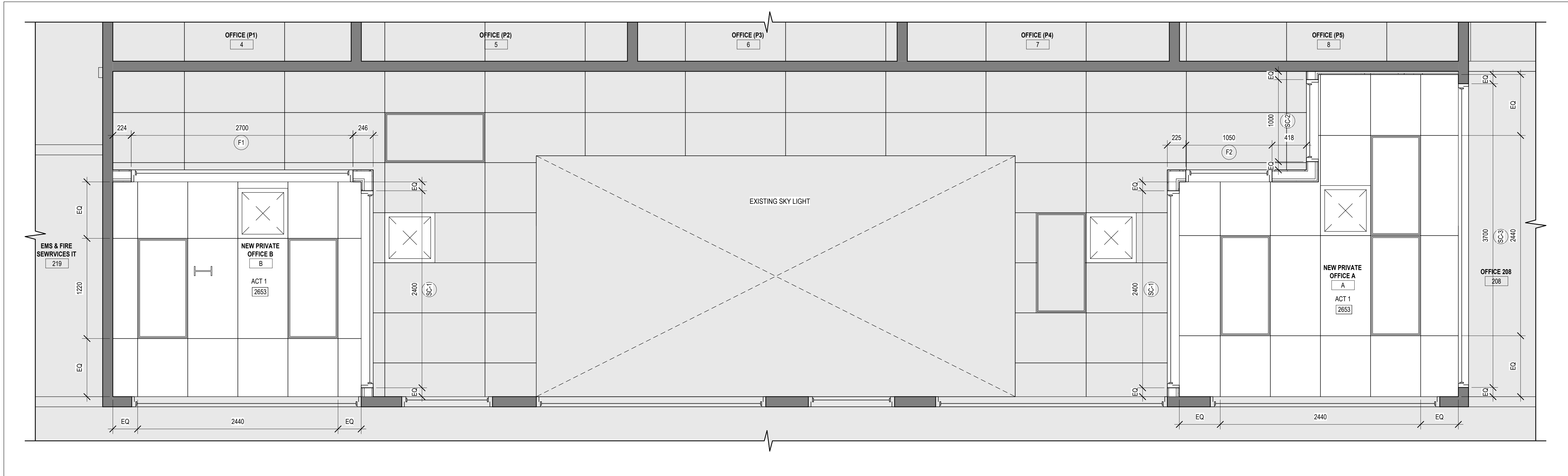
REVISIONS



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430 DUFFERIN STREET,
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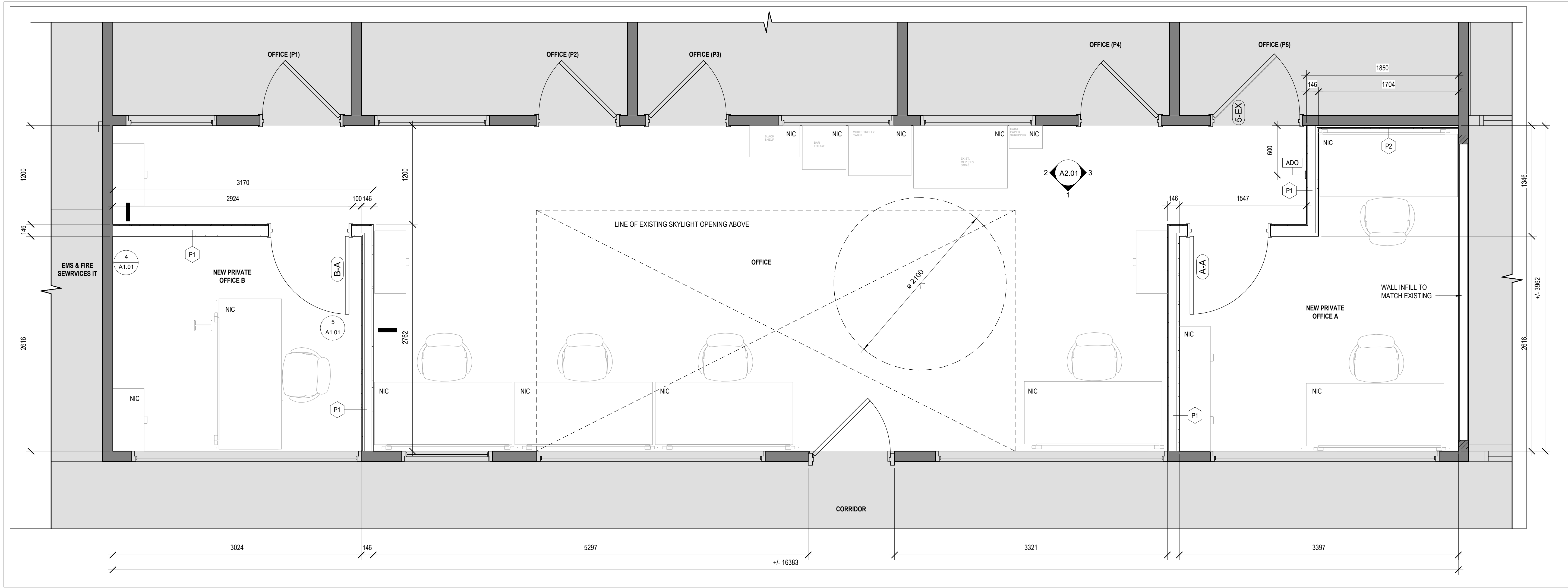
drawing title:
KEY PLAN & DEMOLITION PLAN &
NOTES

drawn: RMC	scale: As indicated
date: 03/06/25	project number: 25-06
checked: AJ	DRAWING NO: A1.02
date: 03/2025	Revision: 0



PROPOSED REFLECTED CEILING PLAN
SCALE: 1 : 25

2
A1.03



PROPOSED FLOORPLAN
SCALE: 1 : 25

1
A1.03

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REVISIONS



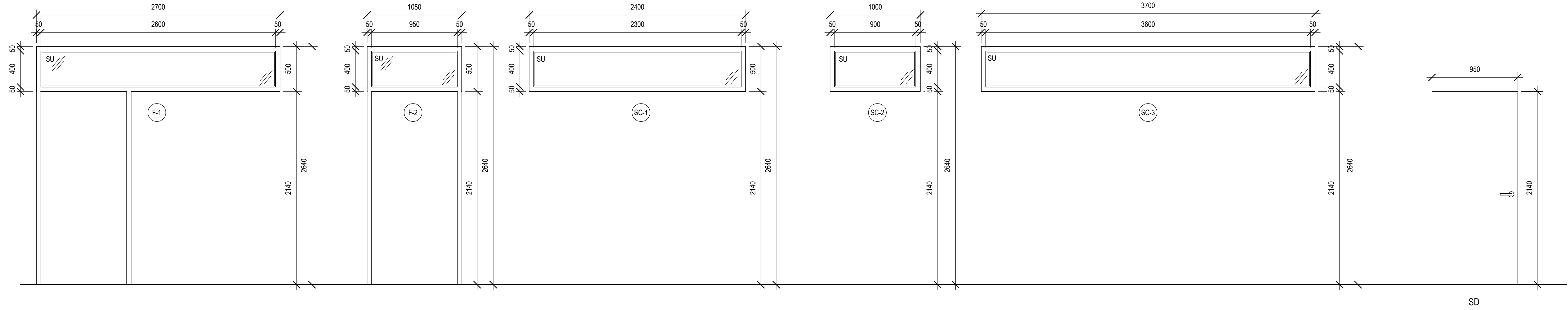
Project Title:
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430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

