

CITY OF TORONTO
FIRE ALARM SYSTEM UPGRADE
CREM-PMO-23-C2-003

703 DON MILLS ROAD
NORTH YORK, ONTARIO
M3C 3N3

Sheet List Table	
Sheet Number	Sheet Title
COVER PAGE	
000	COVER PAGE AND DRAWING LIST
ARCHITECTURAL	
A-001	GENERAL NOTES & OBC MATRIX
A-002	SCHEDULES
A-201	FLOOR PLANS
A-301	REFLECTED CEILING PLANS & DETAILS
FIRE ALARM	
FA-00	FIRE ALARM LEGEND & DRAWING LIST
G-01	FIRE ALARM RISER DIAGRAM, MATRIX & DEMOLITION DETAILS
G-02	FIRE ALARM DETAILS
FA-0.1	BASEMENT NEW FIRE ALARM INSTALLATION
FA-01	GROUND FLOOR NEW FIRE ALARM INSTALLATION
FA-02	SECOND FLOOR NEW FIRE ALARM INSTALLATION
FA-03	THIRD FLOOR NEW FIRE ALARM INSTALLATION
FA-04	FOURTH FLOOR NEW FIRE ALARM INSTALLATION
FA-05	FIFTH FLOOR NEW FIRE ALARM INSTALLATION
FA-06	SIXTH FLOOR NEW FIRE ALARM INSTALLATION
FA-07	SEVENTH FLOOR NEW FIRE ALARM INSTALLATION
FA-08	EIGHTH FLOOR NEW FIRE ALARM INSTALLATION
FA-09	NINTH FLOOR NEW FIRE ALARM INSTALLATION
FA-10	MECHANICAL PENTHOUSE NEW FIRE ALARM INSTALLATION
D-0.1	BASEMENT FIRE ALARM DEMOLITION
D-01	GROUND FLOOR FIRE ALARM DEMOLITION
D-02	SECOND FLOOR FIRE ALARM DEMOLITION
D-03	THIRD FLOOR FIRE ALARM DEMOLITION
D-04	FOURTH FLOOR FIRE ALARM DEMOLITION
D-05	FIFTH FLOOR FIRE ALARM DEMOLITION
D-06	SIXTH FLOOR FIRE ALARM DEMOLITION
D-07	SEVENTH FLOOR FIRE ALARM DEMOLITION
D-08	EIGHTH FLOOR FIRE ALARM DEMOLITION
D-09	NINTH FLOOR FIRE ALARM DEMOLITION
D-10	MECHANICAL PENTHOUSE FIRE ALARM DEMOLITION
ELECTRICAL	
E-01	GROUND FLOOR ELECTRICAL NEW WORK
E-02	GROUND FLOOR ELECTRICAL & LIGHTING PLAN
MECHANICAL	
M-01	LEGEND, DRAWING LIST, GENERAL NOTES & SPECIFICATIONS
M-02	GROUND FLOOR VENTILATION DEMO AND NEW WORK

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS





MORRISON
HERSHFIELD

now 

Stantec

Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

COVER PAGE AND DRAWING LIST

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO	VERSION
APPROVED MJJ	000	----

I:\egpyriaDrive\MH CloudProj\2023\20231500-703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\Fire\000 COVER PAGE AND DRAWING LIST.dwg Last Saved: 2024-06-20 2:01 PM by Tahajal Plotted 2024-08-13 4:12 PM by Jon Wong

GENERAL LEGEND	
<div><div><div>PROJECT / PLAN NORTH</div><div></div><div>TRUE NORTH</div></div><div><div>NORTH ARROW</div></div></div>	<div><div><div><div></div><div>ELEVATION INDICATOR</div></div><div><div><div><div>ROOM</div><div>ROOM NAME</div></div><div><div>#</div><div>ROOM NUMBER</div></div><div><div># m²</div><div>AREA (IF APPLICABLE)</div></div></div><div>ROOM IDENTIFIER</div></div></div></div>
<div><div><div>EXISTING GRID INDICATOR WITH GRID LINES</div><div></div></div><div><div>NEW GRID INDICATOR WITH GRID LINES</div><div></div></div></div>	<div><div><div><div>F#</div><div>FLOOR TYPE INDICATOR</div></div><div><div>R#</div><div>ROOF TYPE INDICATOR</div></div><div><div>W#</div><div>WALL / PARTITION TYPE INDICATOR</div></div><div><div>C#</div><div>CEILING TYPE INDICATOR</div></div><div><div>3000</div><div>CEILING HEIGHT</div></div></div></div>
<div><div><div><div>LEVEL LOCATION</div><div></div><div>GROUND FLOOR</div></div><div><div>ELEVATION VALUE</div></div></div><div><div>LEVEL INDICATOR</div></div></div>	<div><div><div><div>#A</div><div>DOOR IDENTIFIER</div></div><div><div>#</div><div>KEYNOTE INDICATOR</div></div></div></div>
<div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>A101</div></div><div>ELEVATION REFERENCE</div><div>SHEET WHERE DRAWN</div></div><div><div>INTERIOR ELEVATION INDICATORS</div></div></div>	<div><div><div><div>---</div><div>PROPERTY LINE</div></div><div><div>---</div><div>EXISTING WALL</div></div></div></div>
<div><div><div><div>1</div><div>A101</div></div><div>ELEVATION REFERENCE</div><div>SHEET WHERE DRAWN</div></div><div><div>BUILDING ELEVATION INDICATORS</div></div></div>	<div><div><div><div>---</div><div>WALL TO BE DEMOLISHED</div></div><div><div>---</div><div>NEW WALL</div></div></div></div>
<div><div><div><div>1</div><div>A-101</div></div><div>DETAIL NUMBER</div><div>SHEET WHERE DRAWN</div><div>LIMITS OF DETAIL</div></div><div><div>DETAIL REFERENCE INDICATORS</div></div></div>	<div><div><div><div>---</div><div>1-HR FIRE RESISTANCE RATING</div></div><div><div>---</div><div>2-HR FIRE RESISTANCE RATING</div></div></div></div>
<div><div><div><div>1</div><div>A101</div></div><div>SECTION REFERENCE</div><div>SHEET WHERE DRAWN</div></div><div><div>FULL BUILDING SECTION REFERENCE INDICATORS</div></div></div>	<div><div><div><div></div><div>EXISTING DOOR</div></div><div><div></div><div>EXISTING DOOR TO BE DEMOLISHED</div></div></div></div>
<div><div><div><div>1</div><div>A101</div></div><div>SECTION REFERENCE</div><div>SHEET WHERE DRAWN</div></div><div><div>WALL SECTION/DETAIL INDICATOR FOR SMALL CONDITIONS</div></div></div>	<div><div><div><div></div><div>NEW SINGLE DOOR</div></div><div><div></div><div>NEW DOUBLE DOOR, DASHED LINE REPRESENTS PASSIVE DOOR PANEL</div></div></div></div>
<div><div><div><div>1</div><div>A101</div></div><div>DRAWING REFERENCE NUMBER</div><div>DRAWING TITLE</div><div>DRAWING SCALE</div><div>SHEET WHERE DRAWN</div></div><div><div>DRAWING VIEW TITLE</div></div></div>	<div><div><div><div></div><div>SUSPENDED CEILING GRID SYSTEM</div></div><div><div></div><div>SUSPENDED CEILING GRID SYSTEM TO BE DEMOLISHED</div></div></div></div>
<div><div><div><div>A101</div><div>DISCIPLINE DESIGNATOR</div></div><div>DRAWING NUMBERS</div></div><div><div><div><div>A101</div><div>SEQUENTIAL SHEET NUMBER</div></div></div></div></div>	<div><div><div><div></div><div>FLUORESCENT LIGHT FIXTURE</div></div><div><div><div><div>Ø</div><div>RECESSED LIGHT FIXTURE</div></div></div></div></div></div>
<div><div><div><div>1</div><div>A101</div></div><div>REVISION REFERENCE NUMBER</div><div>LIMITS OF REVISION</div></div><div><div>REVISION CLOUD</div></div></div>	<div><div><div><div></div><div>SUPPLY AIR DIFFUSER</div></div><div><div><div><div></div><div>RETURN AIR REGISTER</div></div></div></div></div></div>

ABBREVIATIONS	
@ & ± ° " # Ø	AT AND APPROXIMATE VALUE DEGREES INCH; DITTO NUMBER DIAMETER; ROUND
A/C ACT AFF ALT ALUM AHR L ARCH BD BFF BFG B/K BM B/F BOT BPG BUR CB CER CG CJ CL CLG CLR CMU CPT COL CONC CONSTR CONT CT CTR C/W DF DIA DN DS DET DM EA EC ECB EIFS	AIR CONDITIONING UNIT ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR ALTERNATE ALUMINUM ANCHOR ANGLE ARCHITECTURAL BOARD BELOW FINISH FLOOR BELOW FINISH GRADE BLOCK BEAM BARRIER FREE BOTTOM BACK PAINTED GLASS BUILT-UP ROOFING CARPET BASE / CATCH BASIN CERAMIC CORNER GUARD CONTROL JOINT CENTER LINE CEILING CLEAR CONCRETE MASONRY UNIT CARPET COLUMN CONCRETE CONSTRUCTION CONTINUOUS CERAMIC TILE CENTER COMPLETE WITH DRINKING FOUNTAIN DIAMETER DOWN DOWNSPOUT DETAIL DEMOUNTABLE PC 350 FRAME EACH EPOXY COATING EPOXY COATING BASE EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELECTRIC/ ELECTRICAL ELEVATION EPOXY PAINT ELECTRICAL PANEL EQUAL EACH WAY EXPANSION EXTERIOR EXIST FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISHED FLOOR FIRE HYDRANT FIRE HOSE CABINET FINISH FLOOR FIRE RESITANCE RATING FINISHED SURFACE FOOTING GA GAL GENERAL GYPSUM GYPSUM WALL BOARD HYDRANT HANDICAPPED HOOK HOLLOW METAL HORIZONTAL HOUR
HSS HT HP INSUL INT JT LYR LAM MFR MATL MAX MECH MH MIN MISC MO MTL NIC NC NOM NTS OC OD OH DR OPNG OPP PLYWD PR PS PTD P-X R RB-X RCP RD RECPT REINF REQ'D RM RO RTU ROW SC-T SCHED SECT SIM SP SST STD STL LNTL STOR STRUCT TEMP TF TG TGP THK TOS TYP UNO U/S VCT VERT VNR W/ WD WWM WG	HOLLOW STRUCTURAL STEEL HEIGHT HIGH POINT INSULATION INTERIOR JOINT LAYER LAMINATED MANUFACTURER MATERIAL MAXIMUM MECHANICAL MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING METAL NOT IN CONTRACT NO CEILING NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OH DR OPENING OPPOSITE PLATE PLYWOOD PAIR PRESSED STEEL PAINTED PAINT RADIUS RUBBER COVE BASE REFLECTED CEILING PLAN ROOF DRAIN RECEPTACLE REINFORCED/ REINFORCING REQUIRED ROOM ROUGH OPENING ROOF TOP UNIT RIGHT OF WAY SEALED CONCRETE SCHEDULE SECTION SIMILAR SPLICE POINT STAINLESS STEEL STANDARD STEEL LINTEL STORAGE STRUCTURAL TEMPORARY TRAINING FACILITY TEMPER GLASS TEMPORARY GLASS PANEL THICKNESS TOP OF STEEL TYPICAL UNLESS NOTED OTHERWISE UNDERSIDE VINYL COMPOSITE TILE VERTICAL VENEER WITH WOOD WELDED WIRE MESH WIRED GLASS
MATERIAL SYMBOLS	
MASONRY & EARTHWORK	
	GRAVEL, GRANULAR FILL
	EARTHWORK, UNDISTURBED / COMPACTED FILL
	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK, STONE
METAL	
	STEEL
	ALUMINUM
WOOD	
	WOOD
	PLYWOOD
	CONTINUOUS DIMENSIONAL LUMBER
	WOOD SHIM
INSULATION	
	RIGID INSULATION
	SEMI-RIGID INSULATION
	FIBROUS INSULATION
	SPRAYED INSULATION / FIRE RESISTIVE MATERIAL
INTERIOR	
	GYPSUM PLASTER, MORTAR
	PLASTIC, RUBBER

GENERAL NOTES	
1.	THE CONTRACTOR SHALL VISIT THE PROPERTY AND MAKE THEMSELVES FULLY AWARE OF ALL EXISTING CONSTRUCTION SO THAT THEY INCLUDES FOR ALL CONTINGENCIES.
2.	CAREFULLY EXAMINE ALL EXISTING SITE CONDITIONS AND BUILDING COMPONENTS, ALONG WITH ALL DIMENSIONS WHICH MAY AFFECT PROPER EXECUTION OF THE WORK, SO THAT A CLEAR AND COMPREHENSIVE UNDERSTANDING OF THE SCOPE OF WORK IS ACHIEVED.
3.	CONTRACTOR SHALL INSPECT ALL EXISTING SURFACES AND SUBSTRATES TO RECEIVE NEW FINISHES AND NOTIFY CONSULTANT OF ANY DEFICIENCIES PRIOR TO ORDERING OR INSTALLTION OF NEW FINISHES. INSTALL NEW FINISHES ONLY WHEN THE SUBSTRATE CONDITION MEETS THE MANUFACTURER'S WRITTEN INSTRUCTION OF NEW FINISHES.
4.	ALL DIMENSIONS MUST BE CONFIRMED ON SITE BY CONTRACTORS. CAREFULLY EXAMINE ALL EXISTING SITE CONDITIONS AND BUILDING COMPONENTS ALONG WITH ALL DIMENSIONS THAT WILL AFFECT THE PROPER EXECUTION OF WORK IN ORDER TO OBTAIN A CLEAR AND COMPREHENSIVE UNDERSTANDING OF THE WORK REQUIRED TO COMPLETE THE PROJECT.
5.	ALL WORK IS TO BE EXECUTED BY EXPERIENCED TRADESPERSONS TO THE BEST WORKMANSHIP. IN CONFORMANCE TO REQUIREMENTS OF THE APPLICABLE BUILDING CODE, LOCAL/MUNICIPAL BY-LAWS, REGULATIONS AND TO ORDINANCES OF AUTHORITIES HAVING JURISDICTION, ALL TO THE SATISFACTION AND APPROVAL OF THE OWNER AND CONSULTANT.
6.	ALL BASE BUILDING COMPONENTS INCLUDING WALLS, FLOORS, CEILINGS AND CEILING MOUNTED FIXTURES, AND DOORS ARE TO REMIAN UNLESS NOTED OTHERWISE.
7.	EXCEPT AS INDICATED, DIMENSIONS SHOWN ON PLANS ARE: A. ON NEW PARTITIONS - FACE OF GYPSUM BOARD OR MASONRY/CONC. B. ON EXISTING PARTITIONS - FROM FACE OF EXISTING FINISH.
8.	ANY 3D ILLUSTRATIONS ARE FOR REFERENCE ONLY. ALL CONSTRUCTION DOCUMENTATION SUPERCEDE THE ILLUSTRATIONS PROVIDED AND ANY DISCREPANCIES ARE TO BE BROUGHT UP TO THE CONSULTANT PRIOR TO START OF CONSTRUCTION.
9.	DETAILS ILLUSTRATED HEREIN ARE REPRESENTATIVE OF THE CHARACTER, QUALITY AND PROFILES REQUIRED FOR THE WORK. CONDITIONS NOT COVERED BY SPECIFIC DETAILS ARE SIMILAR TO THOSE DETAILED.
DEMOLITION NOTES	
1.	CAREFULLY EXAMINE ALL EXISTING SITE CONDITIONS AND BUILDING COMPONENTS, ALONG WITH ALL DIMENSIONS WHICH MAY AFFECT PROPER EXECUTION OF THE WORK, SO THAT A CLEAR AND COMPREHENSIVE UNDERSTANDING OF THE SCOPE OF WORK IS ACHIEVED.
2.	CONTRACTOR TO PROTECT ALL EXISTING BUILDING FINISHES DURING PERFORMANCE OF DEMOLITION AND ALL NEW CONSTRUCTION.
3.	PROVIDE DUST TIGHT SCREENS OR CONSTRUCTION HOARDING TO LOCALIZE DUST GENERATION DURING DEMOLITION AND FOR PROTECTION OF WORKERS AND FINISHED AREAS OF WORK. MAINTAIN AND RELOCATE PROTECTION UNTIL SUCH WORK IS COMPLETE. REFER TO DEMOLITION PLAN DRAWINGS FOR MORE INFORMATION.
4.	CONTRACTOR TO MAKE GOOD ALL SURFACES AFFECTED BY DUST CONTROL AND CONSTRUCTION HOARDING PRIOR TO OCCUPANCY.
5.	WHERE EXISTING WORK OR CONSTRUCTION TO REMAIN IS DAMAGED BY CONTRACTOR'S DEMOLITION WORK, THE WORK OR CONSTRUCTION MUST BE REPAIRED TO MATCH EXISTING.
6.	WHERE EXISTING WORK OR SERVICE OUTSIDE OF DEMOLITION WORK AREA IS DISTURBED BY CONTRACTOR'S DEMOLITION WORK, THE WORK OR SERVICE MUST BE REINSTATED TO EXISTING CONDITION.
7.	CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM SITE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AT LEGAL DESIGNATED SITES IN ACCORDANCE WITH APPLICABLE LAW.
8.	REFER TO ELECTRICAL FOR REROUTING EXISTING ELECTRICAL CABLING WHICH ARE AFFECTED BY DEMOLITION WORK.
9.	WHERE WALLS ARE TO BE REMOVED, THE CONTRACTOR IS TO INCLUDE FOR REMEDIAL WORK NECESSARY TO LEVEL ADJACENT FLOORS PRIOR TO APPLICATION OF NEW FLOOR FINISH.
10.	PATCH, REPAIR AND MAKE GOOD ALL CONCRETE SLABS AS REQUIRED THROUGHOUT SCOPE OF PROJECT DUE TO DEMOLITION AND NEW CONSTRUCTION.
11.	IT IS THE CONTRACTOR'S RESPONSIBILITY WHEN DEMOLISHING THE EXISTING WALLS TO ENSURE THAT ELECTRICAL SERVICES WITHIN THE WALLS AND CEILINGS ARE NOT LIVE. CONTRACTOR TO RE-ROUTE ELECTRICAL IF NECESSARY.
12.	REINSTATE AND MAKE GOOD ALL EXISTING FIRE PROOFING DAMAGED DUE TO DEMOLITION AND NEW CONSTRUCTION.
13.	REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL DEMOLITION INFORMATION.

