

ANIMAL SERVICES CENTRE

EXTERIOR & INTERIOR RENOVATION PHASE-02

735 CENTRAL PKWY W, MISSISSAUGA, ON L5C 4H4



STRUCTURAL ENGINEER
EXP SERVICES INC.

MECHANICAL ENGINEER
EXP SERVICES INC.

ELECTRICAL ENGINEER
EXP SERVICES INC.

ISSUED FOR TENDER
JULY 05, 2024

SITE STATISTICS

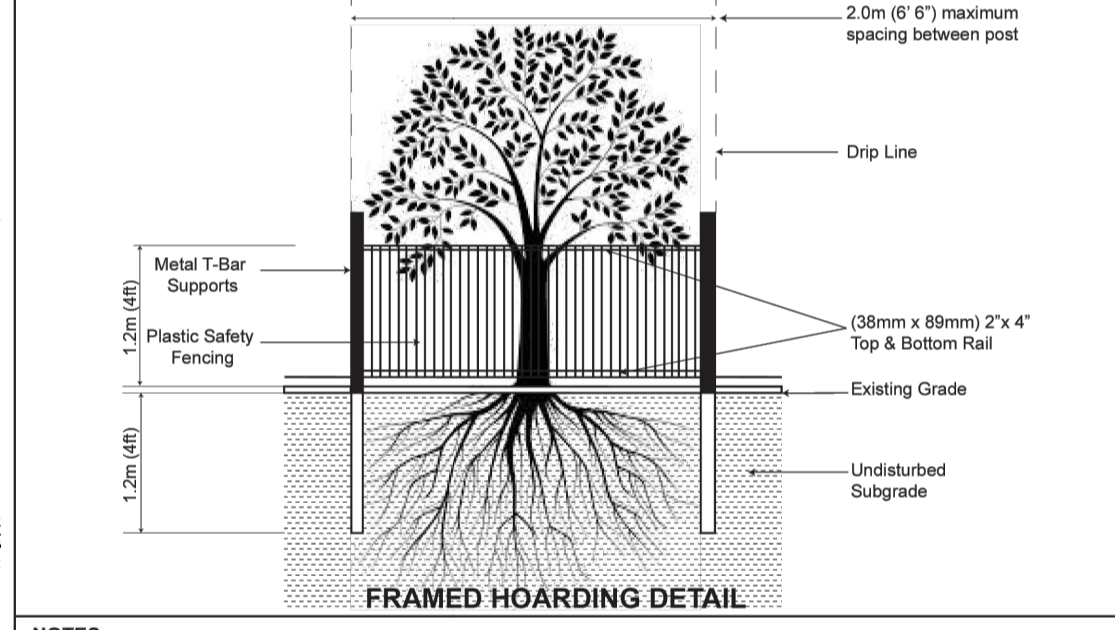
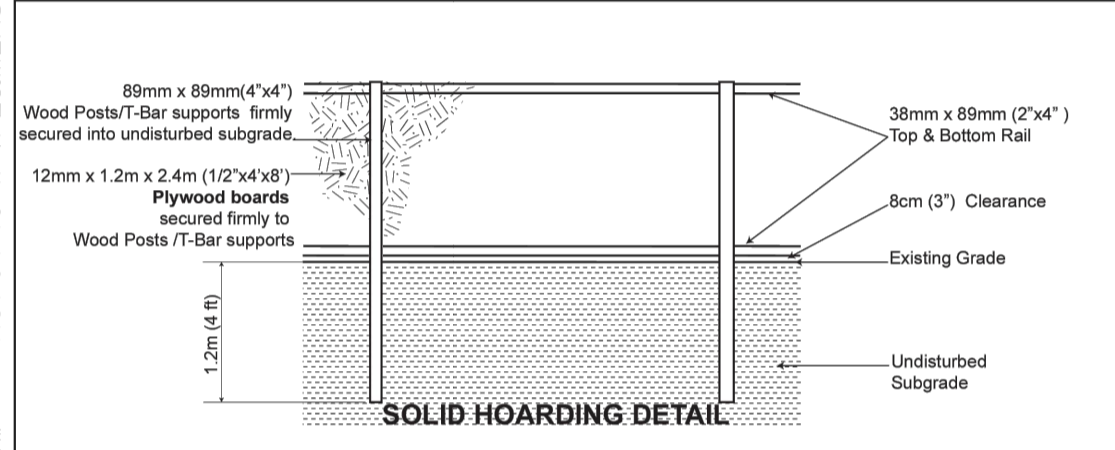
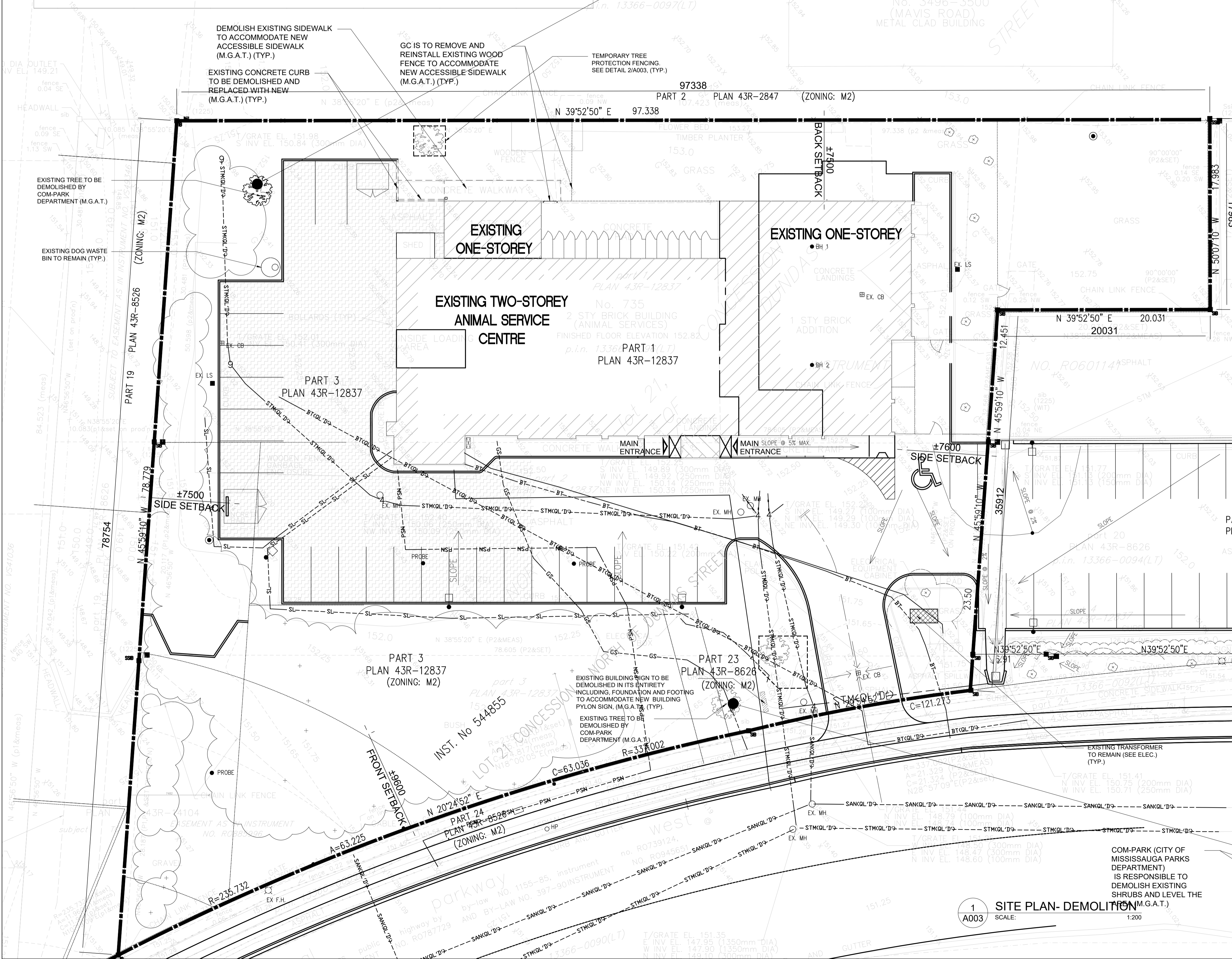
735 CENTRAL PARKWAY WEST			EXISTING	3323.34 sq.m.	35772.24 sq.ft.
SITE AREA			NEW	6.29 sq.m.	67.705 sq.ft.
BUILDING AREA	EXISTING	968.75 sq.m.	TOTAL	3,329.63 sq.m.	35839.94 sq.ft.
	NEW	10425.23 sq.ft.			
	EXISTING: No Change	968.75 sq.m.			
	EXISTING: No Change	10425.23 sq.ft.			
GROSS FLOOR AREA					
	NEW	1282.6 sq.m.	1 H/C SPACES	on 735 CENTRAL PKWY	
	EXISTING	13805.79 sq.ft.	27 SPACES	on 735 CENTRAL PKWY	
	EXISTING: No Change	1282.6 sq.m.	25 SPACES	on 3484 MAVIS RD	
	EXISTING: No Change	13805.79 sq.ft.	53 SPACES	EXISTING: No Change	
GROSS FLOOR AREA LOT COVERAGE					
	TOTAL	21.5 %			
MAX. BUILDING HEIGHT					
	UNLIMITED				
CONCRETE SIDEWALKS & LANDSCAPING PAVERS AND STEPS					
	TOTAL	319.36 sq.m.	DRIVING AISLE WIDTH minimum	7000mm	
		3437.56 sq.ft.	O.B.C. OCCUPANCY CLASSIFICATION	GROUP D	
			O.B.C. CONSTRUCTION CLASSIFICATION	3.2.2.53	
			FIRE RESISTANCE RATING FOR COMBUSTIBLE CONSTRUCTION	45 min.	
			SPRINKLERED	EXISTING: NO NEW: NO	
PAVING WITHIN PROPERTY BOUNDARIES:					
	EXISTING ASPHALT PAVING	1340.54 sq.m.	BUILDING SETBACKS:		
	NEW ASPHALT PAVING	14429.45 sq.ft.	REAR (NORTH) - 7.6m	EAST SIDE - 7.84m	EXISTING: No Change
	TOTAL	1340.54 sq.m.	FRONT (SOUTH) - 21.3m	WEST SIDES - 19.7m	



EXISTING TREE TO BE DEMOLISHED BY COM-PARK (CITY OF MISSISSAUGA PARKS DEPARTMENT) (M.G.A.T.)

NEW PROPOSED GAS GENERATOR LOCATION (SEE ELEC.(TYP.))

SITE LEGEND DEMOLITION	
	EXISTING PROPERTY LINE
	SETBACK LINE, TYP.
	EXISTING SIDEWALK TO BE DEMOLISHED AND REPLACE WITH NEW ACCESSIBLE SIDEWALK, M.G.A.T., TYP.
	EXISTING WHITE LINES TO BE REPAINT FOR PARKING BAYS, M.G.A.T., TYP.
	BUILDING ENTRANCES, TYP.
	EXISTING TRANSFORMER TO REMAIN SEE ELEC.TYP.
	EXISTING DOG WASTE BIN TO REMAIN
	EXISTING BUILDING SIGN TO BE DEMOLISHED IN ITS ENTIRETY INCLUDING FOUNDATION AND FOOTING TO ACCOMMODATE NEW BUILDING PYLON SIGN, (M.G.A.T.), (TYP.)
	TEMPORARY TREE PROTECTION FENCING. SEE DETAIL 2/A003, TYP.
	EXISTING ASPHALT TO BE DEMOLISHED AND REPLACED WITH NEW AFTER THE COMPLETION OF NEW ELECTRICAL/MECHANICAL UNDERGROUND SERVICES WORK, M.G.A.T., TYP.



- NOTES:**
- Hoarding details to be determined following initial site inspection.
 - Private tree hoarding to be approved by Development & Design.
 - City tree hoarding to be approved by Community Services Dept.
 - Hoarding must be supplied, installed and maintained by the applicant throughout all phases of construction. Inspection must be conducted by the Development and Design Division prior to removing any/all private hoarding.
 - Do not allow water to collect and pond behind or within hoarding.
 - T-bar supports are acceptable alternative to 4x4 posts. U-shaped metal supports will not be accepted.
 - Plywood must be utilized for "solid" hoarding. OSB/Chipboard will not be accepted for solid hoarding. Plywood sheets must be installed on "construction" side of frame.
 - Applicant is responsible to ensure utility locates are completed within city boulevard prior to installing framed hoarding.

TREE PRESERVATION HOARDING MISSISSAUGA

2 A003 TEMPORARY TREE PROTECTION FENCING NTS

EXISTING TREE TO BE DEMOLISHED BY COM-PARK (CITY OF MISSISSAUGA PARKS DEPARTMENT) (M.G.A.T.)

APPROXIMATE LOCATION FOR NEW PYLON SIGN (SEE ELEC.) (TYP.)

EXISTING TREE TO REMAIN GC TO PROVIDE TEMPORARY TREE PROTECTION FENCING. SEE DETAIL 2/A003, (TYP.)



1 A003 SITE PLAN- DEMOLITION SCALE: 1:200

ISSUES		
NO.	DESCRIPTION	DATE
1	ISSUED FOR PRELIMINARY DESIGN CLIENT REVIEW	21 JUL 2023
2	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG 2023
3	ISSUED FOR 50% CLIENT REVIEW	13 OCT 2023
4	ISSUED FOR BUILDING PERMIT	01 NOV 2023
5	ISSUED FOR 90% CLIENT REVIEW	01 NOV 2023
6	ISSUED FOR TENDER CLIENT REVIEW	08 DEC 2023
7	ISSUED FOR TENDER	07 FEB 2024
8	ISSUED FOR TENDER	05 JUL 2024

REVISIONS	
NO.	DESCRIPTION

MISSISSAUGA

ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT

735 Central Parkway W,
Mississauga, ON L5C 4H4

NGA ARCHITECTS

220 DUNCAN MILL RD.
SUITE 319
TORONTO, ONTARIO
M8Z 3J7
TEL: 416 367 8877
FAX: 416 367 8655
www.nga.com

ISSUED FOR CONSTRUCTION

PROJECT NO. 2220730

DESIGNED BY MM

CHECKED BY RN/AA

PROJECT NO. 2220730

SCALE AS NOTED

CITY OF MISSISSAUGA PYLON SIGN DESIGN TEMPLATE (FOR REFERENCE USE ONLY)

MISSISSAUGA FIRE STATION 120 SIGNAGE PACKAGE

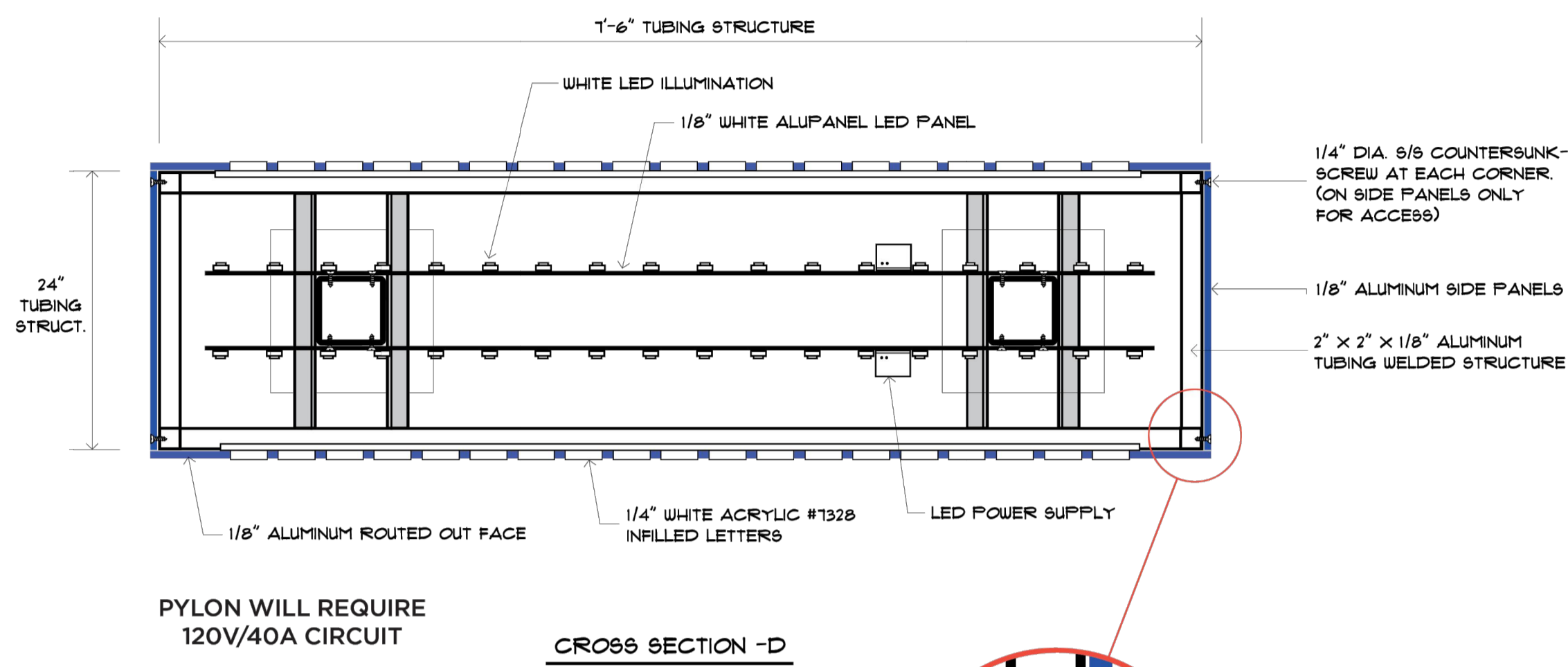
SIGN TYPE: PYLON
SCALE: NOT TO SCALE

MOUNTING:
3M H/S TWO-WAY TAPE AND/OR SILICONE

COLOURS:
■ PMS BLACK
□ PMS WHITE
■ PMS 2985 C
■ PMS 2995 C
■ PMS 3005 C
■ PMS 3015 C

QTY: 1

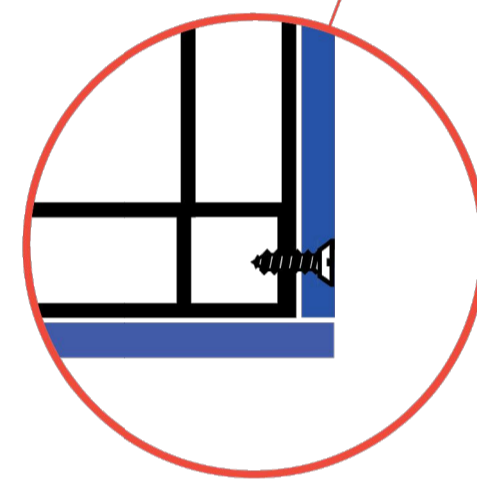
NOTES:



PYLON WILL REQUIRE 120V/40A CIRCUIT

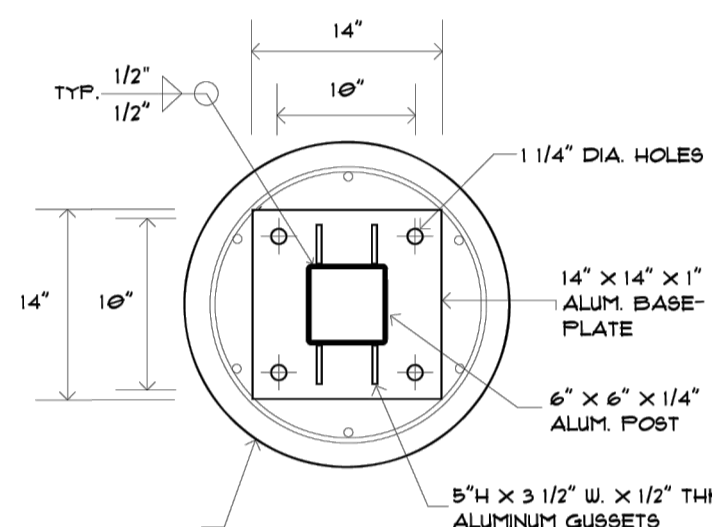
CROSS SECTION - D

NOTE:
NO VERTICAL REVEALS.
ONLY HORIZONTAL 1/2" REVEALS
TOTALLY AROUND



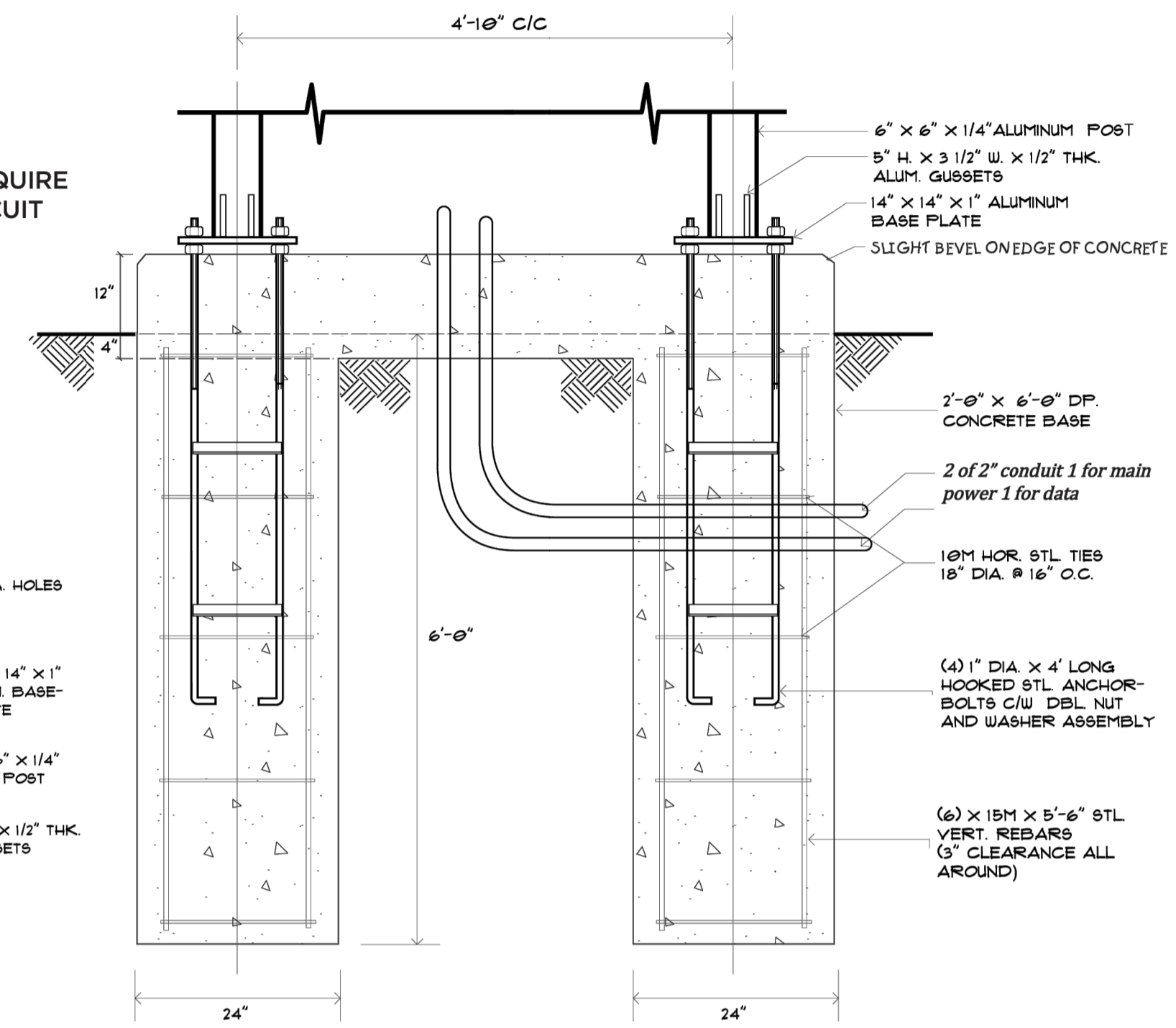
*** NOTE: all screw heads to be painted same color as pylon sign.

PYLON WILL REQUIRE 120V/40A CIRCUIT



BASE PLATE DETAIL

*** NOTE: post to be welded through base plate



CONC. BASE DETAIL

MISSISSAUGA FIRE STATION 120 SIGNAGE PACKAGE

SIGN TYPE: PYLON
SCALE: NOT TO SCALE

MOUNTING:
3M H/S TWO-WAY TAPE AND/OR SILICONE

COLOURS:
■ PMS BLACK
□ PMS WHITE
■ PMS 2985 C
■ PMS 2995 C
■ PMS 3005 C
■ PMS 3015 C

QTY: 1

NOTES:

ISSUES

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7	ISSUED FOR TENDER	05 JUN 2024

REVISIONS

NO.	DESCRIPTION	DATE

MISSISSAUGA
ARCHITECTS

ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT

735 Central Parkway W,
Mississauga, ON L5C 4H4

NGA ARCHITECTS
220 DUNCAN MILL RD. SUITE 318 TORONTO, ONTARIO M9B 3J5
TEL: 416 367 8877 FAX: 416 367 8655 www.nga.com

ISSUED FOR CONSTRUCTION DATE

PROJECT NO: 2220730

STRUCTURAL CONSULTANT: EXP SERVICES INC.
MECHANICAL CONSULTANT: EXP SERVICES INC.
ELECTRICAL CONSULTANT: EXP SERVICES INC.

SHEET TITLE: REFERENCE DRAWINGS FOR NEW PYLON SIGN

SHEET NO: A010

DESIGN BY: MM

CHECKED BY: RN/AA

PROJECT NO: 2220730

SCALE: AS NOTED

MOUNTING HARDWARE DETAIL

SECTION A-A SCALE 1:4

REAR ISOMETRIC VIEW

POSITION OF THE PHOTO CELL IS VARIABLE IN UNISTRUT CHANNEL ALONG THE VERTICAL EDGE OF THE CABINET

TEMPERATURE PROBE IS TYPICALLY AFFIXED TO PYLON

SPRING NUT & MOUNTING BOLT TO C

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY
1	3 H x 7 W	CABINET SUB-ASSEMBLY	SEE BOM	1
2	P133-VQ22-000	P133 MODULE RGS	CONC PART	21
3	0610-MW-4-093A	DATA CONNECTOR COVE	ALUMINUM	1
4	0310-CIRC-0004	1/2" OD 2" R45 MODULAR COUPLER WITH BAYONET WITH REAR MOUNT	CONC PART	3
5	0310-CIRC-0008	M12 FIELD INSTALLED END	CONC PART	3
6	0310-CIRC-0007	1888893-2 - M12 MALE PANEL MOUNT CONNECTOR WATERPROOF	STAINLESS STEEL	4
7	0610-MW-4-092A	POWER COVE	ALUMINUM	1
8	0940-UBOX-0011	PVC JUNCTION BOX ASSEMBLY 4 X 4	PVC	1
9	0610-MW-4-026A	PHOTO CELL MOUNTING BRACKET	ALUMINUM	1
10	P133-0002-0018	PHOTO CELL	ALUMINUM	1
11	0610-MW-4-094A	TEMP PROBE MOUNTING BRACKET	ALUMINUM	1
12	0900-HEVIV-0708	SELF ADHESIVE RADIATION SHIELD	CONC PART	1
13	0940-WASH-0007	3/8" FLAT WASHER PLATED	GALVANIZED STEEL	2
14	0940-NUTS-0001	3/8" SPRING NUT	CAST ALLOY STEEL	2
15	HBOLT-205-13X1-000	1/2" UNF HEX BOLT	STEEL	6
16	0940-WASH-0006	1/2" INCH SPLIT LOCK WASHER	STEEL ZINC PLATED	6
17	0940-NUTS-0011	SPRING NUT 1/2" UNF	CAST ALLOY STEEL	6
18	0940-WASH-0002	WASHER 1/2"	GALVANIZED STEEL	6
19	HBOLT-375-16X1X1-000	3/8-16 UNF HEX BOLT 1" LONG	STEEL	2

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994
DIMENSIONS ARE IN INCHES
TOLERANCES APPLY AS SHOWN BELOW

TYPE	MIN	MAX
Ø FIN. DEC.	+0.01	+0.03 mm
Ø UNFIN. DEC.	+0.01	+0.03 mm
FIN. DEC.	+0.005	+0.01 mm
UNFIN. DEC.	+0.005	+0.01 mm
ANGLES	±0.1°	±0.1°
SURFACE ROUGHNESS	32.0 µm	6.3 µm

NOTES:
1. COATING:

mediaresources
...solutions for the sign industry.

MEDIA RESOURCES INTERNATIONAL
1307 CORNWALL RD. ONKVILLE ONTARIO
TEL: 1-800-667-4554 FAX: 1-800-337-8531

VISION IQ 2 UNISTRUT CABINET ASSEMBLY
3 MODULES HIGH 1/2" WIDE
MARK 3, DRIVER UNIT, P133 MODULES

DATE: 11/09/2015
CHECKED BY: W L E GRAND
APPROVED: [Signature]

PROJECT: B VIQ2-UNIS-ASSM-3x7-MRK3-P133
SCALE: 1:28
SHEET 1 OF 1

MISSISSAUGA FIRE STATION 120 SIGNAGE PACKAGE

PAPER: LEDGER

SIGN TYPE: PYLON

SCALE: NOT TO SCALE

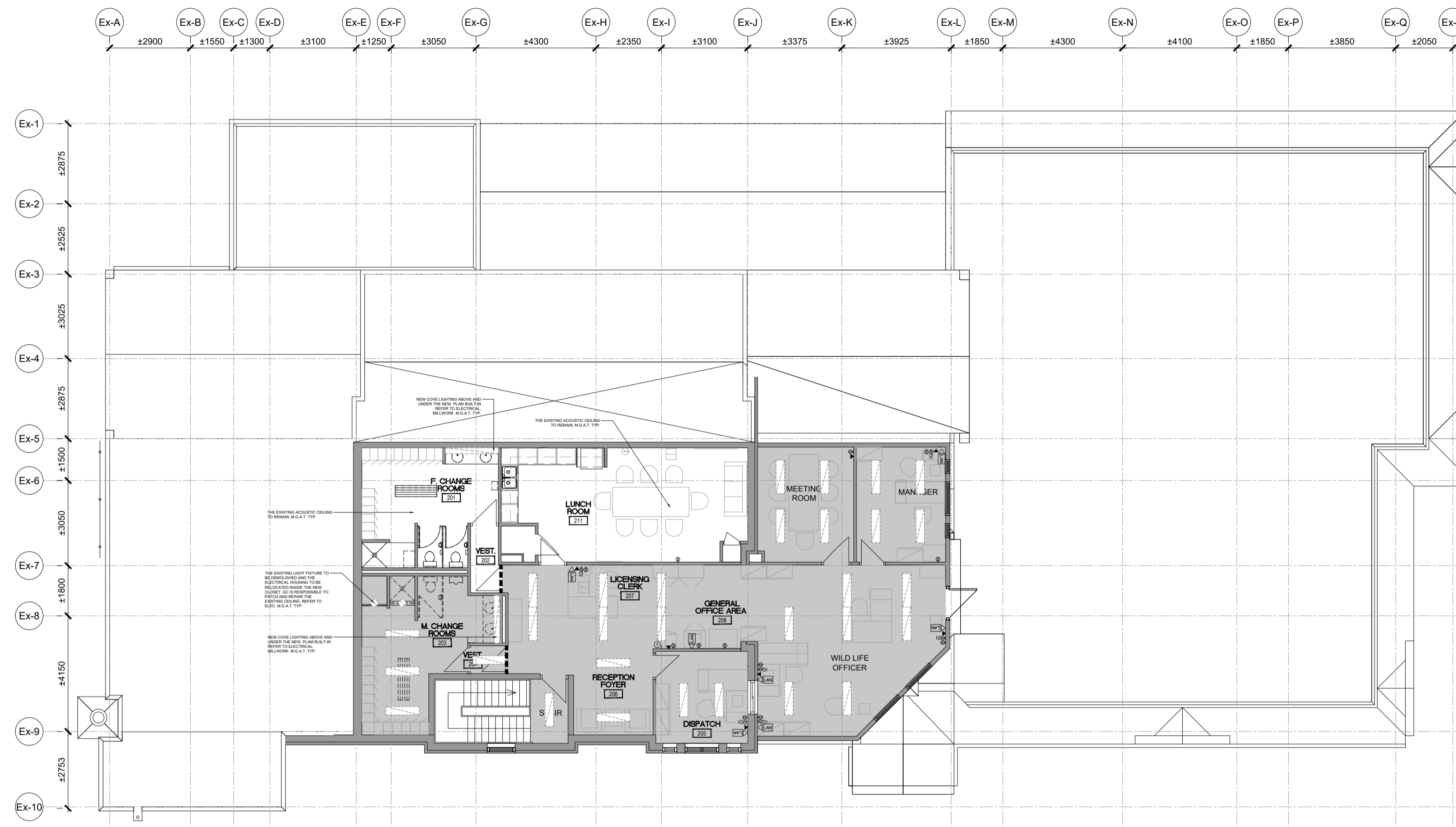
MOUNTING:
3M H/S TWO-WAY TAPE AND/OR SILICONE

COLOURS:
■ PMS BLACK
□ PMS WHITE
■ PMS 2985 C
■ PMS 2995 C
■ PMS 3005 C
■ PMS 3015 C

QTY: 1

NOTES:

THIS DRAWING AND THE INFORMATION CONTAINED THEREIN IS THE CONFIDENTIAL PROPRIETARY INFORMATION OF MEDIA RESOURCES INTERNATIONAL AND SHALL NOT BE USED OR REPRODUCED WITHOUT APPROVAL OF MEDIA RESOURCES INTERNATIONAL. ALL RIGHTS RESERVED.



1 SECOND FLOOR PLAN-REFLECTED CEILING PLAN - DEMOLITION
 A402 SCALE: 1:125

NOTE: GC IS RESPONSIBLE TO COORDINATE WITH THE ELECTRICAL CONTRACTOR AND CUT, PATCH, REPAIR AND PAINT FINISH ALL THE AFFECTED DRYWALL CEILING, ACOUSTIC CEILING, AND DRYWALL & MASONRY WALLS TO ACCOMMODATE THE NEW SECURITY CONDUIT WORK, NEW FIRE ALARM SYSTEM CABLING & DEVICES WORK (HORN, STROBES, SPEAKER, SMOKE DETECTOR, HEAT DETECTOR, MANUAL PULL STATION, ETC.) AND FOR THE REPLACEMENT OF EXIT SIGN WORK THROUGHOUT THE FACILITY, REFER TO ELECTRICAL DRAWINGS E300 & E301 FOR THE LOCATION OF NEW DEVICES (M.G.A.T.) (TYP.)