Drawing Title:
PROPOSED FLOOR PLAN AND
REFLECTED CEILING PLAN

drawn: Author date: 03/06/25	scale: 1 : 25 project number: 25-06
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checked: Checker date: 03/2025	DRAWING NO: A1.03	0
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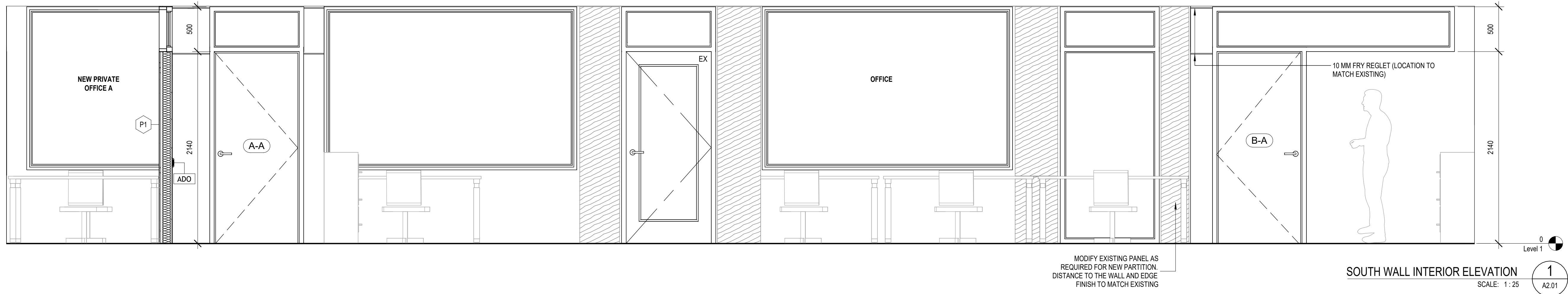
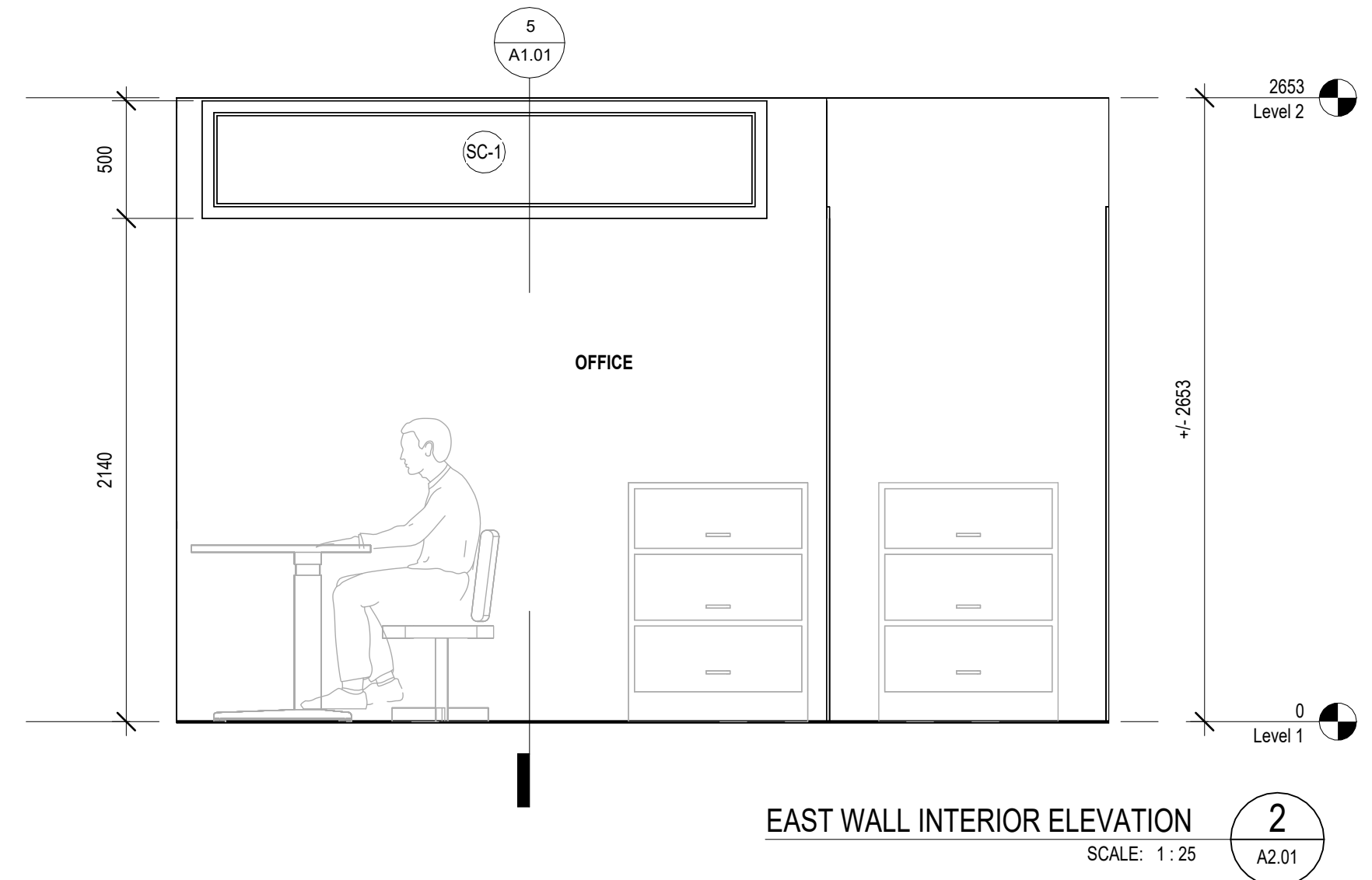
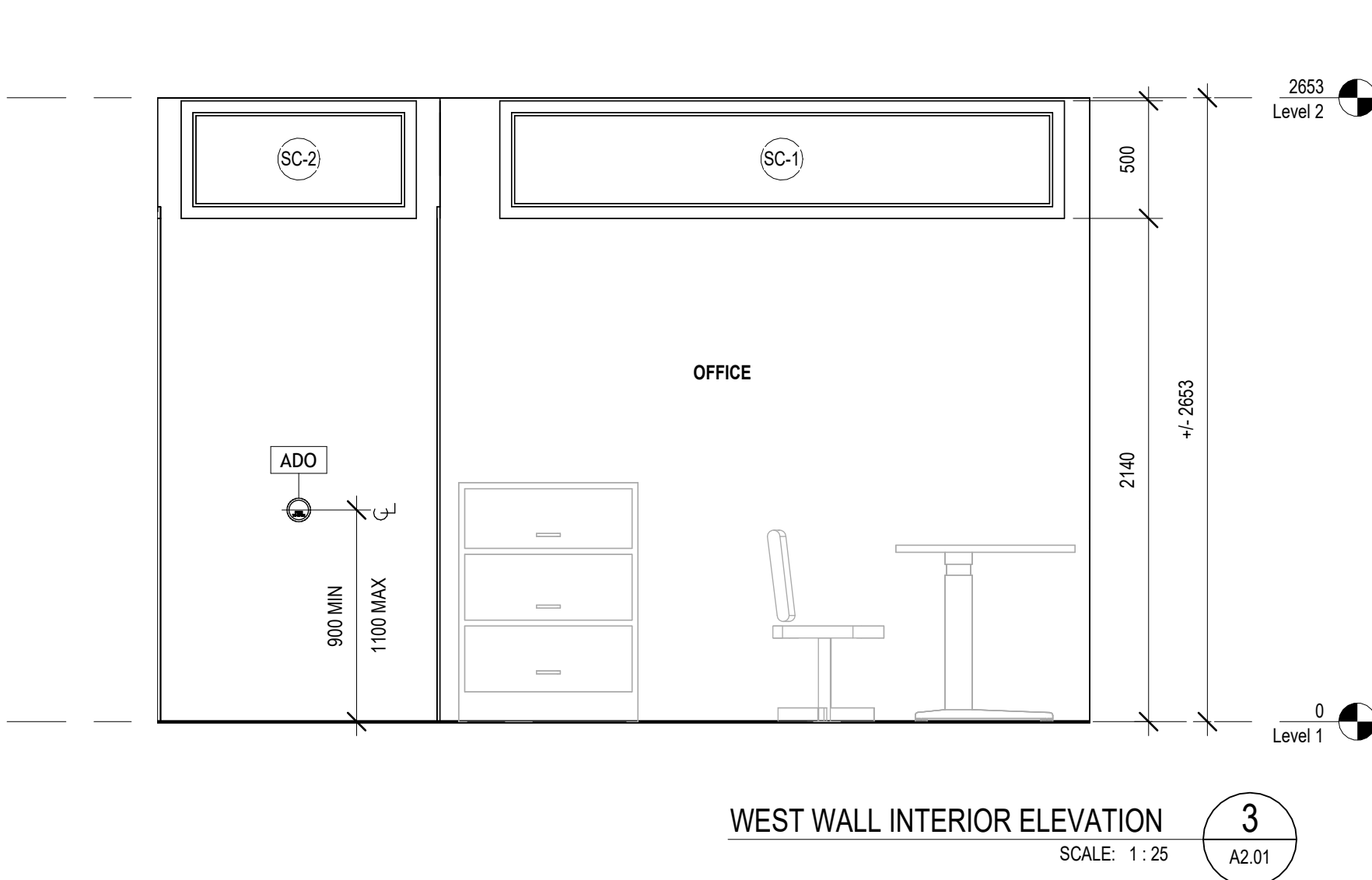
Revision



DOOR, FRAME, & SCREEN TYPE

DOOR SCHEDULE												
DOOR NAME	TYPE	DOOR					FRAME					COMMENTS
		WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	GLAZING	F.F.R. (MIN)	
5-EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-		ADD POWER DOOR OPERATOR TO THE EXISTING DOOR
A-A	D	950	2140	45	WD	PTD	F2	HM	PTD	SU		
B-A	D	950	2140	45	WD	PTD	F1	HM	PTD	SU		

ROOM FINISH SCHEDULE							
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING		COMMENTS
					FINISH	HEIGHT	
A	NEW PRIVATE OFFICE A	CARPET TILES	AL	PTD	ACT	+/-2653	INTERFACE STYLE: 1380102500
B	NEW PRIVATE OFFICE B	CARPET TILES	AL	PTD	ACT	+/-2653	INTERFACE STYLE: 1380102500
C	OFFICE	EX CARPET	EXAL	PTD	EX SKYLIGHT/ ACT	+/-2653	TOUCH UP PAINT EXISTING WALLS DAMAGED DURING NEW CONSTRUCTION





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No.	DESCRIPTION	DATE

REVISIONS

SEAL: 

 **Toronto**

 **AMRA J ARCHITECTS INC.**
EMAIL: info@aja.design
https://aja.design

project title:
CITY OF TORONTO
INTERIOR OFFICE ALTERATIONS FOR PARAMEDIC SERVICES
430 DUFFERIN STREET, TORONTO, ON, M6K 2A3

drawing title:
INTERIOR ELEVATIONS, SECTIONS, SCHEDULES

drawn: RMC	scale: 1 : 25
date: 02/10/25	project number: 25-06
checked: AJ	DRAWING NO: A2.01
date: 03/2025	0

Revision

SPECIFICATIONS

GENERAL

1. CODES AND REGULATIONS
ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE BUILDING CODE, C.S.A. STANDARDS, UNDERWRITERS' LABORATORIES, ALL CODES AND REGULATIONS BY THE AUTHORITIES HAVING JURISDICTION. THESE CODES AND REGULATIONS CONSTITUTE AN INTEGRAL PART OF THE SPECIFICATIONS.

2. SITE VISIT
2.1. MAKE SITE VISITS AS NECESSARY BEFORE THE TENDER TO ESTABLISH THE EXISTING SITE CONDITIONS. MAKE ALLOWANCE FOR RELOCATION OF EXISTING SERVICES AND EQUIPMENT NECESSARY TO COMPLETE THE WORK AND INCLUDE IN THE TENDER PRICE.
2.2. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO PROPERLY EXAMINE THE EXISTING CONDITIONS.

3. PERMITS AND INSPECTIONS
THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL INSPECTIONS AS REQUIRED.

4. CONTRACT DOCUMENTS
4.1. THE DRAWINGS REPRESENT THE INTENT, SCOPE OF WORK, GENERAL ARRANGEMENT, APPROXIMATE SIZES AND LOCATIONS OF THE EQUIPMENT AND SERVICES.
4.2. THE DETAILS OF CONSTRUCTION WILL BE DETERMINED IN THE PROCESS OF CONSTRUCTION. SUBJECT TO SHOP DRAWING APPROVAL AND VENDOR INFORMATION.
4.3. COORDINATE THE DETAILS OF INSTALLATION WITH THE SITE CONDITIONS AND OTHER TRADES.

5. SHOP DRAWINGS
5.1. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND COMPONENTS SUPPLIED. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE SUB-TRADE AND THE GENERAL CONTRACTOR BEFORE SUBMITTING FOR APPROVAL.
5.2. NO ALTERNATIVES TO THE EQUIPMENT AND MATERIALS SPECIFIED SHALL BE ACCEPTED WITHOUT WRITTEN APPROVAL.

6. RECORD DRAWINGS
KEEP A RECORD SET OF DRAWINGS ON SITE THAT CLEARLY INDICATE ALL CHANGES AND ACTUAL DETAILS OF INSTALLATION. SUBMIT AS-BUILT DRAWINGS WITH ALL THESE CHANGES UPON COMPLETION OF THE PROJECT.

7. WARRANTY
THE CONTRACTOR SHALL PROVIDE WRITTEN ONE-YEAR FOR ALL WORKMANSHIP AND EQUIPMENT SUPPLIED. THE WARRANTY COMMENCES FROM THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE WORK, MATERIALS OR EQUIPMENT AT NO EXTRA COST.

8. EXTRA WORK
8.1. WHERE EXTRA WORK OF ANY KIND IS REQUIRED, OBTAIN WRITTEN INSTRUCTIONS BEFORE PROCEEDING.
8.2. QUOTATION WITH BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. SHALL BE SUBMITTED FOR EACH CHANGE. PAYMENTS WILL BE MADE ONLY FOR AUTHORIZED CHANGES.