Name of Practice: MORRISON HERSHFIELD LTD. Suite 300, 125 Commerce Valley Drive West, Markham, ON L3T 7W4				
Name of Project: 703 Don Mills - Fire Alarm System Replacement & CACF				
Location: 703 Don Mills Rd., Toronto, ON M3C 3N3				
Date: September 2023				
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building				Building Code Reference
11.0	Building Code Version:	O. Reg. 332/12	Last Amendment	O. Reg. 191/14
11.01	Project Type:	<input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and renovation <input type="checkbox"/> Change of Use Description: Interior renovations to replace existing fire alarm system	[A] 1.1.2.	
11.02	Major Occupancy Classification:	Occupancy Group D	Use Business and Personal Services	3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Description:	3.2.2.7.	
11.04	Building Area (m²)	Description:	Existing New Total	[A] 1.4.1.2.
		Ground Floor (No Architectural Scope on other Floors)	1256 0 1256	
			0 0 0	
			0 0 0	
		Total	1256 0 1256	
11.05	Building Height	10 Storeys above grade 1 Storeys below grade	45 (m) Above grade	[A] 1.4.1.2. & 3.2.1.1.
11.06	Number of Streets/ Firefighter access	4 street(s)	3.2.2.10. & 3.2.5.	
11.07	Building Size	<input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large	T.11.2.1.1. B-N.	
11.08	Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable Construction Index: N/A Hazard Index: N/A Importance Category: <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	11.2.1.1. T 11.2.1.1A T 11.2.1.1B to N 4.2.1.(3), 5.2.2.1.(2)	
11.09	Renovation type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1. 11.3.3.2.	
11.10	Occupant Load	Floor Level/Area Ground Floor Occupancy Type No Change to Occupancy Type and Occupant Load	Based On Occupant Load (Persons)	3.1.17.
11.11	Plumbing Fixture Requirements	Ratio: M/F: n/a Floor Level/Area Occupant Load OBC Ref. Fixtures Required Fixtures Provided	3.7.4.	
11.12	Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.3.3.2.(2)	
11.13	Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.4.2.6.	
11.14	Compensating Construction:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Structural: <input type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input type="checkbox"/> No <input type="checkbox"/> Yes	11.4.3.1. 11.4.3.2. 11.4.3.3. 11.4.3.4. 11.4.3.5. 11.4.3.6. 11.4.3.7.	
11.15	Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1.	

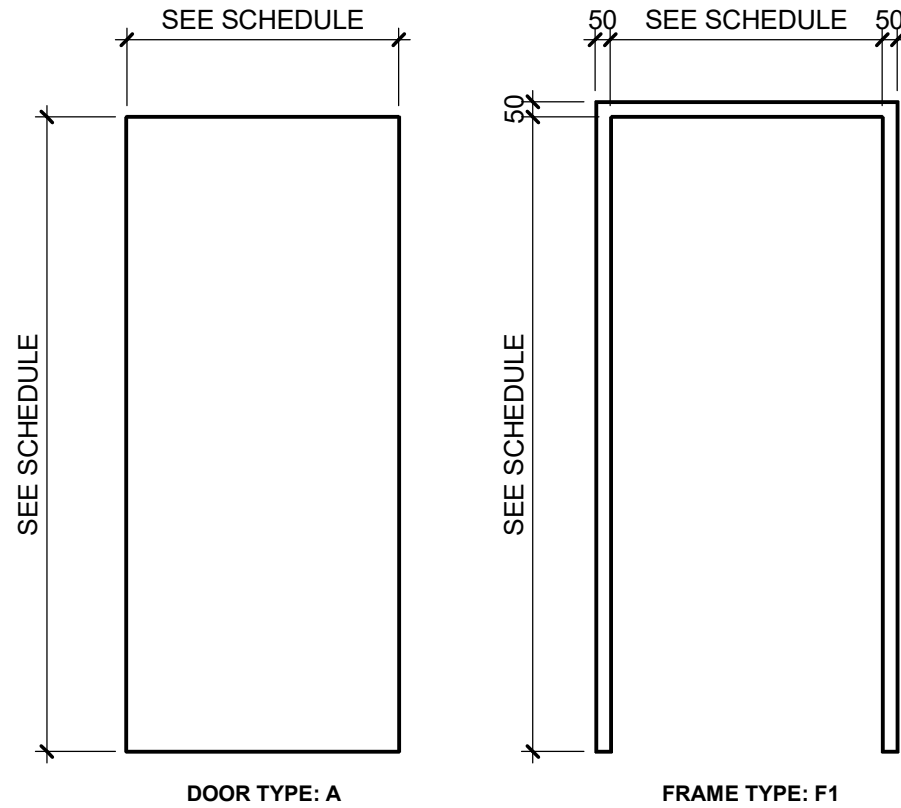
Suite 300, 125 Commerce Valley Drive W. Markham, ON L3T 7W4 Tel: 416 499 3110		
PROJECT		
703 DON MILLS FIRE ALARM REPLACEMENT		
DRAWING		
GENERAL NOTES & OBC MATRIX		
DRAWN AH	DATE 2023-10-12	SCALE
DRAWN AH	PROJECT NO 230231500	1 : 1
CHECKED PK	DRAWING NO.	VERSION
APPROVED PK	A-001	5

ROOM FINISH SCHEDULE																			
ROOM NUMBER	ROOM NAME	FLOOR			WALLS								CEILING			COMMENTS			
		MAT	FIN	BASE	NORTH		WEST		SOUTH		EAST		MAT	FIN	HEIGHT				
					MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN							
GROUND FLOOR																			
126	CACF ROOM	EXIST	VCT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2900	PROVIDE RUBBER BASE TO BOTH SIDE OF NEW DEMISING WALLS TO MATCH EXISTING			

DOOR AND HARDWARE SCHEDULE																																		
DOOR NO.	ROOM NAME	ROOM NUMBER	DOOR DIMENSIONS			DOOR TYPES		DOOR MATERIALS			LOUVRE	FRAME			FIRE LABEL	HARDWARE												ELEC. POWER REQUIREMENTS	COMMENTS					
			WIDTH	HEIGHT	THICKNESS	ACTIVE PANEL	PASSIVE PANEL	MATERIAL	FINISH	GLAZING		MATERIAL	TYPE	FINISH		HINGES	CLOSER	LOCKSET	LATCHSET	ASTRAGAL	FLUSHBOLTS	PANIC	WEATHER-STRIPPING	KICK PLATE	AUTOMATIC DOOR BOTTOM	THRESHOLD	DOOR STOP			DOOR CONTACT				
																											OVERHEAD				FLOOR			
GROUND FLOOR																																		
126A	CACF ROOM	126	915	2450	45	A	-	SWC	VNR	-	-	HM	F1	PT	45 MIN	■	■	F07	-	-	-	-	■	■	-	■	-	■	-	-	-	-	-	NEW DOOR VENEER AND FRAME PAINT COLOUR TO MATCH EXISTING. INSTALL KICK PLATE ON CACF ROOM SIDE ONLY.

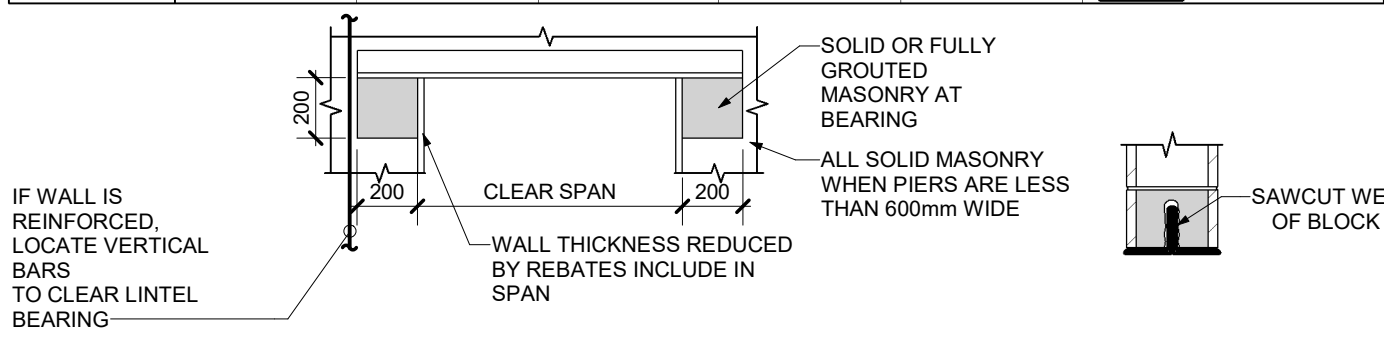
ABBREVIATIONS	
ACT	ACOUSTIC CEILING TILE
EXIST	EXISTING
GB	GYPSUM BOARD
HM	HOLLOW METAL
SWC	SOLID WOOD CORE
PT	PAINT
RB	RUBBER BASE
VNR	VENEER

HARDWARE LEGEND	
F01	PASSAGE FUNCTION
F04	ENTRY / OFFICE FUNCTION
F05	CLASSROOM FUNCTION
F07	STOREROOM FUNCTION
F19	PRIVACY SET (WASHROOM) FUNCTION



DOOR & FRAME TYPES

STEEL LINTEL MINIMUM REQUIREMENTS						
WALL THICKNESS	CLEAR SPAN				ANGLE ORIENTATION	DETAIL
	UP TO 1500	1500 TO 1800	1800 TO 2400	2400 TO 3000		
90 VENEER	1-L89x89x7.9	1-L102x89x7.9	1-L127x89x7.9	1-L152x102x9.5	LLV	
140	2-L64x64x7.9	2-L89x64x7.9	2-L89x64x7.9	2-L89x64x9.5	64 LEGS HORIZ	
190	2-L89x89x7.9	2-102x89x7.9	2-L127x89x7.9	2-L127x89x7.9	89 LEGS HORIZ	
240	1-L102x76x7.9 + 1-L127x76x7.9	1-L102x102x7.9 + 1-L127x76x7.9	1-L152x102x7.9 + 1-L127x89x7.9	1-L152x102x7.9 + 1-L127x127x7.9	102 & 127 LEGS HORIZ	
290	3-L89x89x7.9	3-L89x89x7.9	3-L102x89x7.9	3-L127x89x7.9	89 LEGS HORIZ	



- NOTES:
- AT ALL OPENINGS WIDER THAN 200 mm IN PARTITIONS OR IN NON-LOAD BEARING CMU WALLS, PROVIDE A STEEL LINTEL IN ACCORDANCE WITH THE SCHEDULE ABOVE, UNLESS OTHERWISE NOTED.
 - ALL STEEL LINTELS SHALL BE 400 mm LONGER THAN THE CLEAR HORIZONTAL DIMENSION OF THE OPENING AND SHALL BEAR FOR 200 mm ON SOLID (OR GROUTED) MASONRY. PROVIDE STEEL PACKING PLATES AS REQUIRED TO ENSURE EVEN AND LEVEL BEARING.
 - FOR LINTELS WITH A CLEAR SPAN OF 1800 mm OR MORE, CONNECT STEEL ANGLES TO EACH OTHER AT A MAXIMUM HORIZONTAL SPACING OF 450 mm WITH 6 mm x 50 mm WELDS OR WITH M16 BOLTS.
 - WHERE BOTTOM OF DOUBLE OR TRIPLE ANGLES ARE TO BE EXPOSED, WELD HEELS TOGETHER AND GRIND SMOOTH.
 - FILL SPACE AROUND VERTICAL LEGS OF ANGLES WITH MORTAR OR GROUT.
 - FOR NEW OPENINGS IN EXISTING WALLS, PREFERENCE IS TO INSTALL ANGLES BACK TO BACK, REBUILDING BLOCK LOCALLY ABOVE ANGLES AS REQUIRED. WHERE SPACE IS LIMITED AND WHERE APPROVED BY ARCHITECT, LINTELS MAY BE INSTALLED TO-TOE FROM EXTERIOR, WITH HORIZ. ANGLE LEGS CONNECTED WITH WELDED STITCH PLATES AT 450 mm C/C MAX.
 - FOR EXTERIOR WALLS, ALL STEEL LINTELS TO BE HOT-DIPPED GALVANIZED, U.N.O.
 - EXISTING MASONRY WALL SHALL BE SHORED AS REQUIRED.

STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS

M-07

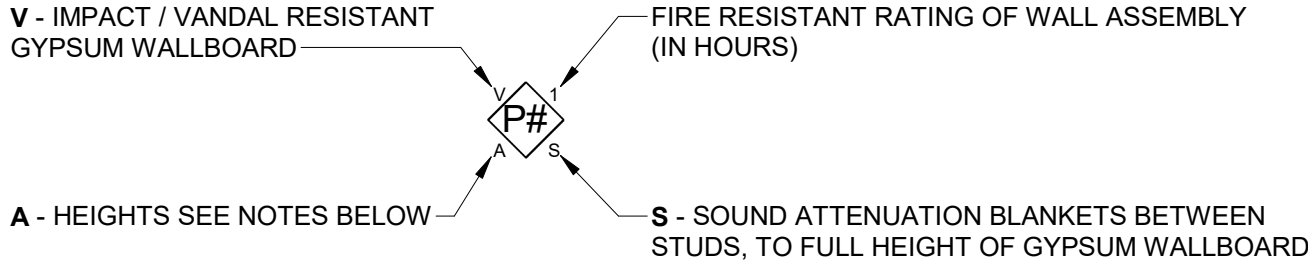
INTERIOR PARTITION TYPES

WALL NO.		MATERIALS	FIRE RESISTANCE RATING	STC RATING
P2C		16 mm FIRE RESISTIVE GYPSUM BOARD 92 mm STEEL STUDS 90 mm SOUND ATTENUATION BATT INSULATION 16 mm FIRE RESISTIVE GYPSUM BOARD	1 HOUR ULC W407	48
P5C		3 LAYERS 16 mm FIRE RESISTIVE GYPSUM BOARD 92 mm STEEL STUDS	1 HOUR SYSTEM WPS141 eUL W443	41

INTERIOR PARTITION NOTES

EXTEND ALL PARTITIONS FULL HEIGHT TO UNDERSIDE OF STRUCTURE EXCEPT WHERE NOTED BY A SUFFIX.