REFLECTED CEILING PLAN DEMOLITION LEGEND

	DEMOLISH EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP.
	EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS TO REMAIN ONLY THE LIGHTING FIXTURES TO BE DEMOLISHED AND REPLACED WITH NEW. UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP.
EX.	EXISTING
M.G.A.T.	MAKE GOOD ON ALL TRADES AT JUNCTION
TYP.	TYPICAL
	EXISTING WALL OR PARTITION TO REMAIN, TYP.
	EXIST. DOOR TO REMAIN (TYP.)
	NEW DOOR, SEE DOOR SCHEDULE, TYP.
	REMOVE EXIST. SUPPLY, RETURN GRILLE AND REPLACE WITH NEW, SEE MECH, TYP.
	REMOVE EXIST. CARBON MONOXIDE / SMOKE ALARM AND REPLACE WITH NEW, SEE ELEC, TYP.
	REMOVE EXIST. LIGHT FIXTURE, SEE ELEC, TYP.
	REMOVE AND REINSTALL EXISTING. ELEC AND SECU DEVICES, SEE ELEC., TYP.

NOTE:
 1. REPAIR, PATCH, MAKE GOOD AT CEILING, WALL AND FLOOR JUNCTIONS AND PAINT TO ALL RELATED EXISTING AREA AS TO ACCOMMODATE NEW MECHANICAL & ELECTRICAL MODIFICATIONS, FIXTURES AND NEW CONNECTIONS.

- CEILING DEMOLITION NOTES**
- THIS DRAWING IS TO BE COORDINATED WITH MECHANICAL & ELECTRICAL DRAWINGS. ANY DISCREPANCIES IN THE DRAWINGS TO BE REPORTED TO ARCHITECT/ENGINEER.
 - REFER TO REFLECTED CEILING PLAN TO MAKE NECESSARY CHANGES OR DEMOLITION TO MATCH NEW LAYOUT AND FRAMES.
 - REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO DEVICES, LIGHT FIXTURES, RECEPTACLES, CONDUITS, SWITCHES, ETC.
 - REFER TO MECHANICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO MECHANICAL EQUIPMENTS, CONTROLS, DUCTS, PIPING, PLUMBING FIXTURES, ETC.
 - WHERE EXISTING SUSPENDED ACOUSTIC CEILING TILES ARE DISTURBED TO PERFORM NECESSARY ALTERATIONS, THEY MUST BE RETURNED TO A CONDITION EQUIVALENT TO BEFORE THEY WERE DISTURBED. ACOUSTIC CEILING TILES DAMAGED DURING THE ALTERATIONS MUST BE REPLACED.
 - WHERE EXISTING DUCTWORK IS ALTERED, ALL NECESSARY CUTTING & PATCHING OF EXISTING BULKHEADS, WALLS & CEILINGS REQUIRED SHALL BE PERFORMED UNDER THIS CONTRACT, SO AS TO LEAVE THE ENTIRE WORK IN A FINISHED AND WORKMAN LIKE CONDITION.
 - REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS TO ALL RELATED EXISTING AREAS WHERE NEW STRUCTURAL FRAMES CONNECT.
 - REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS ALL RELATED EXISTING AREAS TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL MODIFICATIONS AND NEW CONNECTIONS.
 - CUT AND MAKE GOOD EXIST. CEILING WHERE TO RECEIVE NEW PARTITION, MODIFY AND PROVIDE ALL REQUIRED CEILING COMPONENTS TO INCLUDE BUT NOT LIMITED TO; HANGERS, EXPOSED MAIN TEE, EXPOSED CROSS TEE, WALL MOULDING LAY-IN PANELS AND HOLD DOWN CLIPS WHERE REQUIRED.
 - GENERAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED TEES, FRAMING SUPPORT, BRACING, MAIN TEES, CARRYING CHANNELS, ACCESSORIES AND ALL RELATED COMPONENTS, TYP.

ISSUES

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REVISIONS

PROJECT

MISSISSAUGA
 ANIMAL SERVICES
 CENTRE
 RENOVATION PHASE-02
 PROJECT
 735 Central Parkway W,
 Mississauga, ON L5C 4H4

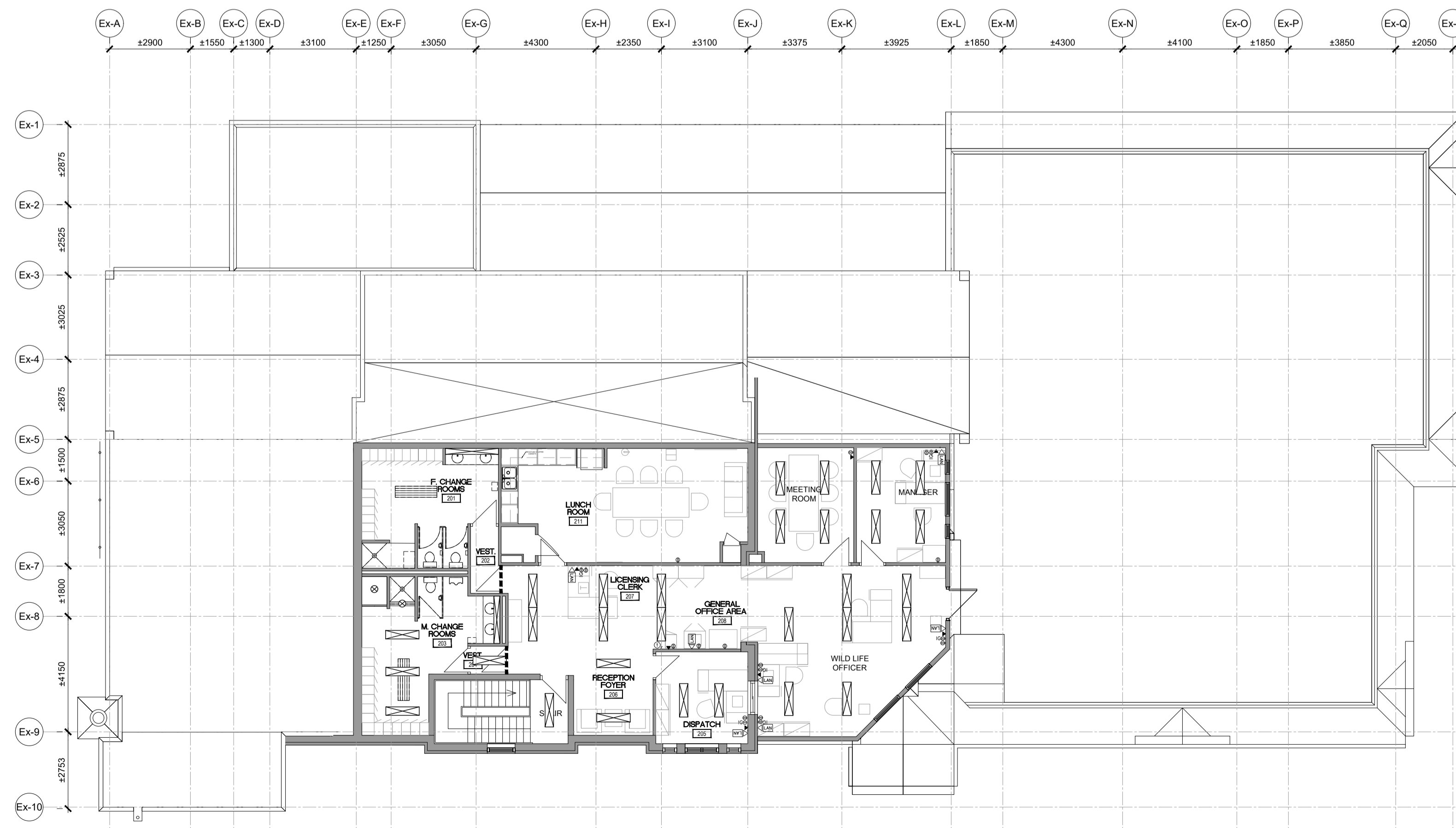
NGA ARCHITECTS
 220 DUNCAN MILL RD.
 SUITE 218
 TORONTO, ONTARIO
 M8Z 3J2
 TEL: 416 367 8877
 FAX: 416 367 8655
 www.nga.com

ISSUED FOR CONSTRUCTION DATE

PROJECT NO.	STRUCTURAL CONSULTANT	DATE
PROJECT NO.	MECHANICAL CONSULTANT	DATE
PROJECT NO.	ELECTRICAL CONSULTANT	DATE

SHEET TITLE
 SECOND FLOOR - REFLECTED CEILING PLAN - DEMO AND NEW

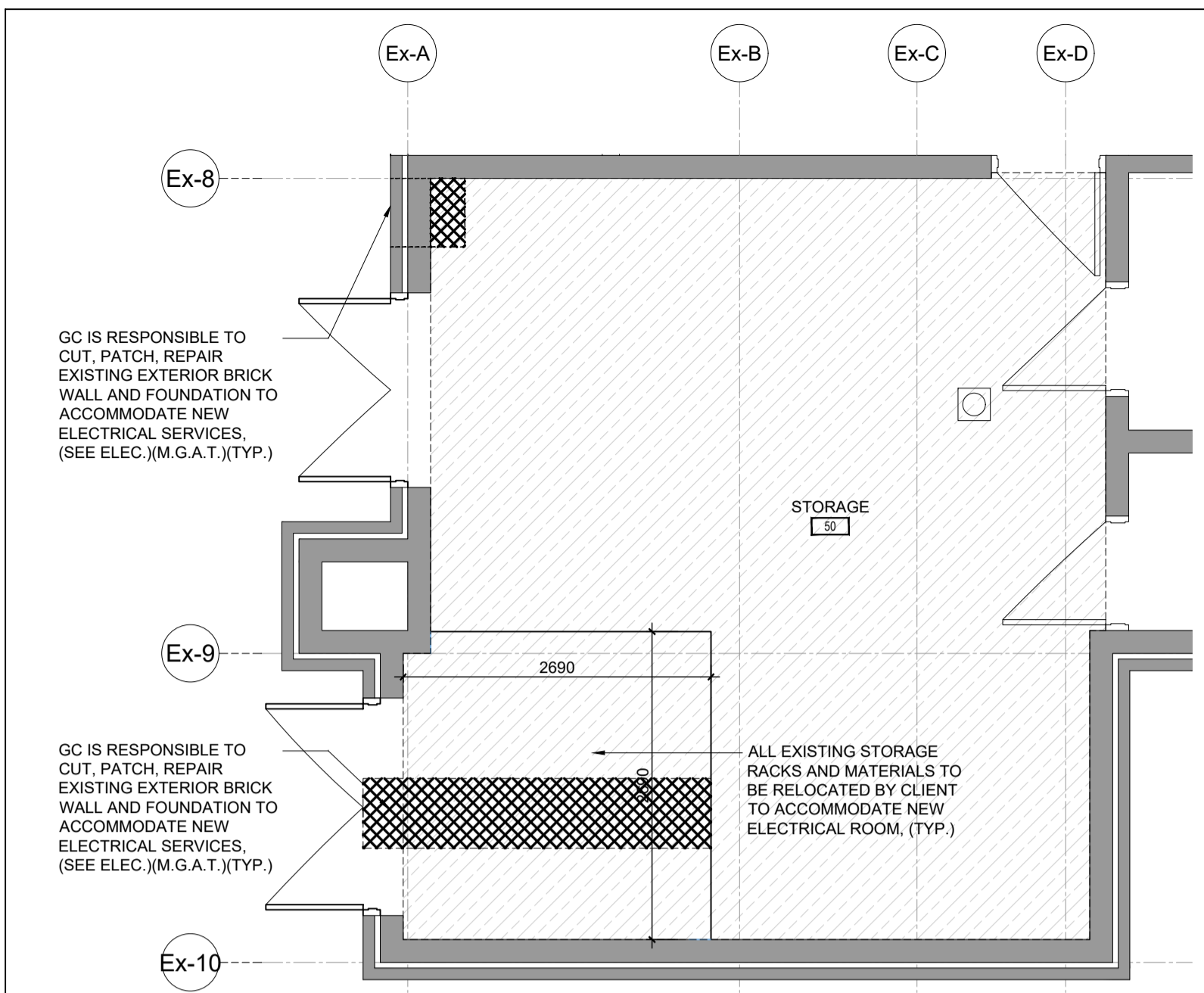
SHEET NO.	DESIGN BY	SCHEDULED
A402a	MM	RN/AA
PROJECT NO.	SCALE	
2320761	AS NOTED	



2 SECOND FLOOR PLAN- REFLECTED CEILING PLAN - NEW
 A402 SCALE: 1:125

REFLECTED CEILING PLAN NEW LEGEND

	NEW 1x4 SURFACE MOUNT LED LIGHT FIXTURE, SEE ELEC, TYP.
	NEW SURFACE MOUNT LED POT LIGHT FIXTURE, SEE ELEC, TYP.



1 NEW ELECTRICAL ROOM PLAN- DEMO
SCALE: 1:50

DEMOLITION LEGEND	
	EXISTING WALL OR PARTITION TO REMAIN, TYP.
	EX. DOOR TO REMAIN, TYP.
	NEW DOOR, SEE DOOR SCHEDULE, TYP.
	EXIST. FLOOR FINISH AND WALL BASE TO BE DEMOLISHED (M.G.A.T.)(TYP.) GC IS RESPONSIBLE TO GRIND, SMOOTH & CLEAN THE DEMOLISHED FLOOR & APPLY ± 2" THICK LEVELING COMPOUND TO ACCOMMODATE NEW FLOORING. REFER TO NEW FLOOR FINISH PLAN FOR NEW FLOOR FINISH MATERIALS, TYP.
	4510 MM MIN. WIDE TRENCH, TYP. EXISTING FLOOR SLAB TO BE CUT TO ALLOW ELECTRICAL SERVICES, CUT, PATCH, REPAIR AND INFILL FLOOR SLAB, AND LEVEL TO RECEIVE NEW EPOXY FLOOR FINISH AND BASE, SEE STRUC., SEE ELEC., M.G.A.T., TYP.
EX.	EXISTING
M.G.A.T.	MAKE GOOD ON ALL TRADES AT JUNCTION
TYP.	TYPICAL

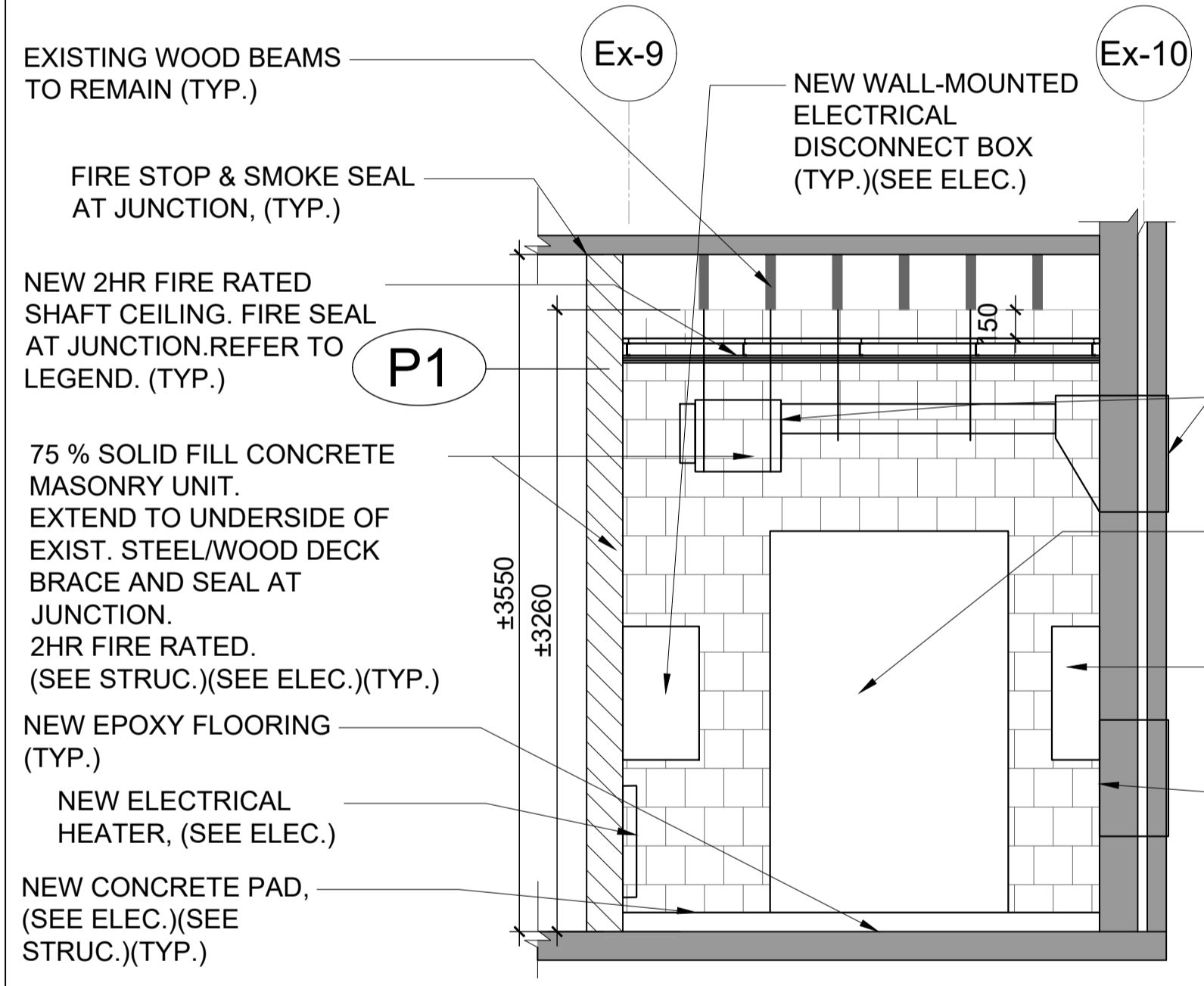
NOTE:
ALL ROOM NUMBERS SHOWN ON DEMOLITION PLANS ARE OF EXISTING BUILDING AND USED FOR REFERENCE ONLY - REFER TO NEW FLOOR PLANS FOR NEW ROOM NUMBERS

GENERAL CONTRACTOR IS RESPONSIBLE FOR X-RAY STUDY OF EXISTING CONCRETE SLAB, WALL & BEAM BEFORE CUTTING / CORING TO ENSURE STRUCTURAL INTEGRITY OF THE FLOOR SLAB, WALLS, STRUCTURAL FRAMING AND NO EXISTING UNDERGROUND SERVICES TO BE AFFECTED, TYP.

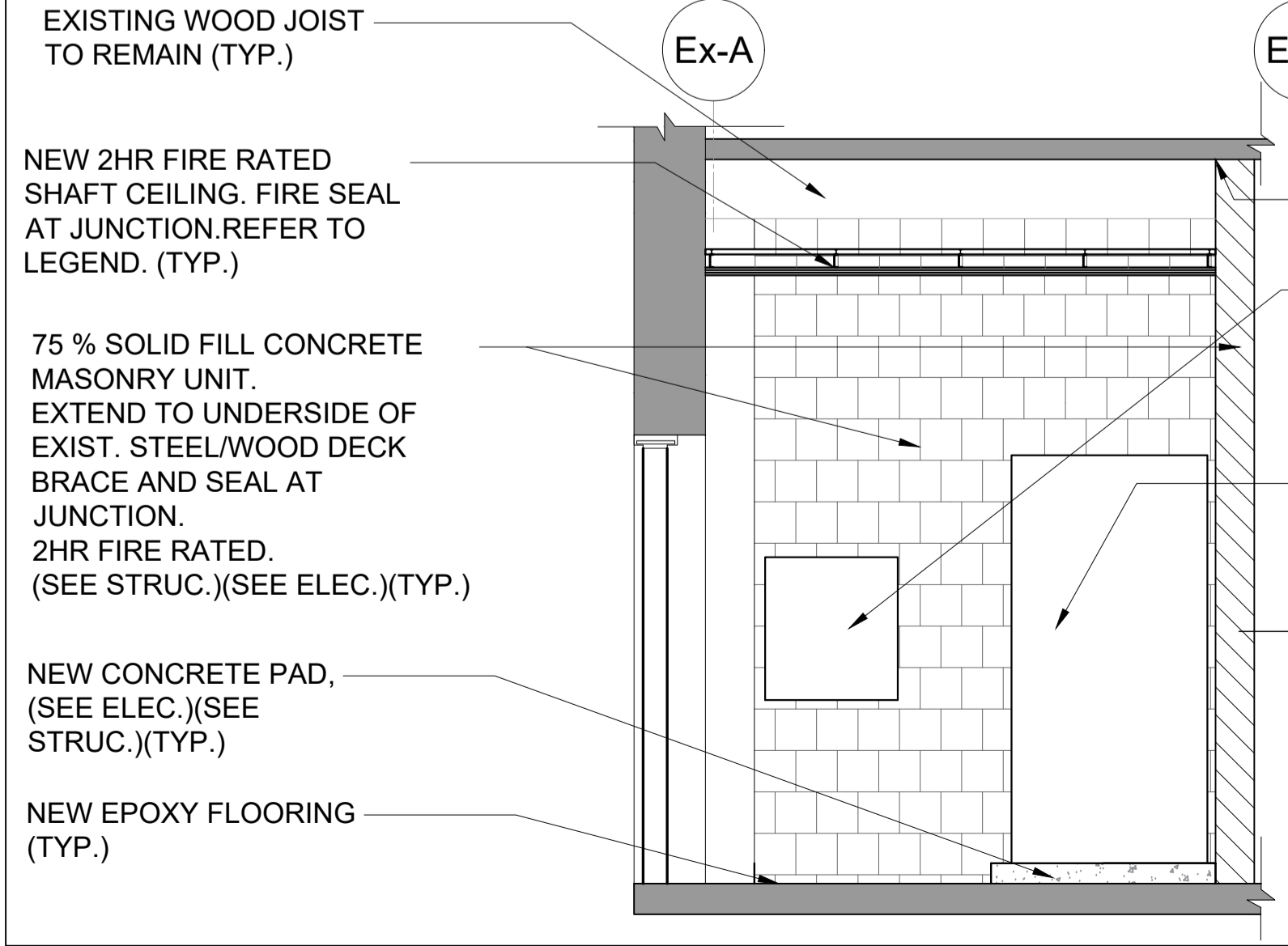
GENERAL CONTRACTOR IS RESPONSIBLE TO CUT, REPAIR, PATCH, FIRESTOP AND INFILL EXISTING WALL AND FLOOR TO ACCOMMODATE NEW ELECTRICAL CONDUIT AND MECHANICAL PIPE OPENING, TYP.

GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ELECTRICAL, SECURITY, MECHANICAL CONTRACTOR FOR LOCATION AND NUMBER OF THE OPENINGS FOR THE WALL AND FLOOR PENETRATION, TYP.

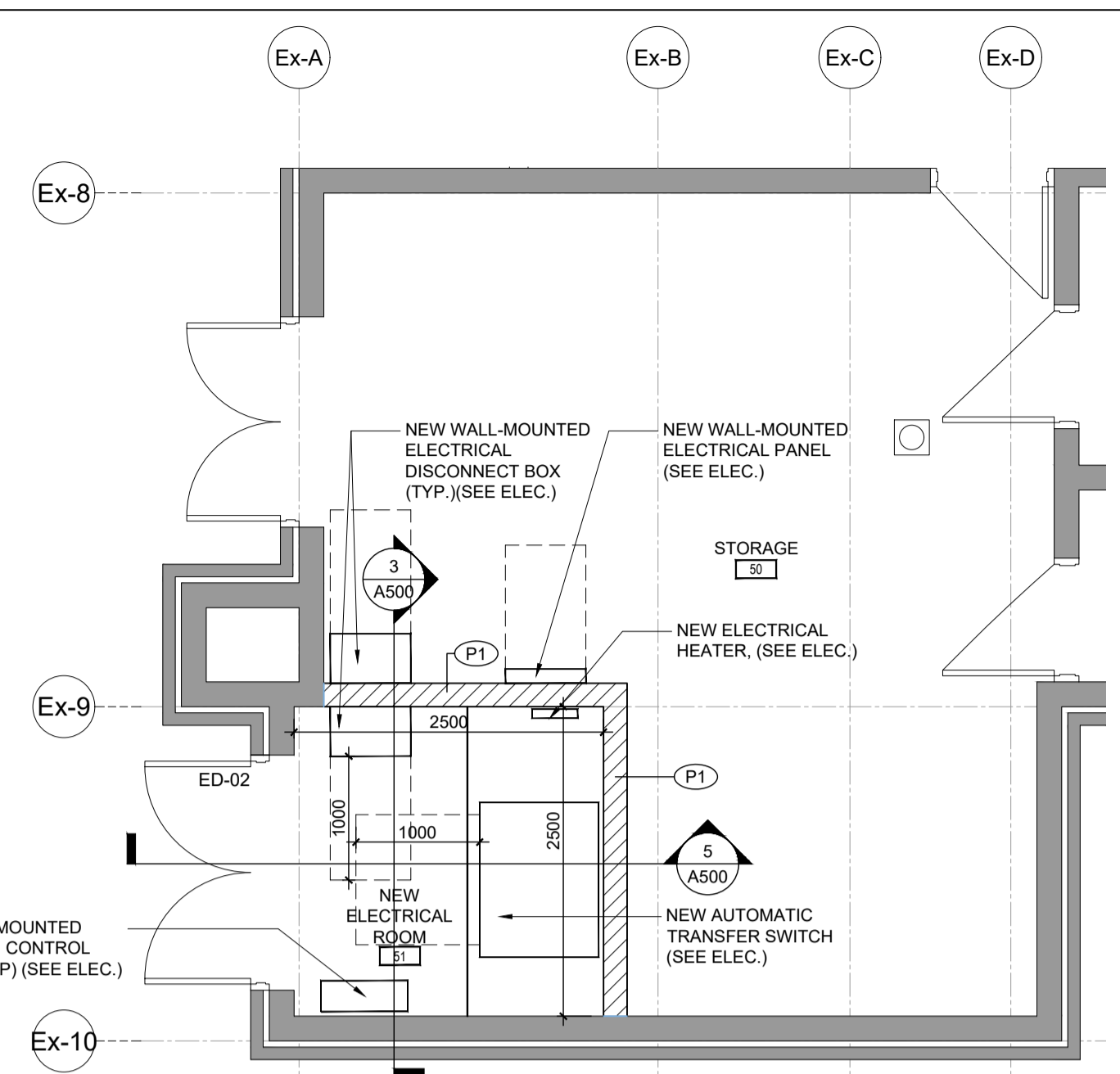
FLOOR DEMOLITION NOTES	
1.	ALL FLOOR AREAS WHERE EXISTING FLOOR FINISH HAS BEEN REMOVED TO ACCOMMODATE NEW FINISHES TO BE PROPERLY PREPARED WITH LEVELING COMPOUND UP TO ± 2" THICK, SMOOTH & CLEAN TO RECEIVE NEW FLOORING. REFER TO FLOOR FINISH PLAN AND SECTIONS FOR NEW FINISH FLOOR LEVELS.
2.	REPAIR, PATCH, MAKE GOOD AT WALL AND FLOOR JUNCTIONS AND PAINT FINISH TO ALL RELATED EXISTING AREAS TO ACCOMMODATE NEW MECHANICAL & ELECTRICAL MODIFICATIONS, FIXTURES AND NEW CONNECTIONS.
3.	CONTRACTOR IS RESPONSIBLE FOR X-RAY STUDY OF EXISTING CONCRETE FLOOR SLAB BEFORE CUTTING TO ENSURE STRUCTURAL INTEGRITY OF THE FLOOR SLAB AND NO EXISTING UNDERGROUND SERVICES TO BE AFFECTED.
4.	REFER TO FLOOR FINISH PLAN, ROOM FINISH SCHEDULE AND ELECTRICAL/MECHANICAL PLANS TO MAKE NECESSARY CHANGES OR DEMOLITION TO MATCH NEW LAYOUT AND FINISHES, NEW MECHANICAL / ELECTRICAL MODIFICATION AND CONNECTIONS.
5.	GENERAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL TEMPORARY PLYWOOD FLOORING TO COVER TRENCH WORK UNTIL FLOOR FINISH WORK IS COMPLETE.



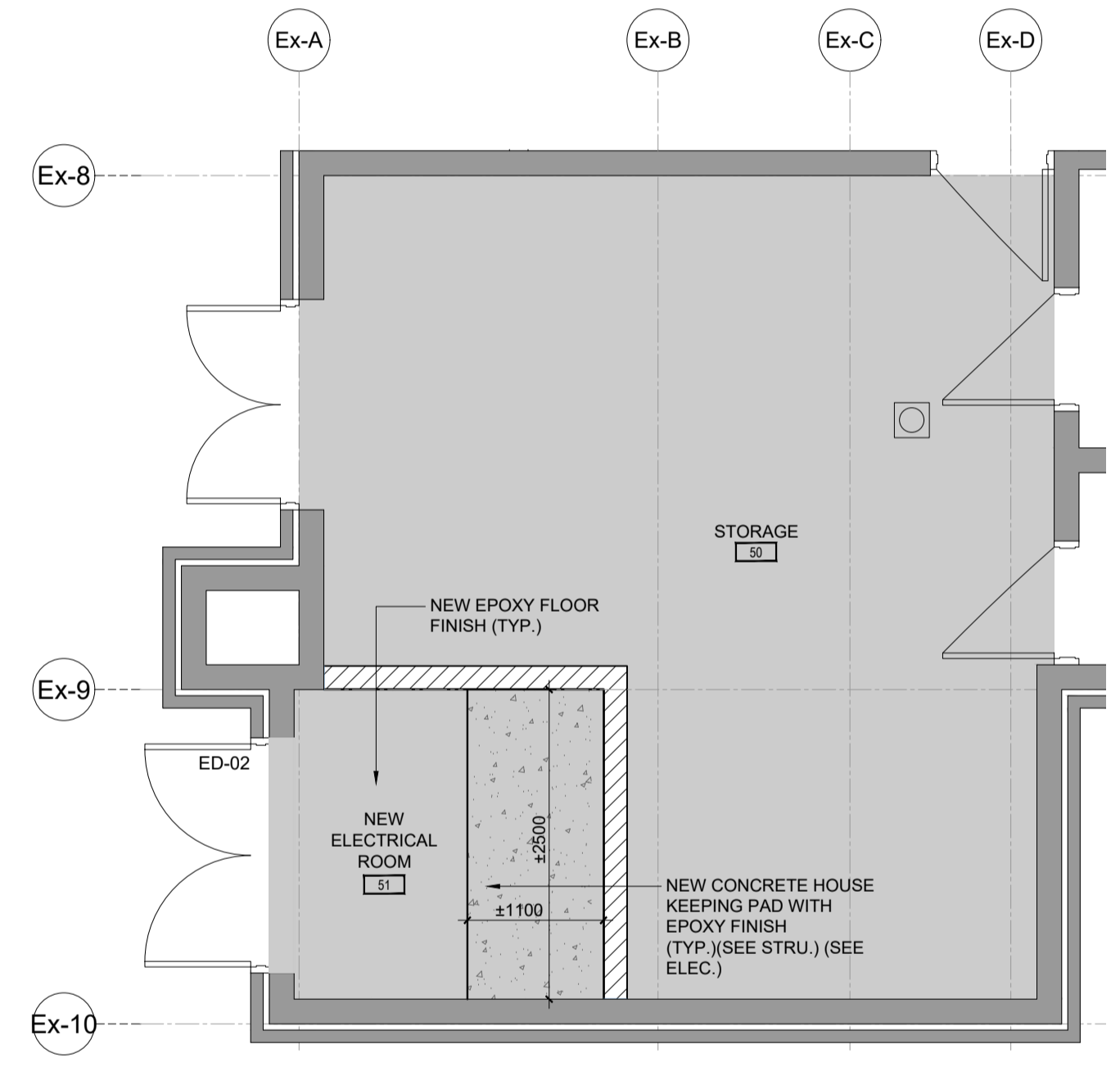
3 NEW ELECTRICAL ROOM- SECTION A
SCALE: 1:50



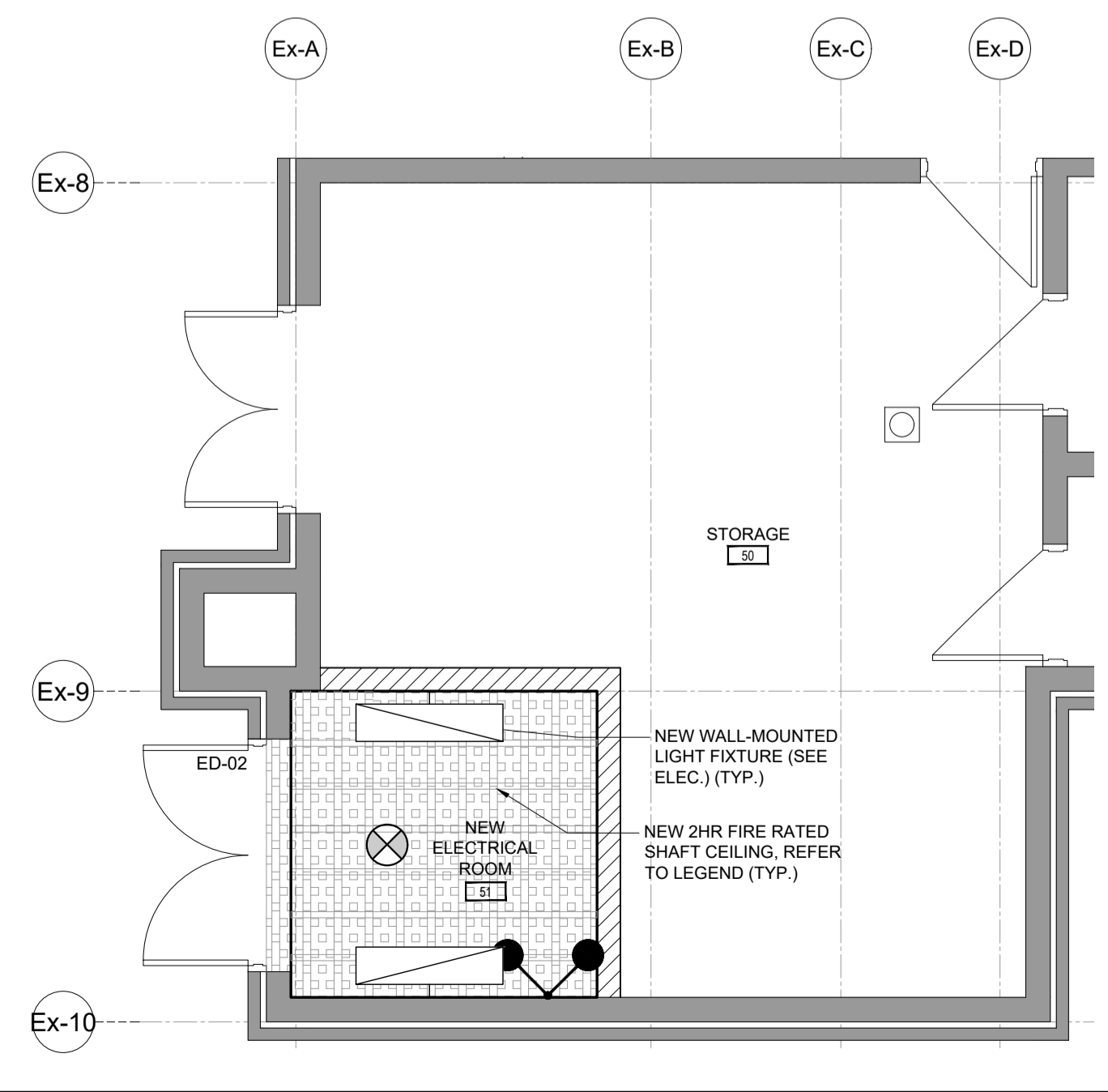
5 NEW ELECTRICAL ROOM- SECTION B
SCALE: 1:50



2 NEW ELECTRICAL ROOM PLAN- NEW
SCALE: 1:50



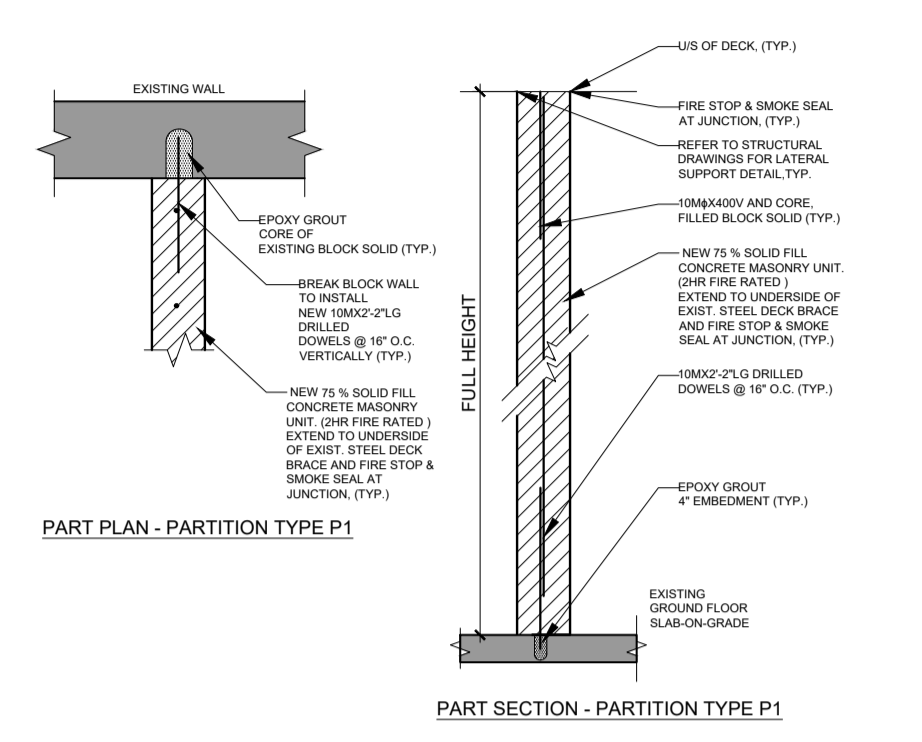
4 NEW ELECTRICAL ROOM- FLOOR PLAN- NEW
SCALE: 1:50



6 NEW ELECTRICAL ROOM- REFLECTED CEILING PLAN- NEW
SCALE: 1:50

5. GENERAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL TEMPORARY PLYWOOD FLOORING TO COVER TRENCH WORK UNTIL FLOOR FINISH WORK IS COMPLETE.