SCOPE OF WORK & PROJECT DESCRIPTION

1. ALL WORK AS INDICATED IN DRAWINGS AND SPECIFICATIONS.
2. RELOCATED SUPPLY DIFFUSERS; RETURN GRILLES RELOCATED AND NEW.
3. SPRINKLERS, RELOCATED AND NEW.

EXECUTION

1. WORKMANSHIP
1.1. ALL WORK SHALL BE CARRIED OUT AND PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE DESIGN CONSULTANT. ANY UNSATISFACTORY WORK SHALL BE REPLACED AT NO EXTRA COST TO THE OWNER.
1.2. THE CONSTRUCTION SITE SHALL BE KEPT CLEAN; ANY DEBRIS AND EXTRA CONSTRUCTION MATERIAL SHALL BE REMOVED FROM THE SITE THROUGHOUT THE CONSTRUCTION.

2. SCHEDULING
2.1. COORDINATE WITH OWNER ALL WORK.
2.2. EXECUTE ANY WORK THAT REQUIRES CONNECTION TO EXISTING SERVICES ONLY AS DIRECTED BY THE OWNER. NO WORK SHALL CAUSE INTERRUPTION OF SERVICE TO THE BUILDING.

3. ISOLATION
ALL PIPED FIXTURES AND EQUIPMENT SHALL HAVE ISOLATION VALVES AND BREAKABLE CONNECTIONS SUCH AS UNION OR FLANGE.

4. CUTTING AND PATCHING
ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING STRUCTURE NECESSARY FOR EXECUTION OF THE WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT, UNLESS OTHERWISE ADVISED.

5. LABELING
5.1. IDENTIFY ALL SERVICES; PROVIDE LABEL FOR THE SERVICE AND ARROWS FOR THE FLOW DIRECTION AT EVERY 3 METERS.
5.2. TAG ALL VALVES; PROVIDE HARD SURFACE TAGGING CHART, DISPLAY CHART IN OWNER APPROVED LOCATION.

HVAC

1. DUCTWORK
1.1. FABRICATE AND INSTALL ALL DUCTWORK AS PER SMACNA-"HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 1995".
1.1.1. DUCTWORK TO BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS FOR 2" PRESSURE CLASS, SEAL CLASS "C". ALL TRANSVERSE JOINTS SHALL BE SEALED.
1.1.2. FABRICATE ALL DUCTWORK FROM GALVANIZED STEEL UNLESS NOTED OTHERWISE.

2. ROUND DUCTWORK: ALL ROUND DUCTWORK SHALL BE SPIRO. ALL FITTINGS SHALL BE FACTORY MADE; PIPE AND FITTINGS SHALL BE FROM ONE MANUFACTURER.
2.1. ELBOWS SHALL BE 1.0DIA. RADIUS UNLESS OTHERWISE NOTED.
2.2. ELBOWS UP TO 12"DIA. SHALL BE STAMPED, GORED ELBOWS SHALL BE 5-PIECE.
2.3. BRANCHES OVER 6"DIA. SHALL CONNECT WITH FABRICATED TEES. ROUND DUCTS SHALL CONNECT TO RECTANGULAR WITH BOOT TEES.

3. SUPPORTS: SUPPORT DUCTWORK FROM THE OWJs AT EQUAL INTERVALS AS PER SMACNA STANDARDS
3.1. RECTANGULAR DUCTWORK: 1-5/8" UNISTRUT TRAPEZE, TREADED ROD HANGERS C/W LEVELING AND LOCKING NUT.
3.2. ROUND DUCTWORK: ONE OR TWO-PIECE ROUND BAND CLAMP, ONE OR TWO TREADED ROD HANGERS C/W LEVELING AND LOCKING NUT.

4. TESTING AND BALANCING
4.1. PROVIDE AIR BALANCING FOR THE COMPLETED HVAC SYSTEM WITH THE CONTROLS FULLY FUNCTIONAL.
4.2. SUBMIT BALANCING REPORTS INDICATING THE PARAMETERS OF THE SYSTEMS FOR "DESIGN" AND "AS-TESTED".
4.3. THE REPORT SHALL INCLUDE SYSTEMS DRAWINGS INDICATING THE POINTS OF MEASUREMENT.
4.4. NOTIFY ENGINEER OF ANY DISCREPANCIES GREATER THAN ±10% OF THE DESIGN VALUES PRIOR OF SUBMISSION OF REPORT.

FIRE PROTECTION

1. ALL WORK TO BE DONE BY AN AUTHORISED FIRE PROTECTION CONTRACTOR, MEMBER OF CANADIAN AUTOMATIC SPRINKLER ASSOCIATION. ALL WORK TO BE DONE BY CERTIFIED FIRE PROTECTION INSTALLERS; SUBMIT VALID CERTIFICATES TO THE FIRE MARSHAL.

2. COORDINATE WITH THE LANDLORD ALL WORK. ANY WORK THAT REQUIRES CONNECTION TO EXISTING SERVICES EXECUTE OUT OF THE REGULAR BUSINESS HOURS AS NEEDED. NO WORK SHALL CAUSE INTERRUPTION OF SERVICE.

3. MODIFY EXISTING SPRINKLER SYSTEM AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE ONTARIO BUILDING CODE. REFER TO ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS AND SITE CONDITIONS WHICH MAY AFFECT THIS WORK. NOT ALL REQUIRED SPRINKLER HEADS MAY BE SHOWN. PROVIDE ADDITIONAL SPRINKLER HEADS AS NEEDED.

4. USE ONLY MATERIAL AND EQUIPMENT LISTED BY UNDERWRITERS' LABORATORIES OF CANADA.

5. UNLESS SPECIFIED OTHERWISE USE SCH.40 BLACK STEEL PIPE AND FITTINGS RATED FOR 175PSI. TREADED JOINTS TO 50MM, LISTED NON-SHOCK MECHANICAL COUPLING (VICTAULIC) 65MM AND LARGER. WHEN REUSING EXISTING PIPE VERIFY THAT THE WALL THICKNESS MEETS THE REQUIREMENTS OF NFPA 13.

6. TEST SPRINKLERS IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 25 AND NFPA 13A. PROVIDE ALL REQUIRED HYDRAULIC CALCULATIONS. PROVIDE CERTIFICATE INDICATING THAT SPRINKLER WORK MEETS THE REQUIREMENTS OF THE LOCAL AUTHORITIES AND NFPA 13.

DRAWING LIST

DWG. NO.	DESCRIPTION
M-010	SPECIFICATIONS, LEGEND & DRAWINGS LIST
M-300	DUCTWORK

LEGEND:

	EXISTING WALL-MOUNTED SLOT DIFFUSER
	DIFFUSER TO DEMOLISH
	GRILLE TO DEMOLISH
	EXISTING DIFFUSER TO REMAIN
	EXISTING GRILLE TO REMAIN
	NEW OR RELOCATED DIFFUSER
	NEW GRILLE
	EXISTING SPRINKLER HEAD
	SPRINKLER HEAD TO RELOCATE
	NEW SPRINKLER HEAD
	THERMOSTAT

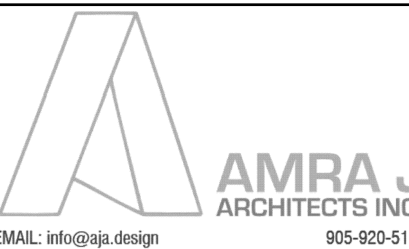
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Zdesign+ Ltd.

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2	PERMIT AND TENDER	04/02/2025
1	FINAL REVIEW	03/21/2025
No.	DESCRIPTION	DATE

SEAL:



project title:
CITY OF TORONTO

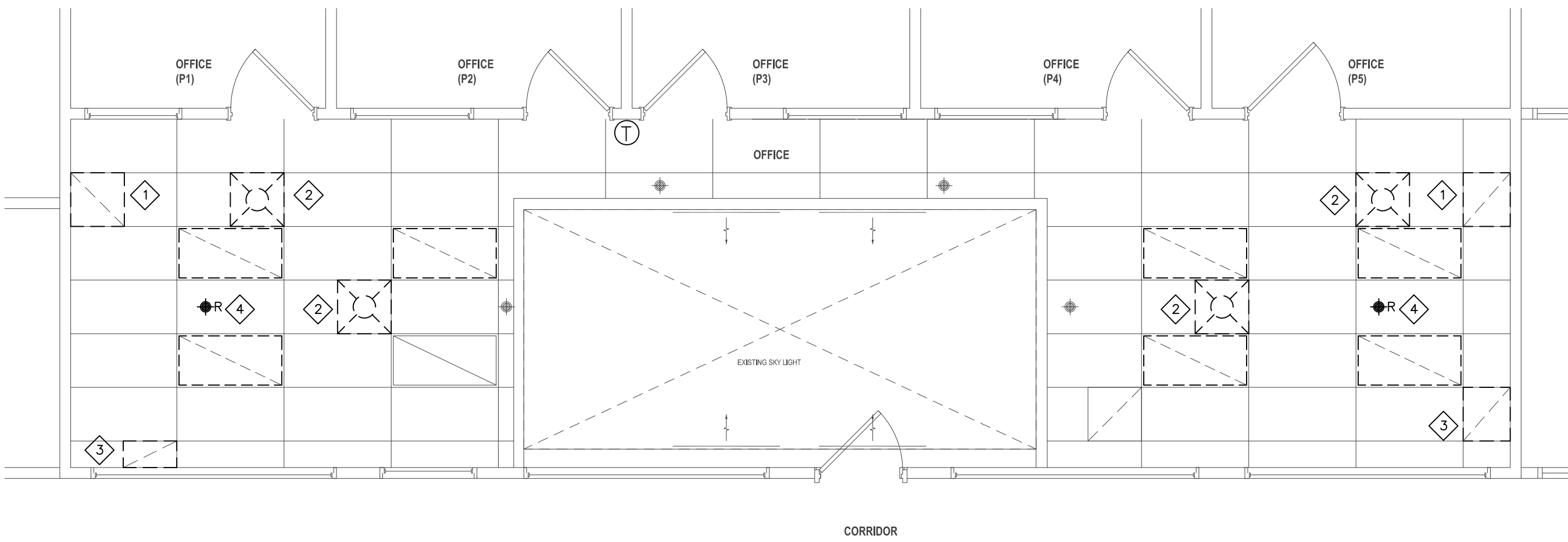
FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

drawing title:

SPECIFICATIONS, LEGEND
AND DRAWINGS LIST

drawn: AV	scale: As indicated
date: 03/17/25	project number: 242510

checked: ZD	DRAWING NO: M-010	Revision A
date: 03/20/25		



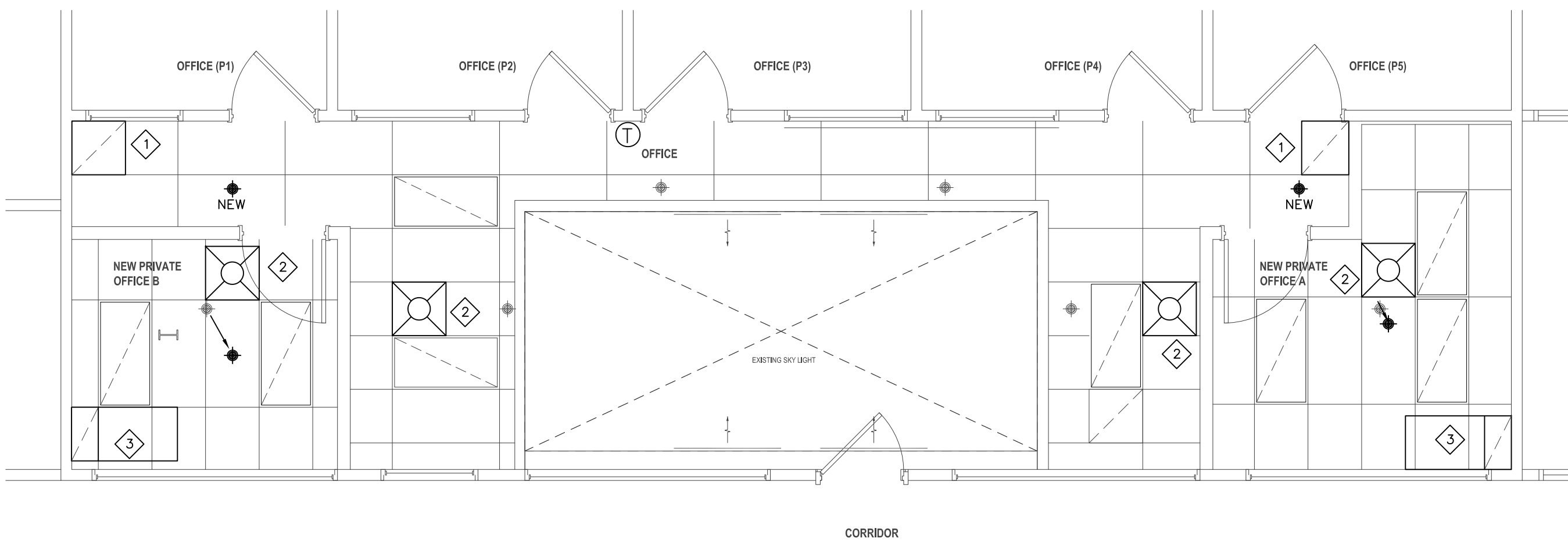
1 DEMOLITION
M-300 1:50

GENERAL:

- 1 RELOCATE SPRINKLERS TO SUIT NEW CEILING GRID. FIRE PROTECTION TO REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

NOTES:

- 1 RELOCATE EXISTING GRILLE TO SUIT NEW WALLS - TYP.
2 RELOCATE EXISTING DIFFUSER TO SUIT NEW WALLS, ALLOW FOR NEW FLEX - TYP.
3 REMOVE GRILLE, PROVIDE MATCHING TILE TO FILL OPENNING.
4 RELOCATE SPRINKLER TO SUIT NEW CEILING GRID - TYP.



2 NEW WORK
M-300 1:50

GENERAL:

- 1 RELOCATE EXISTING SPRINKLERS AND PROVIDE NEW TO SUIT NEW LAYOUT. VERIFY COVERAGE AND PROVIDE ADDITIONAL HEADS AS NEEDED.
2 CONDUCT AN AIR AUDIT OF THE DIFFUSERS TO BE RELOCATED. SUBMIT WRITTEN REPORT TO THE ENGINEER. BALANCE DIFFUSERS TO NEW VALUES AS DIRECTED.

NOTES:

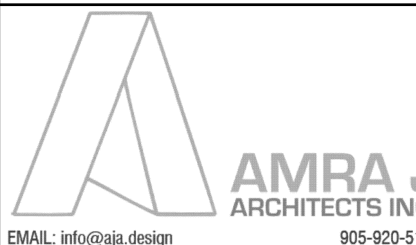
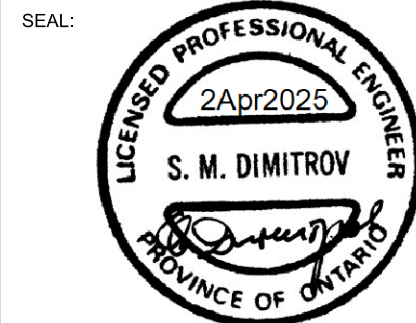
- 1 EXISTING GRILLE IN NEW POSITION - TYP.
2 EXISTING DIFFUSER IN NEW POSITIONS, ALLOW FOR NEW FLEX AND NEW SPOFF DAMPER - TYP.
3 PROVIDE CROSS-TALK SILENCER:
-600X300 CROSS SECTION
-L-SHAPE DUCT; 450X900 LONG
-EGGCRATE FACE GRILLE TO MATCH EXISTING
-1" ACOUSTIC LINER, NON-SHEDDING

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2	PERMIT AND TENDER	04/02/2025
1	FINAL REVIEW	03/21/2025
No.	DESCRIPTION	DATE





















































































project title:
CITY OF TORONTO
FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

drawing title:
DUCTWORK

drawn: AV	scale: As indicated
date: 03/17/25	project number: 242510
checked: ZD	DRAWING NO: M-300
date: 03/20/25	A

Revised

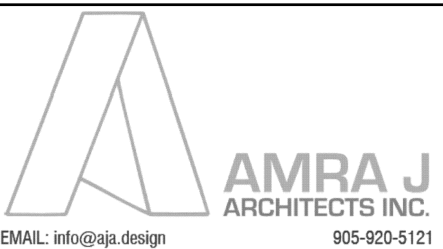
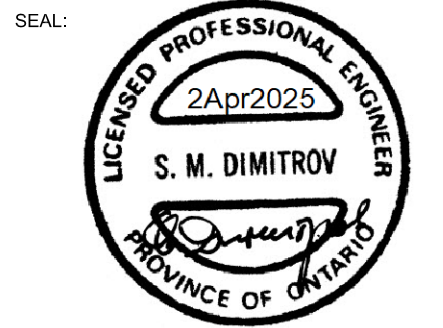
LEGEND		
	FLUORESCENT LUMINAIRE – TYPE AS NOTED	
	INCANDESCENT, COMPACT FLUORESCENT OR LED LUMINAIRE REFER TO LUMINAIRE SPECIFICATION	
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH ('3' DENOTES 3-WAY, '4' DENOTES 4-WAY, 'PL' DENOTES PILOT LIGHT.	
	BATTERY PACK LIGHT	
	BATTERY PACK LIGHT C/W REMOTE HEADS	
	DOOR SWITCH	
	DIMMER SWITCH.	
	OCCUPANCY SENSOR	
	LUMINAIRE CONNECTED TO EMERGENCY POWER	
	EXIT SIGN	
	DENOTES REFER TO NOTE	
EM	DENOTES RECEPTACLE/EQUIP. CONNECTED TO EMERGENCY POWER	
K	DENOTES KEY OPERATED.	
TL	DENOTES TWISTLOCK.	
WT	DENOTES WATERTIGHT (CSA ENCLOSURE 4)	
WP	DENOTES WEATHER PROOF (NEMA TYPE 3R)	
CH	DENOTES DEVICE MOUNTED ABOVE COUNTER TOP, REPER TO ARCHITECTURAL DETAILS.	
GFI	DENOTES GROUND FAULT INTERRUPTER.	
WG	DENOTES WIRE GUARD	
PD	DENOTES DEVICE(S) TO BE PEDESTAL MOUNTED.	
MW	DENOTES DEVICE(S) TO BE FLUSH MOUNTED IN MILLWORK.	
E	DENOTES EXISTING TO REMAIN.	
R	DENOTES EXISTING TO BE REMOVED AND HANDED OVER TO OWNER.	
RL	DENOTES EXISTING TO BE RELOCATED.	
RP	DENOTES EXISTING SHOWN IN RELOCATED POSITION.	
PTP	DENOTES POINT TO POINT DATA CONNECTION.	
U.O.N.	DENOTES "UNLESS OTHERWISE NOTED".	
	CIRCUIT BREAKER, 3P – UNLESS INDICATED OTHERWISE	
	DRAW OUT CIRCUIT BREAKER, 3P – UNLESS INDICATED OTHERWISE	
	DISTRIBUTION TRANSFORMER	
	FUSIBLE DISCONNECT SWITCH	
	DOOR CONTACT	
	EXIT BUTTON	
	MAGNETIC HOLD OPEN DEVICE	
	MAGNETIC LOCK DEVICE	
	15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED (12" AFF, U.O.N.)	
	15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED (ABOVE COUNTER TOP, U.O.N.)	
	15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE, MOUNTED IN TWO CHANNELS RACEWAY.	
	2x15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE IN COMMON BOX, WALL MOUNTED.	
	2x15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE IN COMMON BOX, WALL MOUNTED (ABOVE COUNTER TOP)	
	15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED (12" AFF, U.O.N.)	
	15A-125V 1PH-3W GROUNDED RECEPTACLE, CEILING MOUNTED	
	15A-125V 1PH-3W GROUNDED SINGLE RECEPTACLE, C/W 5A USB CHARGING PORTS – TYPE A&C	
	FURNITURE FEED- FROM TOP	
	FURNITURE FEED- FROM BOTTOM	
	120V CONNECTION TO EQUIPMENT AS INDICATED.	
	208V, 1PH CONNECTION TO EQUIPMENT AS INDICATED.	
	208V, 3PH CONNECTION TO EQUIPMENT AS INDICATED.	
	220V, 1PH CONNECTION TO EQUIPMENT AS INDICATED.	
	600V, 3PH CONNECTION TO EQUIPMENT AS INDICATED.	
	VOICE OUTLET – C/W CAT 6 VOICE CABLE IN 1" CONDUIT TO NEAREST TELECOM. CLOSET.	
	DATA OUTLET – C/W CAT 6 DATA CABLE IN 1" CONDUIT TO NEAREST TELECOM. CLOSET.	
	VOICE OUTLET – C/W NUMBER (n) OF CAT 6 VOICE CABLES IN CONDUIT(S) AND BOX(S) TO SUITE NUMBER OF CABLES, TO NEAREST TELECOM. CLOSET.	
	DATA OUTLET – C/W NUMBER (m) OF CAT 6 DATA CABLES IN CONDUIT(S) AND BOX(S) TO SUITE NUMBER OF CABLES, TO NEAREST TELECOM. CLOSET.	
	COMBINATION DATA AND VOICE OUTLET – C/W NUMBER (m) OF DATA & (n) VOICE CAT 6 CABLES IN CONDUIT(S) AND BOX(S) TO SUITE NUMBER OF CABLES, TO NEAREST TELECOM. CLOSET.	
	WIRELESS ACCESS POINT DATA OUTLET C/W CAT 6 CABLE IN 1" CONDUIT TO NEAREST TELECOM. CLOSET	
	CELL PHONE SERVICE EMITTER	
	COMBINATION DATA AND VOICE OUTLET MOUNTED IN RACEWAY. C/W TWO (2) CAT 6 CABLES IN 1" CONDUIT TO NEAREST TELECOM.	
	FIRE ALARM SMOKE DETECTOR	
	FIRE ALARM HEAT DETECTOR	
	FIRE ALARM HORN	
	FIRE ALARM STROBE	
	FIRE ALARM SPEAKER STROBE COMBINATION	
	DENOTES ELECTRICAL EQUIPMENT CONNECTED TO PANEL 2A1, CIRCUIT #3 SWITCHED GROUP 4	
	PANELBOARD – 'PP' DENOTES POWER PANEL – 'LP' DENOTES LIGHTING PANEL	
	TYPICAL PANEL NOMENCLATURE DESCRIPTION ARE AS FOLLOWS:	
	LOCATION-FLOOR NUMBER DESIGNATION (A-Z=NORMAL POWER EXCEPT E,F,W,Z=EMERGENCY POWER)	
	VOLTAGE (2=208V OR 120/208V, 6=347/600V)	
	FLOOR MOUNTED ELECTRICAL EQUIPMENT COMPLETE WITH 100MM HIGH HOUSEKEEPING PAD.	
	'DP' DENOTES DISTRIBUTION PANEL , 'MCC' DENOTES MOTOR CONTROL CENTRE, 'MS' DENOTES MAIN SWITCHBOARD, 'TX' DENOTES TRANSFORMER	
	WALL MOUNTED ELECTRICAL DISTRIBUTION EQUIPMENT. 'SP' DENOTES SPLITTER TROUGH, 'SB' DENOTES SPLITTER BOX, 'DP' DENOTES DISTRIBUTION PANEL.	
	EMERG. PUSH BUTTON	
	MECHANICAL EQUIPMENT REFER TO EQUIPMENT SCHEDULE.	
	DISCONNECT SWITCH.	
	COMBINATION MAGNETIC MOTOR STARTER.	
	MAGNETIC MOTOR STARTER.	
	MANUAL MOTOR STARTER.	
	CONTROL DEVICE/SWITCH	
	JUNCTION BOX	
	NURSE CALL PATIENT STATION	
	NURSE CALL ANNUNCIATOR PANEL	
	WALL MOUNTED EMERGENCY NURSE CALL STATION AT 6'-0" WITH PULL CORD IN WASHROOMS	
	NURSE CALL CORRIDOR DOME LIGHT WALL OR CEILING MOUNTED (WHITE, GREEN, RED AND BLUE INDICATORS)	
	OUTLET FOR DOOR OPERATOR	
	SAFETY SCAN SWITCH	
	OUTLET FOR HANDICAPPED DOOR OPERATOR PUSH PLATE	
	OUTLET FOR PUSH TO LOCK BUTTON	
	CARD READER	
	DOOR CONTACT	
	ELECTRIC STRIKE	
	REQUEST TO EXIT SENSOR	
	KEY SWITCH	
	KEYPAD	
	CCTV CAMERA	
	FIRE ALARM SPEAKER	
	FIRE ALARM SPEAKER – SURFACE MOUNT	
	FIRE ALARM MANUAL PULL STATION	
	FIRE FIGHTERS HAND SET	