PARTITION TAG INDICATORS LEGEND:



PARTITION HEIGHTS SUFFIXES:

- A - EXTEND GYPSUM WALLBOARD OR CONCRETE BLOCK 6" ABOVE CEILING
- B - EXTEND PARTITION TO UNDERSIDE OF CEILING
- C - LOW PARTITION, REFER TO INTERIOR ELEVATIONS, FLOOR PLANS OR SECTIONS FOR HEIGHTS

- MOISTURE RESISTANT GYPSUM WALLBOARD TO BE USED BEHIND ALL SHOWERS, BATHS, TUBS, WASHROOMS AND BEHIND ALL SINKS, FOR FULL HEIGHT OF PARTITION
- MOISTURE RESISTANT GYPSUM WALLBOARD TO BE USED ON CEILINGS IN SHOWER AREAS
- USE FIRE RATED MOISTURE RESISTANT GYPSUM WALLBOARD IN AREAS REQUIRING A FIRE RATING AND MOISTURE RESISTANT GYPSUM WALLBOARD
- MOISTURE RESISTANT TILE BACKER BOARD TO BE USED IN WALL TILE APPLICATIONS
- ASSEMBLIES WITH STC RATINGS OF 50 OR MORE REQUIRE ACOUSTICAL SEALANT APPLIED AROUND ELECTRICAL BOXES AND OTHER OPENINGS, AND AT THE JUNCTION OF INTERSECTING WALLS AND FLOORS, EXCEPT INTERSECTION OF WALLS CONSTRUCTED OF CONCRETE OR SOLID BRICK.
- PROVIDE GALV. METAL BACK PLATES FOR ALL SURFACE-MOUNTED EQUIPMENT, ACCESSORIES AND FIXTURES. ALSO REFER TO MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR LOCATION OF EQUIPMENT.

FIRE SEPARATION NOTES

- ALL METAL STUD AND GYPSUM BOARD WALLS TAGGED ON FLOOR PLAN, SECTION AND DETAIL DRAWINGS, SHALL BE CONSTRUCTED AS OUTLINED IN THE OBC VOLUME 2 SUPPLEMENTARY STANDARD SB-2 OR TO APPROVED ULC DESIGNS.
- REFER TO FLOOR PLAN DRAWINGS FOR LOCATION OF WALL AND CEILING ASSEMBLIES.
- REFER TO DOOR SCHEDULE FOR REQUIRED FRR OF CLOSURES.
- SEE DETAILS ON DRAWINGS FOR VARYING CONDITIONS.
- USE FIRE RATED CAULKING SIMILAR TO ULC TEST HW15 AROUND PERIMETER OF WALLS, PROTECTED OPENINGS, AND ALL PENETRATIONS. (NOTE: FIRE SEPARATIONS NOTED AS NO RATING, REQUIRE SEALANT BUT WITHOUT HAVING A FIRE RESISTANT RATING)
- ALSO SEE THE FIRE STOP SECTION IN SPECIFICATIONS.
- ALL PARTITIONS AND WALLS SHALL BE SEALED BETWEEN ADJACENT ROOMS AT THE UNDERSIDE OF STRUCTURE ABOVE c/w FLUTE CLOSURES U.N.O. PER OBC SB-2, 2.1 AND 2.3.
- CONSTRUCT FIRE SEPARATIONS SEALED WITH AND INSTALLED TO THE NOTED ULC APPROVED METHODS.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR CONTINUITY OF FIRE SEPARATIONS IN THOSE DISCIPLINES.

CEILING TYPES

CEILING NO.		MATERIALS
CTA		SUSPENDED ACOUSTIC CEILING TILE 610mmx1220mm CEILING TILE TO MATCH EXISTING



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

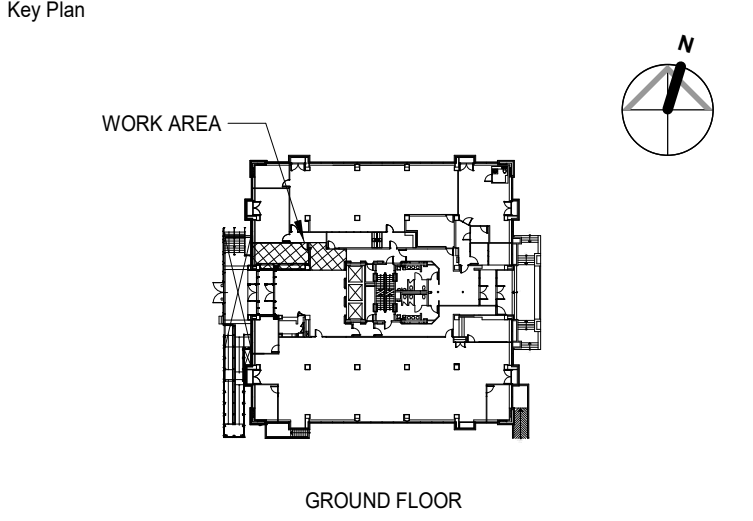
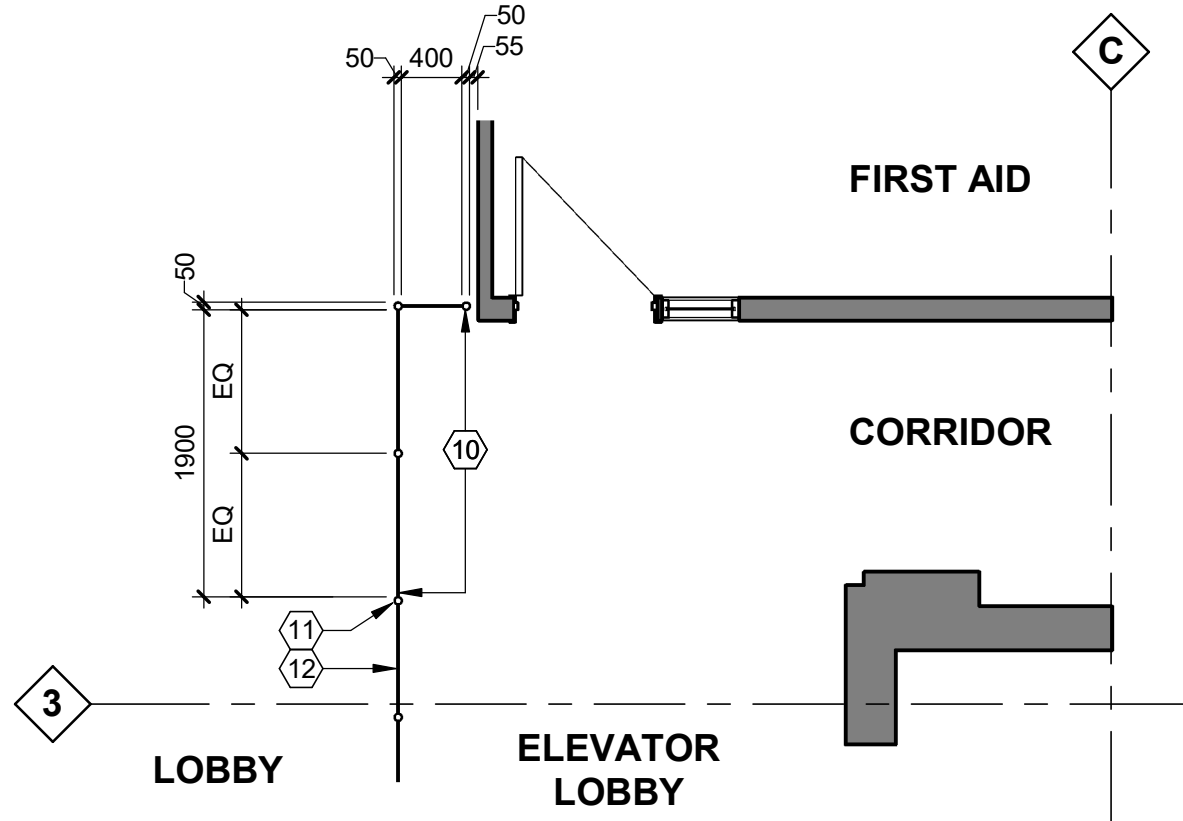
DRAWING

SCHEDULES

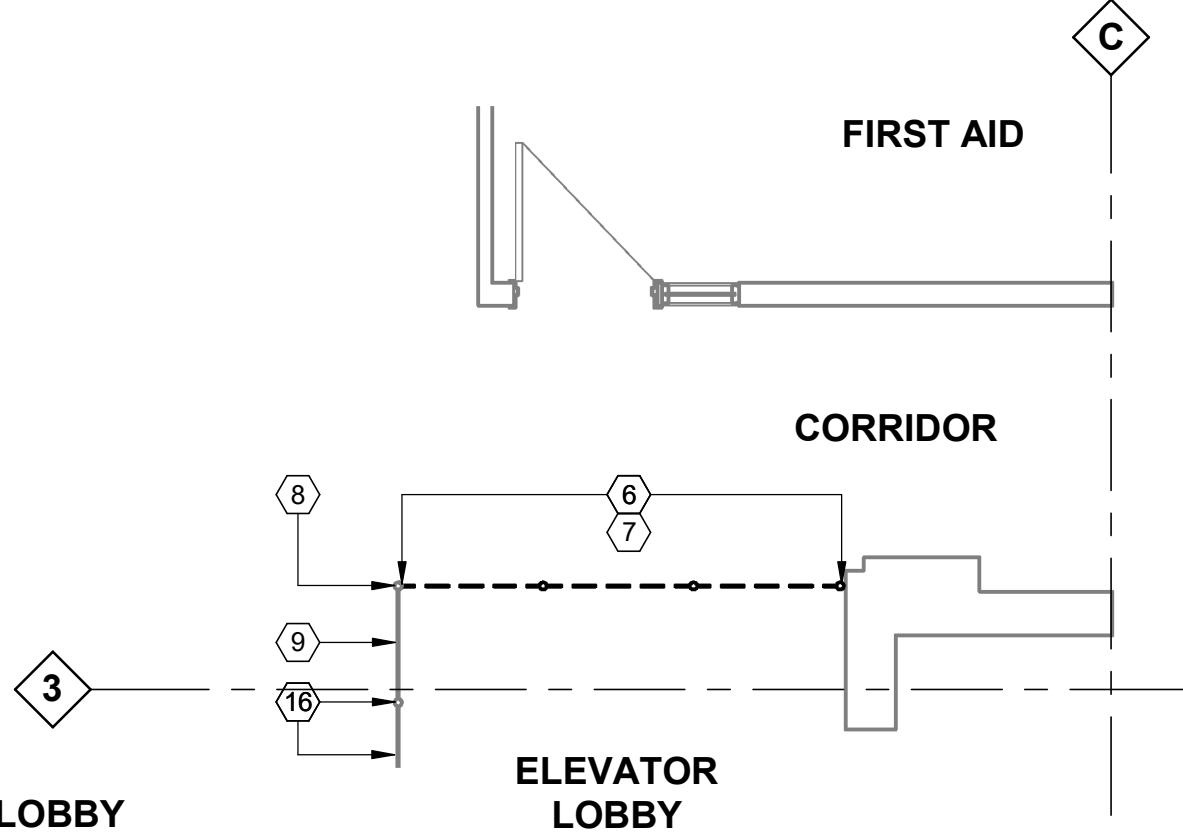
DRAWN AH	DATE 2023-10-12	SCALE As indicated
DRAWN AH	PROJECT NO. 230231500	
CHECKED PK	DRAWING NO.	VERSION 5
APPROVED PK	A-002	

KEYNOTE LEGEND	
ITEM	DESCRIPTION
1	DEMOLISH PARTITION FULL HEIGHT
2	DEMOLISH DOOR AND FRAME
3	DEMOLISH PORTION OF EXISTING WALL TO MAKE OPENING FOR NEW DOOR
4	PATCH, REPAIR AND PAINT WALL TO MATCH ADJACENT SURFACE
5	REMOVE PORTION OF EXISTING CARPET FLOORING AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISH
6	DEMOLISH PORTION OF SECURITY GLAZING
7	PATCH AND REPAIR SCREW HOLES IN EXISTING CONCRETE FLOOR AND VINYL COMPOSITE TILES TO MATCH ADJACENT SURFACE
8	REMOVE EXISTING STAINLESS STEEL CORNER POST
9	CAREFULLY REMOVE AND PRESERVE SECURITY GLASS PANEL TO BE REINSTALLED
10	NEW SECURITY GLAZING COMPLETE WITH GLASS PANELS AND STAINLESS STEEL POSTS TO MATCH EXISTING
11	SUPPLY AND INSTALL NEW STAINLESS STEEL POST WITH GLAZING BRACKETS IN THE SAME PLACE OF EXISTING POST TO SUIT NEW GLAZING LAYOUT
12	REINSTALL EXISTING GLASS PANEL IN THE SAME PLACE
13	EXTEND NEW FLOOR FINISH TO MEET EXISTING. MATCH NEW FLOOR FINISH PATTERN WITH EXISTING
14	INSTALL EXISTING STONE WALL BASE INTO NEW DOORWAY
15	EXISTING CARPET FLOORING TO REMAIN
16	EXISTING SECURITY GLASS PANELS AND POSTS TO REMAIN
17	PATCH AND REPAIR EXISTING FLOOR SUBSTRATE AT NEW OPENING AND MAKE GOOD SURFACE TO RECEIVE NEW FLOOR FINISH
18	REMOVE PORTION OF EXISTING STONE WALL BASE AND PRESERVE FOR REINSTALLTION IN NEW DOORWAY
19	CENTRE NEW DOOR TO WALL OPENING
20	REFER TO ELECTRICAL DRAWINGS FOR RELOCATION OF EXISTING WALL-MOUNTED FIXTURES AT NEW WALL OPENING
21	RELOCATE EXISTING FIRE ALARM MONITORING PANLE AND KEYPAD. REMOVE ASSOCIATED CONDUITS. REFERE TO FIRE ALARM DRAWINGS
22	PAINT NEW PARTITION ON BUILDING OPERATIONS OFFICE SIDE TO MATCH EXISTING WALL PAINT COLOUR