PARTITION TYPES LEGEND		
TAG	GRAPHIC	DESCRIPTION
(P1)		75 % SOLID FILL CONCRETE MASONRY UNIT. EXTEND TO UNDERSIDE OF EXIST. STEEL DECK BRACE AND SEAL AT JUNCTION, (TYP.) 2HR FIRE RATED



FLOOR FINISH NEW LEGEND	
	NEW EPOXY FLOOR FINISH (3 COATS), TYP.
	NEW CONCRETE HOUSE KEEPING PAD WITH EPOXY FINISH 3-COATS (TYP.)(SEE STRU.) (SEE ELEC.)
<input checked="" type="checkbox"/> EX	EXISTING FLOOR DRAIN, SEE MECH., TYP.
N.I.C.	NOT IN CONTRACT
EX.	EXISTING
TYP.	TYPICAL

REFLECTED CEILING PLAN NEW LEGEND	
	NEW 2HR FIRE RATED SHAFT CEILING, TYP. (Design Reference: WHI-495-PSH-0183, WHI-495-PSH-0196) - 1 LAYER OF 25.4 mm (1") TOUGHROCK SHAFTLINER - 64 mm (2-1/2") C-H STUDS @ 600 mm (24") O.C. - 3 LAYERS OF 12.7 mm (1/2") TOUGHROCK FIREGUARD-C GYPSUM PANEL
	NEW WALL-MOUNTED LIGHT FIXTURE LIGHT FIXTURE, SEE ELEC. TYP.
	NEW DUAL HEAD REMOTE EMERGENCY LIGHT, SEE ELEC., TYP.
	NEW SMOKE DETECTOR, SEE ELEC. TYP.

ISSUES	
NO.	DESCRIPTION
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3	ISSUED FOR 50% CLIENT REVIEW
4	ISSUED FOR BUILDING PERMIT
5	ISSUED FOR 90% CLIENT REVIEW
6	ISSUED FOR TENDER CLIENT REVIEW
7	ISSUED FOR BUILDING PERMIT
8	ISSUED FOR TENDER

REVISIONS	
NO.	DESCRIPTION

MISSISSAUGA

ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT

735 Central Parkway W,
Mississauga, ON L5C 4H4

NGA ARCHITECTS

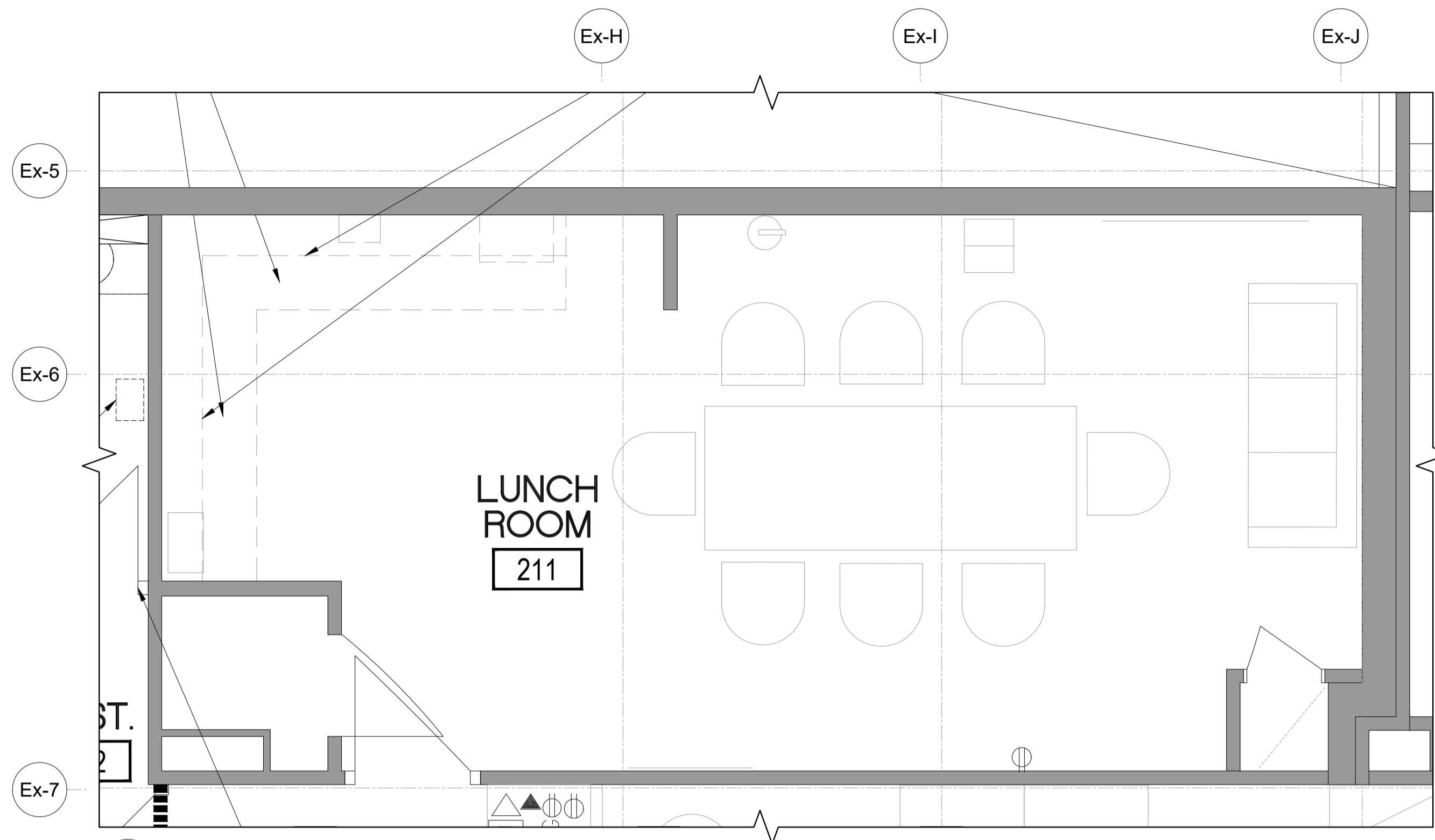
220 DUNCAN MILL RD.
SUITE 218
TORONTO, ONTARIO
M5E 3J7
TEL: 416 367 8877
FAX: 416 367 9655
www.nga.com

ISSUED FOR CONSTRUCTION

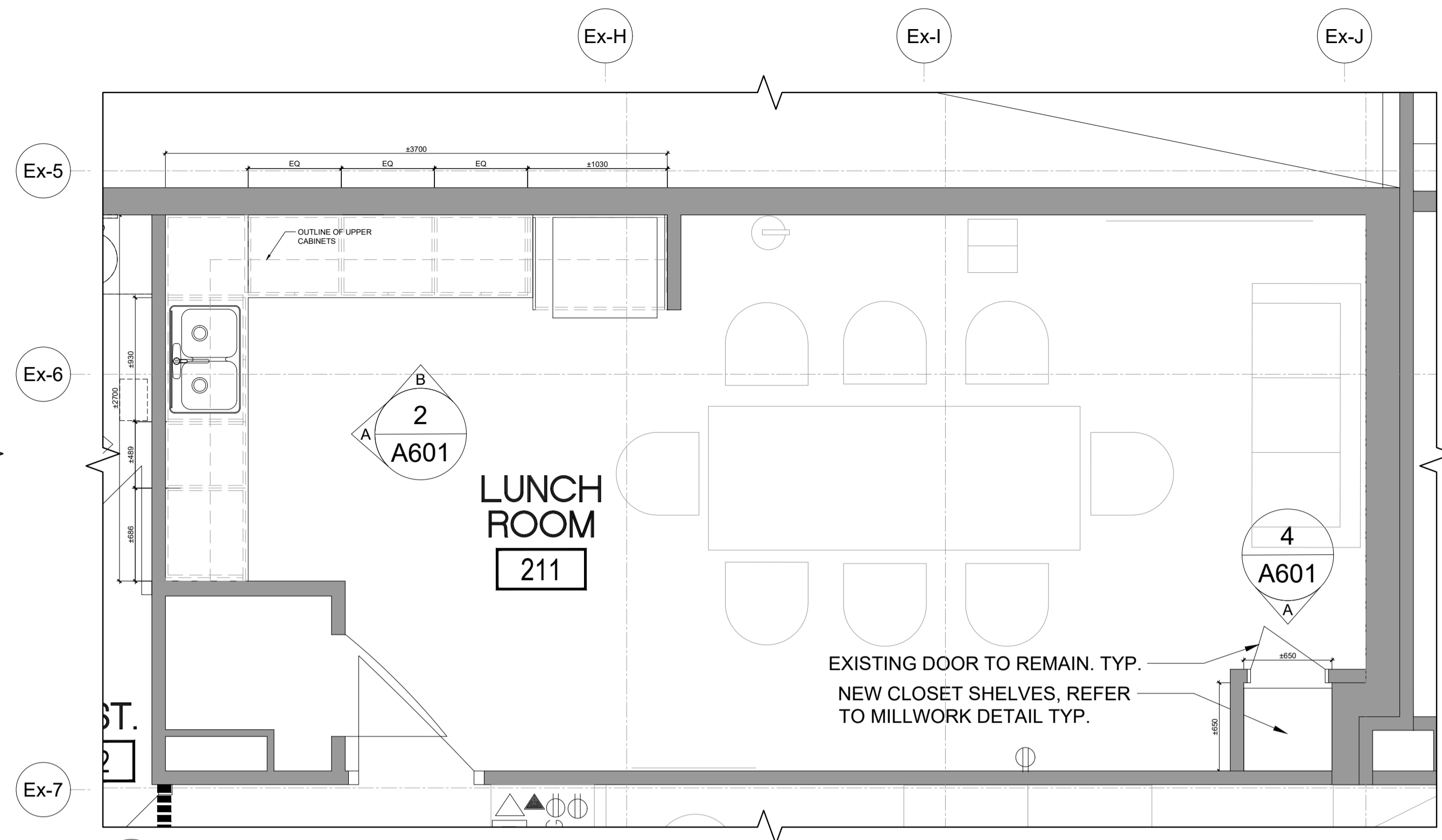
PROJECT NO: 2320761
SHEET NO: A500

DESIGNED BY: MM
CHECKED BY: RN/AA

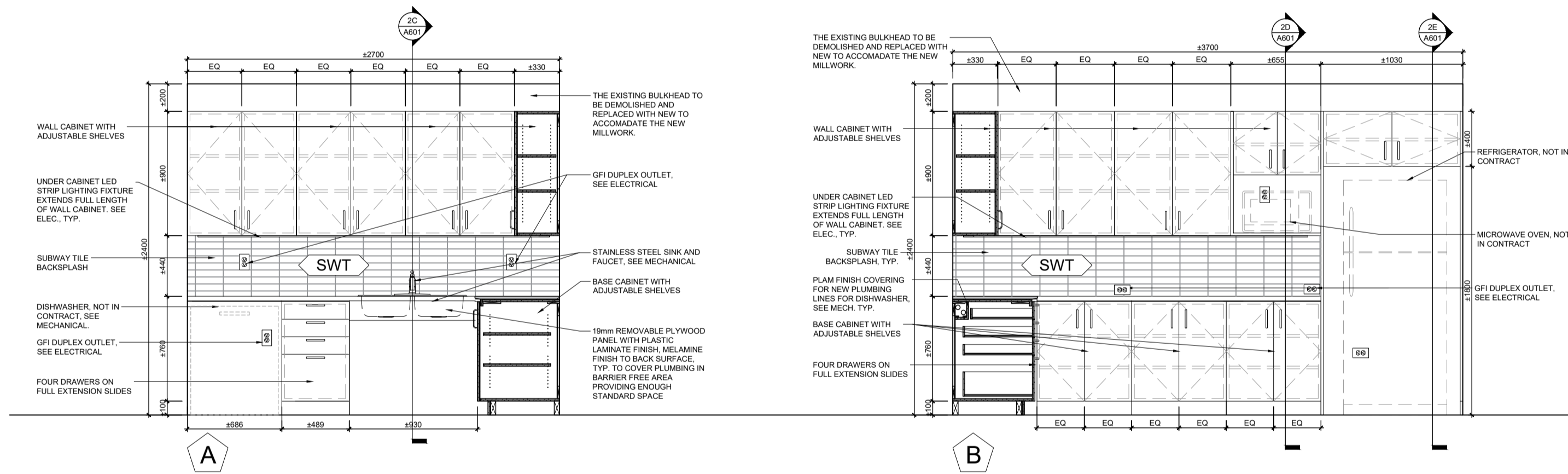
PROJECT NO: 2320761
SCALE: AS NOTED



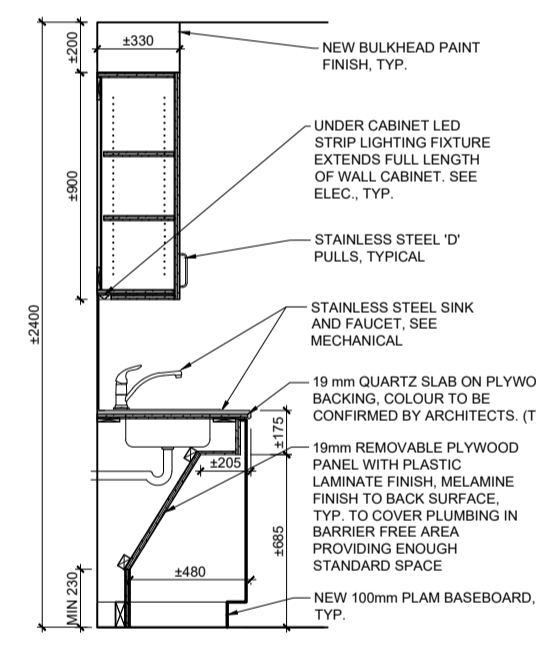
1 LUNCHROOM - DEMOLITION PLAN
SCALE: 1:30



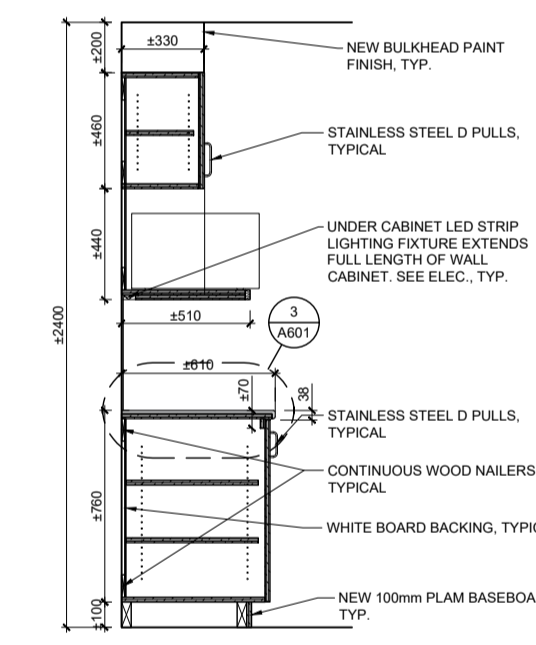
1 LUNCHROOM - NEW MILLWORK PLAN
SCALE: 1:30



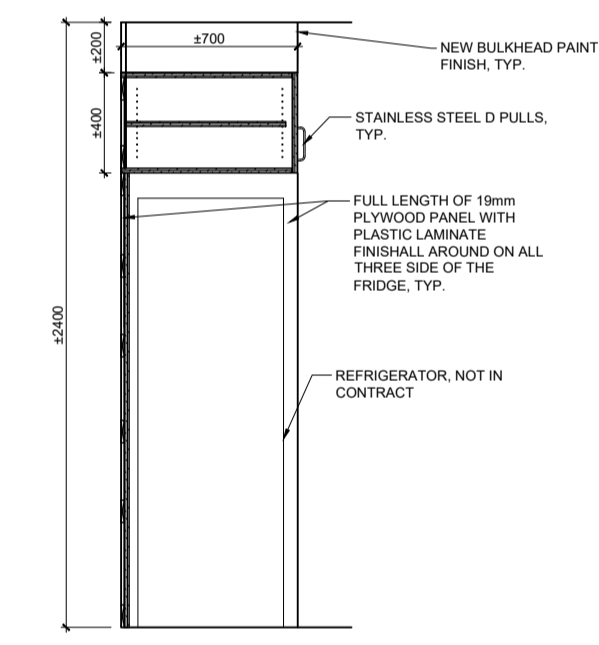
2 LUNCHROOM - NEW INTERIOR ELEVATIONS
SCALE: 1:30



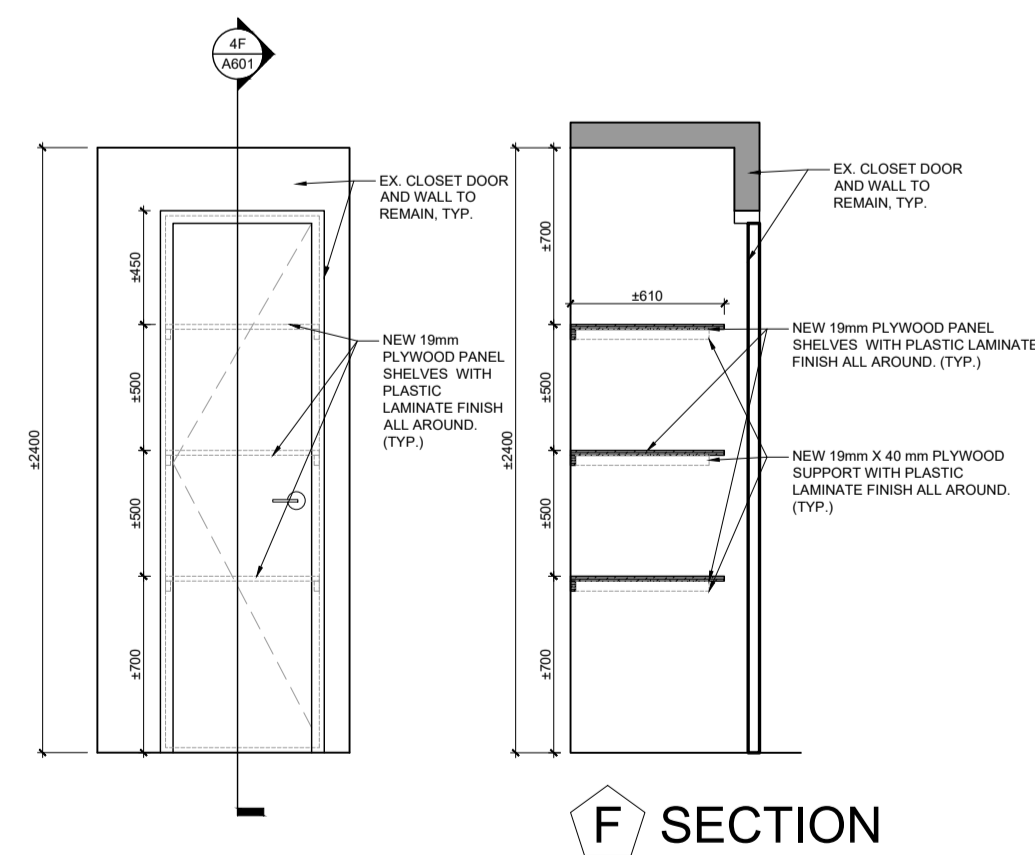
C SECTION



D SECTION



E SECTION



F SECTION

3 LUNCHROOM - NEW DETAIL
SCALE: 1:5

4 LUNCHROOM - CLOSET MILLWORK
SCALE: 1:5

TYPICAL CONSTRUCTION FOR ALL KITCHEN MILLWORK:

UPPER AND LOWER CABINET GABLES, DOORS, AND DRAWER FRONTS, CONSTRUCTED OF 19mm PLYWOOD WITH PLASTIC LAMINATE FINISH TO ALL EXPOSED SURFACES, TYPICAL

6mm WHITE MELAMINE HARDBOARD BACKING ON CONTINUOUS WOOD NAILERS, TYPICAL

19mm PLYWOOD ADJUSTABLE SHELF WITH MELAMINE FINISH, SUPPORTED ON 5mm SHELF PINS. DRILL HOLES 25mm ON CENTRE, TYPICAL FOR ALL CABINETS

DRAWER SIDES CONSTRUCTED OF 13mm PLYWOOD, DRAWER BOTTOMS CONSTRUCTED OF 6mm PLYWOOD, MELAMINE FINISH TO ALL EXPOSED SURFACES, TYPICAL

COUNTERTOP CONSTRUCTED OF 19mm QUARTZ SUPPORTED ON 19mm PLYWOOD BACKING, TYPICAL.

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5	ISSUED FOR 10% CLIENT REVIEW 10 NOV 2023
6	ISSUED FOR TENDER CLIENT REVIEW 08 DEC 2023
7	ISSUED FOR TENDER 07 FEB 2024
8	ISSUED FOR TENDER 05 JUL 2024

REVISIONS

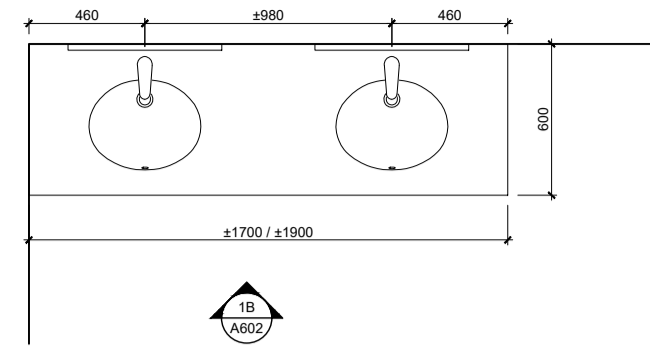
PROJECT

MISSISSAUGA
ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT
735 Central Parkway W,
Mississauga, ON L5C 4H4

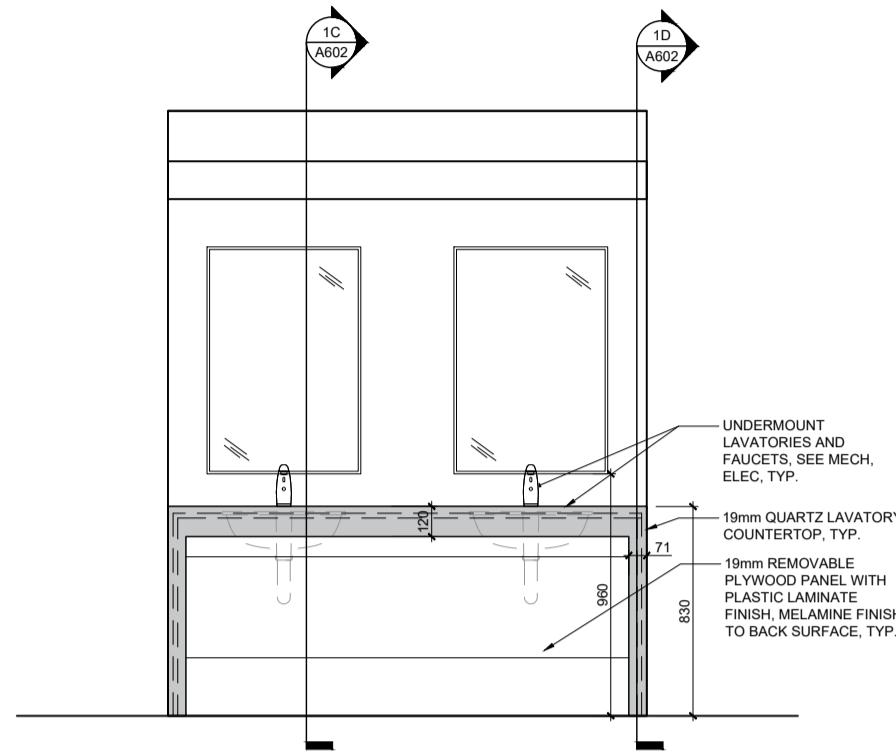
NGA ARCHITECTS
220 DUNCAN MILL RD.
SUITE 219
TORONTO, ONTARIO
M5E 3J5
TEL: 416 367 8877
FAX: 416 367 9655
www.nga.com

ISSUED FOR CONSTRUCTION	DATE
PROJECT NO.	STRUCTURAL CONSULTANT
MM	EXP SERVICES INC.
MECHANICAL CONSULTANT	EXP SERVICES INC.
ELECTRICAL CONSULTANT	EXP SERVICES INC.

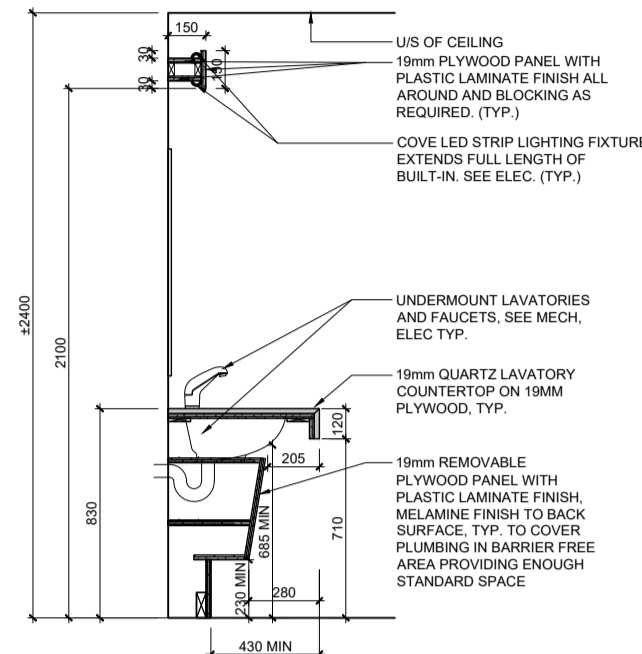
SHEET TITLE	
PARTIAL SECOND FLOOR - MILLWORK - LUNCH ROOM	
SHEET NO.	PROJECT NO.
A601	2320761
SCALE	AS NOTED



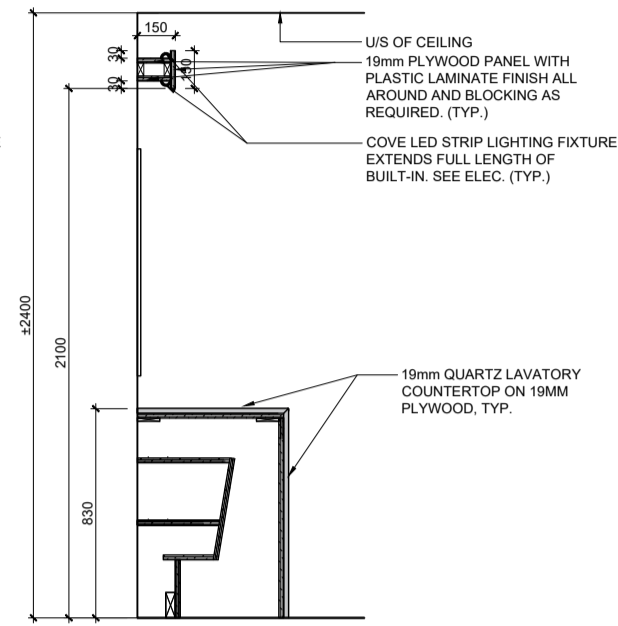
A PLAN



B ELEVATION

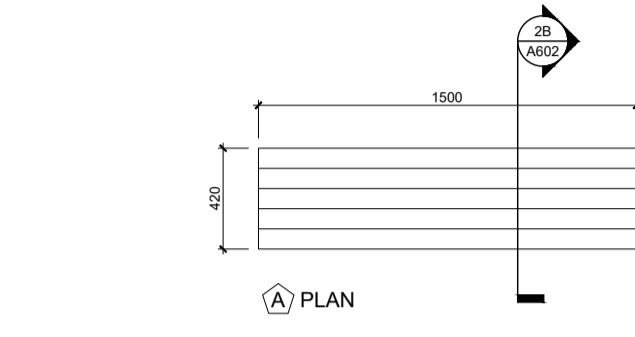


C SECTION

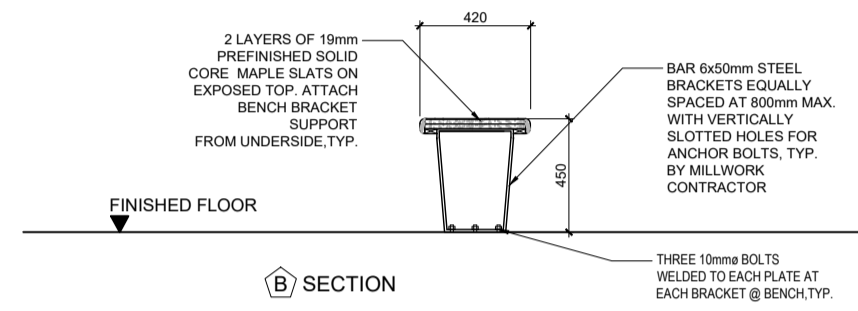


D SECTION

1 MALE & FEMALE CHANGE ROOMS - NEW SINK MILLWORK
SCALE: 1:30

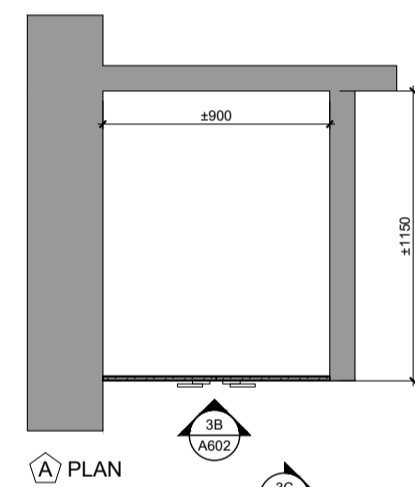


A PLAN

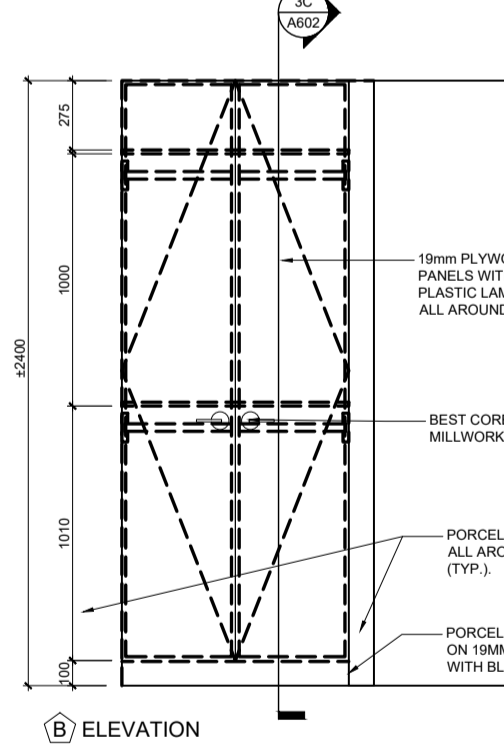


B SECTION

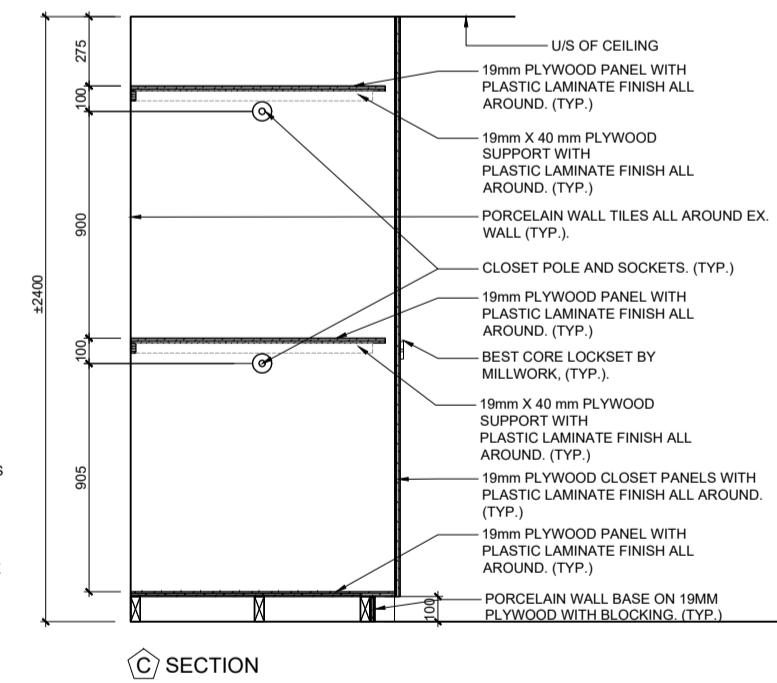
2 MALE & FEMALE CHANGE ROOMS - NEW BENCH MILLWORK
SCALE: 1:30



A PLAN



B ELEVATION



C SECTION

3 MALE CHANGE ROOM - NEW CLOSET MILLWORK
SCALE: 1:30

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8	ISSUED FOR TENDER	05 JUL 2024

REVISIONS

PROJECT

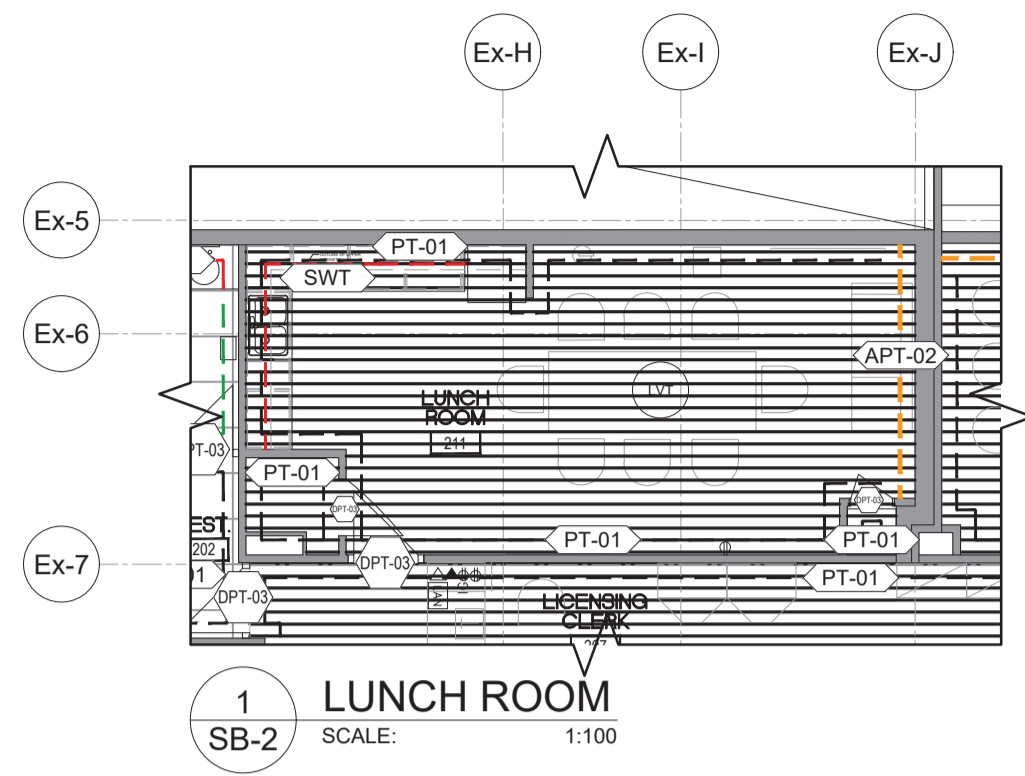
MISSISSAUGA
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CENTRE
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PROJECT
735 Central Parkway W,
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ISSUED FOR CONSTRUCTION	DATE
PROJECT NO:	STRUCTURAL CONSULTANT
	EXP SERVICES INC.
	MECHANICAL CONSULTANT
	EXP SERVICES INC.
	ELECTRICAL CONSULTANT
	EXP SERVICES INC.