DRAWING LIST	
DRAWING #	DESCRIPTION
E-001	LEGEND & DRAWING LIST
E-002	SPECIFICATIONS
E-200	LIGHTING
E-300	POWER AND SYSTEMS 1/2
E-301	POWER AND SYSTEMS 2/2

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2	PERMIT AND TENDER	04/02/2025
1	FINAL REVIEW	03/21/2025
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project title:

CITY OF TORONTO

FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

drawing title:

LEGEND AND DRAWINGS LIST

drawn: AV	scale: As indicated
date: 03/17/25	project number: 242510
checked: ZD	DRAWING NO: E-001
date: 03/20/25	A

Revision

PART A – GENERAL

1 CODES & REGULATIONS

1.1 ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, C.S.A. STANDARDS, UNDERWRITERS LABORATORIES, ALL APPLICABLE LOCAL CODES, AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THESE CODES AND REGULATIONS CONSTITUTE AN INTEGRAL PART OF THE SPECIFICATIONS.

1.2 ALL WORK SHALL COMPLY WITH SECTION 24 (PATIENT CARE AREAS) OF OESC.

2 BUILDING STANDARDS

2.1 COMPLETE ALL ELECTRICAL WORK IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE BASE BUILDING SPECIFICATIONS, DRAWINGS, AND STANDARDS TO THE SATISFACTION OF THE CONSULTANT AND/OR THE BUILDING OWNER. THE BASE BUILDING DOCUMENTS WILL BE MADE AVAILABLE FOR REVIEW BY THE BUILDING OWNER IF SO REQUIRED.

3 SITE VISIT – COORDINATE WITH NYGH FACILITIES AND SECURITY

3.1 THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL DRAWINGS CAREFULLY TO DETERMINE THE EXTENT OF WORK AFFECTING THE EXISTING BUILDING. DETERMINE AND INCLUDE IN THE TOTAL PRICE, THE TOTAL COST OF LABOUR AND MATERIAL TO DISCONNECT, REMOVE, RELOCATE, BLANK OFF, REROUTE OR MAKE SAFE ALL EXISTING SERVICES, CONDUITS, , BOXES, LUMINAIRES AND EQUIPMENT AS REQUIRED.

3.2 NO CLAIM FOR EXTRA COST FOR ADDITIONAL WORK WILL BE ENTERTAINED FOR OBVIOUS CONSIDERATIONS THAT MAY HAVE BEEN OVERLOOKED.

4 PERMITS & INSPECTIONS

4.1 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS AS REQUIRED OR REQUESTED.

4.2 ONCE THE ELECTRICAL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH CERTIFICATES VERIFYING THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH ALL CODES, BUILDING STANDARDS AND ALL AUTHORITIES HAVING JURISDICTION.

5 INSURANCE

5.1 PROVIDE INSURANCE FOR THE DURATION OF THE PROJECT TO PROTECT THE BUILDING OWNER, TENANT, AND TRADES FROM ALL CLAIMS. SUBMIT, AT THE TIME OF THE BID, PROOF OF AN AMOUNT ACCEPTABLE TO BUILDING OWNER AND TENANT.

6 CONTRACT DOCUMENTS

6.1 THE DRAWINGS FOR THE WORK OF THIS DIVISION ARE IN PART DIAGRAMMATIC INTENDED TO CONVEY THE SCOPE OF WORK, GENERAL ARRANGEMENT, APPROXIMATE SIZES AND LOCATIONS OF THE EQUIPMENT AND OUTLETS.

6.2 REPORT ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL, INTERIOR DESIGNER, MECHANICAL, STRUCTURAL, SECURITY, AUDIO VISUAL, KITCHEN, LANDSCAPE DRAWINGS, ETC. AND THE ENGINEER'S DRAWING TO THE ENGINEER PRIOR TO INSTALLATION.

6.3 WHENEVER DIFFERENCES OCCUR BETWEEN PLANS AND DIAGRAMS, SCHEMATICS, AND BETWEEN SPECIFICATIONS AND DRAWINGS, THE MAXIMUM CONDITION SHALL GOVERN AND THE TENDER SHALL BE BASED ON WHICHEVER IS THE GREATER AMOUNT.

7 SHOP DRAWINGS

7.1 SUBMIT SHOP DRAWINGS OF LUMINAIRES, PANELBOARDS AND OTHER MAJOR ELECTRICAL EQUIPMENT, AS REQUESTED BY ENGINEER, UNLESS OTHERWISE NOTED. EACH SHOP DRAWING SHALL BE CHECKED AND STAMPED AS BEING CORRECT BY THE GENERAL CONTRACTOR AND THE APPROPRIATE TRADE BEFORE SUBMISSION TO THE ENGINEER FOR APPROVAL.

8 RECORD DRAWINGS

8.1 KEEP A RECORD SET OF DRAWINGS ON THE SITE ON WHICH SHALL BE CLEARLY INDICATED, THE EXACT LOCATION OF ALL OUTLETS, FIXTURES, FEEDER RUNS, PANELS, CONDUITS, JUNCTION BOXES, PULL BOXES, ETC. INFORMATION ON THESE DRAWINGS SHALL BE INCORPORATED IN THE AS-BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.

9 EXTRA WORK

9.1 IN CASES WHERE EXTRA WORK OF ANY KIND IS REQUIRED, OBTAIN WRITTEN INSTRUCTIONS FROM THE ARCHITECT/DESIGN CONSULTANT BEFORE PROCEEDING. PAYMENTS WILL BE MADE FOR AUTHORIZED CHANGES ONLY.

9.2 QUOTATION WITH BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. SHALL BE SUBMITTED FOR EACH CHANGE. LABOUR UNITS SHALL BE BASED ON THE LATEST NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) LABOUR UNITS COLUMN ONE FOR THE COMPLETE DURATION OF THE PROJECT. MATERIAL PRICES SHALL BE BASED ON THE CURRENT NATIONAL PRICE SYSTEM WITH TRADE DISCOUNTS. HOURLY LABOUR RATE SHALL INCLUDE ALL RELATED CHARGES FOR SUPERVISION, HYDRO INSPECTION, HAND TOOLS, PARKING, CLEAN-UP, AS-BUILT DRAWINGS AND ADDITIONAL BONDING.

10 WARRANTY

10.1 THE CONTRACTOR SHALL PROVIDE THE TENANT WITH A WRITTEN ONE-YEAR WARRANTY, COMMENCING ON THE DATE OF ACCEPTANCE. THE WARRANTY SHALL COVER THE COMPLETE ELECTRICAL INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTS IN MATERIALS OR WORKMANSHIP THAT OCCUR DURING THE WARRANTY PERIOD AT A TIME CONVENIENT TO THE TENANT/BUILDING OWNER, AND AT NO EXTRA COST.

11 RECORD DRAWINGS

11.1 PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION AS ELECTRONIC FILES IN AUTOCAD COMPATIBLE FORMAT AND PDF.

11.2 AS-BUILT DRAWINGS SHALL INCORPORATE ALL CHANGES AND DEVIATIONS FROM TENDER DRAWINGS, INCLUDING ALL MAIN CONDUIT RUNS, CABLE TRAYS, JUNCTION BOXES, AND INFORMATION RECORDED ON RECORD DRAWINGS DURING CONSTRUCTION.

11.3 ENGINEER'S STAMP AND COMPANY LOGO SHALL BE REMOVED FROM DRAWINGS. DRAWINGS SHALL BE MARKED "AS-BUILT" ALONG WITH ELECTRICAL CONTRACTOR'S NAME.

12 CLOSE-OUT DOCUMENTS

12.1 AFTER COMPLETION OF THE PROJECT, PROVIDE ONE SET OF THE FOLLOWING DOCUMENTS TO THE BUILDING OWNER:

- FULL SIZE AS-BUILT DRAWINGS.
- APPROVED SHOP DRAWINGS.
- ESA ELECTRICAL INSPECTION REPORT.
- FIRE ALARM VERIFICATION REPORT AND CERTIFICATE.
- WRITTEN WARRANTY.