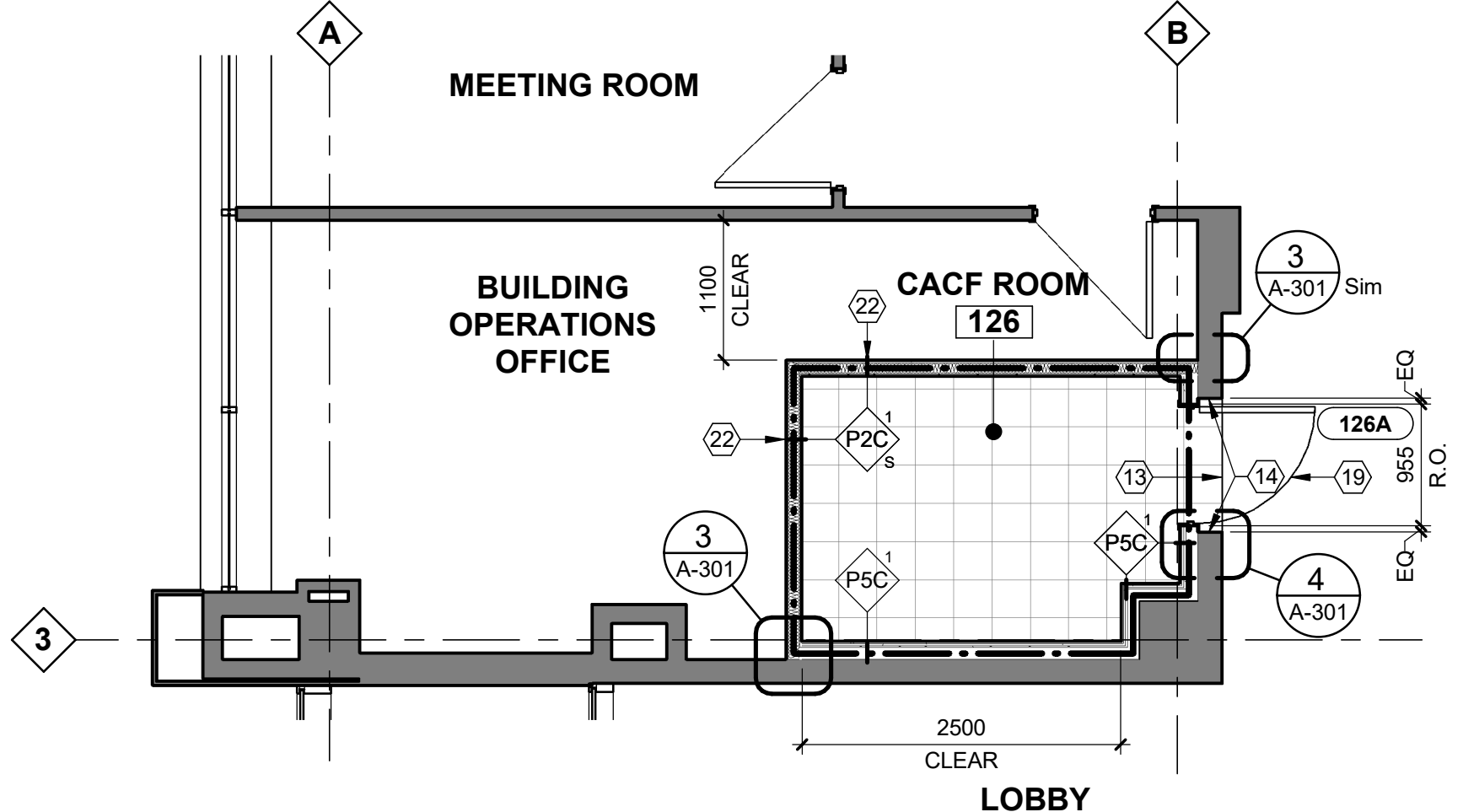
5 GROUND FLOOR PARTIAL PLAN - SECURITY GLAZING
A-201 1 : 50



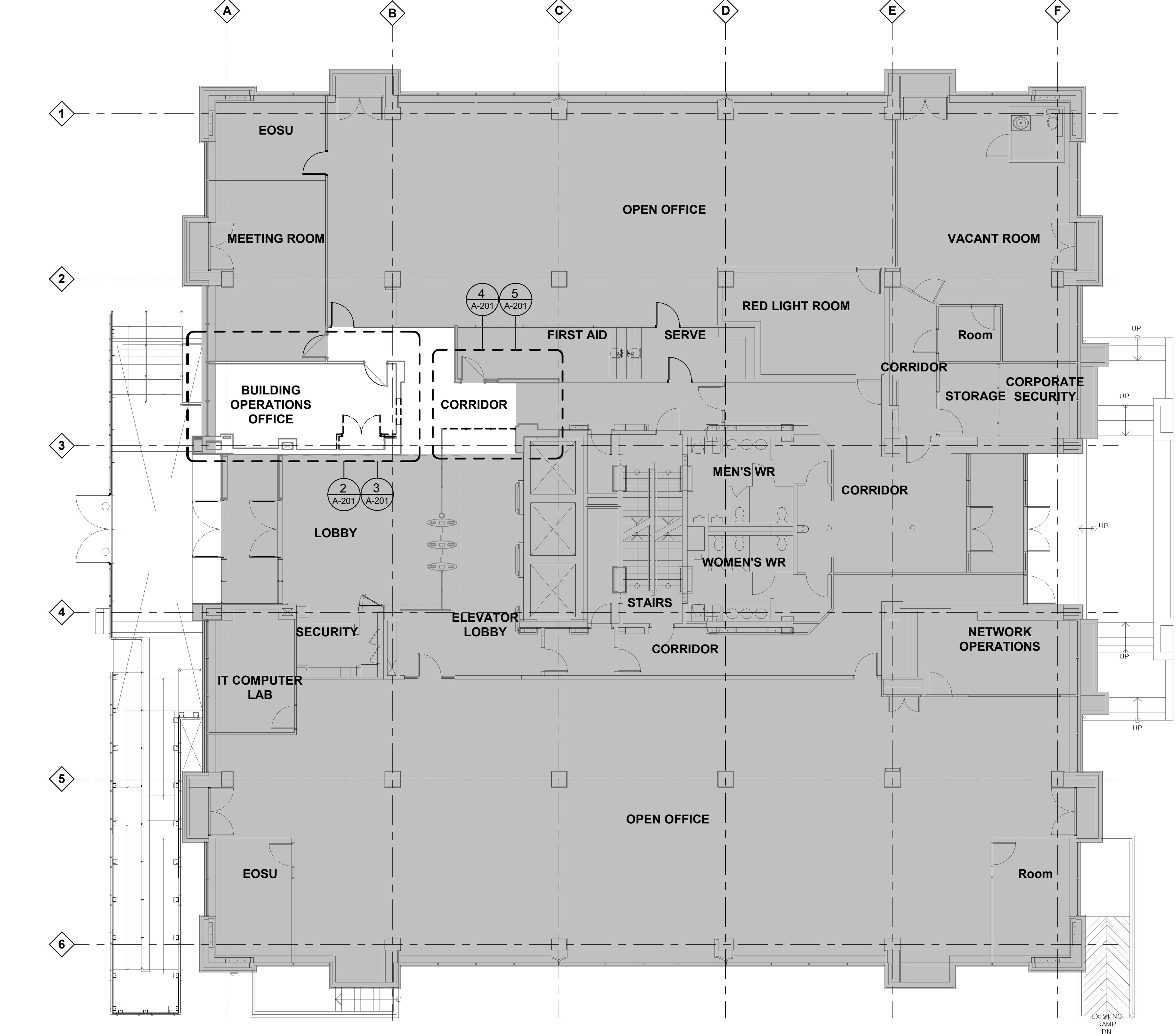
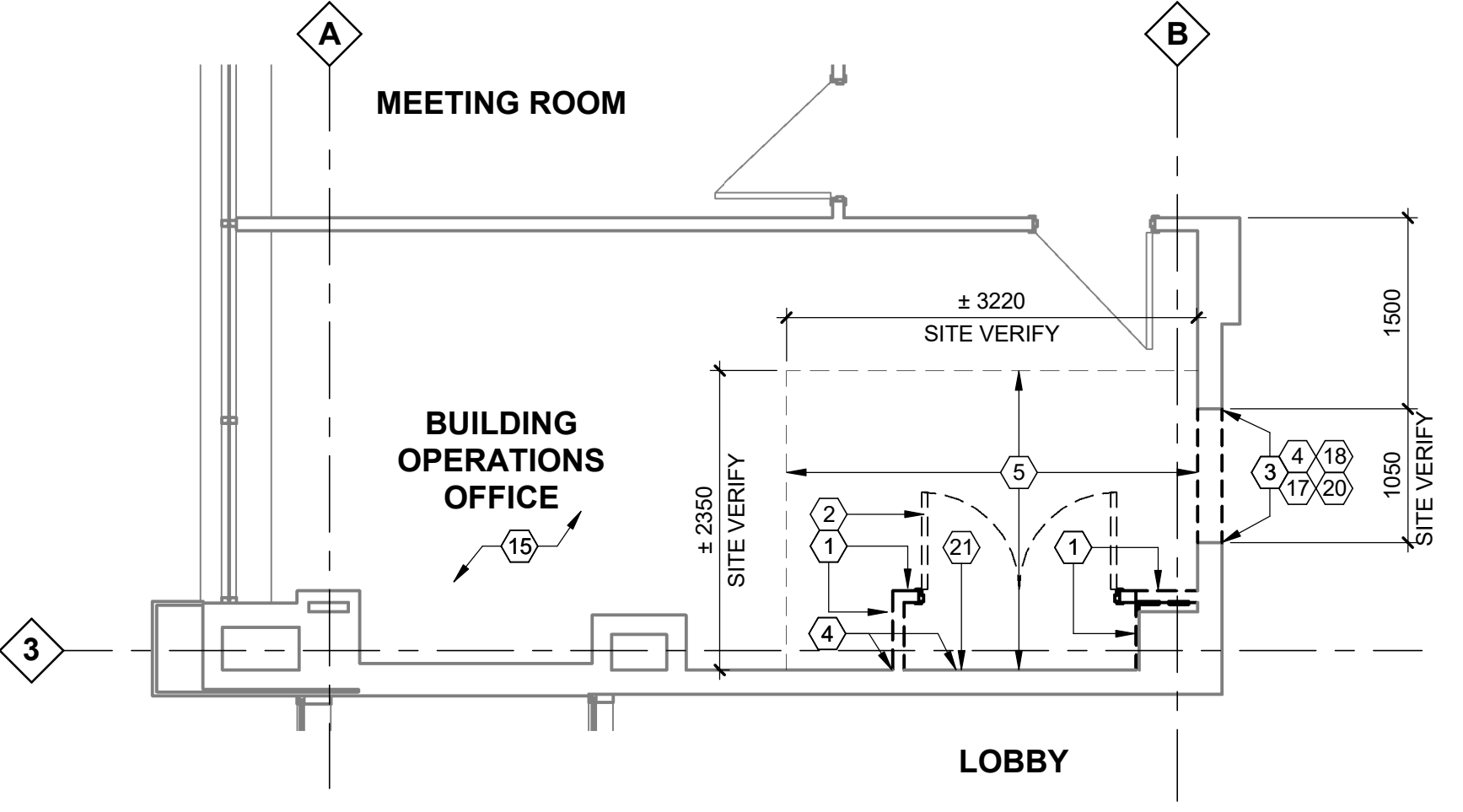
4 GROUND FLOOR PARTIAL DEMOLITION PLAN - SECURITY GLAZING
A-201 1 : 50



3 GROUND FLOOR PARTIAL PLAN - CACF ROOM
A-201 1 : 50



2 GROUND FLOOR PARTIAL DEMOLITION PLAN - BLDG OPS OFFICE
A-201 1 : 50



1 GROUND FLOOR PLAN - EXISTING
A-201 1 : 100

SHADED AREA IS NOT IN SCOPE

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-06	ISSUED FOR PERMIT
3	2024-05-03	ISSUED FOR 100% DESIGN REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSFIELD.

PROFESSIONAL SEALS



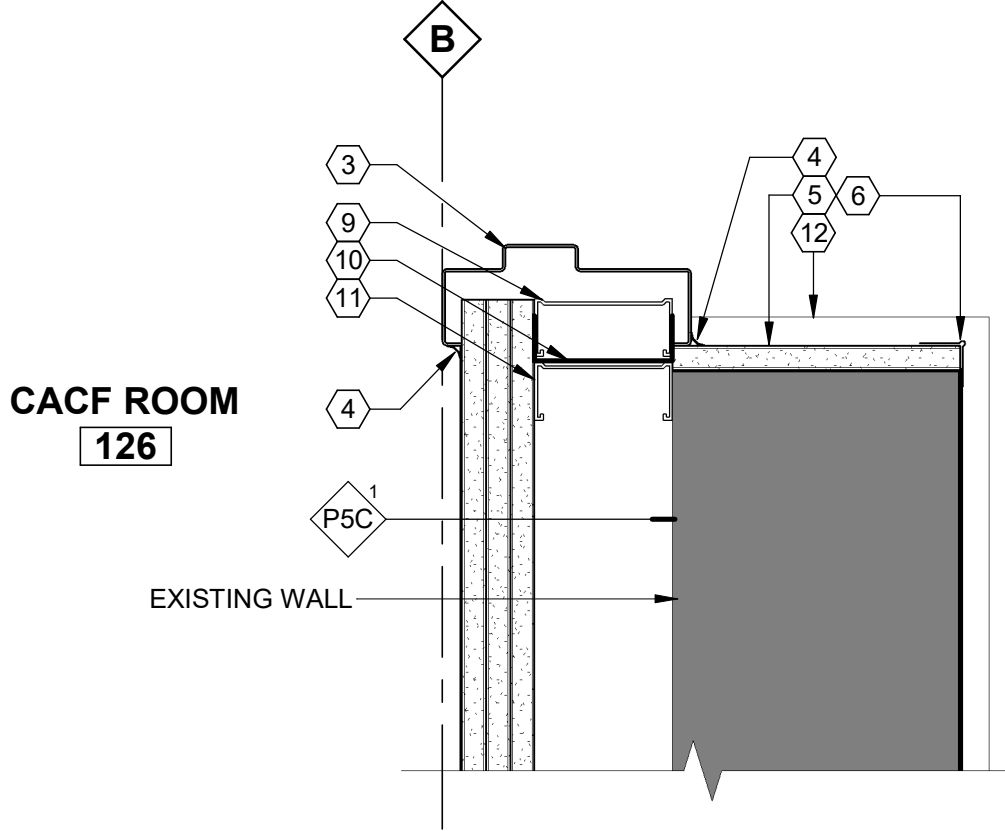
Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

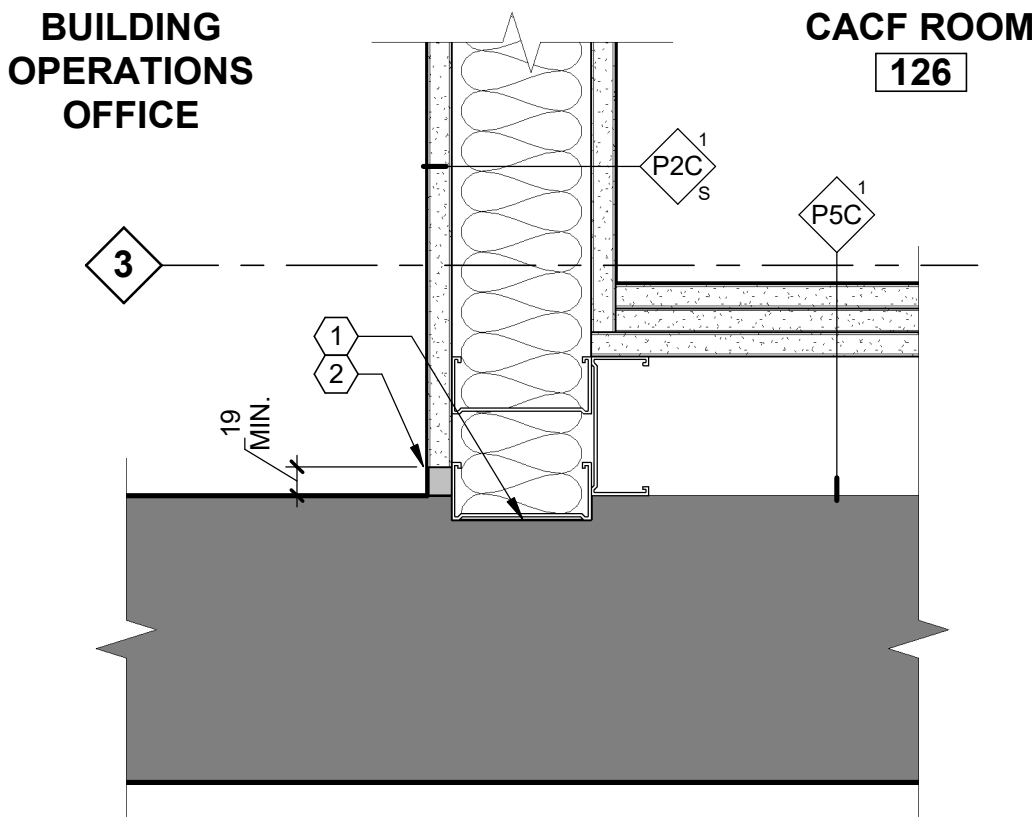
DRAWING
FLOOR PLANS

DRAWN AH	DATE 2023-10-12	SCALE As indicated
DRAWN AH	PROJECT NO. 230231500	VERSION 5
CHECKED PK	DRAWING NO. A-201	
APPROVED PK		