SHEET TITLE: PARTIAL SECOND FLOOR - MILLWORK - MALE & FEMALE CHANGEROOMS

SHEET NO:	DESIGN BY:	CHECKED:
A602	MM	RN/AA
PROJECT NO:	SCALE:	
2320761	AS NOTED	



GENERAL CABINET

Wilsonart Cabinet Doors - Laminate Color: Sabine Walnut 8254K-05	Wilsonart Cabinet Doors - Laminate Color: Coronado Oak 8244K-28	Wilsonart Cabinet Doors - Laminate Color: Portico Teak 8210K-28	Wilsonart Cabinet Doors - Laminate Color: Daintree 8235K-05
General Cabinet - Option 1	General Cabinet - Option 2	General Cabinet - Option 3	General Cabinet - Option 4

QUARTZ COUNTERTOP FINISH

Corian Quartz Color: Calacatta Medallion
Quartz Counter Top - Option 1

LUXURY VINYL TILE (LVT)

Armstrong Luxury Vinyl Tile Biome - Montane Mont Blanc: ST250 153mmx1219mm (6"x48")	Armstrong Luxury Vinyl Tile Biome - Montane Natterhorn: ST251 153mmx1219mm (6"x48")	Armstrong Luxury Vinyl Tile Biome - Montane Kilimanjaro: ST252 153mmx1219mm (6"x48")	Armstrong Luxury Vinyl Tile Biome - Montane Uluru: ST253 153mmx1219mm (6"x48")
LVT - General WOOD-LOOK LUXURY VINYL TILE - Option 1	LVT - General WOOD-LOOK LUXURY VINYL TILE - Option 2	LVT - General WOOD-LOOK LUXURY VINYL TILE - Option 3	LVT - General WOOD-LOOK LUXURY VINYL TILE - Option 4

Either option 2 or 3 depending upon the new lighter grey option

SUBWAY WALL TILE (SWT)

Centura Costa Nova Series Color: Beige Pale CON28452 Finish- Glossy 50mmx200mm (2"x8")	Centura Costa Nova Series Color: Baby Blue CON28447 Finish- Glossy 50mmx200mm (2"x8")	Centura Costa Nova Series Color: Grey CON28444 Finish- Glossy 50mmx200mm (2"x8")
SWT - Back Splash - Option 1	SWT - Back Splash - Glass Tile- Option 2	SWT - Back Splash - Option 3

Tentative approval waiting for other light grey wall tile option

Corian Quartz Color: Geo Grigio
Quartz Counter Top - Option 2

Corian Quartz Color: Portoro
Quartz Counter Top - Option 3

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PROJECT

MISSISSAUGA

ANIMAL SERVICES
CENTRE

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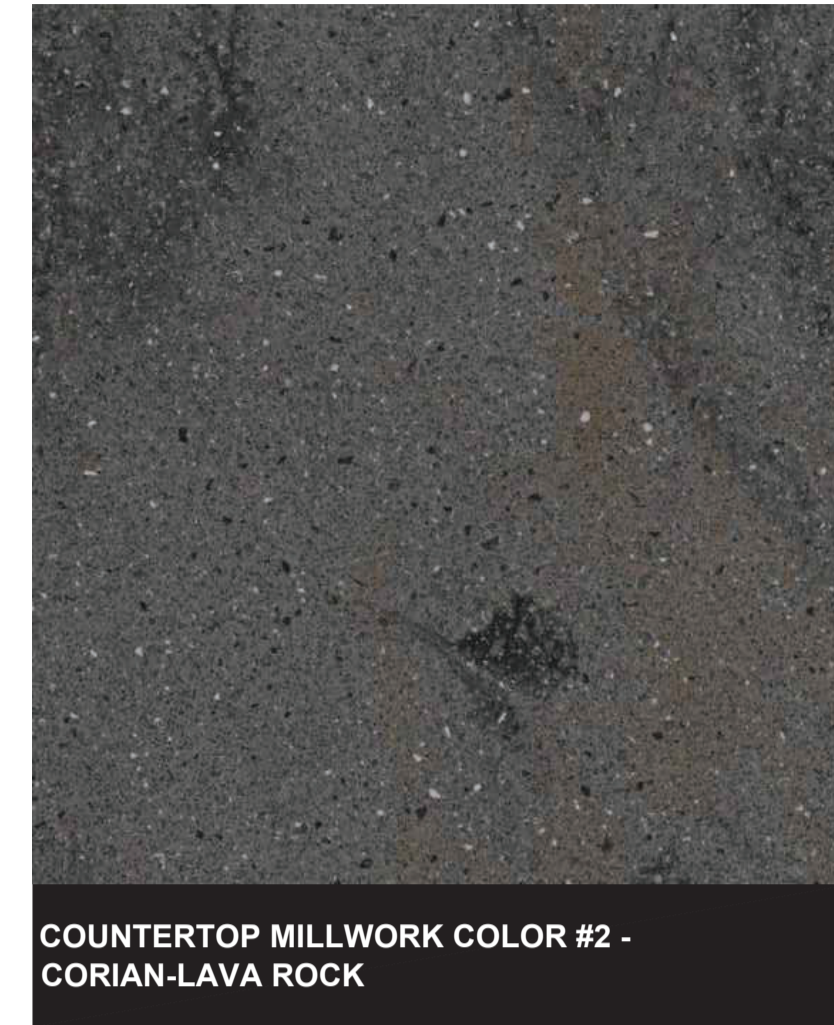
ISSUED FOR CONSTRUCTION DATE

PROJECT NO:	MM	SCHEDULE:	RN/AA
SHEET NO:	SB-2	PROJECT NO:	2320761
SCALE:	AS NOTED		

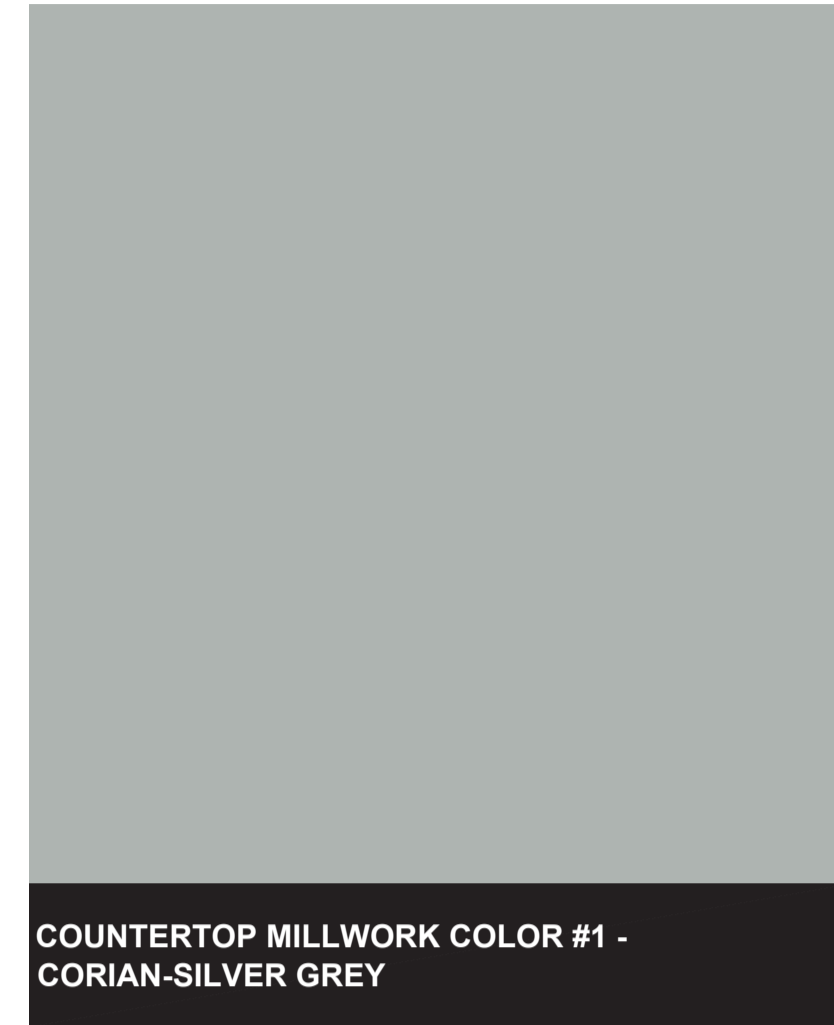
GROUND FLOOR RECEPTION AREA CoM APPROVED FINISHES



RESILIENT FLOORING - ALTRO FLOORING WITH COVE BASE TEMPLE - D2509



COUNTERTOP MILLWORK COLOR #2 - CORIAN-LAVA ROCK

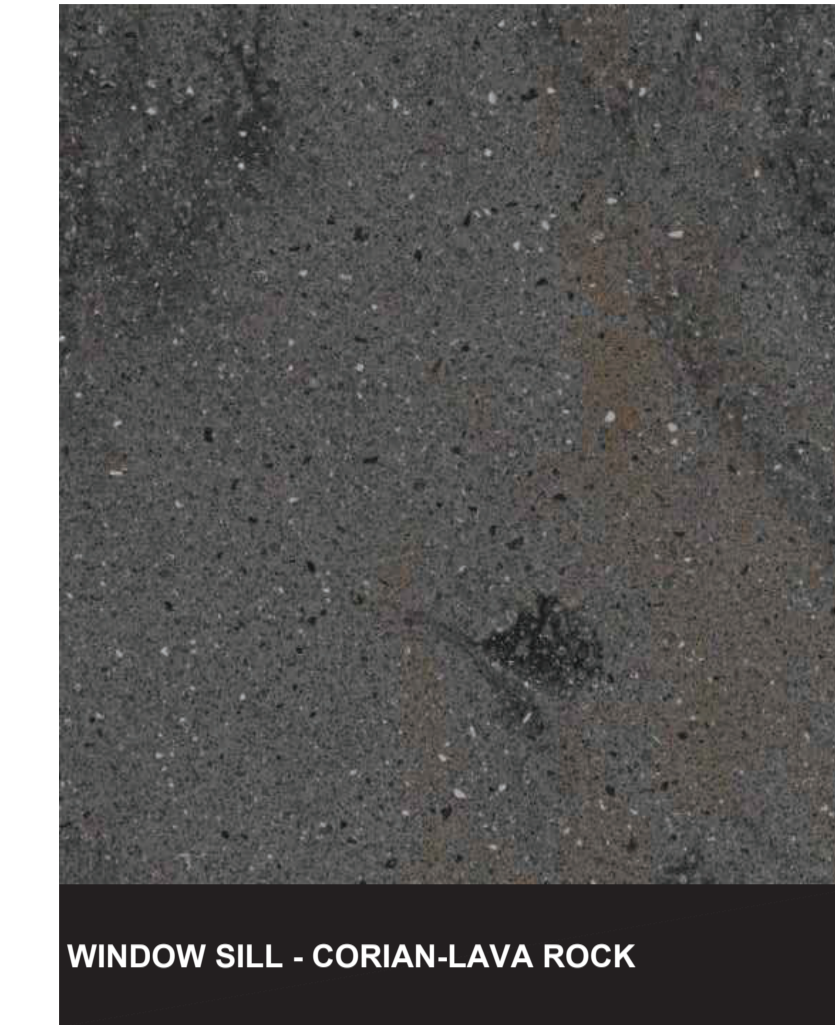


COUNTERTOP MILLWORK COLOR #1 - CORIAN-SILVER GREY

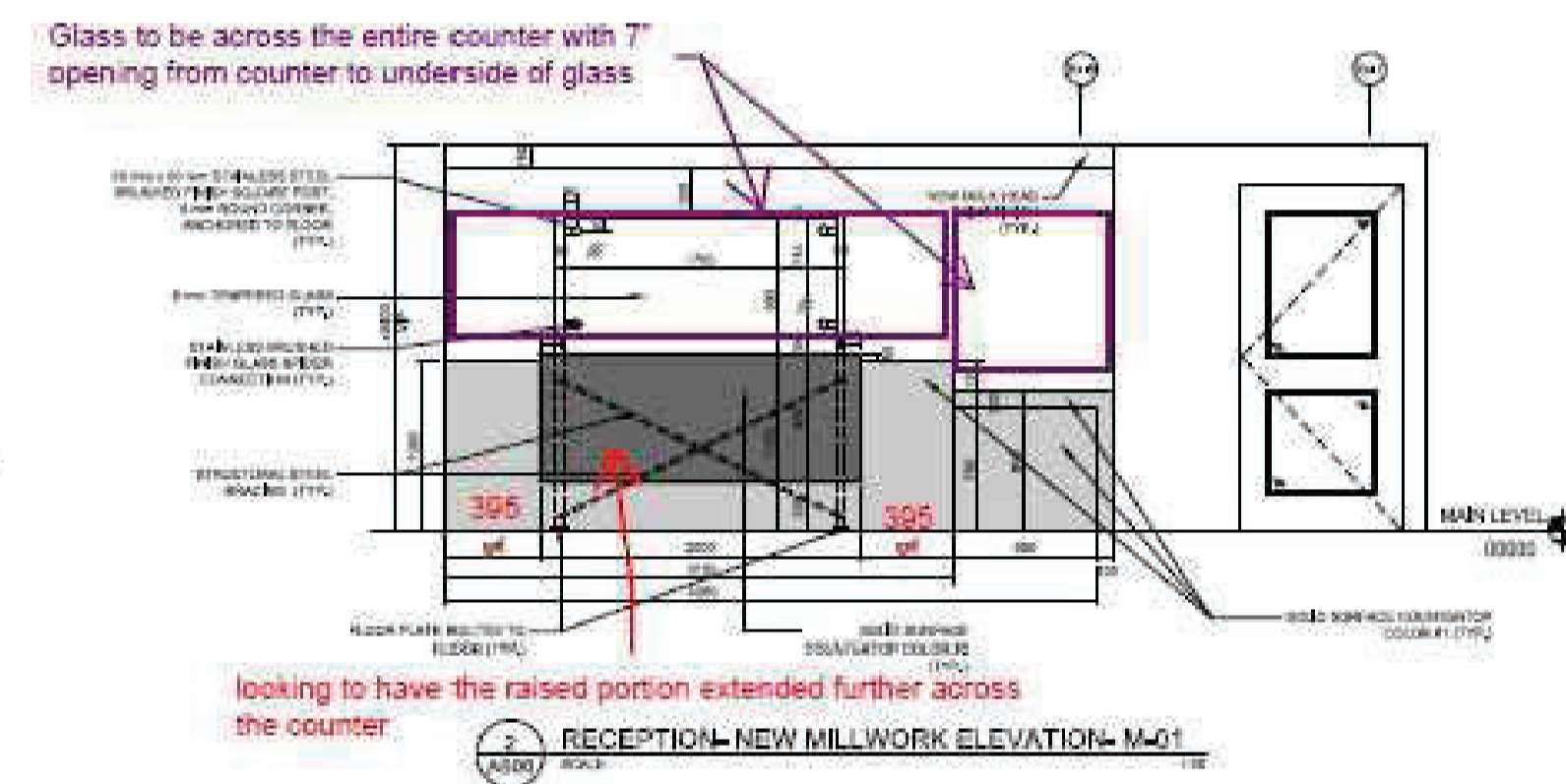
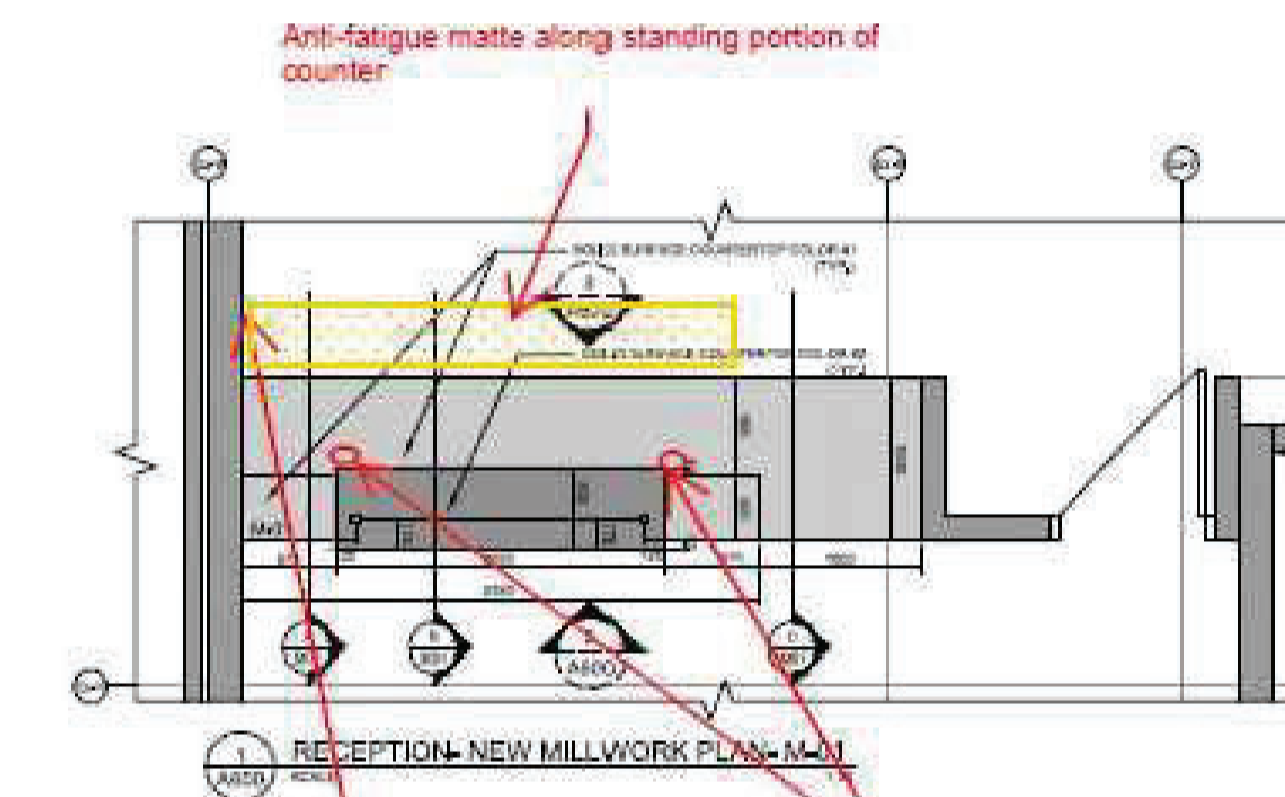


MILLWORK PLAM FINISH - WILSONART-DAINTREE 8235K-05

WINDOW SILL CoM APPROVED FINISH

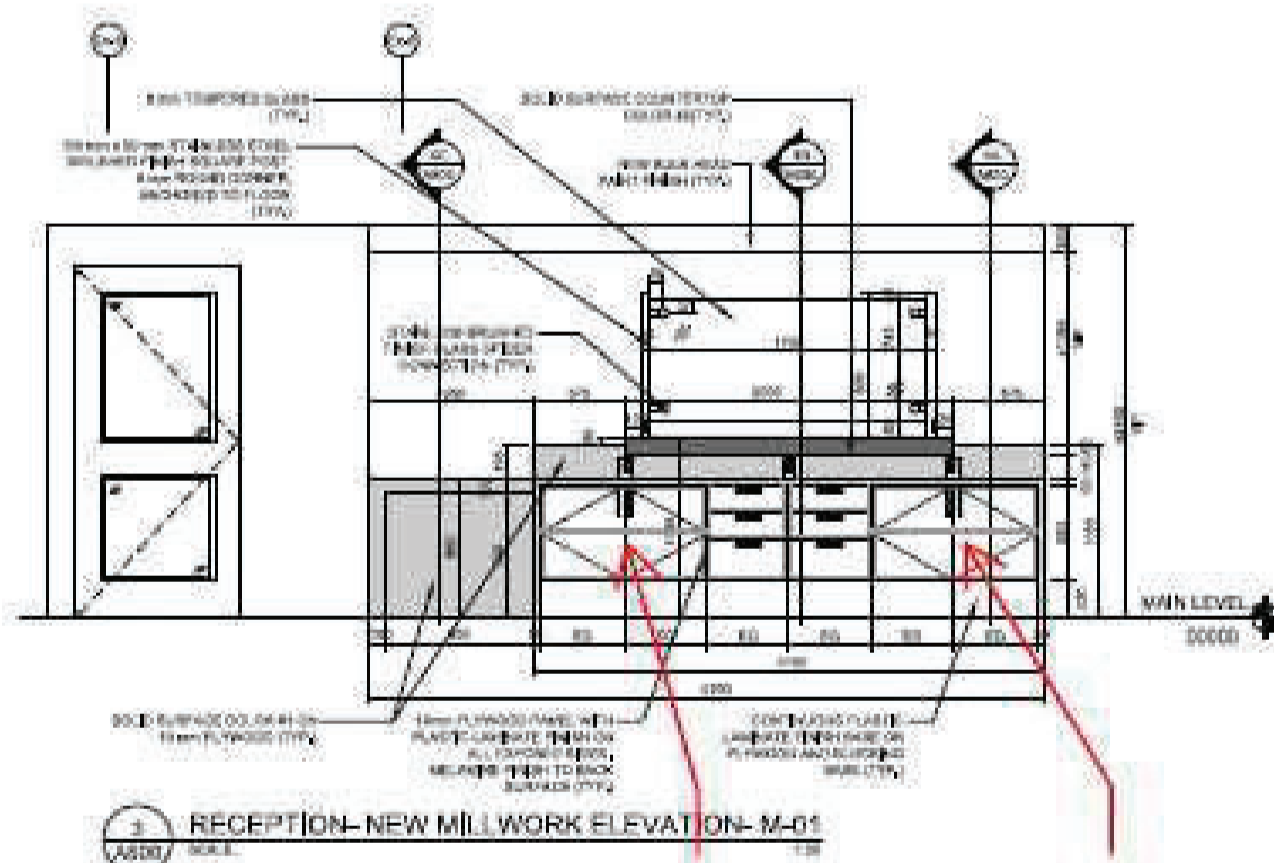


WINDOW SILL - CORIAN-LAVA ROCK

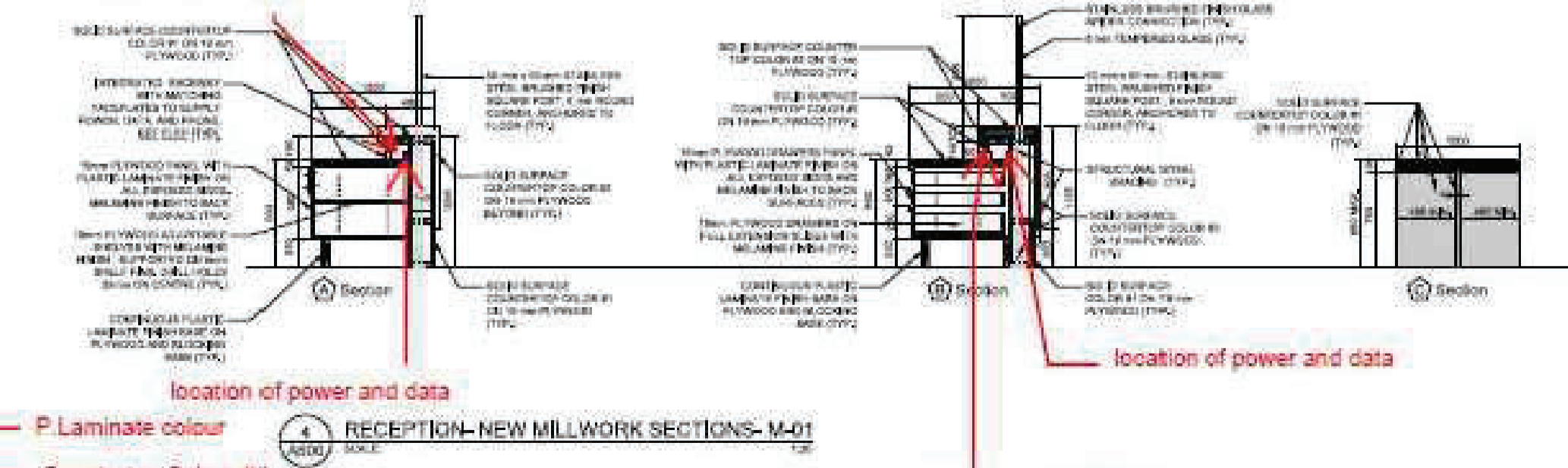


single monitor arm to be installed, location TBD on site

Existing counter has 2 duress buttons that will need to be relocated to new counter

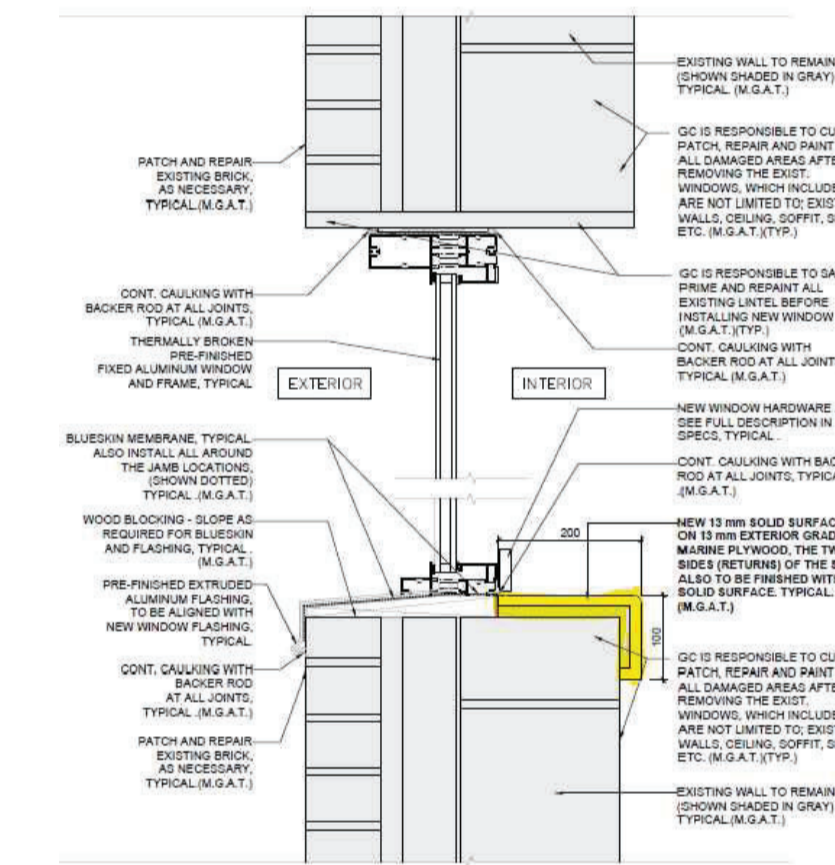


open raceway to allow for storage of items under raised portion of counter matches existing and preferred design



P Laminate colour
Countertop Colour #1
Countertop Colour #2

open raceway to allow for storage of items under raised portion of counter matches existing and preferred design



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REVISIONS

MISSISSAUGA

ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

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NGA ARCHITECTS

200 DUNCAN MILL RD. SUITE 218 TORONTO, ONTARIO M9B 3J2 TEL: 416 367 8877 FAX: 416 367 8655 www.nga.com

ISSUED FOR CONSTRUCTION DATE

PROJECT NORTH STRUCTURAL CONSULTANT: EXP SERVICES INC. MECHANICAL CONSULTANT: EXP SERVICES INC. ELECTRICAL CONSULTANT: EXP SERVICES INC.