12.2 PROVIDE USB FLASH DRIVE WITH THE ABOVE DOCUMENTS IN .PDF FORMAT.

PART B – EXECUTION

1 WORKMANSHIP

1.1 ALL WORK SHALL BE CARRIED OUT AND PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/DESIGN CONSULTANT. ANY UNSATISFACTORY WORK BY THIS DIVISION SHALL BE REPLACED WITHOUT EXTRA COST TO THE OWNER.

1.2 THE CONSTRUCTION SITE SHALL BE KEPT CLEAN AND ANY DEBRIS AND CONSTRUCTION MATERIAL SHALL BE REMOVED FROM THE SITE THROUGHOUT THE CONSTRUCTION PERIOD AND ON COMPLETION OF THE WORK.

2 SCHEDULING

2.1 ALL WORK SHALL BE SCHEDULED AND COORDINATED TO AVOID ANY CONFLICTS WITH OTHER TRADES, BUILDING OWNER AND TENANT(S) DURING OR AFTER CONSTRUCTION. ALLOW FOR ALL NECESSARY PREMIUM TIME, ALL ALLOWANCE FOR THIS SHALL BE INCLUDED IN THE TENDER PRICE.

3 DELIVERY OF EQUIPMENT

3.1 DELIVERY SCHEDULE OF ALL MAJOR ITEMS OF EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR AT THE START OF THE PROJECT. FAILURE TO IDENTIFY DELIVERY PROBLEMS MAY RESULT IN DELAY CLAIMS.

4 TEMPORARY POWER

4.1 PROVIDE TEMPORARY ELECTRICAL POWER FOR THE WORK OF THIS TRADE AND OTHER TRADES AS REQUIRED BY THE GENERAL CONTRACTOR OR THE TENANT.

5 LOCATION OF OUTLETS

5.1 THE ARCHITECT/DESIGN CONSULTANT SHALL HAVE THE RIGHT, AT ANY TIME, TO CHANGE THE LOCATION OF ANY OUTLET UP TO TEN FEET WITHOUT EXTRA COST TO THE TENANT, PROVIDED THAT NOTIFICATION OF SUCH CHANGES ARE ISSUED PRIOR TO THE INSTALLATION OF THE OUTLET.

6 ROUTING OF EQUIPMENT

6.1 NEW CONDUITS AND OTHER NEW SERVICES SHALL BE CAREFULLY ROUTED SO THAT THEY DO NOT INTERFERE WITH ANY EXISTING INSTALLATIONS. ROUTING OF EQUIPMENT IN BUILDING COMMON AREAS AND RISER ROOMS SHALL BE REVIEWED AND APPROVED BY BUILDING OWNER PRIOR TO INSTALLATION. ANY EXISTING CONDUITS, CABLE TRAYS, BUS DUCTS OR OTHER SERVICES THAT INTERFERE WITH THE NEW INSTALLATION SHALL BE RELOCATED UNDER THIS CONTRACT.

7 FLOOR PENETRATION

7.1 SCAN AND OBTAIN WRITTEN APPROVAL FROM BUILDING OWNER PRIOR TO PENETRATING ANY STRUCTURAL SURFACES OR FLOOR SLABS AND CARRY OUT THE WORK IN ACCORDANCE WITH THE BUILDING STANDARDS. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS WHICH ARE DAMAGED DUE TO THIS WORK AT NO EXTRA COST TO THE BUILDING OWNER.

7.2 ALL NEW SERVICES THAT PENETRATE THE FLOOR SLAB OR FIRE RATED WALLS OR CEILINGS SHALL BE IN CONDUIT AND SHALL BE SEALED WITH AN APPROVED, NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT.

8 CUTTING AND PATCHING

8.1 ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING STRUCTURE FOR THE WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT, UNLESS OTHERWISE ADVISED BY THE GENERAL CONTRACTOR.

9 ACCESS PANEL

9.1 ACCESS PANELS SHALL BE PROVIDED IN CEILINGS WHERE JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT CAN NOT BE LOCATED IN ACCESSIBLE LOCATIONS PROVIDED THAT APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECT/DESIGN CONSULTANT.

10 NOISE & VIBRATION

10.1 ALL ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION TO THE OWNER'S SATISFACTION.

11 MECHANICAL WIRING

11.1 CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT TO BE SUPPLIED AND INSTALLED BY DIV.15. ALL STARTERS INCLUDING FAN SWITCHES TO BE SUPPLIED AND INSTALLED BY DIV.16 UNLESS OTHERWISE NOTED. DIV.16 TO PROVIDE ALL POWER WIRING AND REQUIRED DISCONNECT SWITCHES.

12 GROUNDING

12.1 ALL GROUNDING SHALL CONFORM TO THE ELECTRICAL SAFETY CODE AND LOCAL AUTHORITY REQUIREMENTS.

12.2 PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY POWER CONDUIT TO ALL DEVICES, LUMINAIRES, EQUIPMENT, AND WITH ALL FEEDERS.

13 NEUTRAL

13.1 ALL NEUTRAL WIRING SHALL CONFORM TO THE ELECTRICAL SAFETY CODE AND LOCAL AUTHORITY REQUIREMENTS.

13.2 ALL SINGLE PHASE CIRCUITS ARE TO HAVE DEDICATED NEUTRAL CONDUCTOR.

14 DIRECTORY

14.1 PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW AND EXISTING PANELBOARDS WITHIN THE AREA OF WORK, TO REFLECT THE LATEST REVISIONS. LABELING TO BE BASED ON ROOM NUMBERS AND/OR LOCATION AND LOAD TYPES.

14.2 LABEL RECTANGLES, SWITCHES, DEVICES AND EQUIPMENT WITH PERMANENTLY ATTACHED NAME PLATE IDENTIFYING THE PANEL BOARD AND CIRCUIT BREAKER. COMPLY WITH FACILITY'S LABELING FORMAT.

15 DISRUPTION OF EXISTING SERVICES

15.1 THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO THE EXISTING SERVICES. THE EXISTING BUILDING MUST BE KEPT IN OPERATION AT ALL TIMES. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT SCHEDULED TIMES. INTERRUPTIONS SHALL BE SCHEDULED WITH THE ARCHITECT/DESIGN CONSULTANT AT LEAST 5 WORKING DAYS IN ADVANCE. OVERTIME WORK THAT MAY BE REQUIRED TO RE-IN SERVICES AT NIGHT OR ON WEEKENDS SHALL BE INCLUDED IN THE TENDER AMOUNT. CONTRACTOR TO INCLUDE AT LEAST 2 AFTER HOURS SHUTDOWN IN THE BASE TENDER PRICE.

16 DEFECT OR INTERFERENCE

16.1 EXAMINE THE WORK OF THE OTHER TRADES, AS THEY AFFECT THIS DIVISION, REPORT AT ONCE TO THE ARCHITECT/DESIGN CONSULTANT ANY DEFECT OR INTERFERENCE THAT MAY AFFECT THE WORK OF THIS DIVISION OR THE GUARANTEE OF THIS WORK.

17 REMOVAL OF EXISTING EQUIPMENT

17.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING ALL ELECTRICAL EQUIPMENT FROM AREAS BEING ALTERED OR DEMOLISHED. WIRING, CONDUIT AND EQUIPMENT WHICH IS REQUIRED TO MAINTAIN SERVICE IN OTHER PARTS OF THE BUILDING SHALL BE TEMPORARILY SUPPORTED, REROUTED, SERVICED OR RELOCATED AS REQUIRED.

17.2 EQUIPMENT TO BE RELOCATED SHALL BE VERIFIED FOR WORKING CONDITION. PROVIDE NEW IF NECESSARY AND FEASIBLE. EXTEND WIRING/CONDUIT AND RECONNECT TO SUIT.

17.3 OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK AS FAR AS POSSIBLE, AND SHALL BE REMOVED. ALL EXISTING WIRING NOT REMOVED SHALL BE DISCONNECTED, BLANKED-OFF AND MADE SAFE.

17.4 UNLESS OTHERWISE ADVISED, ALL BASE BUILDING LUMINAIRES, TRANSFORMERS, PANELBOARDS AND DISCONNECT SWITCHES WHICH ARE REMOVED SHALL BE HANDED OVER TO THE BUILDING OWNER.

17.5 ALL REMOVED EQUIPMENT AND MATERIALS WHICH ARE NO LONGER REQUIRED, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE WORK.

PART C – MATERIAL

1 GENERAL

1.1 ALL ELECTRICAL EQUIPMENT SHALL BE C.S.A. APPROVED AND BEAR THE C.S.A. STAMP. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.

2 WIRE AND CABLE

2.1 ALL WIRE AND CABLE SHALL BE COPPER WITH TYPE RW-90, X-LINK INSULATION, AND MINIMUM NO.12 AWG WIRE SIZE. NO.10 AND 12 TO BE SOLID, AND NO.8 AND LARGER TO BE STRANDED.

2.2 SIZE ALL WIRE FOR MAXIMUM 3% VOLTAGE DROP AT 80% LOAD AND 90% POWER FACTOR.

3 CONDUIT

3.1 ALL WIRING IN CEILINGS AND PARTITIONS SHALL BE IN EMT CONDUIT WITH RAINIGHT COUPLING AND CONNECTORS.

3.2 ALL WIRING IN SLABS SHALL BE IN SCHEDULE 40 RIGID PVC CONDUIT.

3.3 AC-90 CABLE MAY BE PERMITTED FOR DOWN-DROPS FROM JUNCTION BOXES TO LUMINAIRES UNLESS PROHIBITED BY CODE OR BUILDING STANDARDS. AC-90 CABLE SHALL NOT BE USED IN ANY EXPOSED AREAS UNLESS OTHERWISE NOTED. AC-90 CABLE RUNS IN CEILING SPACE SHALL NOT EXCEED 1500MM (5') IN LENGTH. DO NOT TERMINATE AC-90 CABLE DIRECTLY TO PANEL BOARDS.

3.4 PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTION TO TRANSFORMERS AND MOTORS. MINIMUM 1M (3') LENGTH.

3.5 ALL CONDUITS SHALL BE INSTALLED WITH BUSHINGS AT EACH END. CONDUITS FOR COMMUNICATION WIRING SHALL BE TERMINATED ON EQUIPMENT RACK, BACKBOARD OR CABLE TRAY WITHIN THE ROOM.

3.6 ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON PULL STRING. DO NOT CADDIE CLIP CONDUITS TO CEILING HANGERS.

4 PULL BOXES

4.1 A MINIMUM OF ONE PULL BOX SHALL BE INSTALLED FOR EVERY 30M (100') OF CONDUIT (EACH 90 DEGREE BEND SHALL EQUATE TO A 3M (10') LENGTH OF CONDUIT). NO MORE THAN TWO 90 DEGREE BENDS SHALL BE INSTALLED BETWEEN TWO PULL BOXES.