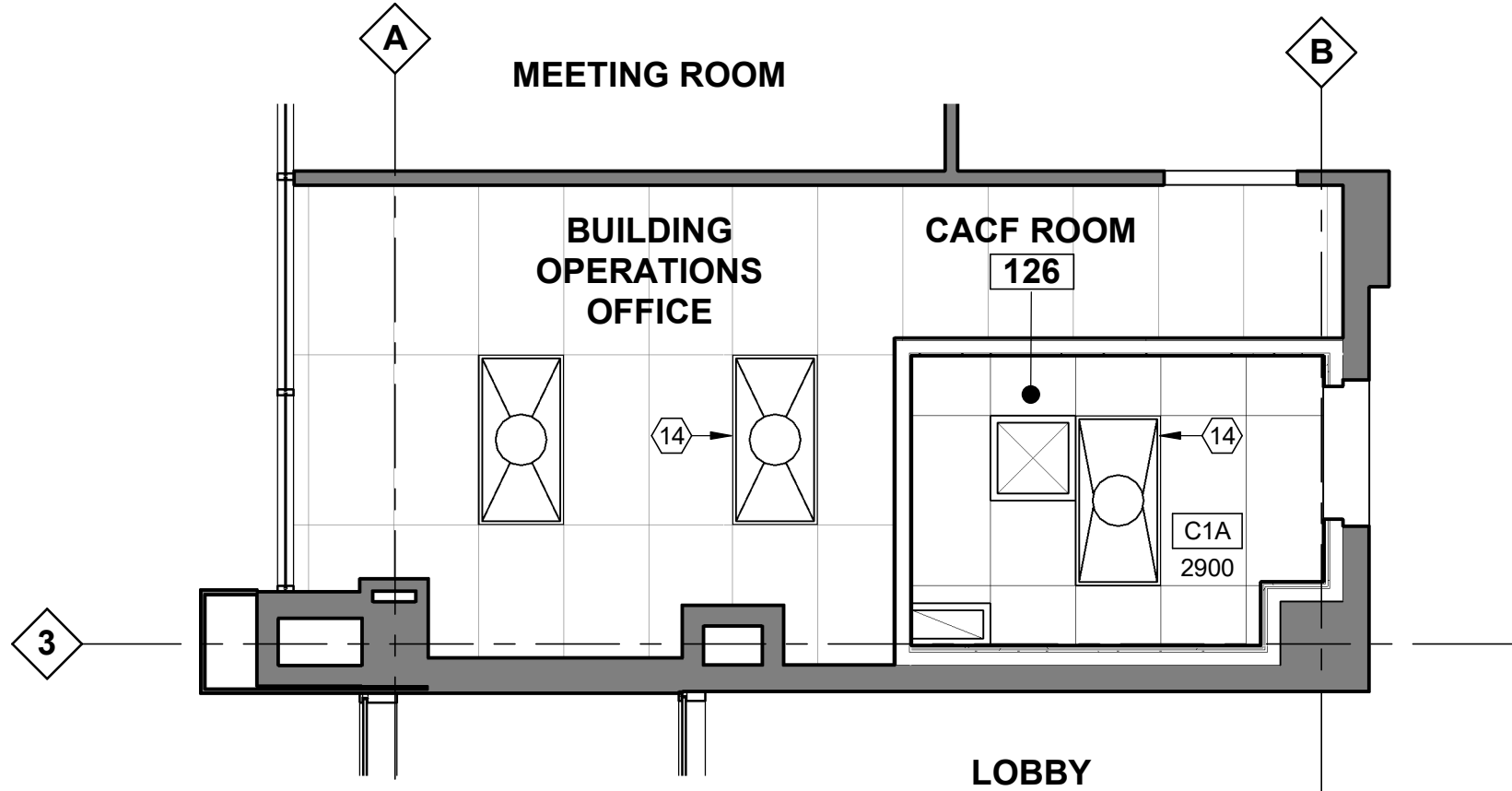
KEYNOTE LEGEND	
ITEM	DESCRIPTION
1	CUT PORTION OF EXISTING GYPSUM BOARD AND EXPOSE WALL STRUCTURE TO FACILITATE CONNECTION OF NEW METAL STUD TO EXISTING FRAMING
2	FIRE STOPPING SEALANT FULL HEIGHT
3	NEW FIRE-RATED HOLLOW METAL DOOR FRAME. REFER TO DOOR AND HARDWARE SCHEDULE
4	CONTINUOUS SEALANT, BOTH SIDES
5	RETURN 16 mm GYPSUM BOARD INTO JAMB AND HEAD OF NEW WALL OPENING AND MECHANICALLY FASTEN TO EXISTING SUBSTRATE. PAINT GB TO MATCH CORRIDOR WALL COLOUR
6	GYPSUM BOARD METAL CORNER BEAD AROUND OPENING
7	DEMOLISH PORTION OF EXISTING SUSPENDED ACOUSTIC CEILING
8	EXISTING SUSPENDED ACOUSTIC CEILING TO REMIAN. MODIFY AND ADJUST CEILING GRIDS AND TILES TO SUIT NEW PARTIOTN LAYOUT (REFER TO FLOOR PLAN). ALSO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS
9	DOOR JAMB METAL STUD
10	METAL TRACK (REINFORCING)
11	ADDITIONAL METAL STUD AS REQUIRED
12	REINSTALL EXISTING STONE WALL BASE INTO DOOR JAMB
13	REMOVE AND SALVAGE EXISTING LIGHTING FIXTURE TO BE REINSTALLED. REFER TO ELECTRICAL DRAWINGS
14	REINSTALLED EXISTING LIGHTING FIXTURE. REFER TO ELECTRICAL DRAWINGS



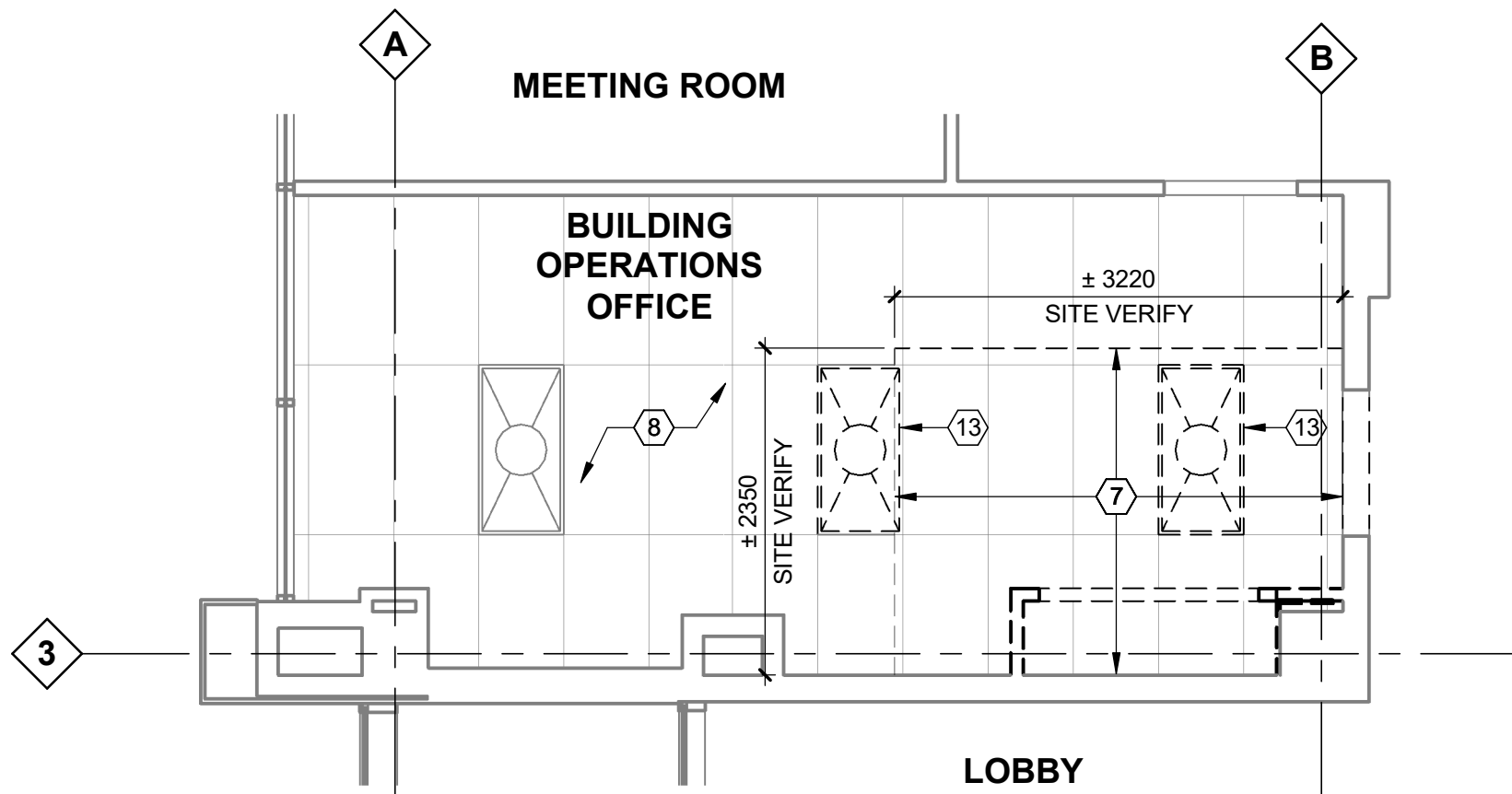
4 TYP. PLAN DETAIL - FIRE RATED DOOR JAMB/HEAD
1 : 5



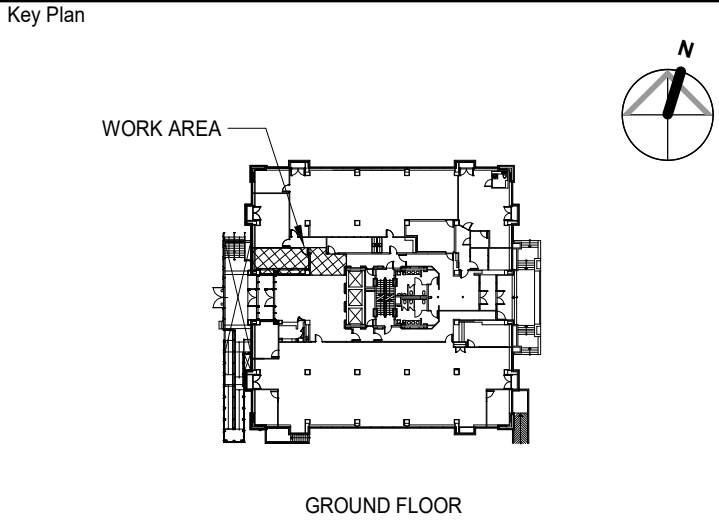
3 TYP. PLAN DETAIL - FIRE RATED PARTION JOINT
1 : 5



2 REFLECTED CEILING PLAN - CACF ROOM
1 : 50



1 REFLECTED CEILING PLAN - DEMOLITION
1 : 50



5	2024-08-12	ISSUED FOR TENDER
4	2024-08-06	ISSUED FOR PERMIT
3	2024-05-03	ISSUED FOR 100% DESIGN REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
YYYY-MM-DD		SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



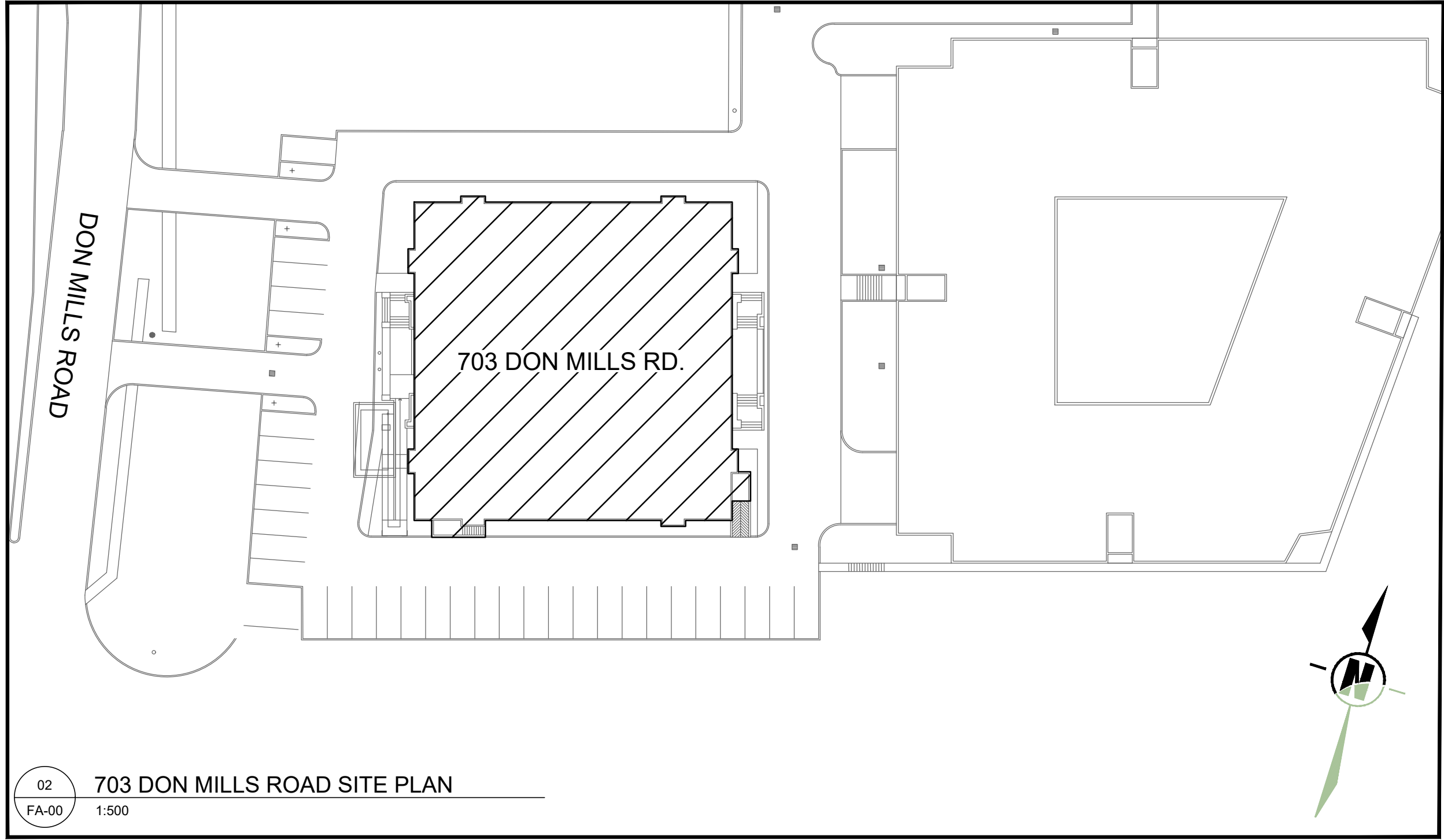
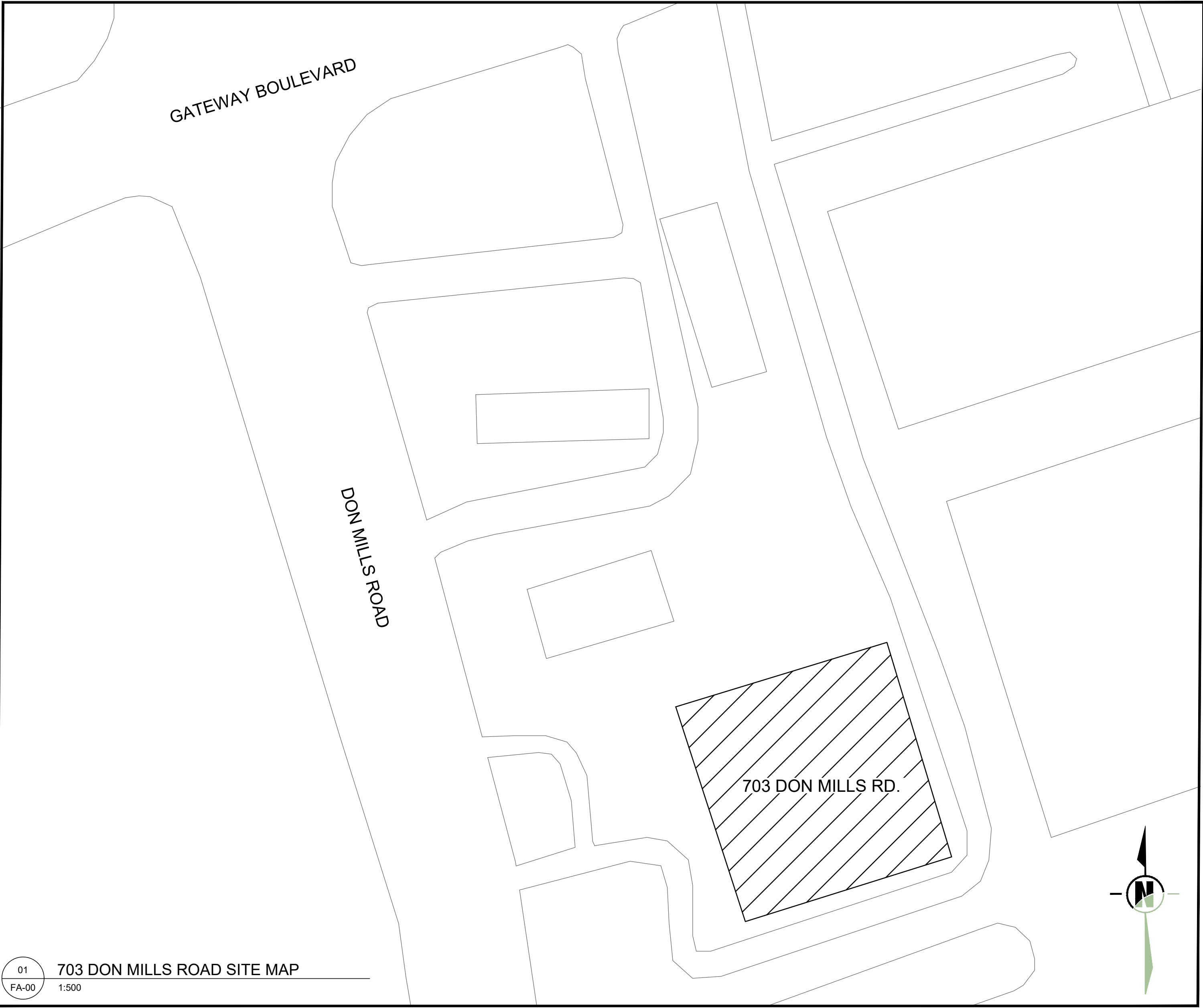
Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
REFLECTED CEILING PLANS & DETAILS