SHEET TITLE: SAMPLE BOARD - MAIN FLOOR

SHEET NO: SB-4 DRAWN BY: MM CHECKED BY: RN/AA PROJECT NO: 2320761 SCALE: AS NOTED

GENERAL ABBREVIATIONS			
*C	DEGREES FAHRENHEIT	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
°C	DEGREES CELSIUS	MCA	MINIMUM CIRCUIT AMPS
Ø	DIAMETER	MCC	MOTOR CONTROL CENTER
AD	ACCESS DOOR	ME	MOISTURE ELIMINATOR
ADJ	ADJUSTABLE	MECH	MECHANICAL
AF	ABOVE FINISHED FLOOR	MEZZ	MEZZANINE
AFG	ABOVE FINISHED GRADE	MFR	MANUFACTURER
ARCH	ARCHITECT	MIN	MINIMUM
ATC	AUTOMATIC TEMPERATURE CONTROL	MOCPP	MAXIMUM OVERCURRENT PROTECTION
ATV	ATMOSPHERIC VENT	MTD	MOUNTED
BFF	BELOW FINISHED FLOOR	N/A	NOT APPLICABLE
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED OR NOISE CRITERIA
BMS	BUILDING MANAGEMENT CONTROL SYSTEM	NIC	NOT IN CONTRACT
BTU	BOTTOM OF PIPE	NO	NORMALLY OPEN OR NUMBER
BTU	BRITISH THERMAL UNIT	NOM	NOMINAL
BTU/H	BRITISH THERMAL UNIT PER HOUR	NTS	NOT TO SCALE
CL	CEILING	OB	OCTAVE BAND
CL	CENTERLINE	OC	ON CENTER
COLUMN	COLUMN	ODP	OPEN DRIP PROOF
CONC	CONCRETE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CUBIC	CUBIC FEET	OFI	OWNER FURNISHED OWNER INSTALLED
CYL	CYLINDER	OV	OUTLET VELOCITY
DB	DRY BULB TEMPERATURE	PCF	POUNDS PER CUBIC FOOT
DDC	DIRECT DIGITAL CONTROL	PD	PRESSURE DROP
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	PH	PHASE
DM	DIMENSION	PLB	PLUMBING
DN	DOWN	POC	POINT OF CONNECTION
DP	DIFFERENTIAL PRESSURE	POD	POINT OF DEMARCATION
DWG	DRAWING	POS	POSITION OR POSITIVE
EA	EACH	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
EFF	EFFICIENCY	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEV	ELEVATION	RC	ROOM CRITERIA (NOISE)
EMER	EMERGENCY	RET	RETURN
ENT	ENTERING	REQD	REQUIRED
EQUIP	EQUIPMENT	RH	RELATIVE HUMIDITY
EXH	EXHAUST	RM	ROOM
EXP	EXPANSION	RPM	REVOLUTIONS PER MINUTE
(E)	EXISTING	SC	SENSIBLE COOLING
EXTRM	EXISTING TO BE REMOVED	SCH	SCHEDULE
ETR	EXISTING TO REMAIN	SH	SENSIBLE HEAT
FA	FIRE ALARM	SHT	SHEET
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FFOP	FIREFIGHTERS OVERRIDE PANEL	SQ	SQUARE
FLR	FLOOR	SQFT	SQUARE FEET
FR	FIRE PROTECTION	SS	STAINLESS STEEL
FRM	FEET PER MINUTE	STD	STANDARD
FT/SEC	FEET PER SECOND	SUP	SUPPLY
FURN	FURNISHED	TAV	THERMOSTATIC AIR VENT
FVNR	FULL VOLTAGE NON-REVERSING	TEFC	TOTALLY ENCLOSED FAN COOLED
GA	GAUGE	TEMP	TEMPERATURE
GAL	GALLONS	TOD	TOP OF DUCT
GALV	GALVANIZED	TON	TONS OF REFRIGERATION
GPH	GALLONS PER HOUR	TOP	TOP OF PIPE
GPM	GALLONS PER MINUTE	UNO	UNLESS NOTED OTHERWISE
GYP	GYPSON BOARD	UTR	UP THROUGH ROOF
HR	HORSEPOWER	V	VENT
HP	HOUR	VAV	VARIABLE AIR VOLUME
HZ	HERTZ	VEL	VELOCITY
ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
IN	INCHES	VTR	VENT THROUGH ROOF
KW	KILOWATT	W	WIDTH
KVA	KILOVOLT AMPERE	W	WITH
LB	POUND	W/O	WITHOUT
LF	LINEAR FEET	WB	WET BULB TEMPERATURE
LV	LEAVING	WF	WIDE FLANGE
MAX	MAXIMUM	WG	WATER GAUGE
		XMR	TRANSFORMER

AIR SIDE SYSTEM ABBREVIATIONS			
AC	AIR CONDITIONING	LAT	COIL LEAVING AIR TEMPERATURE
ACD	AUTOMATIC CONTROL DAMPER	MA	MIXED AIR
AF	AIR FOIL	MAU	MIXED AIR TEMPERATURE
APD	AIR PRESSURE DROP	MAT	MAKE UP AIR
AT	AIR TERMINAL	OA	OUTSIDE AIR
AVS	AIR VOLUME TRAVERSE STATION	OA	OUTSIDE AIR INTAKE
BI	BACKWARD INCLINE	OED	OPPOSED BLADE DAMPER
BOD	BACKDRAFT DAMPER	OD	OPEN END DUCT
CD	CEILING DIFFUSER (SUPPLY)	P.E.	PNEUMATIC - ELECTRIC
CFM	CUBIC FEET PER MINUTE	P.A.	RETURN AIR TEMPERATURE
CV	CONSTANT VOLUME	RAT	RETURN AIR GRILLE OR REGISTER
DU UC	DOOR LOUVER / UNDERCUT DOOR	RF	RELIEF
DWDI	DOUBLE WIDTH DOUBLE INLET	RV	ROOF VENT
DWSDI	DOUBLE WIDTH SINGLE INLET	SA	SUPPLY AIR
EA	EXHAUST AIR	SA	SUPPLY AIR TEMPERATURE
EAT	COIL ENTERING AIR OR EXHAUST AIR TEMP	SI	DUCT WITH LINING OR SOUND INSULATION
EG	EXHAUST AIR GRILLE OR REGISTER	SP	STATIC PRESSURE
EP	ELECTRIC - PNEUMATIC	SS	STAINLESS STEEL DUCT
ESP	EXTERNAL STATIC PRESSURE	SSDI	SINGLE WIDTH DOUBLE INLET
F&B	FACE AND BYPASS	SWI	SINGLE WIDTH SINGLE INLET
FC	FORWARD CURVE OR FLEXIBLE CONNECTION	TSG	TRANSFER AIR GRILLE
FA	FREE AREA	TSP	TOTAL STATIC PRESSURE
FPI	FINE FIBER INHAUST	TVP	VARIABLE AIR VOLUME
GE	GENERAL EXHAUST	WMS	WIRE MESH SCREEN
HEGA	HIGH EFFICIENCY GAS ABSORBER AIR FILTER		
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER		

PLUMBING SYMBOL LEGEND			
	PIPING TURN DOWN OR DROP		WALL HYDRANT
	PIPING TEE DOWN OR DROP		UNION
	PIPING TEE UP OR RISE		FLOW SWITCH
	P-TRAP		PRESSURE SWITCH
	GATE VALVE		EXPANSION JOINT
	CHECK VALVE		AUTOMATIC AIR VENT
	BALL VALVE		PRESSURE GAUGE WITH GAUGE COCK
	MIXING VALVE		TRAP PRIMER
	BUTTERFLY VALVE		THERMOMETER
	GLOBE VALVE		WATER HAMMER ARRESTOR
	PRESSURE REDUCING VALVE		DIRECTION OF FLOW
	BACKFLOW PREVENTER		SLOPE & DIRECTION OF FALL
	BALANCING VALVE		REDUCER OR INCREASER
	AUTOMATIC FLOW CONTROL VALVE		POINT OF CONNECTION
	TEMP & PRESSURE RELIEF VALVE		POINT OF DEMARCATION
	PRESSURE RELIEF VALVE		DIAMETER
	MOTORIZED SHUT-OFF VALVE		SQUARE FEET
	SOLENOID VALVE		DRAIN RECEPTOR
	STRAINER		FLOOR DRAIN
	FLOOR CLEAN OUT		AREA DRAIN
	WALL CLEAN OUT		GULLY SINK
	EXTERIOR CLEAN OUT		ROOF DRAIN
	CAPPED PIPE / CLEAN OUT		SECONDARY ROOF DRAIN
	FLEXIBLE CONNECTION (PIPE)		EXISTING
	HOSE BIBB		

PIPING SYSTEM ABBREVIATIONS			
AV	AUTOMATIC AIR VENT	MBVF	MOTORIZED BUTTERFLY VALVE
BBD	BOILER BLOW DOWN	NFSH	NET POSITIVE SUCTION HEAD
BF	BOILER FEEDWATER	NFSHA	NET POSITIVE SUCTION HEAD AVAILABLE
BFV	BUTTERFLY VALVE	NFSHR	NET POSITIVE SUCTION HEAD REQUIRED
CBST	COMBO. BALANCING/SHUTOFF VALVE	OS&Y	OUTSIDE STEM AND YOKE
CHV	CHECK VALVE	PG	PRESSURE GAUGE
CO	CLEAN OUT	PRV	PRESSURE REDUCING VALVE
CV	FLOW COEFFICIENT OR CONTROL VALVE	RED	REDUCER
DDV	DRAIN OFF VALVE	SOV	SHUT-OFF VALVE
DX	DIRECT EXPANSION	SRV	SAFETY RELIEF VALVE
EWT	ENTERING WATER TEMPERATURE	ST	STEAM TRAP
FC	FLEXIBLE CONNECTION	STR	STRAINER
FCV	FLOW CONTROL VALVE	SV	SOLENOID VALVE
FM	FLOW METER	S(X)XX	SECONDARY (SYSTEM DEPENDENT PREFIX)
GLV	GLOBE VALVE	TAV	THERMOSTATIC AIR VENT (STEAM ONLY)
GV	GATE VALVE	TDH	TOTAL DYNAMIC HEAD
HD	HEAD	TH	THERMOMETER
ISV	ISOLATION VALVE	TW	TEST WELL (PETE'S PLUG)
LWT	LEAVING WATER TEMPERATURE	T(X)XX	TERTIARY (SYSTEM DEPENDENT PREFIX)
MAV	MANUAL AIR VENT	WPD	WATER PRESSURE DROP

PLUMBING ABBREVIATIONS			
ABV	ABOVE	HR	HOUR
ABC	ABOVE CEILING	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
ACFM	ACTUAL CUBIC FEET PER MINUTE	IE	INVERT ELEVATION
ADAM	AMERICANS WITH DISABILITIES ACT	ID	INSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	INV	INVERT
AFG	ABOVE FINISHED GRADE	IN HG	INCHES MERCURY
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	IN WC	INCHES WATER COLUMN
AP	ACCESS PANEL	IVTR	INDUSTRIAL VENT THROUGH ROOF
ARCH	ARCHITECT OR ARCHITECTURAL	IW	IN WALL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	KW	KILOWATT
BFF	BELOW FINISHED FLOOR	LWTR	LABORATORY WASTE VENT THROUGH ROOF
BFV	BUTTERFLY VALVE	LB	POUND
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BIG	BELOW GRADE	MECH	MECHANICAL
BF	BELOW FLOOR	MH	MANHOLE
BIS	BELOW SLAB	MFR	MANUFACTURER
BP	REDUCED PRESSURE TYPE BACKFLOW PREVENTER	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
BV	BALL VALVE	NC	NOT IN CONTRACT
°C	DEGREES CELSIUS	NPSH	NET POSITIVE SUCTION HEAD
CFH	CUBIC FEET PER HOUR	NO	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CLD	CEILING	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CONN	CONNECT OR CONNECTION	PSIG	POUNDS PER SQUARE INCH GAUGE
CONT	CONTINUATION	PLBG	PLUMBING
CONTR	CONTRACTOR	POC	POINT OF CONNECTION
DEG	DEGREE	PRV	PRESSURE REDUCING VALVE
DFU	DRAINAGE FIXTURE UNITS	PVC	POLYVINYL CHLORIDE
DN	DOWN	P&TV	PRESSURE AND TEMPERATURE RELIEF VALVE
DWG	DRAWING	PRV	PRESSURE RELIEF VALVE
EA	EACH	QTY	QUANTITY
ECO	EXTERIOR CLEAN OUT	RM	ROOM
EFF	EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
ELECT	ELECTRICAL	SCFM	STANDARD CUBIC FEET PER MINUTE
ELEV	ELEVATION	SHT	SHEET
EQUIP	EQUIPMENT	SOV	SHUT OFF VALVE
EXIST	EXISTING	ST STL	STAINLESS STEEL
°F	DEGREES FAHRENHEIT	SPEC	SPECIFICATION
FCO	FLOOR CLEAN OUT	STRUCT	STRUCTURAL
FFE	FINISH FLOOR ELEVATION	TEMP	TEMPERATURE
FLR	FLOOR	TYP	TYPICAL
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FU	FIXTURE UNITS	UV	ULTRA VIOLET
GAL	GALLONS	VFD	VARIABLE FREQUENCY DRIVE
GALV	GALVANIZED	VOL	VOLUME
GLV	GLOBE VALVE	VTR	VENT THROUGH ROOF
GPF	GALLONS PER FLUSH	VTPH	VOLTS/PHASE/HERTZ
GPH	GALLONS PER HOUR	W	WALL
GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
GV	GATE VALVE	W	WITH
HD	HEAD	WHA	WATER HAMMER ARRESTOR (P.D.I. SIZE)
HDR	HEADER	WSFU	WATER SUPPLY FIXTURE UNITS
HP	HORSEPOWER	WT	WEIGHT
		YB	YARD BOX

TAGS AND CALL OUT SYMBOLS			
	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.		REVISION CALLOUT
	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.		KEYNOTE CALLOUT
	SECTION CALLOUT		POINT OF CONNECTION
	DETAIL CALLOUT		POINT OF DEMARCATION
	SECTION DESIGNATION		
	SHEET NUMBER		
	DETAIL DESIGNATION		
	SHEET NUMBER		

DEMOLITION			
< C >	CAP EXISTING		DEMOLITION PIPING
< X >	EXISTING TO REMAIN		DEMOLITION EQUIPMENT OR DUCT
< R >	EXISTING TO BE REMOVED		
< NL >	EXISTING - NEW LOCATION		

PIPING LEGEND			
	CHILLED WATER SUPPLY		PIPE ANCHOR
	CHILLED WATER RETURN		PIPE GUIDE
	COOLING TOWER BLOW DOWN		EXPANSION JOINT
	COOLING TOWER WATER SUPPLY		PIPE SLOPE (REFER TO PLANS FOR SLOPE)
	COOLING TOWER WATER RETURN		AUTOMATIC AIR VENT
	CONDENSER WATER SUPPLY		ANGLE VALVE - ELEVATION
	CONDENSER WATER RETURN		ANGLE VALVE - PLAN
	GEO THERMAL WATER SUPPLY		BALL VALVE
	GEO THERMAL WATER RETURN		BALL VALVE W/ MEMORY STOP
	GLYCOL SUPPLY		BUTTERFLY VALVE
	GLYCOL RETURN		BUTTERFLY VALVE W/ MEMORY STOP
	HEATING HOT WATER SUPPLY		MOTORIZED BUTTERFLY VALVE
	HEATING HOT WATER RETURN		PRESSURE INDEPENDENT CONTROL VALVE
	HEAT PUMP WATER SUPPLY		CIRCUIT BALANCING SHUTOFF VALVE
	HEAT PUMP WATER RETURN		CONTROL VALVE - 2 WAY
	HOT OR COLD WATER SUPPLY (DUAL TEMP)		CONTROL VALVE - 3 WAY
	HOT OR COLD WATER RETURN (DUAL TEMP)		CHECK VALVE
	HIGH TEMPERATURE WATER SUPPLY		DRAIN OFF VALVE (BALL VALVE W/ HOSE BIBB, CAP, & CHAIN)
	HIGH TEMPERATURE WATER RETURN		FLOAT OPERATED VALVE
	MEDIUM TEMPERATURE WATER SUPPLY		FLOW CONTROL VALVE
	MEDIUM TEMPERATURE WATER RETURN		FLOW METER
	MAKE UP WATER		FLOW METER - VENTURI
	PROCESS CHILLED WATER SUPPLY		FLOW SWITCH
	PROCESS CHILLED WATER RETURN		GATE VALVE
	REFRIGERANT DISCHARGE		GLOBE VALVE
	REFRIGERANT LIQUID		ISOLATION VALVE
	REFRIGERANT GAS		MANUAL AIR VENT
	LOW PRESSURE STEAM		PRESSURE REDUCING VALVE
	LOW PRESSURE CONDENSATE RETURN		PRESSURE SUSTAINING VALVE
	HIGH PRESSURE STEAM		PRESSURE GAUGE
	HIGH PRESSURE CONDENSATE RETURN		PRESSURE GAUGE W/ COIL SIPHON
	PUMPED STEAM CONDENSATE		PUMP (TRIANGLE INDICATES FLOW DIRECTION)
	DOUBLE LINE PIPE RISE		QUICK CLOSING VALVE, FUSIBLE LINK
	SINGLE LINE PIPE RISE		QUICK OPENING VALVE
	DOUBLE LINE PIPE DROP		SAFETY RELIEF VALVE
	SINGLE LINE PIPE DROP		SOLENOID VALVE
	PIPE TEE OFF THE TOP		STRAINER - DUPLEX
	PIPE TEE OFF THE BOTTOM		STRAINER
	PIPE TEE OFF THE SIDE		STRAINER W/ DRAIN VALVE, HOSE BIBB, & CAP (USE GATE VALVE FOR STEAM)
	BLIND FLANGE		STRAINER - BUCKET TYPE W/ DRAIN VALVE, HOSE BIBB, & CAP
	END CAP		THERMOMETER
	PIPE BREAK		TEST WELL (PETE'S PLUG)
	DIRT LEG		TRIPLE DUTY VALVE
	CLEAN OUT		UNION
	DIRECTION OF FLOW		REDUCER - ECCENTRIC
	REDUCER - CONCENTRIC		REDUCER - ECCENTRIC
	FLEXIBLE CONNECTION		VALVE BREAKER

PLUMBING PIPING LEGEND			
	COLD WATER		INDUSTRIAL WASTE ABOVE FLOOR OR GROUND
	COMPRESSED AIR		INDUSTRIAL WASTE BELOW FLOOR OR GROUND
	COMPRESSED AIR INTAKE		KITCHEN WASTE ABOVE FLOOR/GROUND
	CLEAR WATER WASTE ABOVE FLOOR OR GROUND		KITCHEN WASTE BELOW FLOOR/GROUND
	CLEAR WATER WASTE BELOW FLOOR OR GROUND		LIQUID PETROLEUM GAS
	CLEAR WATER WASTE VENT		NATURAL GAS
	DEIONIZED WATER SUPPLY		NATURAL GAS - HIGH PRESSURE
	DEIONIZED WATER RETURN		NATURAL GAS - MEDIUM PRESSURE
	GRAY WATER ABOVE FLOOR OR GROUND		PUMP DISCHARGE
	GRAY WATER BELOW FLOOR OR GROUND		RECLAIMED WATER
	HOT WATER		REVERSE OSMOSIS WATER
	HOT WATER (140°F)		REVERSE OSMOSIS WATER RETURN
	HOT WATER RETURN (140°F)		SANITARY SEWER ABOVE FLOOR/GROUND
	HOT WATER (160°F)		SANITARY SEWER BELOW FLOOR/GROUND
	HOT WATER RETURN (160°F)		SANITARY SEWER

GENERAL CONDITIONS

- 1. GENERAL REQUIREMENTS
1.1. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE, THE MINISTRY OF LABOUR, THE CITY AND ALL CODES HAVING JURISDICTION, WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS.
1.2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND / OR NEW WORK.
1.3. PAY FOR AND OBTAIN ALL REQUIRED PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION, ETC. PROVIDE AND SUBMIT REQUIRED DRAWINGS TO THE AUTHORITIES HAVING JURISDICTION.
1.4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS & SHALL MEET WITH THE APPROVAL OF THE CITY & PROVINCIAL FIRE MARSHAL .
1.5. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS . THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING & ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, & AT NO EXPENSE TO THE OWNER .
1.6. DO NOT SCALE DRAWINGS - ALL DIMENSIONS & JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL. START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
1.7. CONTRACTOR TO PROVIDE ANY TEMPORARY HEATING AND OR COOLING MEASURES FOR SPACES THAT REQUIRE THE SHUTDOWN OF AN EQUIPMENT SERVING MULTIPLE AREAS.
1.8. CONTRACTOR TO KEEP A RECORD SET OF DRAWINGS ON SITE AT ALL TIMES. ANY CHANGES SHALL BE RECORDED ON THIS SET FOR AS-BUILT DRAWINGS.
1.9. PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
2. INTERRUPTION OF SERVICES
2.2. ALL INTERRUPTIONS OF EXISTING MECHANICAL SYSTEMS MUST BE APPROVED BY AND CO-ORDINATED WITH THE OWNER.
2.3. DISRUPTION OF NORMAL OPERATIONS WILL NOT BE ALLOWED. ALL INTERRUPTIONS SHALL OCCUR AFTER THE CLOSE OF NORMAL HOURS. PREMIUM TIME TO BE INCLUDED IN THE TENDER PRICE.
2.1. CONTRACTOR TO ARRANGE WITH THE OWNER FOR NECESSARY SHUTDOWNS FOR ALL SYSTEMS THAT REQUIRE TIE-INS AND WORK WITHIN OTHER TENANT SPACES. SCHEDULING OF THIS WORK TO BE COORDINATED WITH THE OWNER AND OTHER TENANTS.
3. SHOP DRAWINGS
3.1. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MAJOR EQUIPMENT:
3.1.1. SUPPLY/NOZZLE AIR DIFFUSERS
3.1.2. RETURN/EXHAUST GRILLES
3.1.3. SPRINKLER HEADS
3.2. ALTERNATE EQUIPMENT MAY BE SPECIFIED, PROVIDED THAT THE SPACE REQUIREMENTS, QUALITY AND PERFORMANCE CHARACTERISTICS, AIR AND FLUID FLOW REQUIREMENTS, WEIGHTS AND POWER REQUIREMENTS ARE EQUAL TO THE SPECIFIED EQUIPMENT. ACCEPTANCE OF ANY ALTERNATE EQUIPMENT SHALL BE BY THE CONSULTANT.
4. COORDINATION
4.1. COORDINATE AND VERIFY EXACT LOCATIONS, SIZES, POINTS OF CONNECTION AND INVERT ELEVATIONS OF NEW AND EXISTING BUILDING PLUMBING SERVICE LATERALS ON SITE PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. MAKE FINAL CONNECTIONS TO LATERALS.
4.2. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR INCLUDING POWER LOADS OF NEW EQUIPMENT, FIXTURES AND APPLIANCES.
4.3. COORDINATE LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES AND PENETRATIONS THRU WALLS, FLOORS, BEAMS (INCLUDING GRADE BEAMS/FOOTINGS) AND SLABS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
4.4. COORDINATE AND PROVIDE PIPING ROUGH-INS AND CONNECTIONS TO EQUIPMENT, FIXTURES AND APPLIANCES THRU PRE MANUFACTURED CABINET FRAMING SYSTEMS (CHASES).
4.5. THE LOCATION, QUANTITIES AND SIZES OF EXISTING PIPING, FIXTURES, EQUIPMENT, SHUT-OFF VALVES, ETC. INDICATED ON THE PLANS HAS BEEN DERIVED FROM AVAILABLE RECORD DRAWINGS AND FIELD INVESTIGATIONS AND ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL VERIFY ALL SUCH ITEMS PRIOR TO INSTALLATION OF NEW WORK.
4.6. WHERE EXISTING/UNDOCUMENTED PIPING SYSTEMS ARE INSTALLED IN WALLS THAT ARE TO BE REMOVED OR REMODELED, THE CONTRACTOR SHALL IMMEDIATELY IDENTIFY SUCH SYSTEMS TO THE ARCHITECT FOR REVIEW PRIOR TO DEMOLITION OR REROUTE. IF REROUTE IS DEEMED NECESSARY TO MAINTAIN OTHER BUILDING SYSTEM OPERATIONS, THE CONTRACTOR SHALL PROVIDE A SOLUTION TO THE REROUTE FOR REVIEW BY THE ARCHITECT.
4.7. CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.
4.8. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
5. SLEEVES, CUTTING AND PATCHING
5.1. INSTALL SLEEVES AND FRAMES FOR PIPING AND SIMILAR EQUIPMENT TO BE BUILT INTO THE BUILDING AS THE CONSTRUCTION PROGRESSES. IF THESE ARE NOT INSTALLED AT THE TIME OF CONSTRUCTION, THE COST OF CUTTING AND PATCHING AT A LATER DATE, WILL BE AT THE EXPENSE OF THIS CONTRACTOR.
5.2. THE PRIME MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL HOLES AND OPENINGS UP TO AND INCLUDING 200 mm (8") DIAMETER.
5.3. THE PRIME MECHANICAL CONTRACTOR IS TO LOCATE THE EXACT POSITIONS AND DIMENSIONS OF LARGER OPENINGS FOR CUTTING BY THE GENERAL DIVISION.
5.4. SEAL AROUND SERVICES PASSING THROUGH CUT OPENINGS WITH MATERIALS EQUIVALENT TO THE FIRE RATING OF THE WALL FLOOR OR ROOF. ENSURE SEALING IS WEATHERPROOF FOR OPENINGS THROUGH EXTERIOR WALLS AND ROOFS. PROVIDE ANY PAINTING ON REPAIRED SURFACES IF REQUIRED BEFORE SEALING.
5.5. PROVIDE SLEEVES FOR ALL NEW PIPING PASSING THROUGH FLOOR AND ROOF SLABS, BEAMS, CONCRETE WALLS AND SLAB TO SLAB PARTITIONS, ETC.
5.6. SEAL TO BE AIR-TIGHT AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH PARTITIONS, BAFFLES ABOVE CEILINGS, AND THROUGH FLOORS THAT ARE NOT FIRE RATED.
5.7. PROVIDE ALL SLEEVES REQUIRED FOR DUCTWORK, PIPING AND ACCESS OPENINGS.
5.8. FOR INTERIOR WALLS, EXTERIOR WALLS ABOVE GRADE, NON WATERPROOF FLOORS, PROVIDE SCHEDULE 40 STEEL PIPE, MEDIUM CAST IRON OR 18 GAUGE GALVANIZED STEEL.
6. COMMISSIONING AND CLOSEOUT
6.1. CONTRACTOR PROVIDES COMMISSIONING AND REPORT FOR ALL THE NEW EQUIPMENT AND ANY ON-SITE TRAINING REQUIRED FOR OPERATION.
6.2. CLEAN ALL EQUIPMENT AND THE OVERALL INSTALLATION. FOLLOW INITIAL MAINTENANCE INSTRUCTIONS FROM THE MANUFACTURER.
6.3. GUARANTEE IN WRITING FOR THE MATERIAL AND WORKMANSHIP INCLUDING THE MANUFACTURER'S GUARANTEE FOR THE PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE
6.4. CERTIFY IN WRITING FOR ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. SUBMIT AS-BUILT DRAWINGS INDICATING ACTUAL LOCATION OF INSTALLED SERVICES AND EQUIPMENT

PLUMBING AND DRAINAGE

- 1. GENERAL
1.1. THESE DRAWINGS ARE DIAGRAMMATIC WHEREIN THE POSITIONING OF PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH WORK BY OTHER TRADES AND BUILDING DESIGN/ CONSTRUCTION CONDITIONS PRIOR TO INSTALLATION.
1.2. WORK REQUIRED BY THESE DOCUMENTS SHALL CONFORM TO APPLICABLE CODES AND STANDARDS. WHERE CONFLICTS OCCUR WITH CODES, DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL PREVAIL.
1.3. PROVIDE SLEEVING, CUTTING, CORING AND PATCHING OF WALLS, FLOORS, ROOFS, FOOTINGS AND GRADE BEAMS AS REQUIRED TO FACILITATE THE WORK.
1.4. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER DISSIMILAR METALS ARE JOINED.
1.5. PIPING AND CONDUIT PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE INSTALLED WITH U.L.C. LISTED FIRESTOP SYSTEMS.
1.6. REMOVE AND REINSTALL FIXTURES AND EQUIPMENT THAT ARE INDICATED TO BE RELOCATED. PROVIDE NEW VALVES, HOSES, ADAPTORS, CONNECTORS, AND OTHER MISCELLANEOUS DEVICES NECESSARY FOR COMPLETE INSTALLATION.
2. PIPING
2.1. EXTEND EXISTING PIPING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS.
2.2. OVERHEAD PIPING IN SHALL BE INSTALLED AS HIGH TO STRUCTURE AS POSSIBLE TO ALLOW FOR INSTALLATION OF FUTURE TENANT IMPROVEMENT WORK. INSTALL ALL VERTICAL PIPING AS CLOSE TO STRUCTURAL COLUMNS AS POSSIBLE TO MINIMIZE FURRING AROUND COLUMNS.
2.3. DO NOT ROUTE PIPING OVER ELECTRIC ROOMS, TELECOMMUNICATION/ DATA ROOMS, ELEVATOR EQUIPMENT ROOMS OR EXIT PASSAGEWAYS FROM STRUCTURAL FLOOR TO STRUCTURAL CEILING UNLESS PIPING IS DEDICATED TO SERVE THAT ROOM. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL PANELS.
2.4. PIPING SHALL HAVE ALL BURRS REMOVED, PIPE ENDS REAMED, AND CHIPS REMOVED. PLASTIC PIPING INSTALLED ON PRESSURIZED SYSTEMS SHALL BE CUT WITH PROPER TOOL CUTTERS PER THE MANUFACTURERS INSTRUCTIONS. SAW CUTTING OF PIPE PRODUCING SHAVINGS AND BURRS IS NOT ACCEPTABLE.
2.5. BURIED METALLIC PIPING (E.G. CAST IRON, STEEL, COPPER, ETC.) SHALL BE INSTALLED WITHIN A MINIMUM 8 MIL. THICK POLYETHYLENE SLEEVE OR SEALED SHEET PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
3. HANGERS
3.1. PROVIDE HANGERS, BRACES, INTERMEDIATE FRAMING SUPPORTS, ANCHORS AND MISCELLANEOUS DEVICES REQUIRED FOR PIPE AND EQUIPMENT INSTALLATIONS.
3.2. ALL HORIZONTAL PIPING SHALL BE SUPPORTED AT LEAST EVERY 10'-0" (3000 MM), EXCEPT FOR PIPE 1'-1/4" (32 MM) AND SMALLER WHERE 8'-0" (2400 MM) SPACING IS REQUIRED.
3.3. PIPE HANGERS FOR COPPER PIPING SHALL BE ADJUSTABLE CLEVIS TYPE ANVIL FIG. 260 COMPLETE WITH INSULATION SHIELD SIMILAR TO ANVIL FIG. 168.
3.4. HANGER ROD SHALL BE STEEL WITH COPPER NUT.
3.5. CLEVIS HANGERS TO BE OUTSIDE PIPE INSULATION. BETWEEN THE SHIELD AND THE PIPE, INSTALL A SECTION OF HIGH DENSITY INSULATION EQUAL TO FOAMED GLASS (3.75 TO 5.0 LB DENSITY MATERIAL) COMPLETE WITH CONTINUOUS VAPOUR BARRIER. EXTEND HIGHER DENSITY INSULATION 2" (50 MM) BEYOND SHIELD.
3.6. PIPE HANGERS AND SUPPORTS SHALL BE SECURED TO BEAMS, STEEL JOISTS, WALLS, FLOORS, ETC. DO NOT SUPPORT FROM METAL DECK.
3.7. PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
4. AS BUILT DRAWINGS
4.1. PROVIDE RECORD AS-BUILT DRAWINGS FOR ALL WORK PERFORMED, DRAWINGS SHALL CONSIST OF REPRODUCIBLE PLANS WITH ALL INSTALLATION CHANGES INDICATED.
5. PIPE INSULATION
5.1. INSULATION SHALL CONFORM TO ASHRAE STANDARD 90.1 (LATEST EDITION).
5.2.
5.3. ALL NEW DOMESTIC WATER PIPING AND FITTINGS SHALL BE INSULATED WITH INORGANIC GLASS FIBRES, BONDED WITH A THERMOSETTING RESIN COMPLETE WITH SELF SEALING LAP, "AS,J" ALL SERVICE JACKET AND 3" (80 MM) WIDE "AS,J" BUTT STRIPS.
5.4.
5.5. DOMESTIC COLD AND HOT WATER PIPING INSULATION THICKNESS TO BE 1/2" (15 MM) FOR PIPE SIZES 1/2" TO 3" (13 MM TO 80 MM), COMPLETE WITH VAPOUR BARRIER, USING INSULATION K FACTOR .24 AT 75°F (24°C).
ACCEPTABLE PRODUCTS: .1 KNAUF .2 MANVILLE SCHULLER INTERNATIONAL .3 MANSION
5.6.
5.7.
5.8. ALL INSULATION SHALL BE APPLIED OVER A CLEAN, DRY SURFACE, AFTER ALL PRESSURE TESTING HAS BEEN CARRIED OUT AND REVIEWED BY THE CONSULTANT.
5.9.
5.10. INSTALL INSULATION SHIELDS. THE INSULATION JOINTS SHALL BE BUTTED TIGHTLY, ADHERE THE VAPOUR BARRIER JACKET LAP WITH VAPOUR BARRIER ADHESIVE AND ADHERE THE 3" (80 MM) WIDE BUTT JOINT STRIPS OVER ALL END JOINTS WITH ADHESIVE TO ENSURE CONTINUOUS VAPOUR BARRIER.
5.11.
5.12.
5.13.
5.14.
5.15.
5.16. INSULATE ALL FITTINGS UP TO 2" (50 MM) WITH MITRE-CUT PIECES OF INSULATION AND PRESSURE-SENSITIVE, COLOUR-MATCHING TAPE.
ALL EXPOSED FITTINGS 2" (50 MM) AND LARGER SHALL HAVE PRE-MOLDED "PVC" INSULATING FITTINGS COVERS.
ALL EXPOSED INSULATED PIPING AND FITTINGS SHALL BE FINISHED WITH A FIRE RETARDANT PVC JACKET. NO ADDITIONAL FINISH NEED BE APPLIED TO CONCEALED PIPING.