5 SWITCHES

5.1 LOCAL SWITCHES SHALL BE 20 AMP, VOLTAGE AS INDICATED. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND COLOUR WITH ARCHITECT/DESIGN CONSULTANT PRIOR TO INSTALLATION.

5.2 MANUFACTURER – 120V- P&S 2621 SERIES (UNLESS OTHERWISE NOTED) – 347V- P&S 2621 SERIES (UNLESS OTHERWISE NOTED)

6 RECEPTACLES

6.1 DUPLEX RECEPTACLES SHALL BE 120 VOLT, 15 AMP HOSPITAL GRADE UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND COLOUR WITH ARCHITECT/DESIGN CONSULTANT PRIOR TO INSTALLATION.

6.2 MAFACTURER: – P&S "PTB" SERIES, HUBBEL OR LEVITON

7 COVERPLATES

7.1 EXPOSED COVERPLATES SHALL BE MADE OF STAINLESS STEEL AND INSTALLED AFTER FINAL PAINTING, FLUSH WITH THE WALL.

7.2 MAFACTURER: – P & S, HUBBEL OR LEVITON

8 DIMMERS

8.1 ALL DIMMERS SHALL BE SIZED TO SUIT LOADS IN WATTAGE AND TYPES (FLUORESCENT, COMPACT FLUORESCENT, L V MAGNETIC, L V ELECTRONIC, ETC.)

8.2 PROVIDE LAMP DE-BUZZING COILS FOR ALL INCANDESCENT AND LOW VOLTAGE DIMMING CIRCUITS.

8.3 ALL DIMMING CIRCUITS ARE TO HAVE SEPARATE NEUTRAL CONDUCTOR.

8.4 MAFACTURER: – LUTRON NOVA-T SERIES (UNLESS OTHERWISE NOTED)

9 SERVICE EQUIPMENT

9.1 ALL NEW PANELBOARDS, DISCONNECT SWITCHES, SPLITTERS, ETC. TO BE OF THE SAME MANUFACTURER. RATING AND TYPE TO COMPLY WITH BASE BUILDING EQUIPMENT WHERE POSSIBLE. MOULDED CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. ALL PANELBOARDS SHALL HAVE LOADS BALANCED ON THE FEEDERS (OPERATING AT NORMAL BUSINESS HOURS). ADJUST BRANCH CIRCUITS AS REQUIRED. DISCONNECT SWITCHES SHALL BE OF QUICK-MAKE/QUICK-BREAK TYPE.

9.2 MANUFACTURER: – FEDERAL PIONEER, SIEMENS, SQUARE D, CUTLER-HAMMER, WESTINGHOUSE

10 FUSES

10.1 FUSES SHALL BE BUSSMAN 'FUSETRON' DUAL ELEMENT SLOW BLOW TYPE, SIZED AS NOTED.

11 TRANSFORMERS – N/A

12 LUMINAIRES

12.1 ALL NEW LUMINAIRES SHALL BE AS SPECIFIED ON DRAWINGS. ALTERNATES ARE NOT ACCEPTABLE WITHOUT APPROVAL BY ENGINEER AND CLIENT.

12.2 ALL LUMINAIRES INSTALLED IN OR ON BASE BUILDING CEILINGS SHALL BE INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURE WITH CHAIN UNLESS OTHERWISE NOTED.

12.3 NEW AND RELOCATED EXISTING BASE BUILDING LUMINAIRES SHALL BE INSTALLED WITH CHAIN SUPPORTS UNLESS BASE BUILDING CEILING SYSTEM IS DESIGNED AND CONSTRUCTED TO SUPPORT THE ADDITIONAL WEIGHT OF THE BASE BUILDING LUMINAIRES. PROVIDE WRITTEN CONFIRMATION FROM CEILING MAFACTURER.

13 LAMPS

13.1 ALL LUMINAIRES SHALL BE COMPLETE WITH SUITABLE LAMPS AS RECOMMENDED BY MANUFACTURER. COLOUR TEMPERATURE, BEAM ANGLE, CRI, FROSTED/CLEAR, ETC. SHALL BE CONFIRMED WITH ENGINEER AND ARCHITECT/DESIGN CONSULTANT PRIOR TO ORDERING LAMPS.

13.2 COMPACT FLUORESCENT, FLUORESCENT, AND H.I.D. LAMPS SHALL BE GUARANTEED FOR A PERIOD OF TWELVE MONTHS FROM THE DATE OF ACCEPTANCE.

13.3 LOW VOLTAGE, HALOGEN, AND INCANDESCENT LAMPS SHALL BE GUARANTEED FOR A PERIOD OF SIX MONTHS FROM THE DATE OF ACCEPTANCE.

13.4 MAFACTURER – PHILIPS, G.E.CANADA, OSRAM/SYLVANIA

14 PLYWOOD BACKBOARDS

14.1 PLYWOOD BACKBOARDS SHALL BE FIRE RETARDANT VENEER CORE FIR, 19MM(3/4") THICK AND SIZED AS INDICATED ON DRAWINGS. BACKBOARDS SHALL BE PRIMED AND PAINTED WITH APPROVED FIRE RETARDANT PAINT. COLOUR AS SPECIFIED BY ARCHITECT/DESIGN CONSULTANT.

15 NAMEPLATE

15.1 PROVIDE ENGRAVED LAMCROID NAMEPLATE ABOVE RECEPTACLES – INDICATE PANEL NAME AND CIRCUIT NUMBER. LETTERING SHALL BE 7mm(X") HIGH. CONFIRM COLOUR WITH CLIENT, SUBMIT SAMPLE FOR APPROVAL.

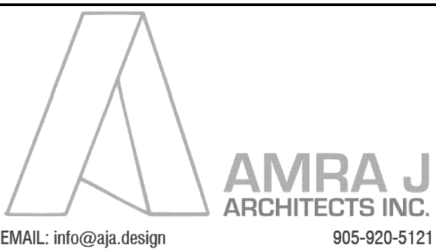
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2	PERMIT AND TENDER	04/02/2025
1	FINAL REVIEW	03/21/2025
No.	DESCRIPTION	DATE

SEAL:



project title:

CITY OF TORONTO

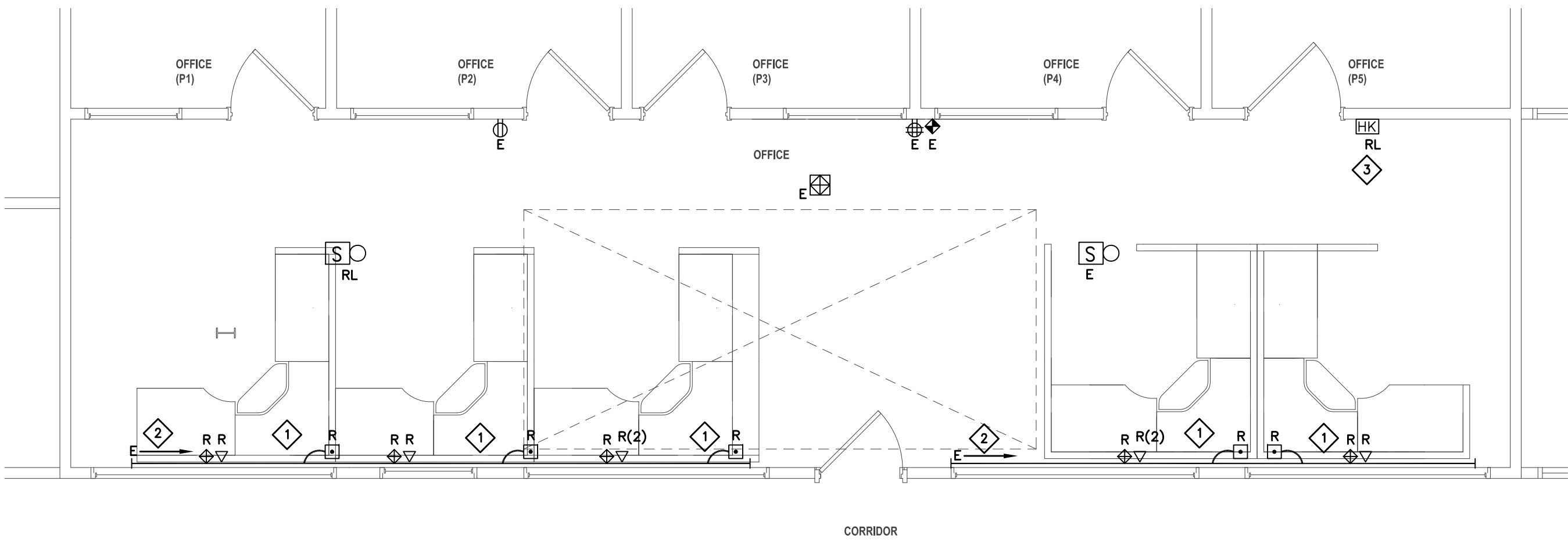
FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

drawing title:

SPECIFICATIONS

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date: 03/17/25	project number: 242510
checked: ZD	DRAWING NO: E-002
date: 03/20/25	A

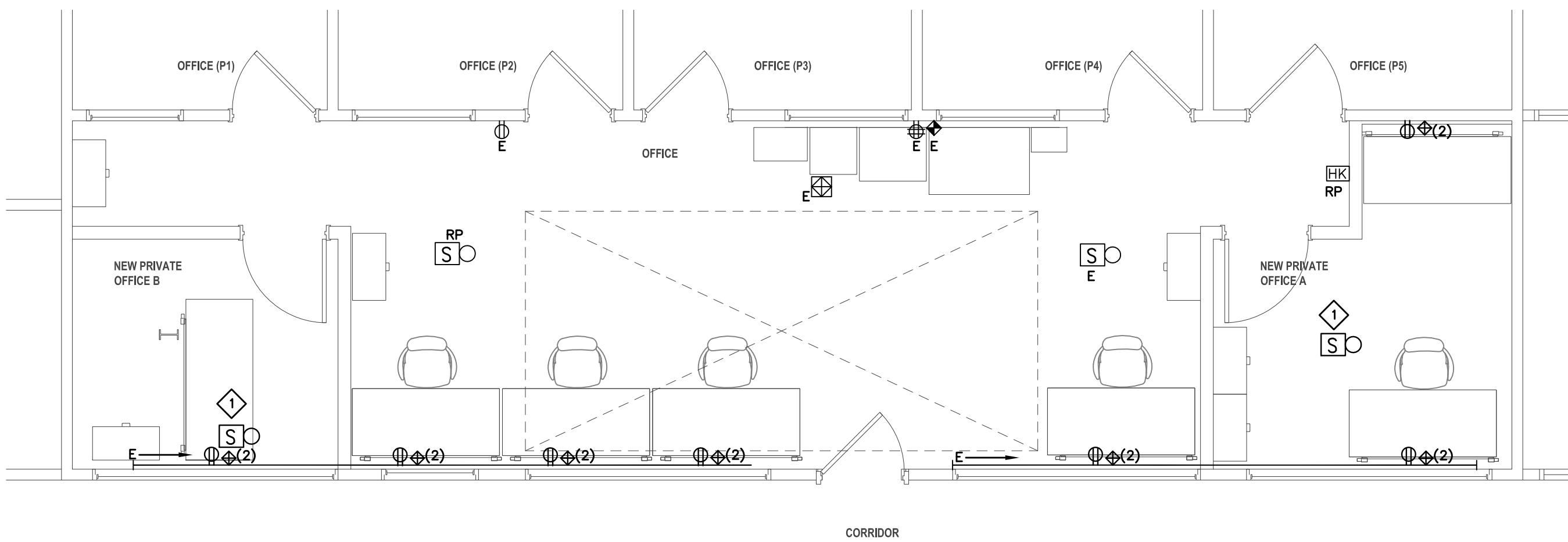
Revision



1 DEMOLITION
E-300 1: 50

NOTES:

- a. REUSE EXISTING CIRCUITS TO FEED NEW RECEPTACLES.
- b. DO NOT CUT DATA AND VOICE CABLING. PULL BACK TO RACEWAY TO REUSE.
- 1 DISCONNECT POWER AND DATA WIRING FROM SYSTEM FURNITURE TO ALLOW REMOVAL – TYP.
- 2 EXISTING 2-CHANNEL RACEWAY TO REMAIN TO BE REUSED – TYP.
- 3 PUSH-PLATE TO BE RELOCATED TO THE NEW WALL.