DRAWN AH	DATE 2023-10-12	SCALE
DRAWN AH	PROJECT NO. 230231500	As indicated
CHECKED PK	DRAWING NO. A-301	VERSION 5
APPROVED PK		

Sheet List Table	
Sheet Number	Sheet Title
FA-00	FIRE ALARM LEGEND & DRAWING LIST
G-01	FIRE ALARM RISER DIAGRAM & DEMOLITION DETAILS
G-02	FIRE ALARM DETAILS
FA-0.1	BASEMENT NEW FIRE ALARM INSTALLATION
FA-01	GROUND FLOOR NEW FIRE ALARM INSTALLATION
FA-02	SECOND FLOOR NEW FIRE ALARM INSTALLATION
FA-03	THIRD FLOOR NEW FIRE ALARM INSTALLATION
FA-04	FOURTH FLOOR NEW FIRE ALARM INSTALLATION
FA-05	FIFTH FLOOR NEW FIRE ALARM INSTALLATION
FA-06	SIXTH FLOOR NEW FIRE ALARM INSTALLATION
FA-07	SEVENTH FLOOR NEW FIRE ALARM INSTALLATION
FA-08	EIGHTH FLOOR NEW FIRE ALARM INSTALLATION
FA-09	NINTH FLOOR NEW FIRE ALARM INSTALLATION
FA-10	MECHANICAL PENTHOUSE NEW FIRE ALARM INSTALLATION
D-0.1	BASEMENT FIRE ALARM DEMOLITION
D-01	GROUND FLOOR FIRE ALARM DEMOLITION
D-02	SECOND FLOOR FIRE ALARM DEMOLITION
D-03	THIRD FLOOR FIRE ALARM DEMOLITION
D-04	FOURTH FLOOR FIRE ALARM DEMOLITION
D-05	FIFTH FLOOR FIRE ALARM DEMOLITION
D-06	SIXTH FLOOR FIRE ALARM DEMOLITION
D-07	SEVENTH FLOOR FIRE ALARM DEMOLITION
D-08	EIGHTH FLOOR FIRE ALARM DEMOLITION
D-09	NINTH FLOOR FIRE ALARM DEMOLITION
D-10	MECHANICAL PENTHOUSE FIRE ALARM DEMOLITION



LEGEND	
SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/ TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



MORRISON HERSHFIELD now **Stantec**
Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

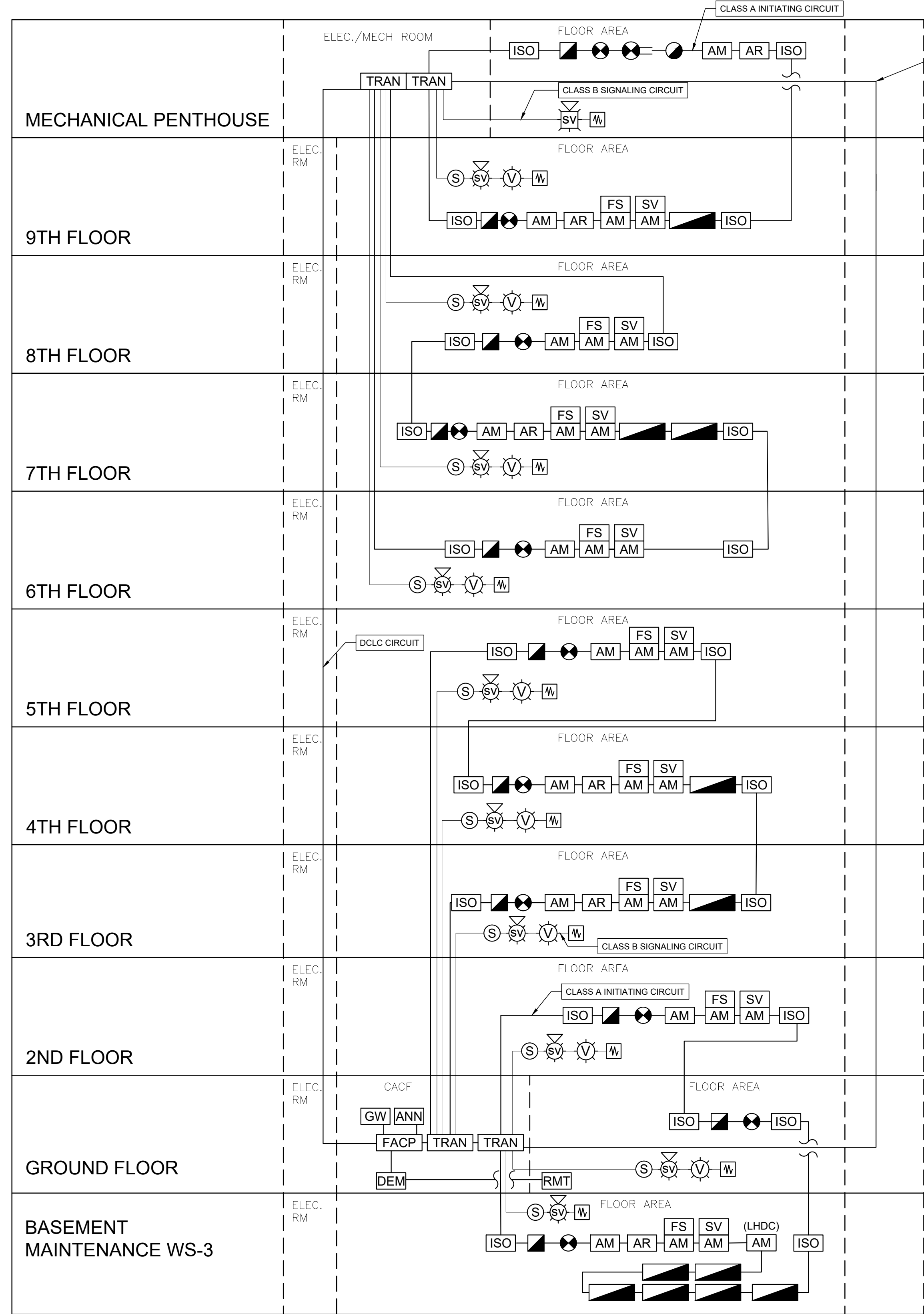
PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FIRE ALARM LEGEND & DRAWING LIST

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-00	----

RISER NOTES

1. PROVIDE AND INSTALL LINK CABLE WITH MINIMUM 1 HOUR FIRE RESISTANCE RATING FOR DCLC NETWORK INCLUDING NETWORK DATA COMMUNICATION LOOP, AUDIO BUS, PAGING BUS, & SIGNALING SYNC BUSES. EXACT ROUTE TO BE DETERMINED ON SITE. REFER TO MANUFACTURER'S REQUIREMENTS FOR EXACT NUMBER AND SIZE OF CABLES. KEEP SPACE SEPARATION AS PER CANULC-S524 REQUIREMENTS.
2. -3 PAIR #18 TWISTED/SHIELDED (DATA AND AUDIO RISERS)
3. PROVIDE AND INSTALL NEW FIRE ALARM ADDRESSABLE DCL DEVICES INCLUDING WIRE, BACKBOX, RACEWAY IN CLASS A FORMAT. PROVIDE AND INSTALL FIELD ISOLATOR MODULES AS PER CANULC-S524 AND MANUFACTURER'S REQUIREMENTS.
4. PROVIDE AND INSTALL NEW FIRE ALARM NOTIFICATION DEVICES DEVICES, INCLUDING WIRE, BACKBOX, RACEWAY IN CLASS B FORMAT. AMPLIFIERS TO BE SIZED BASED ON A 2 WATT SPEAKER SETTING, SPEAKERS TO BE INSTALLED AT 0.5 WATT SETTING, FIRE ALARM CONTRACTOR TO VERIFY THE EXACT NUMBER OF CIRCUITS, AND CIRCUIT LOADING, AND LOCATION OF END-OF-LINE RESISTORS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND CANULC-S524.
5. TRANSPONDER DISTRIBUTION AND LOADING MAY VARY DEPENDING ON MANUFACTURER REQUIREMENTS. ENSURE INPUT-OUTPUT CORRELATION IS MAINTAINED. ALL TRANSPONDERS SHALL BE PROVIDED WITH STANDALONE AND DEGRADED MODE OPERATION IN ACCORDANCE WITH CANULC-S524.
6. PROVIDE AND INSTALL NEW GRAPHIC WORKSTATION IN THE CACF. NEW CACF TO HOUSE ONE-WAY VOICE COMMUNICATION SYSTEM, ELEVATOR CONTROLS, ELEVATOR FIRE PHONE, AND ELECTROMAGNETIC LOCK RELEASE KEY-SWITCH.
7. PROVIDE AND INSTALL NEW DEMARCATION BOX IN ACCORDANCE WITH CANULC-S524
8. ALL EXISTING FIRE PHONES TO BE PERMANENTLY REMOVED IN ACCORDANCE WITH ALTERNATIVE SOLUTION SUBMITTED WITH THIS PERMIT APPLICATION. DISTRIBUTED ANTENNA (DAS) WILL BE INSTALLED IN LIEU BY THE DAS CONTRACTOR. REFER TO THE DAS DRAWINGS AND SPECIFICATIONS FOR ASSOCIATED SCOPE OF WORK.



SPECIAL SUPPRESSION SYSTEMS

1. PROVIDE AND INSTALL ADDRESSABLE MONITORING MODULES AND RELAYS TO INTERFACE WITH THE SPECIAL SUPPRESSION AND PRE-ACTION SYSTEMS IDENTIFIED BELOW.
- 1.1. BASEMENT TELECOM ROOM 34 / 35 FM-200 SYSTEM.
- 1.2. BASEMENT TELECOM ROOM 34 / 35 PRE-ACTION SPRINKLER.
- 1.3. BASEMENT TELECOM ROOM 33 FM-200 SYSTEM.
- 1.4. BASEMENT TELECOM ROOM 33 PRE-ACTION SPRINKLER.
- 1.5. BASEMENT TELEPHONE ROOM 21 FM-200 SYSTEM.
- 1.6. BASEMENT TELEPHONE ROOM PRE-ACTION SPRINKLER.
- 1.7. 3RD FLOOR DATA HALL FM-200 SYSTEM.
- 1.8. 4TH FLOOR COMPUTER ROOM FM-200 SYSTEM.
- 1.9. 7TH FLOOR TPS COMPUTER ROOM FM-200 SYSTEM.
- 1.10. 7TH FLOOR FM-200 SYSTEM 2.
- 1.11. 9TH FLOOR COMPUTER ROOM FM-200 SYSTEM.
2. EACH SYSTEM SHALL BE MONITORED FOR TROUBLE, ALARM, AND SUPERVISORY CONDITIONS. PROVIDE SUFFICIENT ADDRESSABLE MODULES FOR THIS PURPOSE. THE DETECTION FOR THE SPECIAL SYSTEMS RESIDE ON THE BASE BUILDING FIRE ALARM SYSTEM. THOSE DEVICES ARE TO BE REPLACED AS PART OF THIS PROJECT.
4. EXISTING SPECIAL SUPPRESSION / PRE-ACTION SYSTEM NOTIFICATION DEVICES ARE TO REMAIN. THE BASE BUILDING NOTIFICATION SYSTEM IS TO TAKE PRECEDENCE DURING A FIRE EVENT OR PAGING. PROVIDE AND INSTALL RELAYS TO OVERRIDE THE SPECIAL SUPPRESSION / PRE-ACTION SYSTEM NOTIFICATION DEVICES DURING SUCH AN EVENT.