PIPE AND FITTINGS

- 1. STEEL PIPE AND FITTINGS
1.1. SERVICE: NATURAL GAS
1.2. WELDED OR SEAMLESS SCHEDULE 40 ASTM-A53 STEEL PIPE AND FITTINGS, ALL TO CSA B149.1-10.
1.3. JOINTS: BLACK MALLEABLE IRON SCREWED UP TO 50mm (2"Ø) AND STEEL WELDED 65mm (2 1/2"Ø) AND LARGER.
1.4. VALVES: CGA CERTIFIED PLUG-COCK TYPE OR BALL VALVES INSTALLED WHERE SHOWN OR REQUIRED, WITH ONE FOR EACH APPLIANCE.
2. COPPER PIPE AND FITTINGS
2.1. SERVICE: ALL DOMESTIC WATER PIPING
2.2. PIPING: PLAIN END TYPE "L" HARD DRAWN COPPER.
2.3. FITTINGS: SOLDER END WROUGHT COPPER.
2.4. JOINTS: ALL DOMESTIC HOT AND COLD POTABLE WATER PIPING SHALL BE JOINED USING 95/5 SOLDER CONTAINING NO LEAD COMPOUNDS (95% TIN/5% ANTIMONY). NON-POTABLE WATER PIPING SHALL BE JOINED USING A STANDARD 50/50 TIN/LEAD COMPOUND SOLDER.
2.5. VALVES: MINIMUM CERTIFIED RATING OF 200 psi (1380 kPa)
2.5.1. BALL: 1/2" TO 2-1/2" (15 MM TO 65 MM) STANDARD PORT BRONZE BODY, BRONZE FITTED SOLDER ENDS, PTFE SEATS AND PACKING, LEVER HANDLE.
ACCEPTABLE PRODUCTS:
- CRANE 9322
- JENKINS 902
2.0.1. GLOBE VALVES: 2" AND SMALLER (50 MM OR LESS)
ACCEPTABLE PRODUCTS:
- CRANE 7
- JENKINS 106B
2.0.1. GLOBE VALVES: 2-1/2" AND LARGER (65 MM OR MORE) IRON BODY, BRONZE SEAT AND DISC.
ACCEPTABLE PRODUCTS:
- CRANE 351
- JENKINS 234J
2.0.1. CHECK VALVES: 2" AND SMALLER (50 MM OR LESS)
ACCEPTABLE PRODUCTS:
- CRANE 37
- JENKINS 4092
3. SANITARY DRAINAGE - BURIED INTERNAL
3.1. SERVICE: ALL BURIED INTERNAL PIPING
3.2. PIPING: CAST IRON PIPE OR IF APPROVED PVC OR ABS PIPE
3.3. FITTINGS: COMPLIANT WITH CSA B70 OR CSA CAN 3-B181.1-M85 FOR ABS; CAN 3-B181.2-M85 FOR PVC
4. SANITARY DRAINAGE - SUSPENDED INTERNAL
4.1. SERVICE: ALL SUSPENDED INTERNAL PIPING
4.2. PIPING: CAST IRON PIPE OR DWV COPPER TO ASTM B306
4.3. FITTINGS: COMPLIANT WITH CSA B70 OR 50-50 SOLDERED CAST BRASS DRAINAGE FITTINGS TO CSA B158.1
5. PIPING INSTALLATION
5.1. PROVIDE ALL NECESSARY PIPING INCLUDING FITTINGS AND UNIONS TO COMPLETE SYSTEMS SHOWN. CUT PIPES TRUE AND SQUARE, REAM FILE ENDS TO SMOOTH SURFACE, ALL TO PIPE MANUFACTURER'S AND ACCEPTED TRADE STANDARDS. FITTINGS SHALL BE OF EQUIVALENT BORE AS PIPE, OF EQUAL STRENGTH AND WEIGHT. INSTALL PIPING TO MANUFACTURER'S SPECIFICATIONS AND PUBLISHED DIRECTIONS. INSTALL PIPING TO CONFORM TO ONTARIO BUILDING CODE (CHAPTER 7).
5.2. INSTALL ABOVE GROUND PIPING TO CLEAR OTHER PIPING, INSULATION, OBSTRUCTIONS, ACCESS DOORS AND CONTROLS. TAKE BRANCHES OFF MAINS WITH FITTINGS AND 45° AND 90° ELBOWS. LOCATE VALVES FOR EACH OPERATION. LOCATE CLEANOUTS IN ACCESSIBLE LOCATIONS TO APPROVAL AND TO SUIT ACCESS.
5.3. DO NOT USE FERROUS PIPING, FITTINGS, BUSHINGS, NIPPLES OR PLUGS IN COPPER PIPING. PROVIDE DIELECTRIC BUSHINGS AT CONNECTIONS TO FERROUS MATERIALS OR EQUIPMENT ON WATER SYSTEMS.
5.4. PROVIDE CHROME PLATED PIPES, FITTINGS AND VALVES WHERE EXPOSED IN WASHROOMS AND OTHER OCCUPIED AREAS.
5.5. SUPPLY AND INSTALL FLANGES, UNIONS OR COMPRESSION FITTINGS ON EQUIPMENT SIDE OF SHUT-OFF VALVES IN PIPING CONNECTIONS TO EQUIPMENT, TANKS AND FIXTURES SO SAME CAN BE DISCONNECTED FOR SERVICE. FLANGES AND UNIONS SHALL BE OF SAME MATERIAL AS PIPING.
5.6. SUPPLY AND INSTALL COMPRESSION TYPE SHUT-OFF VALVES UNDER EACH FIXTURE AND WHERE EXPOSED TO VIEW, OF CHROME PLATED SCREWDRIVER TYPE.
5.7. CO-ORDINATE ROUTING OF PIPING WITH OTHER TRADES. PROVIDE INTERFERENCE DRAWINGS AS REQUIRED. REFER TO MANUFACTURER'S INSTALLATION DRAWINGS.
5.8.
5.9. INSTALL SYSTEMS SO THAT THEY CAN BE THOROUGHLY DRAINED AND ALL AIR ELIMINATED.
5.10. DURING WELDING OR SOLDERING PROCEDURES, PROVIDE A FIRE RETARDANT CLOTH, MAT OR BLANKET TO PROTECT THE STRUCTURE, AND ADEQUATE FIRE PROTECTION EQUIPMENT AT ALL LOCATIONS WHERE WORK IS BEING DONE.
5.11. PLUG AND/OR CAP ALL PIPE OPENINGS/FITTINGS DURING CONSTRUCTION.
5.12. CAST IRON PIPE TO HAVE ANTHES RUBBER GASKET MECHANICAL JOINTS, PC4 COLD CAULKING COMPOUND HUB AND SPIGOT JOINTS, CAULKED LEAD JOINTS WITH OAKUM AND SOFT PIG LEAD, OR BIBBY BISEAL. CONFINED SPACES TO BE MECHANICAL JOINTS.
5.13. THREADED PIPE JOINTS TO BE TRUE AND ROUND WITH FULL CUT THREADS, ENDS REAMED AND FILED WITH ALL BURRS REMOVED IRON TO IRON WITH A FILLER OF GRAPHITE AND OIL.
5.14. SOLDER JOINTS SHALL BE CAREFULLY CLEANED WITH EMERY CLOTH. USE "SILFOS" SILVER SOLDER FOR BURIED PIPING. SEE SECTION 15700 FOR TYPE OF SOLDER TO BE USED ON VARIOUS PIPING SYSTEMS.
5.15. MAKE JOINTS IN COPPER PIPING WITH 95/5 TIN/ANTIMONY SOLDER WITH NON-CORROSIVE SOLDERING FLUX. CLEAN, REAM AND THOROUGHLY TIN EACH JOINT AND REMOVE EXCESS SOLDER AND FLUX.
5.16. GRADE VENT PIPING UP FROM FIXTURES SO IT IS SELF DRAINING. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION COMPLETE WITH SWING JOINTS.
5.17. EXPANSION LOOPS, AND ANCHORS AS NECESSARY. SILVER SOLDER EACH JOINT IN EXPANSION LOOPS WHERE USED.
5.18. IN ADDITION TO TESTS REQUIRED BY LOCAL AUTHORITIES, TEST PIPING AND DRAINS IN THE PRESENCE OF CONSULTANT AS HEREINAFTER DESCRIBED.
5.19. NOTIFY THE CONSTRUCTION MANAGER IN WRITING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF TESTS. FAILURE TO DO SO MAY REQUIRE TEST TO BE RE-DONE.
5.20. EQUIPMENT, PIPING, DUCTING OR ANY OTHER MECHANICAL COMPONENTS ARE NOT TO BE SUSPENDED FROM FORMED HOLLOW STEEL DECKING.
5.21. INSTALL VALVES IN AN UPRIGHT POSITION ON HORIZONTAL PIPING FOR EASY ACCESS. IF THERE ARE SPACE CONSTRAINTS, MOUNT VALVES AT A 45°.
5.22. MAKE ALL THREADED PIPE JOINTS ON WATER PIPING USING A THREAD PASTE OR TEFLON TAPE SUITABLE FOR THE SERVICE FOR WHICH PIPE IS TO BE USED. THE USE OF HEMP OR SIMILAR MATERIALS ON THE THREADED JOINTS WILL NOT BE ACCEPTED.



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ISSUES table with columns: NO., DESCRIPTION, DATE. Includes entries for client review, permit, and tender.

REVISIONS



ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT
735 Central Parkway W, Mississauga, ON L5C 4H4

Professional seal and stamp for NGA ARCHITECTS, including project details and consultant information.

DRAWING LIST table with columns: SHEET NO., DRAWN BY, CHECKED BY, PROJECT NO., SCALE. Includes entry for MECHANICAL SPECIFICATIONS 1.

POWER SINGLE LINE DIAGRAM SYMBOLS

	CKT BREAKER, ### INDICATES TRIP SETTING, # INDICATES NUMBER OF POLES
	DRAW-OUT CKT BREAKER, ### INDICATES TRIP SETTING, # INDICATES NUMBER OF POLES
	FUSED SWITCH, ### INDICATES TRIP SETTING, # INDICATES NUMBER OF POLES
	ENCLOSED CIRCUIT BREAKER
	ENCLOSED NON-FUSED SWITCH
	ENCLOSED FUSED SWITCH
	KIRK KEY INTERLOCK
	AUTOMATIC TRANSFER
	SOLID STATE, ELECTRONIC ADJUSTABLE TRIP
	GROUND FAULT PROTECTION
	SURGE PROTECTIVE DEVICE
	DIGITAL MULTIMETER
	UTILITY METER
	AUTOMATIC/MANUAL TRANSFER SWITCH
	AUTOMATIC TRANSFER SWITCH, WITH BYPASS ISOLATION
	TRANSFORMER
	GENERATOR
	PANELBOARD
	PAD MOUNTED TRANSFORMER
	GROUND
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER

POWER DISTRIBUTION AND SMALL POWER

	DUPLEX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLEX RECEPTACLE ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK
	DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED, NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UON		
	COMBINATION MOTOR STARTER DISCONNECT		
	MOTOR STARTER		
	VARIABLE FREQUENCY DRIVE		
	DIRECT CONNECTION, WALL MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	DIRECT CONNECTION, CEILING MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	GROUND BUS BAR		
	FURNITURE OUTLET, WALL MOUNTED		
	PANELBOARD		
	TRANSFORMER		
	FLOOR BOX, DUPLEX RECEPTACLE		SPECIAL FLOORBOX, "IF" INDICATES UNIQUE FLOOR BOX TYPE
	FLOOR BOX, DOUBLE DUPLEX RECEPTACLE		RACEWAY

CIRCUITING

	BLDG E (MDPH 10)	CIRCUIT NUMBER
	3812 #12G 21mmC	CONDUIT SIZE
		GROUND CONDUCTOR QUANTITY AND SIZE
		CIRCUIT CONDUCTOR QUANTITY AND SIZE

LIGHTING, LIGHTING SWITCHING & CONTROLS

	LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED		LIGHTING FIXTURE TO BE ON ALL THE TIME ON NIGHT LIGHT CIRCUIT - CEILING MOUNTED
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED MOUNTED		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - RECESSED MOUNTED
	PENDANT LIGHTING FIXTURE ON NORMAL BRANCH POWER		PENDANT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
	WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	BOLLARD LIGHT FIXTURE ON NORMAL BRANCH POWER		BOLLARD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	SITE LIGHTING SINGLE HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING SINGLE HEAD ON EMERGENCY BRANCH POWER - POLE MOUNTED
	SITE LIGHTING DUAL HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING DUAL HEAD ON EMERGENCY BRANCH POWER - POLE MOUNTED
	EXIT SIGN - SINGLE FACE - CEILING MOUNTED		EXIT SIGN - DUAL FACE - CEILING MOUNTED
	EXIT SIGN - SINGLE FACE - WALL MOUNTED		EXIT SIGN - DUAL FACE - WALL MOUNTED
	LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED
	SPST SWITCH, WALL MOUNTED. '2' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LESS CONTROLLED, SUBSCRIPT 'X' INDICATES:		K - KEY OPERATED LV - LOW VOLTAGE
	2 - DOUBLE POLE		P - PILOT LIGHT
	3 - THREE WAY		T - WALL BOX TIMER
	4 - FOUR WAY		WP - WEATHER PROOF
	OCCUPANCY SENSOR, CEILING MOUNTED		
	OCCUPANCY SENSOR, WALL MOUNTED		
	VACANCY SENSOR, CEILING MOUNTED		
	VACANCY SENSOR, WALL MOUNTED		

MISCELLANEOUS DEVICES

	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, CEILING MOUNTED
	CONTRACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE

FIRE ALARM SYSTEM

	FIRE ALARM STROBE, WALL MOUNTED		FIRE ALARM STROBE, CEILING MOUNTED.
	FIRE ALARM HORN, WALL MOUNTED		FIRE ALARM HORN, CEILING MOUNTED
	FIRE ALARM HORN/STROBE, WALL MOUNTED		FIRE ALARM HORN/STROBE, CEILING MOUNTED
	FIRE ALARM SPEAKER, WALL MOUNTED		FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM SPEAKER/STROBE, WALL MOUNTED		FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED
	FIRE ALARM BELL, WALL MOUNTED		FIRE ALARM PULL STATION
	HEAT DETECTOR, WALL MOUNTED		HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, WALL MOUNTED		SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, DUCT MOUNTED		FIRE/SMOKE DAMPER
	CARBON MONOXIDE DETECTOR		SMOKE DAMPER
	FIREFIGHTERS TELEPHONE OUTLET		SMOKE ALARM
	REMOTE INDICATOR LIGHT		COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR
	FIRE ALARM CONTROL PANEL		TAMPER SWITCH
	FIRE ALARM REMOTE ANNUNCIATOR PANEL		REMOTE TEST STATION
	DATA GATHERING PANEL		FLOW SWITCH
	FIRE ALARM TERMINAL CABINET		SUPERVISORY VALVE
	FIRE ALARM TRANSPONDER PANEL		ELECTROMAGNETIC DOOR HOLDER

PUBLIC ADDRESS SYSTEM

	PAGING SPEAKERS OR HORN		PAGING STATION
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SECURITY SYSTEM

	ACCESS CONTROL PANEL		AUTO DOOR OPERATOR
	ALARM DEVICE		CARD READER
	DOOR CONTACT		DOOR CONTROLLER
	ELECTRIFIED LOCKSET		ELECTRIFIED PANIC HARDWARE
	ELECTRIC STRIKE		GLASS BREAK DETECTOR
	INTERROOM		INTRUSION DETECTION DEVICE
	KEYPAD		KEY SWITCH
	MAGNETIC LOCK		MOTION SENSOR
	PANIC BUTTON		PANEL CONTROLLER
	WAVE TO OPEN		POWER TRANSFER
	LOW FREQUENCY EXCITER		REQUEST TO EXIT DEVICE
	INFRARED READER		ALARM SENSOR
	REMOTE DISPLAY UNIT		SECURITY SYSTEM POWER SUPPLY
	LOCAL AREA RECEIVER		SERVER
	DIRECTIONAL PASSIVE TAG DETECTOR		SECURITY WORKSTATION
	INFRARED CURTAIN		CCTV CAMERA, WALL MOUNTED
	RF READER		CCTV CAMERA, CEILING MOUNTED
	RF READER MASTER		
	RF LONG RANGE READER		
	RF ETHERNET READER		

MISCELLANEOUS DEVICES

	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, CEILING MOUNTED
	CONTRACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE

DEMOLITION

< R >	EXISTING TO BE REMOVED
< RL >	EXISTING TO BE RELOCATED
< EX >	EXISTING TO REMAIN
< NL >	EXISTING - NEW LOCATION
-----	DEMOLITION CONDUIT
-----	DEMOLITION EQUIPMENT
-----	EXISTING TO REMAIN CONDUIT
-----	EXISTING TO REMAIN EQUIPMENT
-----	RELOCATED / NEW CONDUIT
-----	RELOCATED / NEW EQUIPMENT

TAGS AND CALL OUT SYMBOLS

	SECTION CALLOUT
	SECTION DESIGNATION SHEET NUMBER
	DETAIL CALLOUT
	DETAIL DESIGNATION SHEET NUMBER
	REVISION CALLOUT
	KEYNOTE CALLOUT

ABBREVIATIONS

A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
CX	CLOCK HANGER	NC	NORMALLY CLOSED
CL	CEILING MOUNTED	NO	NORMALLY OPEN
EMT	ELECTRICAL METALLIC TUBING	OC	OVER THE COUNTER
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER	N.T.S.	NOT TO SCALE

TELECOMMUNICATIONS SYSTEM

	WALL MOUNT VOICE OUTLET		FLOOR MOUNT VOICE OUTLET
	WALL MOUNT DATA OUTLET		FLOOR MOUNT DATA OUTLET
	WALL MOUNT DATA/VOICE OUTLET		FLOOR MOUNT DATA/VOICE OUTLET
	CEILING MOUNT VOICE OUTLET		CEILING MOUNT DATA FOR WIRELESS ACCESS POINT
	CEILING MOUNT DATA OUTLET		
	CEILING MOUNT DATA/VOICE OUTLET		

DEVICE LEGEND

< X > - NUMBER OF DATA JACKS < XY > - NUMBER OF DATA/VOICE JACKS
 < Y > - NUMBER OF VOICE JACKS

NO SUBSCRIPT = (1) DATAVOICE

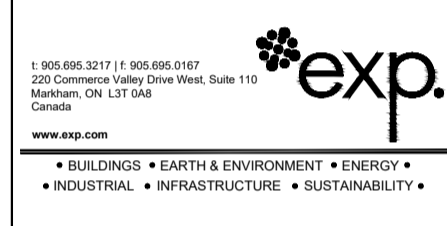
MOUNTING:
 OUTLET MOUNTING HEIGHTS TO BE COORDINATED WITH INTERIOR DESIGNER DURING DD PHASE

DRAWING LIST

DRAWING NO.	DRAWING TITLE	SCALE
E-001	ELECTRICAL LEGEND, GENERAL NOTES & DRAWING LIST	N.T.S.
E-100	DEMOLITION SITE PLAN - POWER, SYSTEM & LIGHTING	1:200
E-101	PROPOSED SITE PLAN - POWER, SYSTEM & LIGHTING	AS SHOWN
E-102	ELECTRICAL SITE DETAILS	N.T.S.
E-200	OVERALL DEMOLITION LIGHTING LAYOUT	1:125
E-201	OVERALL DEMOLITION POWER AND SYSTEMS LAYOUT	1:125
E-300	OVERALL PROPOSED LIGHTING LAYOUT	1:125
E-301	OVERALL PROPOSED POWER AND SYSTEMS LAYOUT	1:125
E-501	FIRE ALARM ZONING AND SCHEDULE	1:125
E-601	LUMINAIRE SCHEDULE	N.T.S.
E-802	PANEL SCHEDULES	N.T.S.
E-702	DOOR DETAILS	N.T.S.
E-801	ELECTRICAL SINGLE LINE DIAGRAM	N.T.S.
E-802	FIRE ALARM RISER DIAGRAM	N.T.S.
-	ANIMAL SERVICES - PSN REQUEST (CITY OF MISSISSAUGA DRAWING)	N.T.S.
-	ANIMAL SERVICES - PSN CABLE (CITY OF MISSISSAUGA DRAWING)	N.T.S.

GENERAL NOTES

- ELECTRICAL DOCUMENTS ARE BASED ON AVAILABLE INFORMATION AND SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DOCUMENTS INCLUDING ARCHITECTURAL, MECHANICAL, AND STRUCTURAL.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENTS OF ELECTRICAL AND SYSTEMS DEVICES. THE FINAL LOCATION AND ELEVATION OF ALL ELECTRICAL AND SYSTEMS DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL PACKAGE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND EQUIPMENT. REPORT ANY DISCREPANCIES TO CONSULTANT.
- ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, DEVICES AND CONNECTIONS, SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
- DURING CONSTRUCTION IF REQUIRED/IMPACTED BY OTHER WORKS, CONTRACTOR TO TEMPORARILY REMOVE/RELOCATE ELECTRICAL SYSTEM AND/OR PROVIDE TEMPORARY CONNECTIONS ON SITE TO ALLOW OTHERS' WORK.
- MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, REPORT TO LANDLORD, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
- CONTRACTOR TO PROVIDE WRITTEN NOTICE TO OWNER FOR ANY SHUTDOWN REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF THIS PROJECT. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIR/REPLACE WITHOUT EXTRA COST, AND TO THE SATISFACTION OF THE OWNER.
- ALL OPENINGS, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL, AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
- CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REUSED IN THIS PROJECT.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICE, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMINATED TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO INCLUDE FOR PAYMENT OF REQUIREMENT PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION, ETC. IF REQUIRED.
- CONTRACTOR TO REPORT BACK TO THE ENGINEER AND OWNER ON ANY ELECTRICAL AND COMMUNICATION SYSTEM FAILURES THAT OCCUR DURING CONSTRUCTION PHASE.
- CONTRACTOR SHALL CONDUCT ARC FLASH STUDY FOR THE NEW EQUIPMENT AND PROVIDE LABELS AS REQUIRED.
- DOOR HARDWARE SCHEDULE BY DOOR HARDWARE CONSULTANT. REFER TO ARCHITECTURAL FLOOR PLANS AND DOOR HARDWARE SCHEDULE FOR DOOR DEVICE LOCATIONS, REQUIREMENTS AND OTHER DOOR HARDWARE INFORMATION AND PROVIDE ELECTRICAL POWER, ROUGH-IN ETC. ACCORDINGLY.
- ALL THE SECURITY RELATED WORK TO BE PERFORMED BY THE BASE BUILDING SECURITY VENDOR (SECURITAS), SECURITAS TO PROVIDE ALL THE SECURITY AND ACCESS CONTROL DEVICES INCLUDING BUT NOT LIMITED TO CARD READERS, RELAYS & INTERLOCKING BETWEEN CARD READERS AND AUTOMATIC DOOR OPERATORS AND REQUIRED CABLEING FOR ALL THE SECURITY DEVICES. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-INS AND JUNCTION BOXES TO SUIT. ELECTRICAL CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS AS REQUIRED. ALL WORK SHALL BE COMPLETED UNDER CASH ALLOWANCE.



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ISSUES

NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG 2023
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT 2023
3	ISSUED FOR BUILDING PERMIT	01 NOV 2023
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV 2023
5	ISSUED FOR TENDER	05 JAN 2024

REVISIONS

PROJECT



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

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 Mississauga, ON L5C 4H4

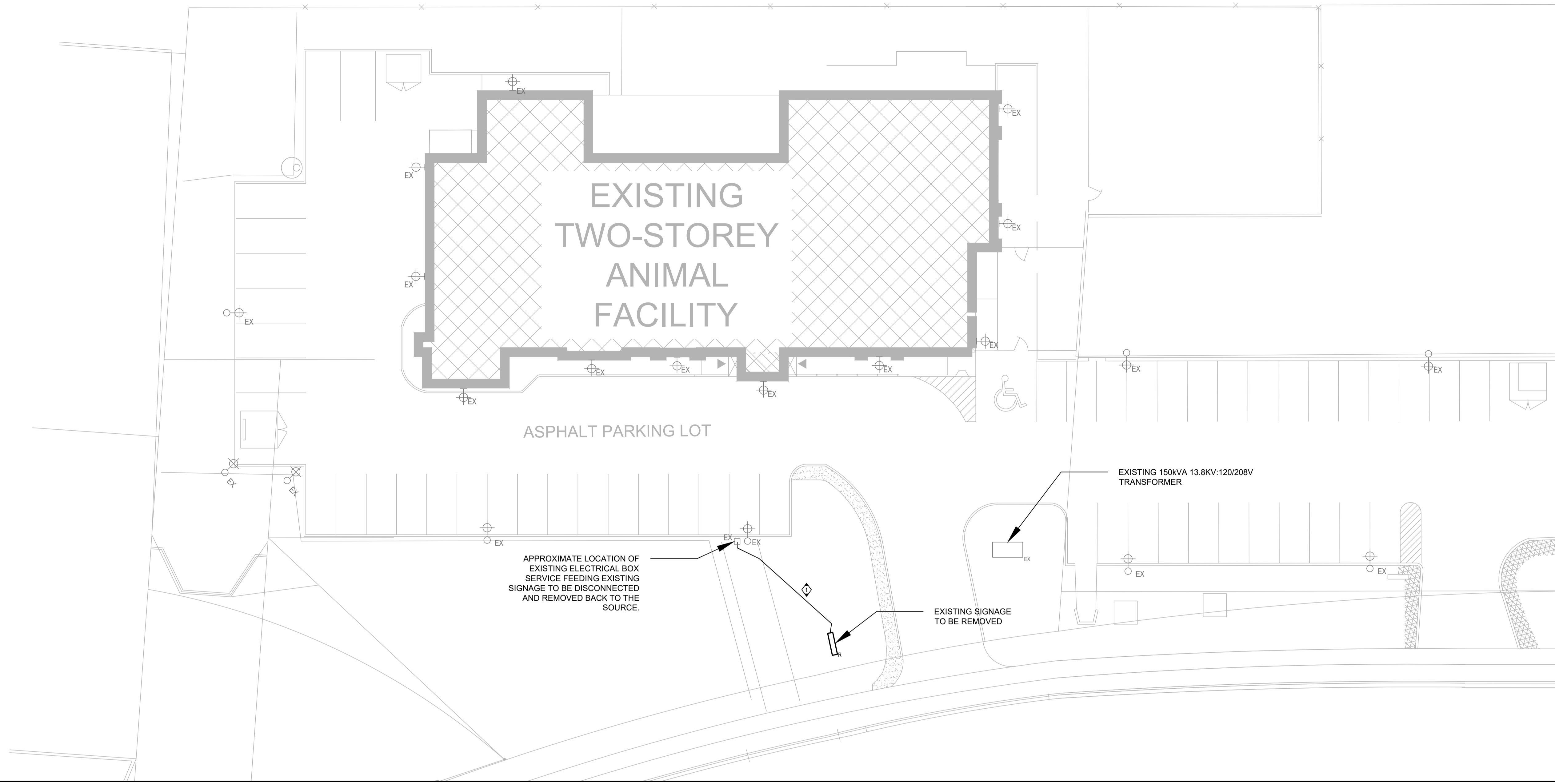


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STRUCTURAL CONSULTANT	EXP SERVICES INC.
METHEOROLOGICAL CONSULTANT	EXP SERVICES INC.
ELECTRICAL CONSULTANT	EXP SERVICES INC.

DRAWING LIST
 ELECTRICAL LEGEND, GENERAL NOTES & DRAWING LIST

SHEET NO.	DRAWN BY	CHECKED BY
E-001	JT	DL/SL
PROJECT NO.	MRK-23007421-A0	
SCALE	N.T.S.	



1 SITE PLAN - DEMOLITION
 E-100 SCALE: 1:200

- GENERAL NOTES:**
1. ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.
 2. GENERAL CONTRACTOR SHALL COORDINATE WITH SERVICE LOCATING CONTRACTOR (MULTIVIEW) BEFORE EXCAVATION. MAKE SURE THE EXISTING LINE AND SERVICES ARE NOT INTERRUPTED AND REMAIN FUNCTIONAL DURING CONSTRUCTION. RESTORE CONCRETE AND ASPHALT TO MATCH THE EXISTING. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION DURING EXCAVATION.

- KEY NOTES:**
- ◊ EXISTING SERVICES FEEDING SIGNAGE SHALL BE DISCONNECTED SAFELY AND REMOVED BACK TO THE SOURCE.

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ISSUES

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1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG 2023
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT 2023
3	ISSUED FOR BUILDING PERMIT	01 NOV 2023
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV 2023
5	ISSUED FOR TENDER	05 JAN 2024

REVISIONS

PROJECT

MISSISSAUGA

ANIMAL SERVICES CENTRE
 RENOVATION PHASE-02 PROJECT
 735 Central Parkway W,
 Mississauga, ON L5C 4H4

NCA ARCHITECTS
 220 DUNCAN MILL RD.
 SUITE 310
 TORONTO, ONTARIO
 M9E 5L2
 TEL: 416 367 9877
 FAX: 416 367 9655
 www.nca.com

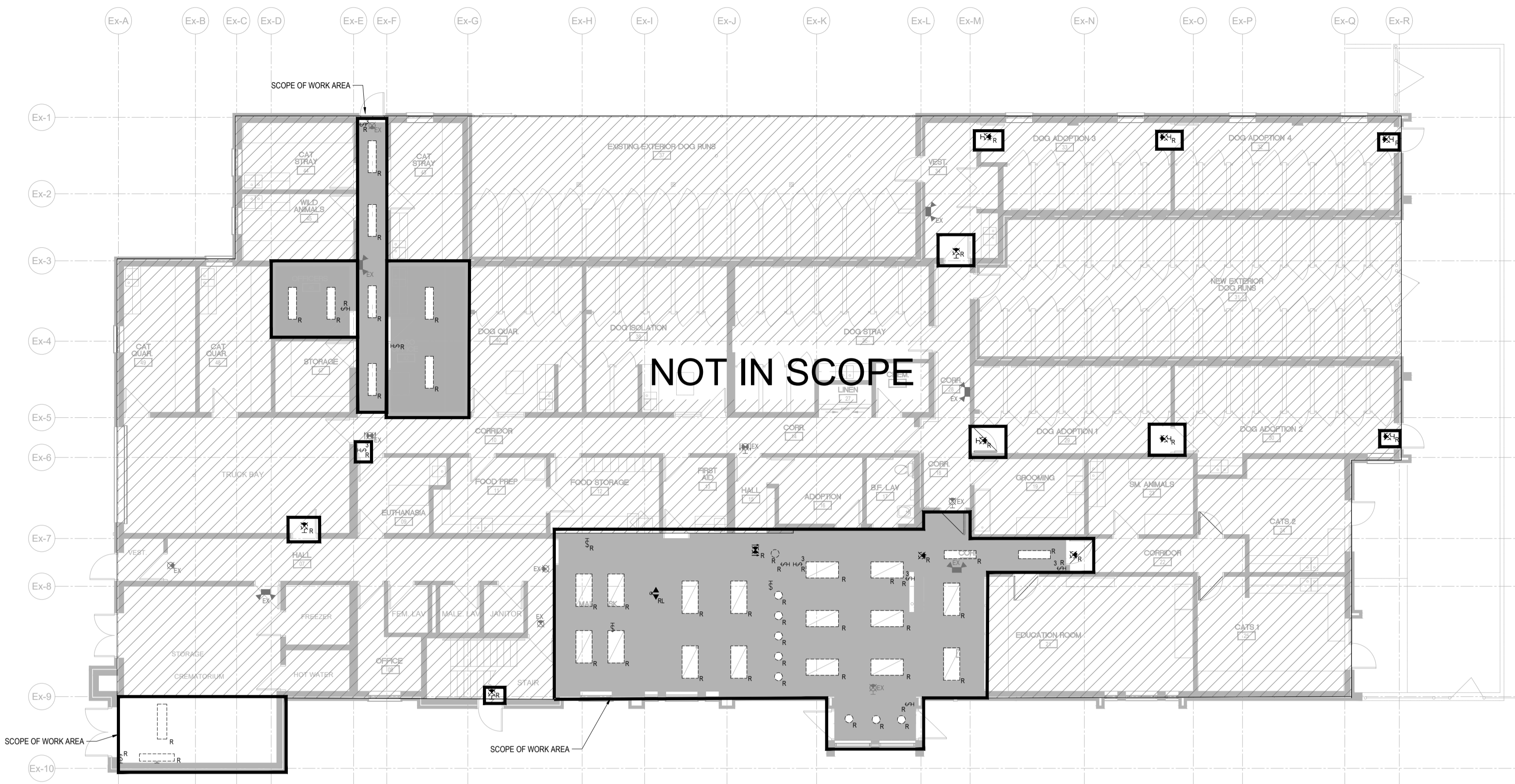
PROJECT NORTH

STRUCTURAL CONSULTANT: EXP SERVICES INC.
 MECHANICAL CONSULTANT: EXP SERVICES INC.
 ELECTRICAL CONSULTANT: EXP SERVICES INC.

DRAWING LIST
 DEMOLITION SITE PLAN - POWER, SYSTEMS & LIGHTING

SHEET NO.	DRAWN BY	CHECKED
E-100	JT	DL/SL

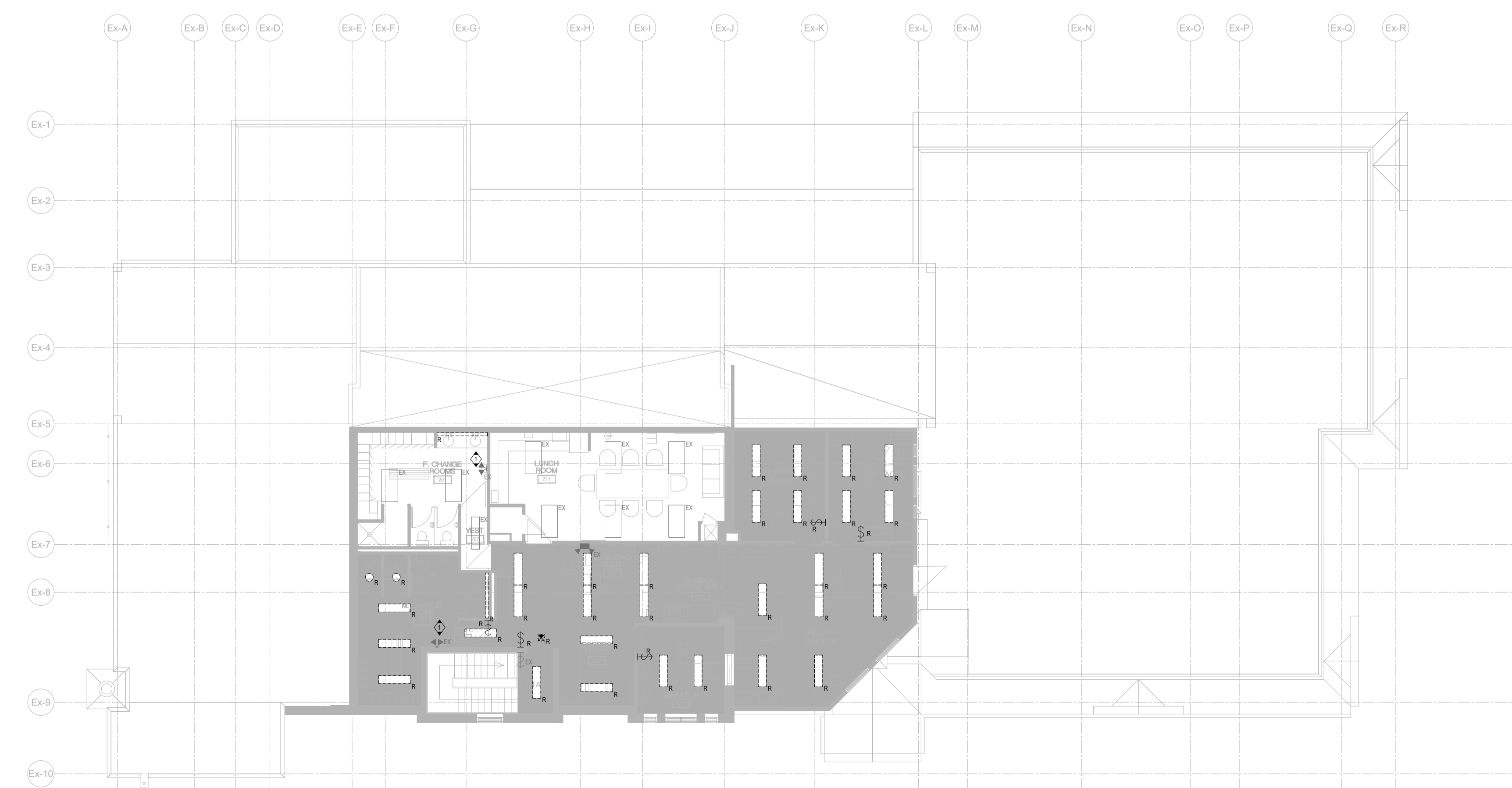
PROJECT NO: MRK-23007421-A0
 SCALE: 1:200



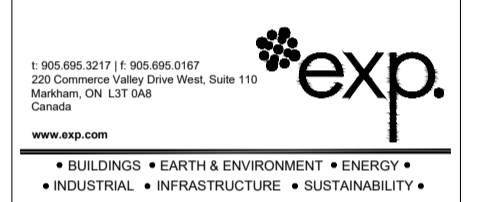
- GENERAL NOTES**
1. ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.
 2. ALL THE LIGHTING FIXTURES BEING DEMOLISHED SHALL BE SAFELY REMOVED AND MADE SAFE. WIRING AND CONDUITS SHALL BE REUSED TO CONNECT NEW LIGHTING FIXTURE AS SHOWN ON DRAWING E-300.
 3. ALL THE LIFE SAFETY EQUIPMENT INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING AND EXIT SIGNAGE TO BE DISCONNECTED FROM EXISTING PANEL AND RE-CONNECTED TO THE NEW LIFE SAFETY PANEL 'LS'.