2 NEW WORK
E-300 1: 50

NOTES:

- a. LABEL POWER, DATA AND VOICE OUTLETS AS PER THE OWNER STANDARD.
- b. REUSE THE EXISTING 2-CHANNEL RACEWAY TO FEED NEW SERVICES. PROVIDE SURFACE MOUNTED OUTLETS ABOVE THE RACEWAY.
- c. RETAIN BASE BUILDING SERVICE PROVIDER BELL CANADA TO FURNISH DATA CABLING AND OUTLETS AS PER THE LATEST CITY OF TORONTO DIGITAL STANDARD. CABLING SHALL BE CAT6A OR AS DIRECTED BY BELL CANADA.
- CONTACT: ROGER VACHON, 416 938-5473, roger.vachon@bell.ca
- 1 PROVIDE FIRE STROBE FOR THE PRIVATE OFFICES, MATCH EXISTING – TYP2.

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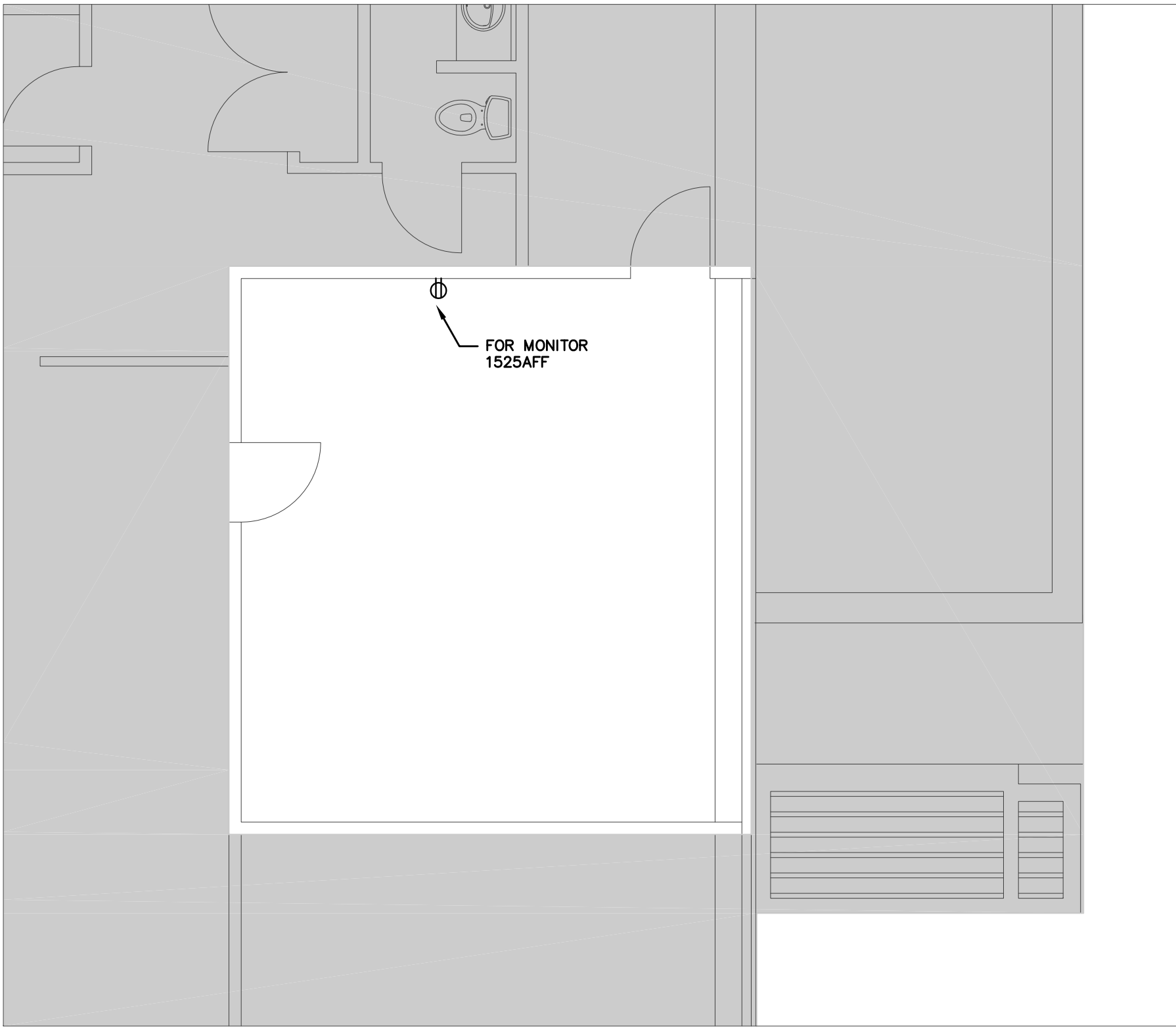


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drawing title:
POWER AND SYSTEMS 1/2

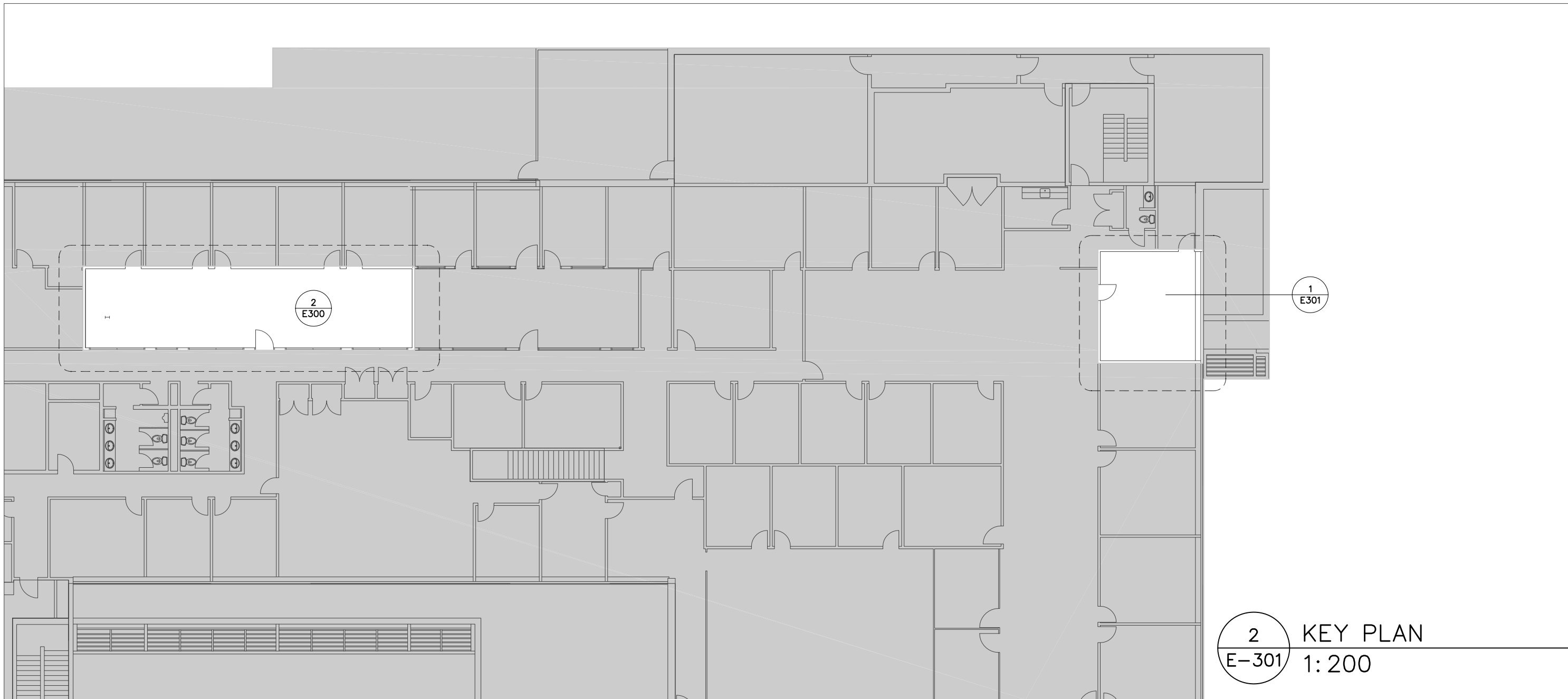
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date: 03/17/25	project number: 242510
checked: ZD	DRAWING NO: E-300
date: 03/20/25	A



1 NEW WORK
E-301 1:50

NOTES:

- COORDINATE ON SITE EXACT LOCATION AND ELEVATION WITH MONITOR BRACKET.

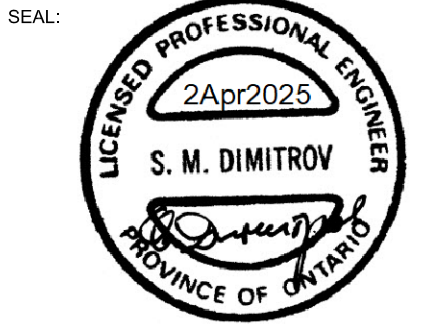


2 KEY PLAN
E-301 1:200

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2	PERMIT AND TENDER	04/02/2025
1	FINAL REVIEW	03/21/2025
No.	DESCRIPTION	DATE



project title:
CITY OF TORONTO
FOR PARAMEDIC SERVICES
430 DUFFERIN STREET,
TORONTO, ON, M6K 2A3

drawing title:
POWER AND SYSTEMS 2/2

drawn: AV	scale: As indicated
date: 03/17/25	project number: 242510

checked: ZD	DRAWING NO: E-301	A
date: 03/20/25		Revision