- KEY NOTES:**
- ⬇️ EXISTING REMOTE HEADS SHALL BE TEMPORARILY DISCONNECTED TO ACCOMMODATE ARCHITECTURAL SCOPE OF WORK AND RECONNECTED AT THE SAME LOCATION.

1
E-200 GROUND FLOOR DEMOLITION LIGHTING LAYOUT
SCALE: 1:125



2
E-200 SECOND FLOOR DEMOLITION LIGHTING LAYOUT
SCALE: 1:125



ISSUES

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REVISIONS
PROJECT



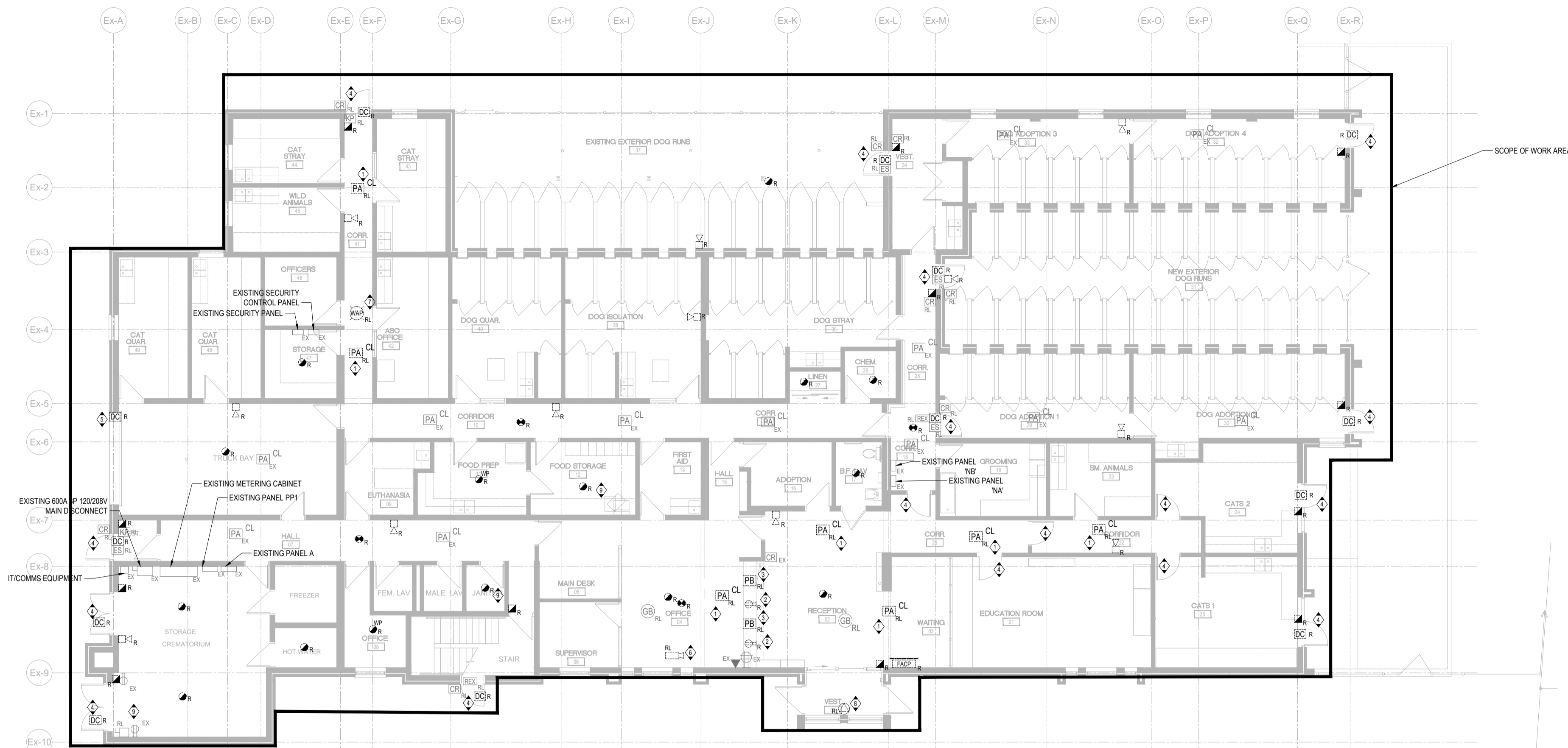
ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT
735 Central Parkway W,
Mississauga, ON L5C 4H4

NGA ARCHITECTS
200 DUNCAN MILL RD.
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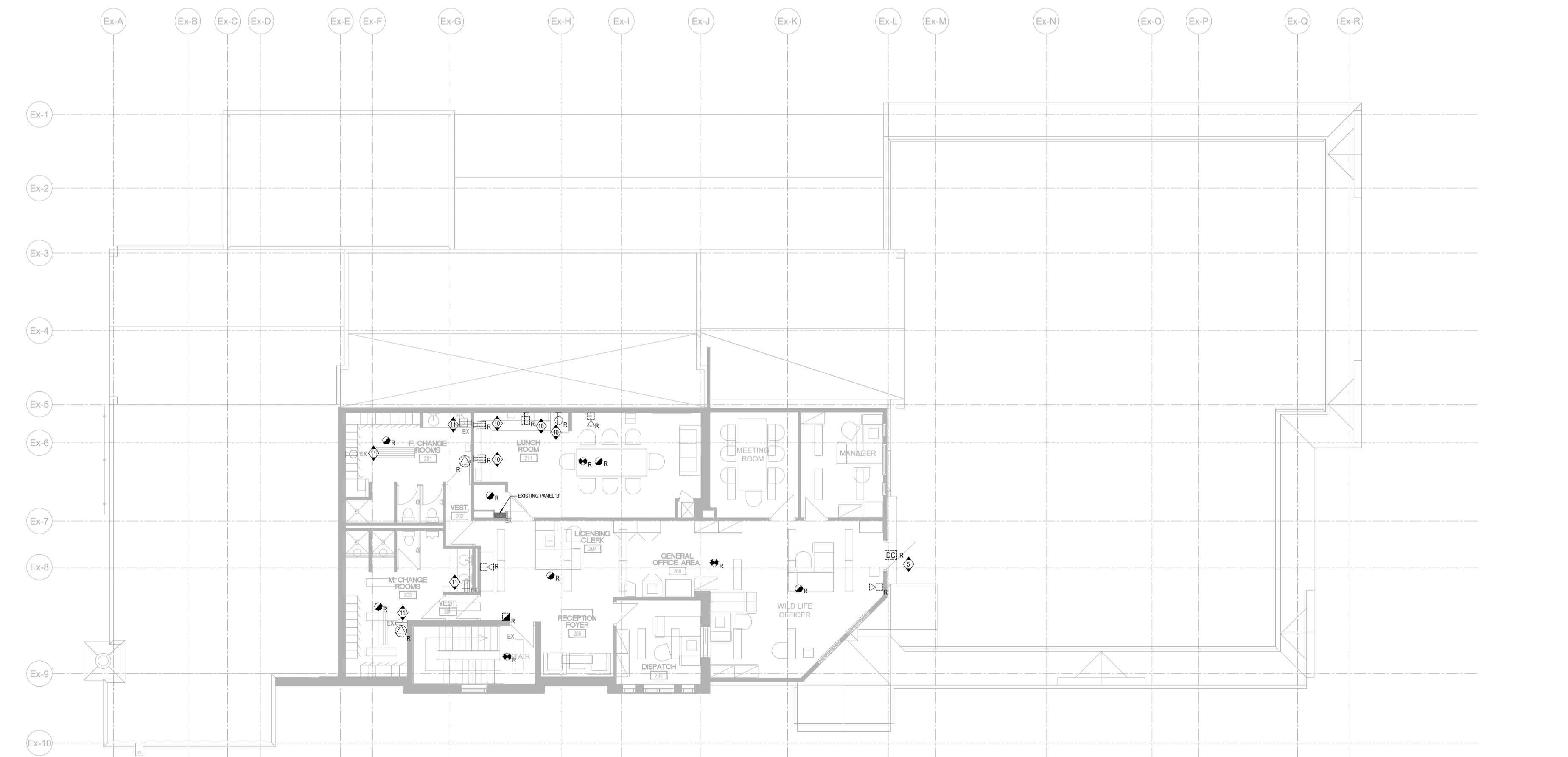
PROJECT NORTH
STRUCTURAL CONSULTANT: EXP SERVICES INC.
MECHANICAL CONSULTANT: EXP SERVICES INC.
ELECTRICAL CONSULTANT: EXP SERVICES INC.

DRAWING LIST

DEMOLITION LIGHTING LAYOUT		
SHEET NO.	DRAWN BY	CHECKED
E-200	JT	DL/SL
PROJECT NO:		MRK-23007421-A0
SCALE:		1:125



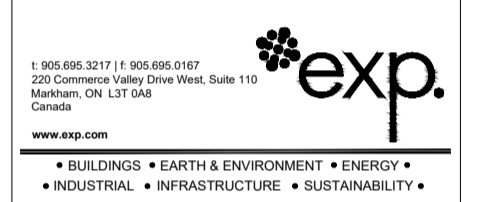
1 GROUND FLOOR DEMOLITION POWER AND SYSTEMS LAYOUT
SCALE: 1:125



2 SECOND FLOOR DEMOLITION POWER AND SYSTEMS LAYOUT
SCALE: 1:125

- GENERAL NOTES:**
1. ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.
 2. ALL EXISTING POWER, DATA, COMMUNICATIONS, SECURITY, AV ETC. SERVICES AND DEVICES TO REMAIN AS EXISTING IN ALL THE AREAS UNLESS SPECIFICALLY NOTED TO BE REMOVED/RELOCATED.
 3. SECURITY VENDOR (SECURITAS) TO TEMPORARILY DISCONNECT EXISTING SECURITY DEVICES FROM ALL THE EXISTING DOORS BEING REPLACED AND RECONNECT TO THE NEW DOORS AT THE SAME LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF THE DOORS.
 4. ALL THE LIFE SAFETY EQUIPMENT INCLUDING EMERGENCY LIGHTING, EXIT SIGNS, SHALL BE DISCONNECTED FROM EXISTING PANEL AND RECONNECTED TO THE LIFE SAFETY PANEL 'LS'.
 5. ALL THE SECURITY RELATED WORK SHALL BE PERFORMED BY SECURITAS. CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS.
 6. ALL FIRE ALARM DEVICES SHALL BE REMOVED UNLESS NOTED OTHERWISE.

- KEY NOTES:**
1. EXISTING AV SPEAKERS SHALL BE DISCONNECTED AND REMOVED TEMPORARILY AND TO BE RE-INSTALLED IN THE NEW CEILING AS SHOWN ON DRAWING E-301. EXTEND WIRING/CONDUIT AS REQUIRED.
 2. EXISTING POWER OUTLETS UNDER MILLWORK SHALL BE DISCONNECTED AND WIRING SHALL BE REMOVED TO THE NEAREST JUNCTION BOX AND MADE SAFE.
 3. EXISTING PANIC BUTTON UNDER THE MILLWORK TO BE TEMPORARILY DISCONNECTED, MADE SAFE AND RELOCATED TO NEW MILLWORK AS SHOWN ON DRAWING E-301. CONTRACTOR TO EXTEND WIRING/CONDUIT TO SUIT.
 4. EXISTING ELECTRICAL CONNECTIONS (IF ANY) FOR SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THIS DOOR SHALL BE DISCONNECTED AND MADE SAFE. CONTRACTOR TO RECONNECT EXISTING SERVICES TO THE NEW DOOR AS SHOWN ON DRAWING E-301.
 5. EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THE OVERHEAD DOOR TO BE DISCONNECTED AND MADE SAFE. CONTRACTOR TO RECONNECT EXISTING CONNECTIONS TO THE NEW DOORS AS SHOWN ON DRAWING E-301.
 6. EXISTING CAMERA TO BE DISCONNECTED TEMPORARILY AND RECONNECTED AT THE NEW CEILING AT SAME LOCATION.
 7. EXISTING WIFI ROUTERS TO BE DISCONNECTED BY OTHERS AND RELOCATE TO THE NEW CEILING AS SHOWN ON DRAWING E-301.
 8. EXISTING ELECTRICAL CONNECTION FOR ELECTRIC BASEBOARD HEATER TO BE TEMPORARILY DISCONNECTED AND RE-INSTALLED AS SHOWN IN DRAWING E-301. COORDINATE WITH MECHANICAL CONTRACTOR.
 9. CONTRACTOR TO VERIFY ON-SITE IF THIS DISCONNECT IS OPERATIONAL AND SERVING ANY EXISTING OPERATIONAL EQUIPMENT. IF NOT, CONTRACTOR TO DISCONNECT AND REMOVE BACK TO THE SOURCE, OTHERWISE RELOCATE THE DISCONNECT TO EXISTING STORAGE 50.
 10. EXISTING POWER OUTLET ON THE MILLWORK SHALL BE DISCONNECTED AND WIRING SHALL BE REMOVED TO THE NEAREST JUNCTION BOX AND MADE SAFE.
 11. EXISTING POWER OUTLETS IN THE CHANGEROOM SHALL BE TEMPORARILY DISCONNECTED TO ACCOMMODATE ARCHITECTURAL SCOPE OF WORK AND RECONNECTED AT THE SAME LOCATION.



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5	ISSUED FOR TENDER	05 JAN. 2024

REVISIONS
PROJECT



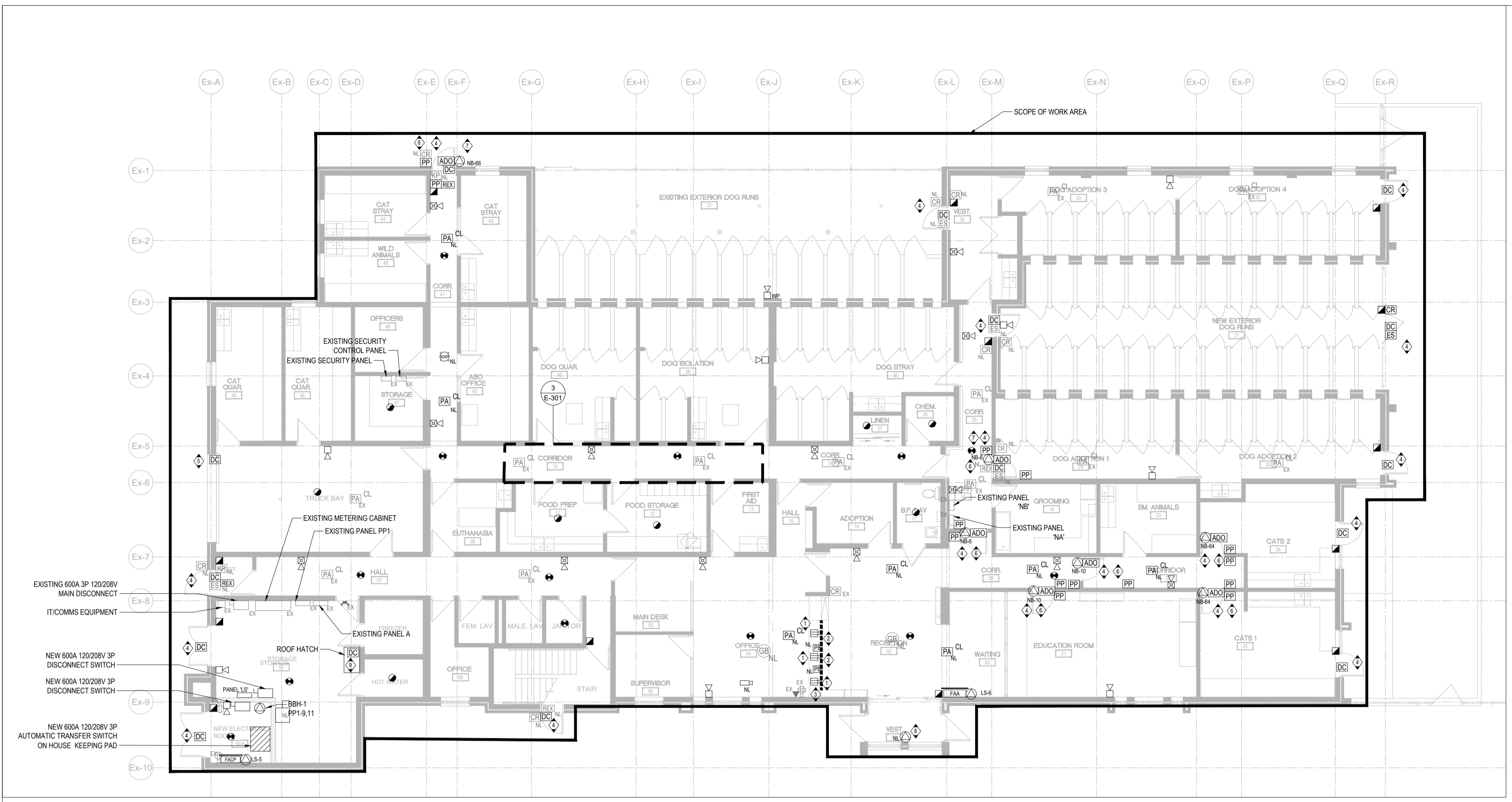
ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT
735 Central Parkway W,
Mississauga, ON L5C 4H4



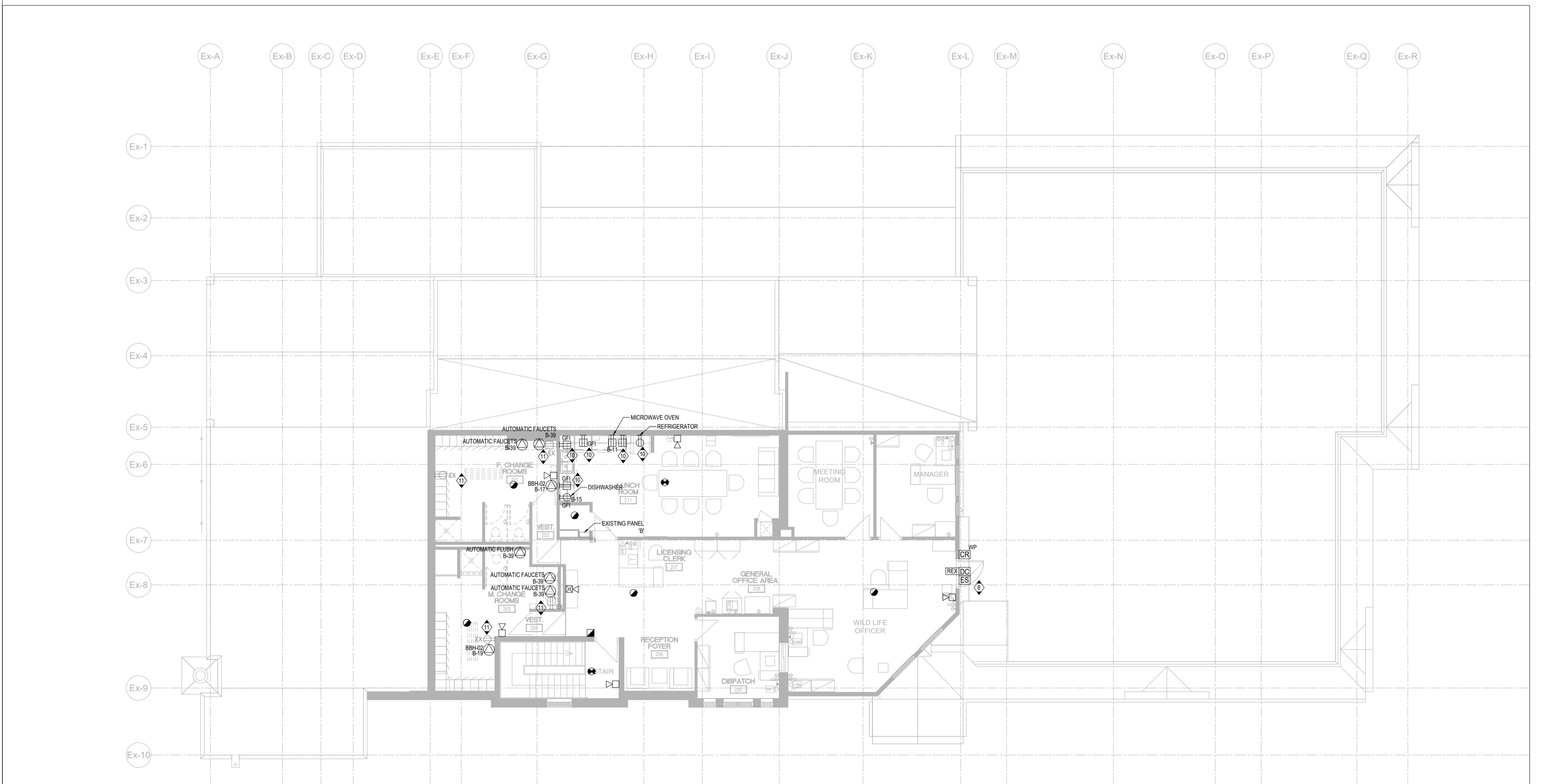
PROJECT HOST	STRUCTURAL CONSULTANT	EXP SERVICES INC.
	MECHANICAL CONSULTANT	EXP SERVICES INC.
	ELECTRICAL CONSULTANT	EXP SERVICES INC.

DRAWING LIST
DEMOLITION POWER & SYSTEM LAYOUT

SHEET NO.	DRAWN BY	CHECKED BY
E-201	JT	DL/SL
	PROJECT NO.	MRK-23007421-A0
	SCALE	1:125



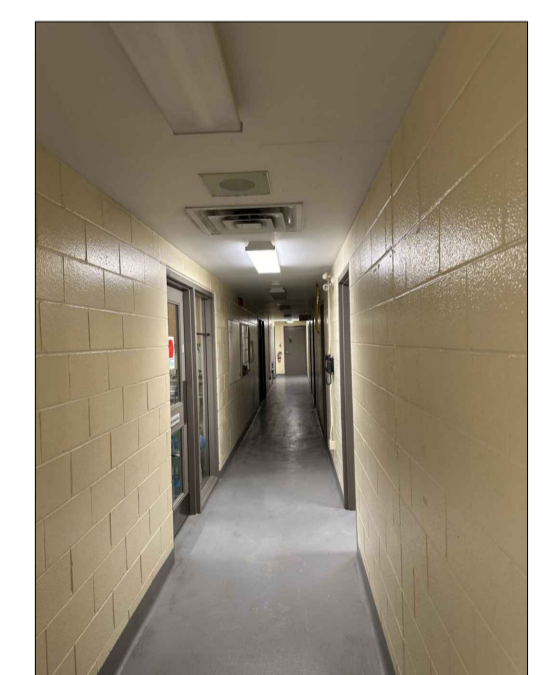
1 GROUND FLOOR PROPOSED POWER AND SYSTEMS LAYOUT
 SCALE: 1:125



2 SECOND FLOOR PROPOSED POWER AND SYSTEMS LAYOUT
 SCALE: 1:125

- GENERAL NOTES:**
1. ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN UNLESS NOTED OTHERWISE.
 2. ALL EXISTING POWER, DATA, COMMUNICATIONS, SECURITY, AV ETC. SERVICES AND DEVICES TO REMAIN AS EXISTING IN ALL THE AREAS UNLESS SPECIFICALLY NOTED TO BE REMOVED/RELOCATED/UPGRADED.
 3. SECURITY VENDOR (SECURITAS) TO RECONNECT ALL THE EXISTING SECURITY DEVICES FOR THE DOORS BEING REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF THE DOORS.
 4. ELECTRICAL CONTRACTOR TO ENGAGE THE BASE BUILDING SECURITY CONTRACTOR (SECURITAS) FOR ANY SECURITY/ACCESS CONTROL WORK WITHIN THE SCOPE OF THIS PROJECT. PROVIDE POWER CONNECTIONS AND ROUGH-INS FOR NEW SECURITY EQUIPMENT INCLUDING CARD READER, ELECTRICAL STRIKE, DOOR CONTACT AND REQUEST TO EXIT. COORDINATE WITH DOOR HARDWARE CONSULTANT AND SECURITY CONTRACTOR FOR EXACT REQUIREMENTS AND PROVIDE PROVISIONS ACCORDINGLY.
 5. ALL THE SECURITY RELATED WORK TO BE PERFORMED BY SECURITAS. CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS. ALL NEW SECURITY DEVICES TO BE CONNECTED TO THE EXISTING SECURITY HEAD END EQUIPMENT LOCATED IN STORAGE ROOM 47.

- KEY NOTES:**
1. PROVIDE NEW WIRING FOR THE NEW POWER OUTLETS IN THE MILLWORK. CONTRACTOR TO EXTEND CONDUIT FROM EXISTING JUNCTION BOX TO SUIT.
 2. EXISTING PANIC BUTTON TO BE RECONNECTED AT THIS LOCATION UNDER THE MILLWORK. CONTRACTOR TO EXTEND WIRING/CONDUITS TO SUIT. EXACT LOCATION OF PANIC BUTTON TO BE COORDINATED WITH CLIENT ON-SITE.
 3. CONTRACTOR TO PROVIDE NEW FACEPLATE FOR THE DATA OUTLETS AND ENSURE DATA OUTLETS ARE OPERATIONAL. OTHERWISE RE-WORK TO MAKE THE DATA OUTLETS OPERATIONAL.
 4. EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THIS DOOR TO BE RECONNECTED TO THE NEW DEVICES. EXACT LOCATION OF THE DEVICES TO BE COORDINATED ON-SITE. EXTEND WIRING/CONDUITS AS REQUIRED TO MAKE ALL THE NEW DEVICES OPERATIONAL.
 5. EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER ASSOCIATED DEVICES FOR THE OVERHEAD DOOR TO BE RECONNECTED TO THE NEW OVERHEAD DOOR. CONTRACTOR TO COORDINATE WITH SUPPLIER FOR POWER REQUIREMENTS AND PROVIDE ACCORDINGLY. EXTEND CONDUIT, WIRING AND PROVIDE ASSOCIATED EQUIPMENT TO MAKE THE NEW OVERHEAD DOOR OPERATIONAL PER CLIENT'S NEEDS. EXACT LOCATION OF DEVICES TO BE COORDINATED ON-SITE.
 6. PROVIDE NEW POWER CONNECTION FOR AUTOMATIC DOOR OPERATION. PROVIDE ROUGH-INS FOR WAVE TO OPEN BUTTON FOR NEW ADD. EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND CLIENT ON-SITE.
 7. NEW AUTOMATIC DOOR OPERATOR SHALL BE INTEGRATED BY SECURITAS WITH EXISTING CARD READER AND ELECTRICAL STRIKE RELAYS. CONTRACTOR TO PROVIDE A 21mm CONDUIT ALONG WITH PULL STRING FROM HEAD END EQUIPMENT IN STORAGE ROOM 47 TO THIS DOOR. PROVIDE A 4"x4" JUNCTION BOX ABOVE DOOR AND TERMINATE THE CONDUIT IN THE JUNCTION BOX.
 8. EXISTING ELECTRIC BASEBOARD HEATER TO BE RECONNECTED AT THIS LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR ON SITE.
 9. CONTRACTOR TO PROVIDE 21mm CONDUIT ALONG WITH PULL STRING AND 4"x4" JUNCTION BOX FROM THE ROOF HATCH TO SECURITY PANEL IN STORAGE ROOM 47.
 10. REUSE EXISTING CIRCUIT FOR THE NEW RECEPTACLES IN THE NEW MILLWORK. CONTRACTOR SHALL PROVIDE NEW WIRING AND CONDUIT FROM THE NEAREST JUNCTION BOX TO SUIT.
 11. REINSTALL EXISTING POWER OUTLETS WITH NEW FACEPLATES IN THE SAME LOCATION AFTER COMPLETION OF ARCHITECTURAL WORK.



3 CORRIDOR 10 SMOKE DETECTOR (REFERENCE PHOTO)
 SCALE: N.T.S.



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REVISIONS



ANIMAL SERVICES CENTRE
 RENOVATION PHASE-02 PROJECT
 735 Central Parkway W,
 Mississauga, ON L5C 4H4

NGA ARCHITECTS
 220 DUNDAS WEST RD. SUITE 310 TORONTO, ONTARIO M5E 1A5
 TEL: 416 367 8877 FAX: 416 367 9655
 www.nga.com

PROJECT PARTNER: STRUCTURAL CONSULTANT: EXP SERVICES INC.
 MECHANICAL CONSULTANT: EXP SERVICES INC.
 ELECTRICAL CONSULTANT: EXP SERVICES INC.

DRAWING LIST

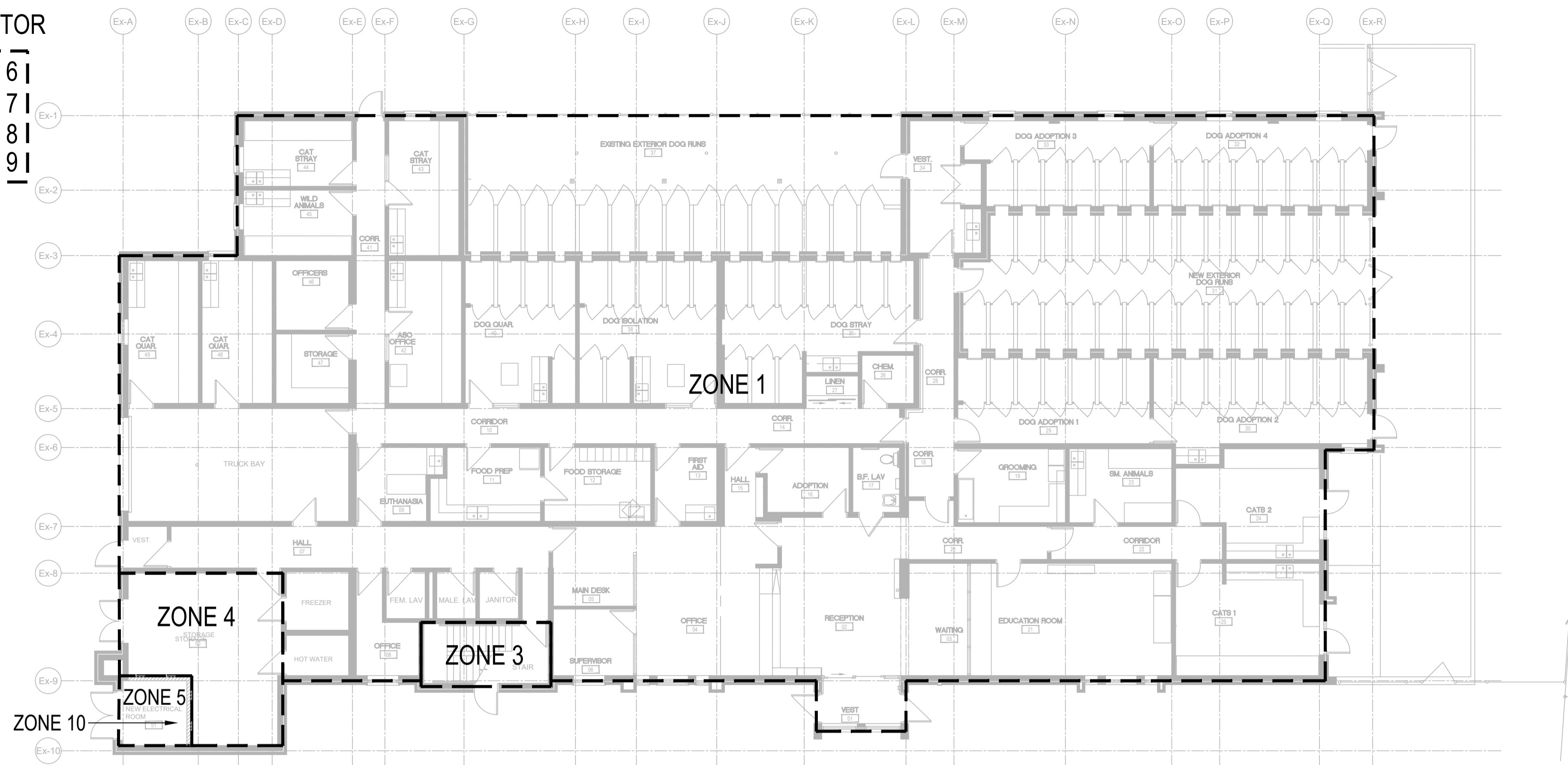
PROPOSED POWER AND SYSTEM LAYOUT

SHEET NO.	DRAWN BY	CHECKED BY
E-301	JT	DL/SL

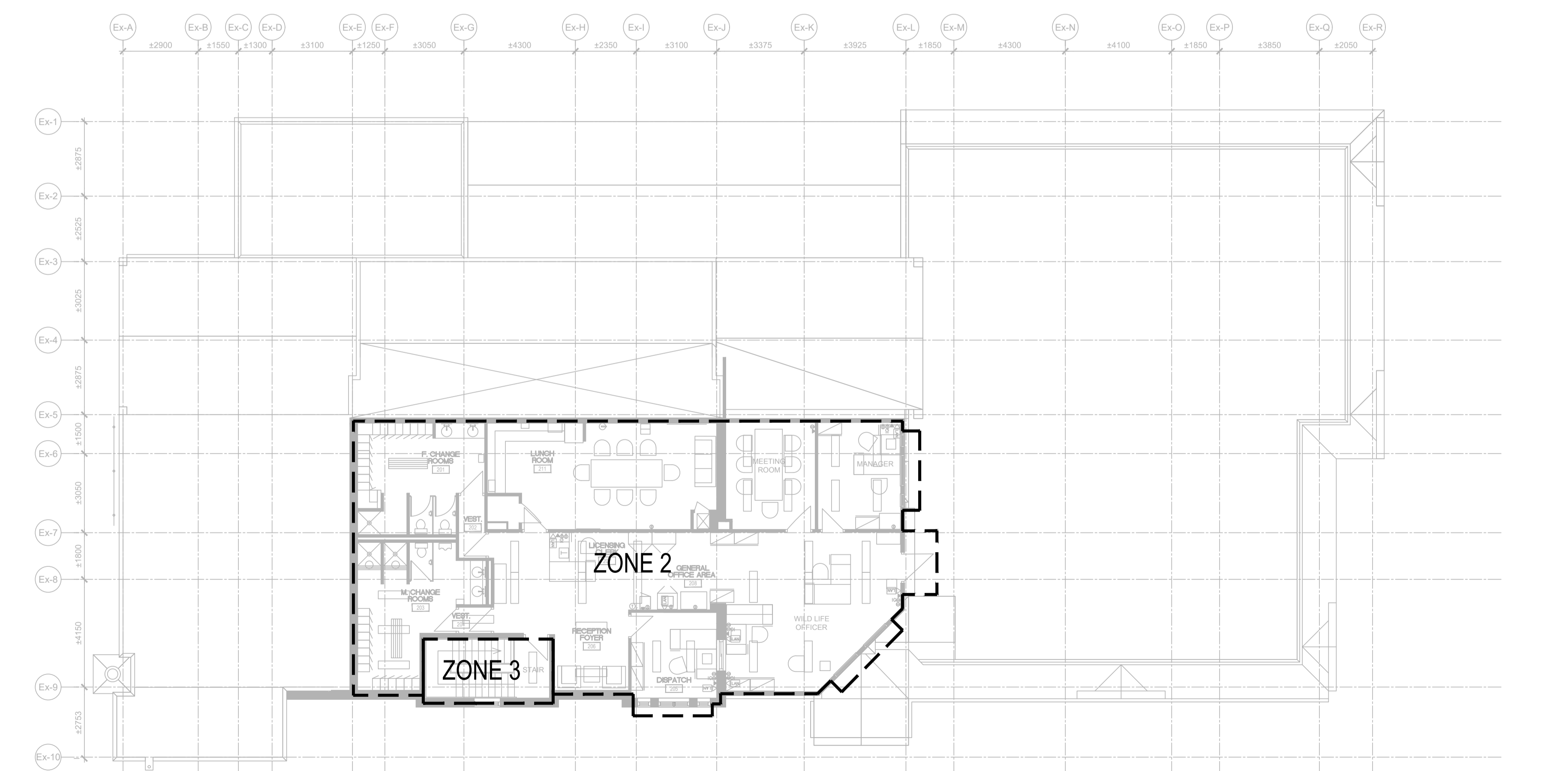
PROJECT NO: MRK-23007421-A0
 SCALE: AS SHOWN

GENERATOR

- ZONE 6
- ZONE 7
- ZONE 8
- ZONE 9



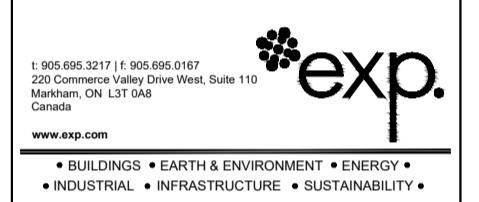
1 GROUND FLOOR FIRE ALARM ZONING PLAN
SCALE: 1:125



2 SECOND FLOOR FIRE ALARM ZONING PLAN
SCALE: 1:125

ZONING	ALARM INITIATION ZONE		NOTIFICATION ZONE		AUXILIARY CONTACTS/TROUBLE	DESCRIPTION
	HEAT/SMOKE DETECTOR	MANUAL PULL STATION	EVAC HORN SPEAKER	STROBE LIGHT		
ZONE 1	X	X	X	X		GROUND FLOOR
ZONE 2	X	X	X	X		SECOND FLOOR
ZONE 3	X	X	X	X		STAIRCASE
ZONE 4	X	X	X	X		STORAGE ROOM
ZONE 5	X	X				ELECTRICAL ROOM
ZONE 6					X	GENERATOR NOT ON AUTO
ZONE 7					X	GENERATOR LOW BATTERY
ZONE 8					X	GENERATOR FAILURE TO START
ZONE 9					X	SUPERVISORY FOR MAIN GENERATOR GAS VALVE
ZONE 10					X	ATS SUPERVISORY

- GENERAL NOTES:
- FIRE ALARM ZONE SCHEDULE IS SCHEMATIC ONLY. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORK FOR FULL ZONES BASED ON COORDINATION FOR ALL THE REQUIRED SYSTEMS.
 - INCLUDE ALL ITEMS NECESSARY TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION AND NECESSARY FOR COMPLETE AND OPERATION FIRE ALARM SYSTEM.
 - THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL NEW SYSTEM IS COMPLETELY INSTALLED, VERIFIED AND OPERATIONAL. AFTER NEW SYSTEM IS OPERATIONAL, REMOVE REDUNDANT PANELS, DEVICES, WIRING AND CONDUIT.
 - PROVIDE 20% SPARE ZONES FOR FUTURE PROVISIONS.

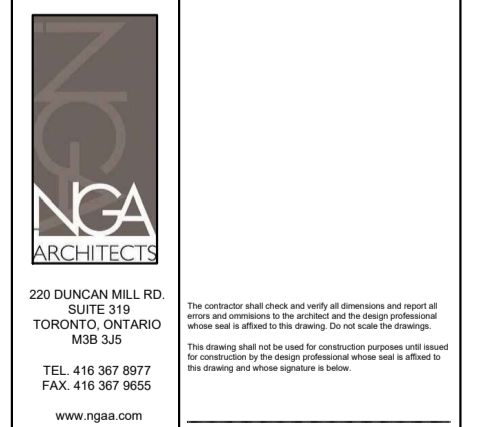


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REVISIONS



ANIMAL SERVICES CENTRE
RENOVATION PHASE-02 PROJECT
735 Central Parkway W,
Mississauga, ON L5C 4H4



PROJECT NO.	STRUCTURAL CONSULTANT	EXP SERVICES INC.
	MECHANICAL CONSULTANT	EXP SERVICES INC.
	ELECTRICAL CONSULTANT	EXP SERVICES INC.

DRAWING LIST		
FIRE ALARM ZONING		
SHEET NO.	DRAWN BY	CHECKED BY
E-501	JT	DL/SL
	PROJECT NO.	MRK-23007421-A0
	SCALE	1:125

LIGHTING LUMINAIRE SCHEDULE																
TYPE/ SYMBOL	BASE MANUFACTURER (AS SPECIFIED)	LOCATION	CATALOGUE NUMBER	CEILING MOUNTED			WALL MOUNTED			FLOOR MOUNTED	POLE MOUNTED	WATTAGE	COLOUR TEMP.	VOLTAGE		REMARKS
				SURFACE	RECESSED	SUSPENDED	SURFACE	RECESSED	BRACKET					120V	347V	
R1	SIGNIFY	ENTRANCE LOBBY, OFFICES AND CORRIDOR	2FPZ38L840-2-DS-UNV-DIM		X						34W 3800LUMENS	4000K 80CRI	X			
R2	SIGNIFY	CORRIDOR	1FPZ38B840-4-DS-UNV-DIM		X						30W 3800LUMENS	4000K 80CRI	X			
R3	PEERLESS	ELECTRICAL ROOM	AP2W-4-42-40-A2-LA-P-S-MV			X					34W 4200LUMENS	4000K 80CRI	X			
R4	SIGNIFY	COUNTER	1FPZ38B840-8-DS-UNV-DIM	X	X						30W 3800LUMENS	4000K 80CRI	X			
R5	ELITE	COUNTER	LB102-XX-24V-RGB/W-LB-2819S-ELG-200				X				9W/FT		X			
S1	LUMINII	ENTRANCE ABOVE SIGNAGE	RUNWW-30-HE48MO-40K-C-4-5A				X				8.75W 617.5LUMENS	4000K 92CRI	X			
S2	LUMINII	ENTRANCE ABOVE SIGNAGE	RUNWW-70-HE48MO-40K-C-4-5A				X				20.5W 1440LUMENS	4000K 92CRI	X			
L1	SIGNIFY	GENERAL AREAS	OWL440L840-UNV-DIM	X							30W 4200LUMENS	4000K 80CRI	X			
L2	VISIONEERING	GENERAL AREAS	LSVA24-LED840K042LUNV-XXXX	X							47W 4000LUMENS	4000K 80CRI	X			
L3	LUMINII	MALE CHANGE ROOM	LL30-41K-F-M-XX	X							2.5W/FT 200LUMEN/FT	4000K 80CRI	X			
D1	LITELINE	ENTRY VESTIBULE	SLMPRO8-40K-C-WH		X						33W 3130LUMENS	4000K 80CRI	X			
D2	LITELINE	MALE CHANGEROOM	DL4-12W-WH	X							12W 900LUMENS	4000K 80CRI	X			
X1	LUMACELL	THROUGHOUT THE BUILDING	LA3WS	X			X				2.5W		X		EXIT SIGN TO BE SELF POWERED WITH 120 MINUTES BACK UP	
RH2	BEGHELLI	DUAL REMOTE HEADS	BTMR-MR16 LED				X				7W		X			
BUX	BEGHELLI	BATTERY PACK WITH DUAL REMOTE HEADS	NV-6-72-2BTMR-LED-MR16-120/347 V				X				72W		X			

NOTES:

- ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/DESIGNER PRIOR TO ORDERING LUMINAIRES.
- ALL LUMINAIRES SHALL BE CSA APPROVED.
- CONTRACTOR TO PROVIDE MOUNTING ACCESSORIES AND HARDWARE TO SUIT CEILING AND WALL FINISHES.
- PROVIDE APPROVED EQUAL FOR ENGINEER'S REVIEW DURING SHOP DRAWINGS REVIEW.
- PROVIDE ACCESSORIES INCLUDING DRIVERS AND STEP-DOWN TRANSFORMERS AS REQUIRED TO MAKE A WORKING SYSTEM.



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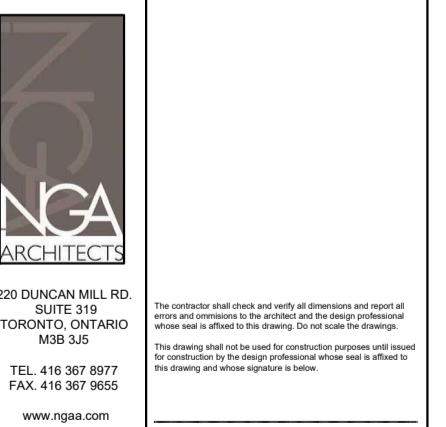
REVISIONS



**ANIMAL SERVICES
CENTRE**

**RENOVATION PHASE-02
PROJECT**

 735 Central Parkway W,
Mississauga, ON L5C 4H4



PROJECT NORTH	STRUCTURAL CONSULTANT	EXP SERVICES INC.
	MECHANICAL CONSULTANT	EXP SERVICES INC.
	ELECTRICAL CONSULTANT	EXP SERVICES INC.

DRAWING LIST

LUMINAIRE SCHEDULE

SHEET NO.	DRAWN BY	CHECKED BY
E-601	JT	DL/SL
	PROJECT NO.	MRK-23007421-A0
	SCALE	N.T.S.

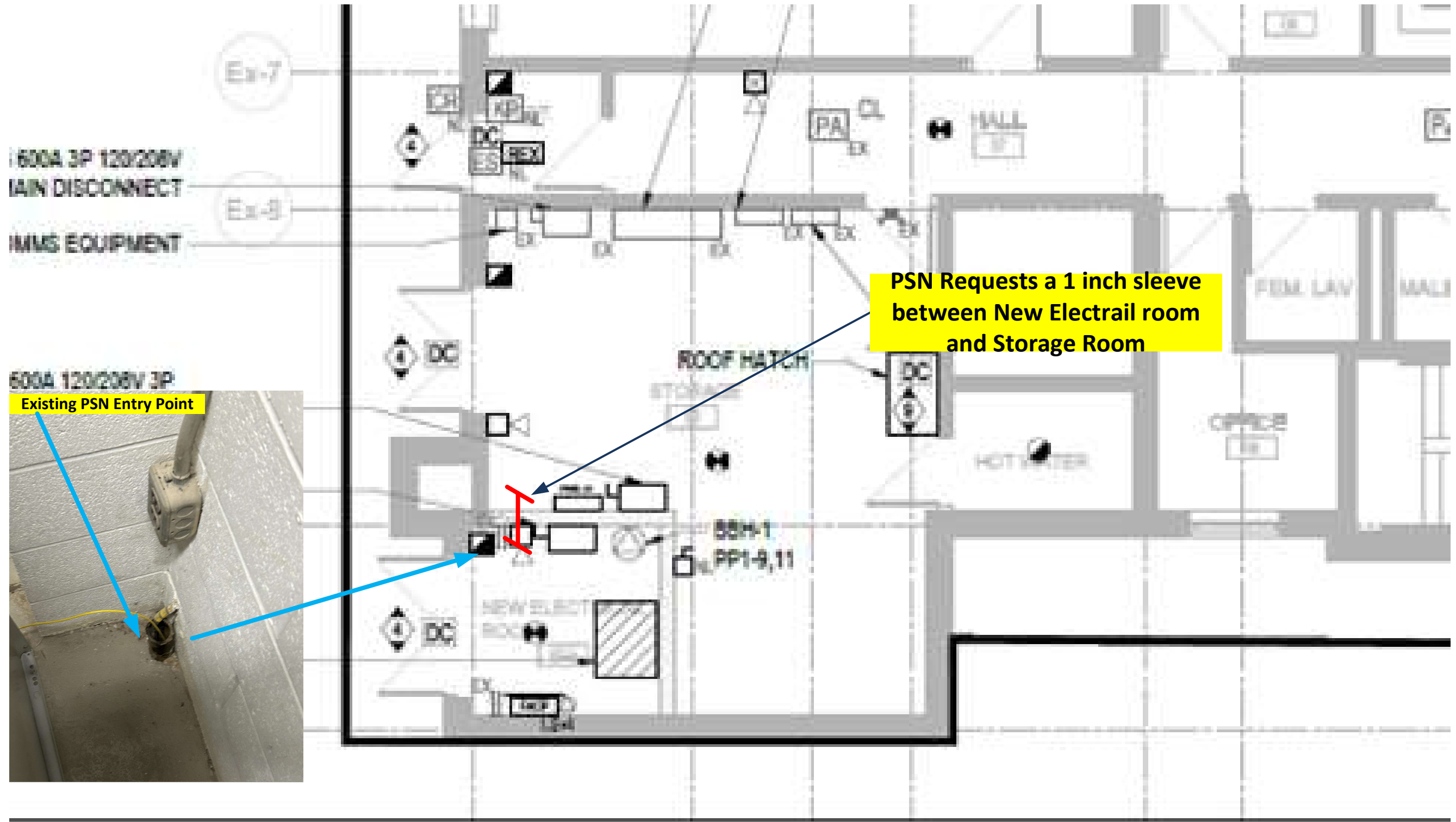
EXISTING PANEL PP1									
LOCATION:		GROUND FLOOR - CREMATORIUM		VOLTS: 120/208V		A.I.C. RATING: 10K			
SUPPLY FROM:		600A MAIN DISCONNECT DWITCH		PHASES: 3φ		MAIN TYPE:			
MOUNTING:		SURFACE		WIRES: 4W		MAINS RATING: 600A			
ENCLOSURE:						MCB RATING: N/A			
DESCRIPTION	LOAD	BKR	CCT	CCT	BKR	LOAD	DESCRIPTION	LOAD	BKR
PYLON SIGNAGE RECEPTACLES	0.5kW	15A	1	A	2	15A	GARAGE DOOR		
RECEPTACLE RM 08		15A	3	B	4				
NEW OUTDOOR PYLON SIGNAGE	2.5 kW	40A	5	A	6	80 A	ROOF TOP CONDENSING UNIT "CU-2"		
SPARE		20A	7	B	8				
BBH-1	1.5 kW	15A	9	A	10	15A	SPARE		
			11	B	12	15A	SPARE		
			13	A	14				
COMPRESSOR		20A	15	B	16	20A	SPARE		
			17	A	18				
EXHAUST FAN 'EF-4A'		15A	19	B	20	80 A	ROOF TOP CONDENSING UNIT "CU-1"		
CREMATORIUM COMPUTER		20A	21	A	22				
ELECTRIC FAN FORCED HEATER WEST VEST		20A	23	B	24	15A	CREMATORIUM CONTROL PANEL & EXHAUST FAN (ROOF)		
ROOFTOP MAINTENANCE RECEPTACLE		20A	25	A	26				
PANEL IN CREMATORIUM		30A	27	B	28	15A	WALK-IN FREEZER DRAIN LINE HEAT TRAC		
			29	A	30	15A	WALK-IN FREEZER DOOR PANEL INCLUDIN		
			31	B	32				
ELECTRIC FAN FORCED HEATER STAIR		15A	33	A	34	15A	WALK-IN FREEZER REMOTE CONDENSING UNIT		
			35	B	36				
			37	A	38	15A	WALK-IN FREEZER EVAPORATOR COIL/FANS		
			39	B	40				
PANEL "B"		150A	41	A	42		SPACE		
			43	B	44				
			45	A	46	60A	OUTSIDE TRAILER		
			47	B	48				
			49	A	50				
PANEL "NB"		150A	51	B	52	60A	OUTSIDE TRAILER		
			53	A	54				
			55	B	56				
			57	A	58	60A	CREMATORIUM MAIN POWER		
			59	B	60				
			61	A	62				
PANEL "NA"		150A	63	B	64	40	ROOF TOP UNIT 'RTU-1'		
			65	A	66				
			67	B	68				
			69	A	70	70	ROOF TOP UNIT 'RTU-2'		
			71	B	72				
			73	A	74				
PANEL "A"		150A	75	B	76	50	MAKEUP AIR UNIT 'MUA-1'		
			77	A	78				
			79	B	80				
			81	A	82	50	MAKEUP AIR UNIT 'MUA-2'		
			83	B	84				
TOTAL LOAD : 4.5 kW									
NOTES:									
1. CIRCUIT IN BOLD ARE NEW BREAKERS.									

EXISTING PANEL NA									
LOCATION:		GROUND FLOOR - CORRIDOR 18		VOLTS: 120/208V		A.I.C. RATING: 22K			
SUPPLY FROM:		PANEL PP1		PHASES: 3φ		MAIN TYPE:			
MOUNTING:		SURFACE		WIRES: 4W		MAINS RATING: 225A			
ENCLOSURE:						MCB RATING: N/A			
DESCRIPTION	LOAD	BKR	CCT	CCT	BKR	LOAD	DESCRIPTION	LOAD	BKR
PARKING AREA LIGHTING		20A	1	A	2	15A	NIGHT LIGHTING		
PARKING AREA LIGHTING		20A	3	B	4	15A	LIGHTING FOR OFFICES		
SPARE		20A	5	A	6	15A	LIGHTING FOR ALL CORRIDORS		
PARKING AREA LIGHTING		20A	7	B	8	15A	LIGHTING FOR OFFICES #26, 35, 38, 40		
PARKING AREA LIGHTING		15A	9	A	10	15A	LIGHTING FOR OFFICES		
EXTERIOR LIGHTING		15A	11	B	12	15A	LIGHTING FOR OFFICES #04, 05, 06		
EXTERIOR LIGHTING		15A	13	A	14	15A	LIGHTING FOR OFFICE #02 (RECEPTION)		
PRINTER		15A	15	B	16	15A	LIGHTING FOR OFFICES #03, 21		
POWER FOR SECURITY CAMERA		15A	17	A	18	15A	LIGHTING FOR OFFICES #19, 23, 24, 25		
VESTIBULE WALL WASH		15A	19	B	20	20A	RECEPTACLES		
PHOTOCELL		15A	21	A	22	15A	LIGHTING FOR OFFICES #29, 30, 32, 33		
SPACE			23	B	24	15A	LIGHTING FOR OFFICE #31		
SPACE			25	A	26	15A	LIGHTING FOR OFFICE #01 (WEST)		
SPACE			27	B	28	15A	EXIT LIGHTING 08, 10, 14, 41, TRUCK BAY		
SPACE			29	A	30	15A	EXIT LIGHTING 18, 20, 22, 29, 30, 32, 33, 34		
SPACE			31	B	32		SPACE		
SPACE			33	A	34		SPACE		
SPACE			35	B	36		SPACE		
SPACE			37	A	38		SPACE		
SPACE			39	B	40		SPACE		
SPACE			41	A	42		SPACE		
TOTAL LOAD : 0.0 kW									
NOTES:									
1. CIRCUITS IN BOLD ARE NEW BREAKERS.									

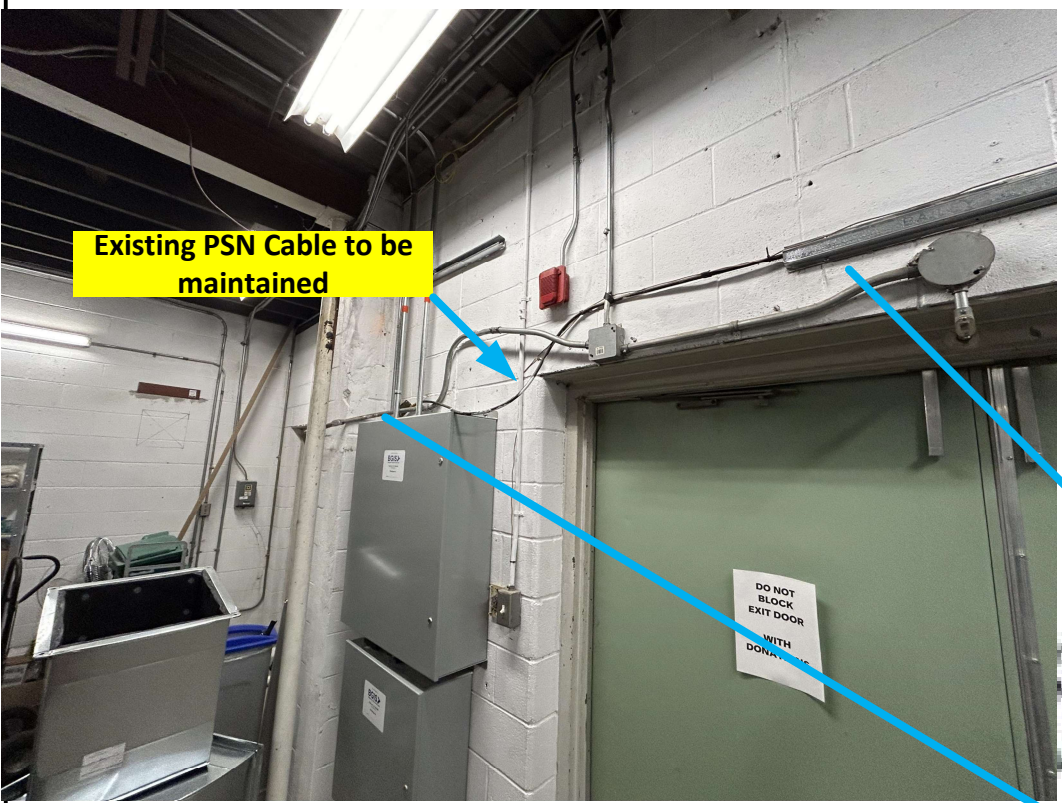
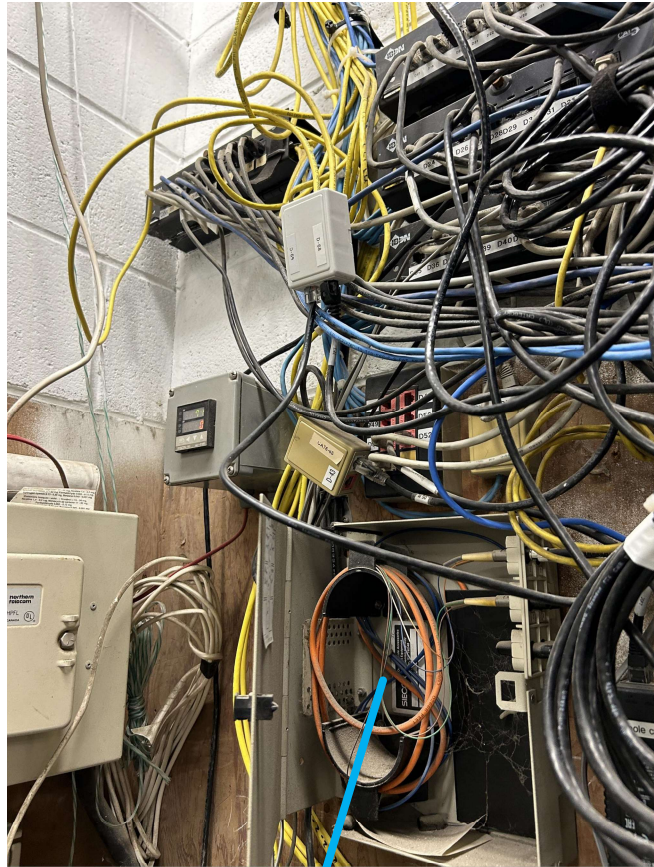
EXISTING PANEL A									
LOCATION:		GROUND FLOOR - CREMATORIUM		VOLTS: 120/208V		A.I.C. RATING: 10K			
SUPPLY FROM:		PANEL PP1		PHASES: 3φ		MAIN TYPE:			
MOUNTING:		SURFACE		WIRES: 4W		MAINS RATING: 225A			
ENCLOSURE:						MCB RATING: N/A			
DESCRIPTION	LOAD	BKR	CCT	CCT	BKR	LOAD	DESCRIPTION	LOAD	BKR
LIGHTING		15A	1	A	2	15A	RECEPTACLE		
TELEPHONE PLUG		15A	3	B	4	15A	SPLIT RECEPTACLE GARAGE		
LT PLUG IN BACK HALLWAY		15A	5	A	6	15A	SPLIT RECEPTACLE GARAGE		
SPARE		15A	7	B	8	20A	FREEZER		
SPARE		15A	9	A	10				
INCINERATOR ROOM LIGHTS		15A	11	B	12	20A	SPARE		
SPARE		15A	13	A	14	20A	GARAGE PLUG		
SPARE		15A	15	B	16	20A	FREEZER GARAGE		
TIMER OUTDOOR LIGHTS		15A	17	A	18	15A	SPARE		
TIMER OUTDOOR LIGHTS		15A	19	B	20				
EXTERIOR WALL LIGHTS ABOVE DOOR		15A	21	A	22	20A	GARAGE PLUG		
SPARE		15A	23	B	24				
BACK DOOR HEATERS		30A	25	A	26	15A	EVAPORATOR FANS		
			27	B	28	15A	EVAPORATOR FANS		
HEATERS		30A	29	A	30	15A	RESEPTIC		
			31	B	32	15A	EXHAUST FANS		
FRONT DOOR HEATERS		30A	33	A	34	15A	NIGHT LITE #1		
			35	B	36	15A	SPARE		
EXHAUST FAN #5		15A	37	A	38	15A	EAST EXIT		
TA CONTROLS		15A	39	B	40	15A	RED LTS		
FMC		15A	41	A	42		SPACE		
TOTAL LOAD : 0.0 kW									
NOTES:									
1. CIRCUITS IN BOLD ARE NEW BREAKERS.									

EXISTING PANEL NB									
LOCATION:		GROUND FLOOR - CORRIDOR 18		VOLTS: 120/208V		A.I.C. RATING: 22K			
SUPPLY FROM:		PANEL PP1		PHASES: 3φ		MAIN TYPE:			
MOUNTING:		SURFACE		WIRES: 4W		MAINS RATING: 225A			
ENCLOSURE:						MCB RATING: N/A			
DESCRIPTION	LOAD	BKR	CCT	CCT	BKR	LOAD	DESCRIPTION	LOAD	BKR
SECURITY PANELS		20A	1	A	2	15A	RECEPTACLES GFCI OFFICE		
SECURITY PANELS		20A	3	B	4	15A	RECEPTACLES GFCI OFFICE 28,34,CORR.17		
RECEPTACLES GFCI OFFICE 44,45,48,49		20A	5	A	6	15A	ADO		
RECEPTACLES GFCI OFFICE 09,42,43		20A	7	B	8	20A	RECEPTACLES OFFICE 19,29,30		
KENNEL #4		15A	9	A	10	15A	ADO		
RECEPTACLES OFFICE 46, 47,CORRIDOR 44		15A	11	B	12	15A	RECEPTACLES GFCI WEST 34		
RECEPTACLES GFCI OFFICE 19		15A	13	A	14	15A	RECEPTACLES OFFICE 21		
EXHAUST FAN 'EF-5A'		20A	15	B	16	15A	RECEPTACLES GFCI OFFICE		
CAT STRAY RECEPTACLE		15A	17	A	18	15A	RECEPTACLES GFCI CORR. 20 OFFICE		
RECEPTACLES OFFICE 12		15A	19	B	20	20A	RECEPTACLES IG OFFICE 16(COUNTER), 21		
RECEPTACLES OFFICE 26,35,38,40		15A	21	A	22	15A	RECEPTACLES OFFICE 21		
RECEPTACLES OFFICE 12,13,14,CORRIDOR		15A	23	B	24	15A	RECEPTACLES IG OFFICE 08,03,04,TV		
RECEPTACLES OFFICE 11(S.C.) KITCHEN		15A	25	A	26	15A	RECEPTACLES IG OFFICE 04,05,06		
RECEPTACLES SPLICE. OFFICE #11		15A	27	B	28	15A	RECEPTACLES OFFICE 04		
			29	A	30	15A	RECEPTACLES OFFICE 04,05,06		
RECEPTACLES GFCI OFFICE 11		15A	31	B	32	15A	HEATER FOR MAIN ENTRANCE		
RECEPTACLES SPLICE. OFFICE #11		15A	33	A	34				
			35	B	36	15A	EF OFFICE 17,19		
RECEPTACLES OFFICE 11(S.C.)		15A	37	A	38				
HOT WATER HEATER 'DHW-1' & BOILER 'BLR-1'		15A	39	B	40	15A	HEATER FOR CORR. 41		
PUMPS 'P-1' & 'P-2'		15A	41	A	42	15A	BAZZER		
DOOR OPERATOR OFFICE 01		15A	43	B	44	30A	HEATER FOR WEST 34		
DOOR OPERATOR OFFICE 01		15A	45	A	46				
SPARE		30A	47	B	48	20A	DRYER		
			49	A	50				
SPARE		15A	51	B	52	20A	SPARE		
CAT ROOM AC-1		20A	53	A	54				
			55	B	56	20A	SPARE		
CAT ROOM AC-2		20A	57	A	58				
			59	B	60	20A	SPARE		
DOG AC-1		20A	61	A	62				
			63	B	64	15A	ADO		
KENNEL #2 GFI RECEPTACLES		20A	65	A	66	15A	ADO		
TOTAL LOAD : 0.0 kW									
NOTES:									
1. CIRCUITS IN BOLD ARE NEW BREAKERS.									

EXISTING PANEL B									
LOCATION:		SECOND FLOOR		VOLTS: 120/208V		A.I.C. RATING: 10K			
SUPPLY FROM:		PANEL PP1		PHASES: 3φ		MAIN TYPE:			
MOUNTING:		SURFACE		WIRES: 4W		MAINS RATING: 225A			
ENCLOSURE:						MCB RATING: N/A			
DESCRIPTION	LOAD	BKR	CCT	CCT	BKR	LOAD	DESCRIPTION	LOAD	BKR
LIGHTING		15A	1	A	2	15A	RECEPTACLE		
LIGHTING		15A	3	B	4	15A	RECEPTACLE		
LIGHTING		15A	5	A	6	15A	RECEPTACLE		
RECEPTION (COPY) & LIGHTING		20A	7	B	8	15A	RECEPTACLE		
EXHAUST FAN 'EF-2'		15A	9	A	10	15A	COUNTER PLUG		



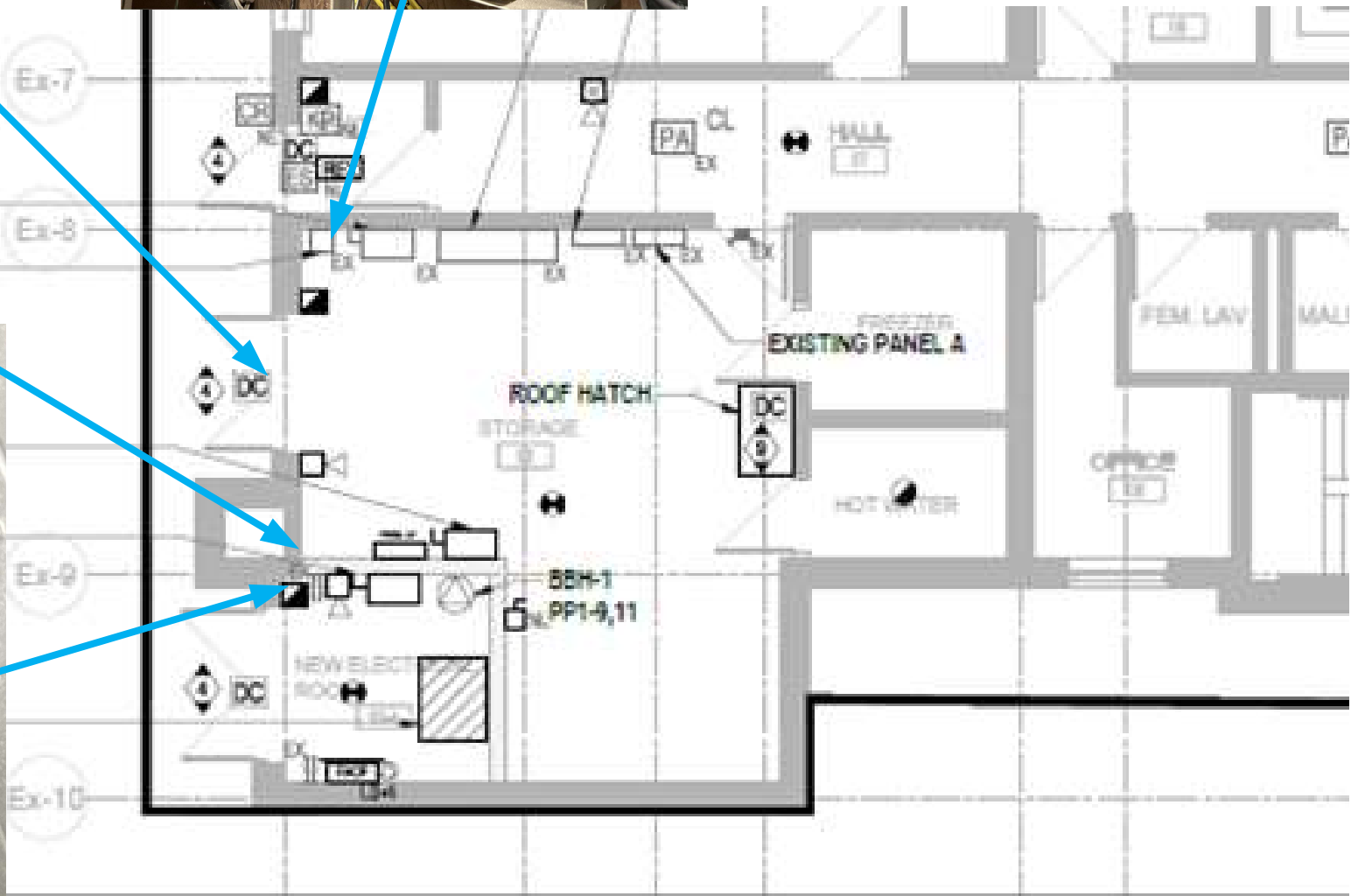
Drawing Title:	
Animal Services - PSN REQUEST	
Drawn By:	Drawing #:
MF	
Reviewed By:	Revision Date:
MF	2/8/2024



Existing PSN Cable to be maintained



Existing PSN Entry Point to be maintained



Drawing Title:	
Animal Services - PSN Cable	
Drawn By:	Drawing #:
MF	
Reviewed By:	Revision Date:
MF	2/8/2024