EXISTING DEVICE FOR DEMOLITION		DEVICE	TOTAL
		ANNUNCIATOR	5
		BATTERY	9
		CONTROL PANEL	5
		DISCONNECT	8
		DUCT SMOKE DETECTOR	3
		END OF LINE	112
		FAULT ISOLATOR MODULE	17
		GENERATOR RUNNING	2
		GENERATOR TROUBLE	2
		HANDSET	1
		HEAT DETECTOR	4
		HORN	18
		INITIATING DEVICE	93
		MONITORING	1
		PHONE STATION	24
		PROGRAMMABLE RELAY	25
		MANUAL PULL STATION	70
		SPEAKER DETECTOR	146
		SPEAKER	263
		STROBE	28
		TOTAL	834

SYSTEM OUTPUTS		Base Building Fire Alarm Outputs																Special Suppression System Outputs				Pre-Action Sprinkler System Outputs			
Annunciation at Transponder/DCC/G raphic Workstation	Audible & Visual Indication by Device																								
1	Smoke Detector (Non P.A. Zone)																								
2	Spot Type Heat Detector or Linear Heat Detector																								
3	Manual Station																								
4	Water Flow Switch																								
5	Manual Station - Second Stage GA																								
6	Fire Alarm Not Acknowledged within Five (5) Minutes of Initial Alarm																								
7	Elevator Lobby Smoke Detector Ground Floor																								
8	Elevator Lobby Smoke Detector (Basement, 2nd Floor to 9th Floor)																								
9	Elevator Machine Room Detector																								
10	Elevator Top of Shaft Detector																								
11	Elevator PIT Detector																								
12	Low Pressure Switch																								
13	Supervised Valve Tamper Switch																								
14	Activation of any detector in Sprinkler Pre-Action Zone																								
15	Activation of 2 or more detectors Sprinkler Pre-Action Zone																								
16	Activation of 2 or more detectors in Pre-Action Zone and Pressure Switch for Associated Zone																								
17	Pre-Action System Supervised Valve Tamper Switch																								
18	Pre-Action System Common Trouble Condition																								
19	Activation of any detector in Clean Agent Zone																								
20	Activation of second detector in Clean Agent Zone																								
21	Clean Agent System Supervised Valve Tamper Switch																								
22	Clean Agent System Common Trouble Condition																								
23	Generator Running Condition																								
24	Generator Common Trouble Condition																								
25	Generator Low-Fuel Condition																								
26	Fire Pump Running																								
27	Fire Pump Loss of Primary Power																								
28	Fire Pump Loss of Phase																								
29	Fire Pump Phase Reversal																								
30	Initiating Device Circuit Open																								
31	Initiating Device Circuit Short																								
32	Initiating Device Circuit Ground																								
33	Signaling Device Circuit Open																								
34	Signaling Device Circuit Short																								
35	Signaling Device Circuit Ground																								
36	AC Power Failure																								
37	System Test Mode (Global Ancillary and Notification By-Pass)																								
38	Audible/Visual Signaling By-Pass																								
39	Elevator Recall By-Pass																								
40	Door Release By-Pass																								
41	Electromagnetic Lock Testing By-Pass																								
42	Smoke Control By-Pass																								
43	Supervised Component Failure																								

DEMOLITION NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED, SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

LEGEND

SYMBOL	DESCRIPTION
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HT	HEAT DETECTOR
SC	SPEAKER - CEILING MOUNTED
SW	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
HW	HORN - WALL MOUNTED
HS	HORN/STROBE - WALL MOUNTED
VS	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VS	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
GW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
EL	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSR	SPECIAL SUPPRESSION RELEASE PANEL
SSM	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/ TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JCP	JOCKEY PUMP
TE	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARCATION BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHTE	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
YYYY-MM-DD		SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS

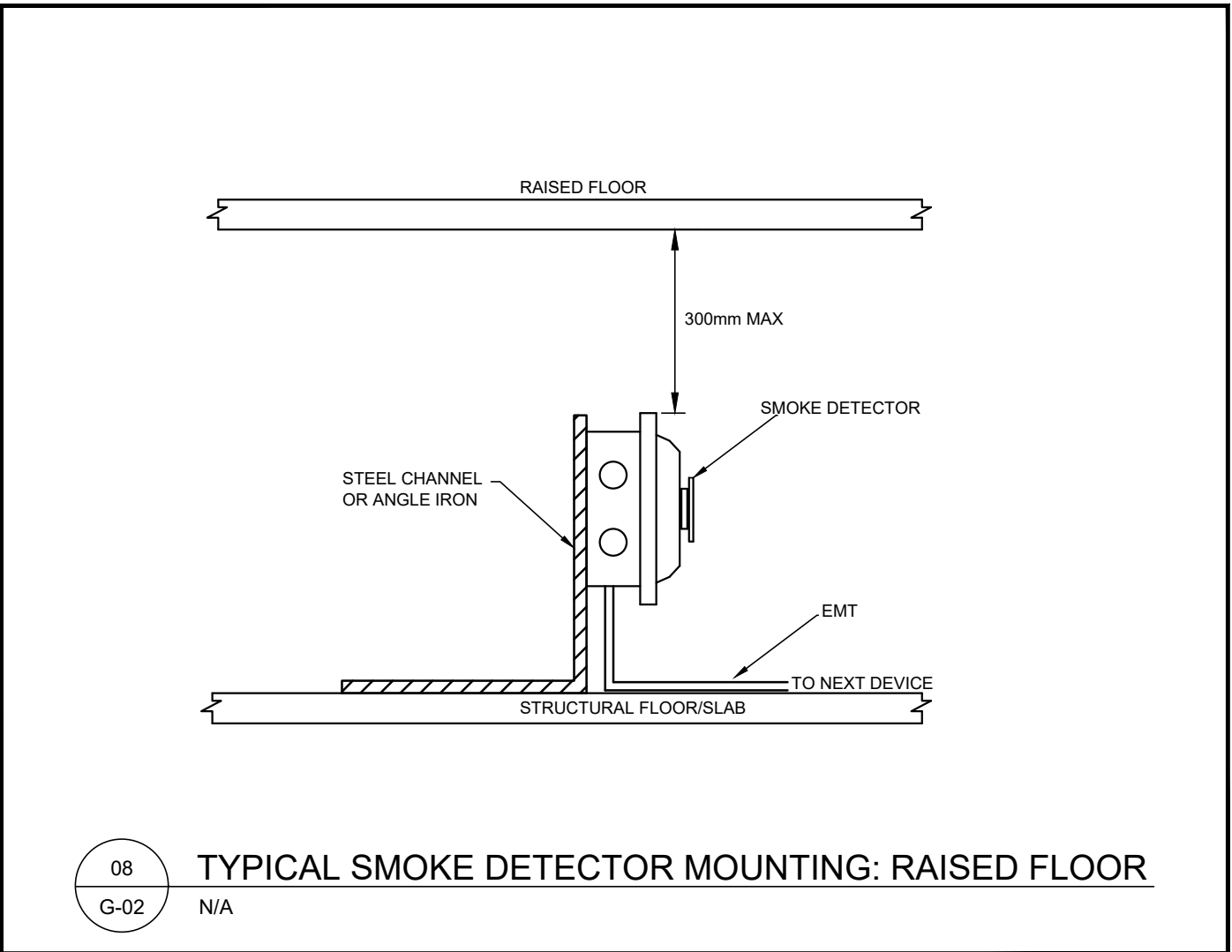
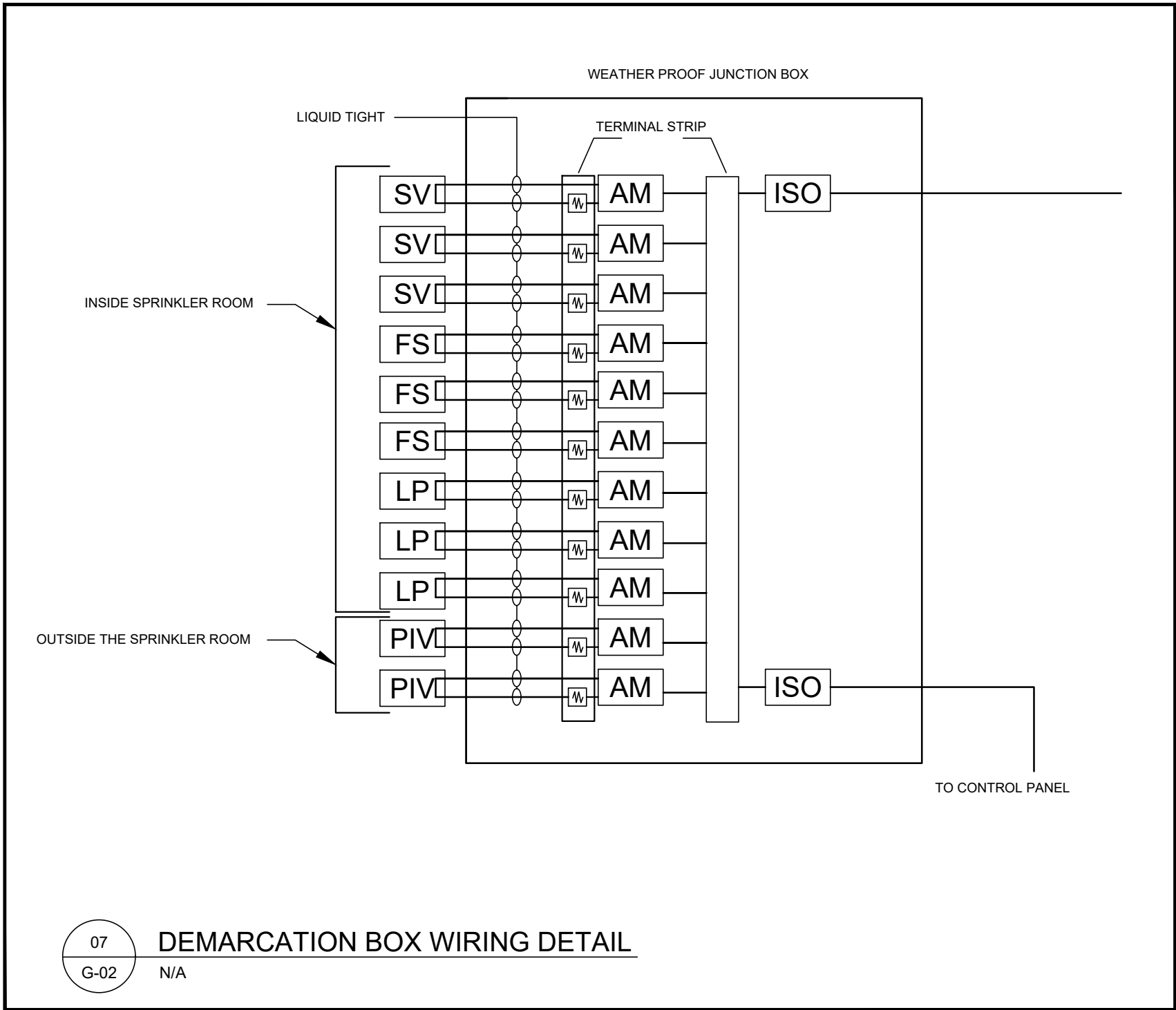
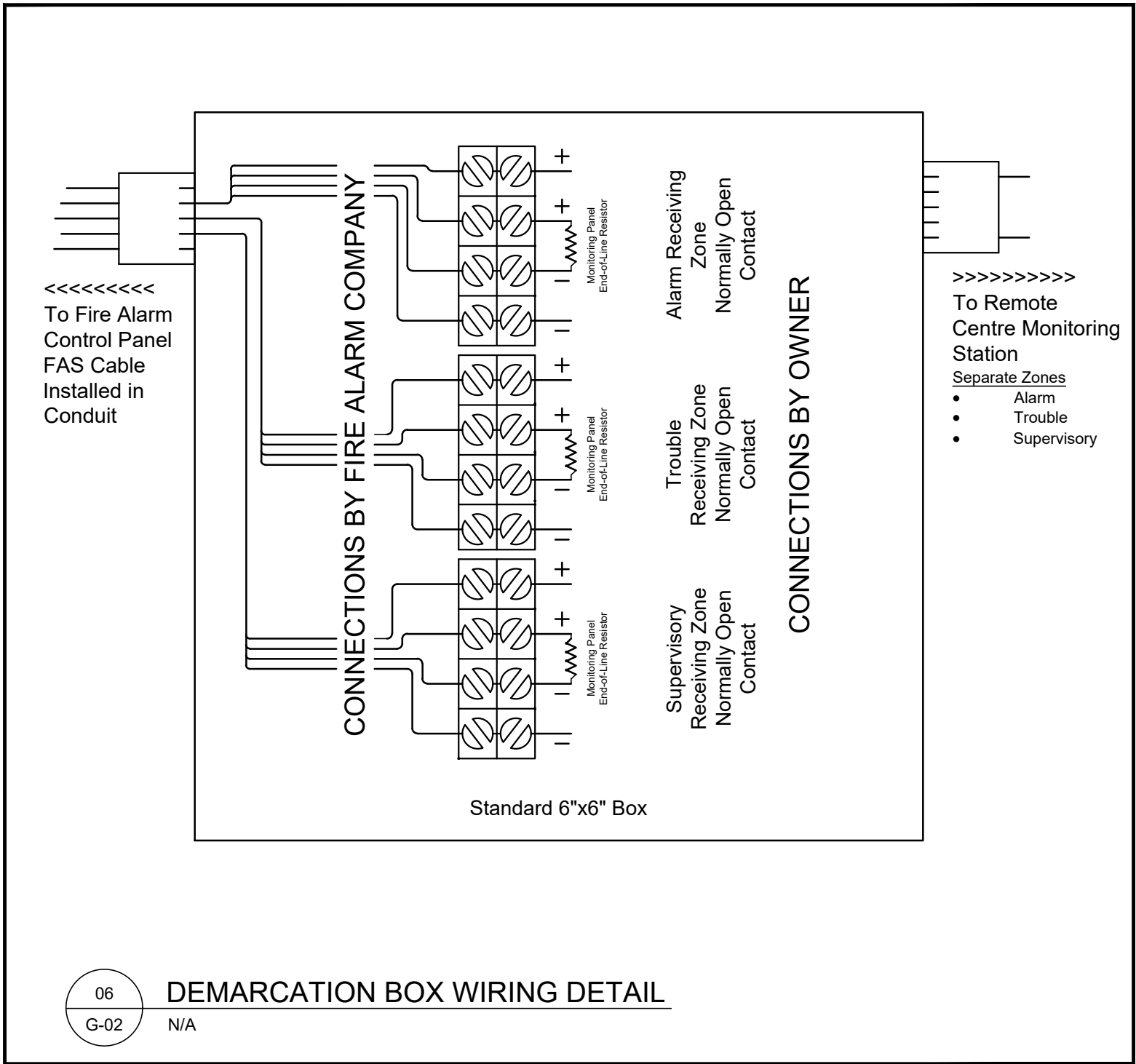
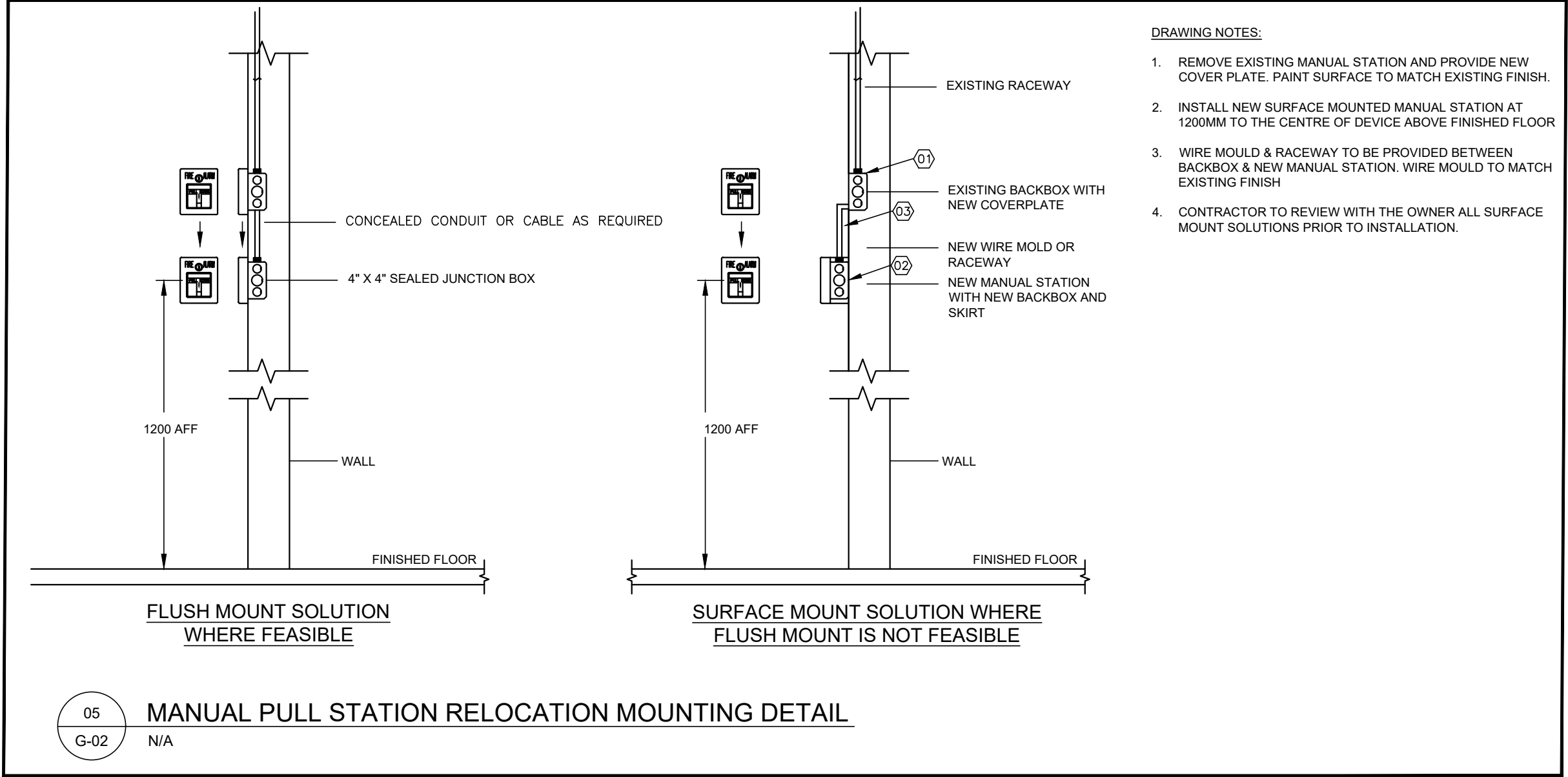
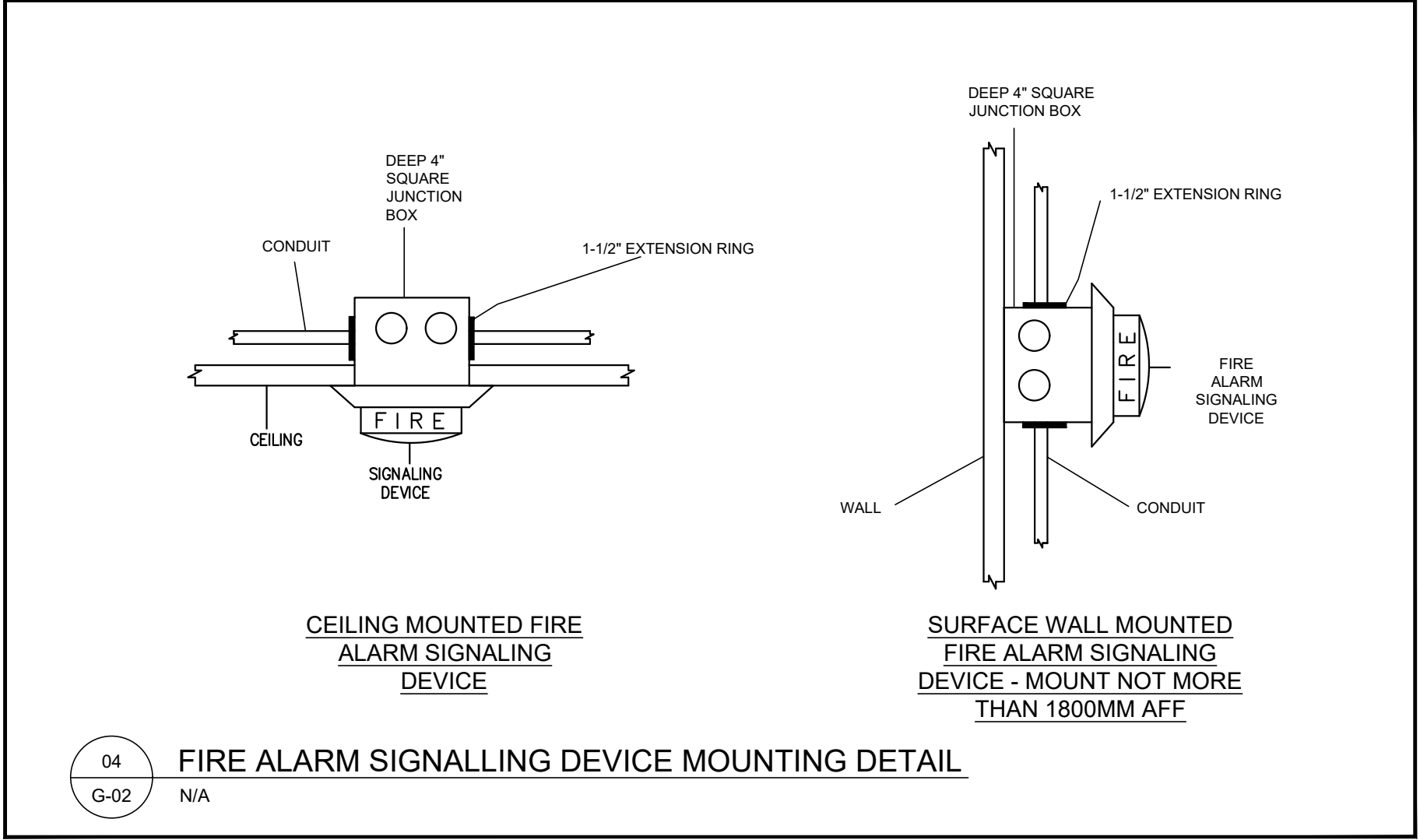
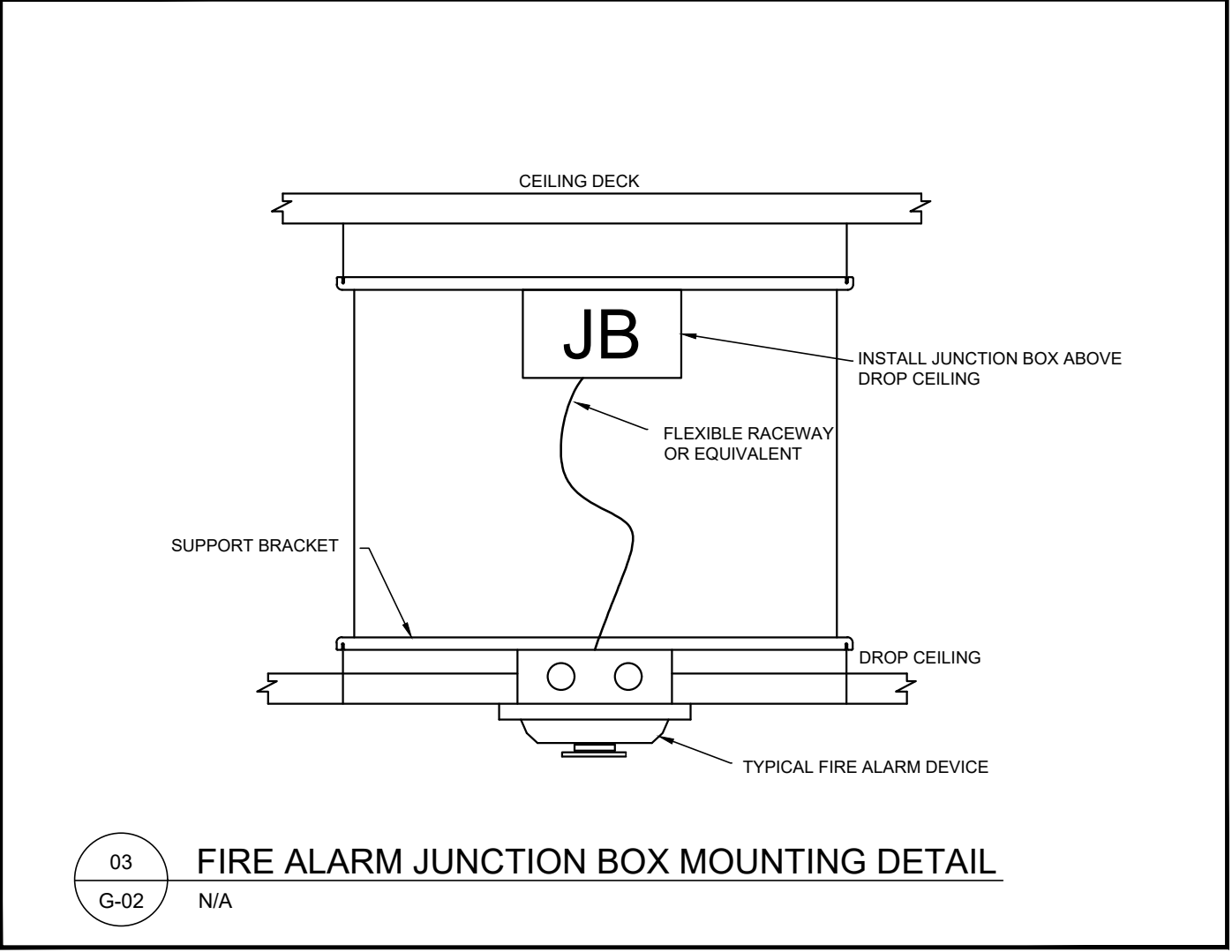
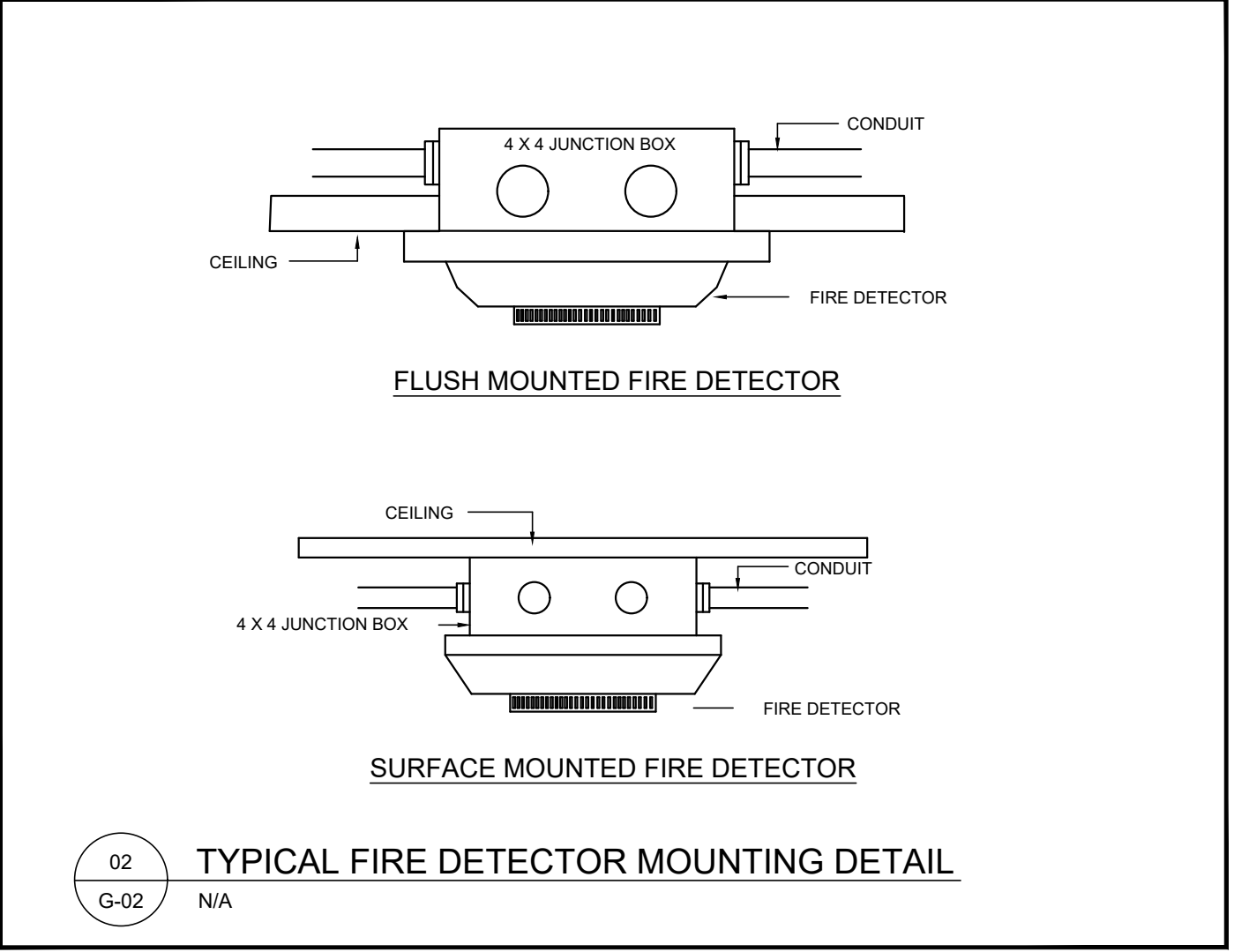
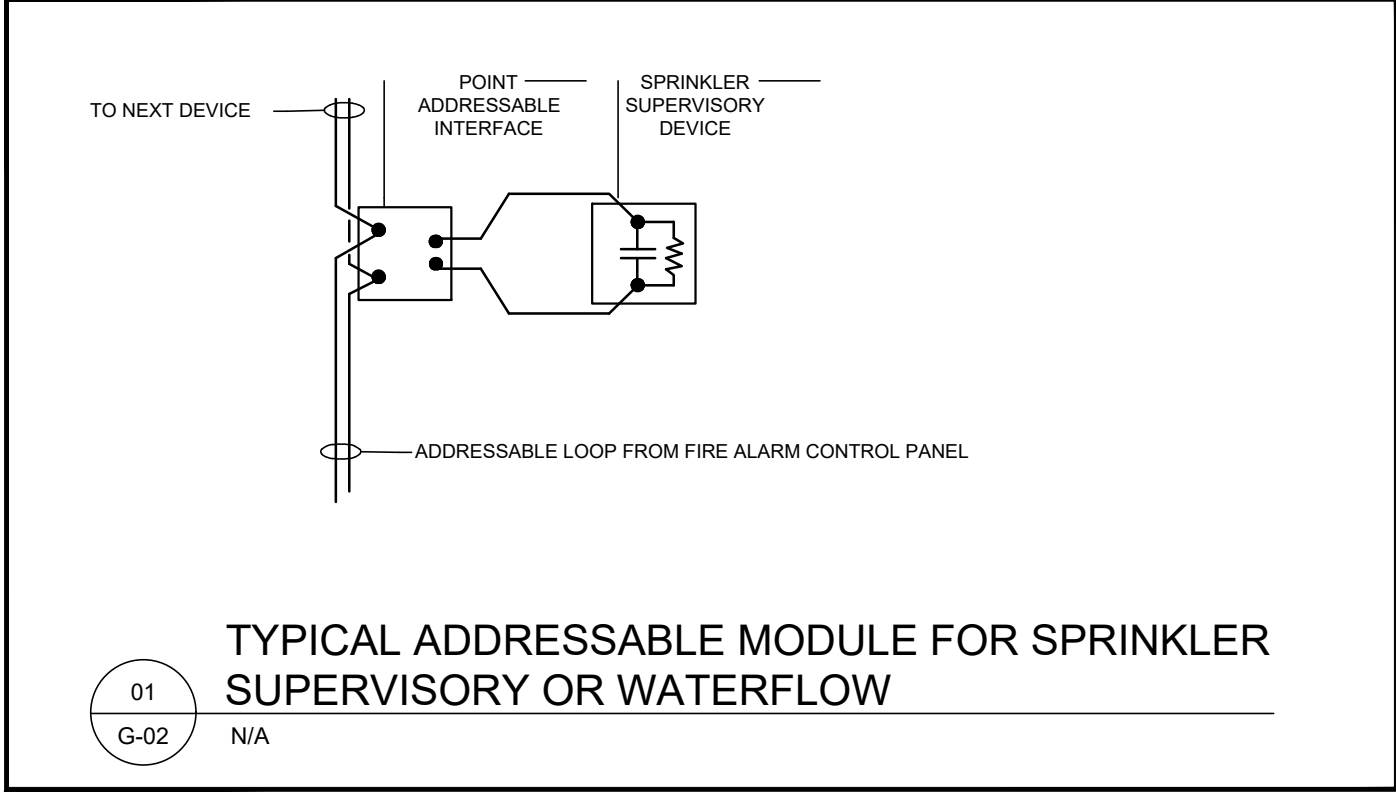


Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FIRE ALARM RISER DIAGRAM, MATRIX & DEMOLITION DETAILS

DESIGN TDH	DATE 2024-08-13	SCALE As Shown
DRAWN TDH	PROJECT NO. 230231500	VERSION ----
CHECKED MJJ	DRAWING NO. G-01	
APPROVED MJJ		



5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



MORRISON HERSHFIELD now **Stantec**

Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

FIRE ALARM DETAILS

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	G-02	----

\\egnyiaDrive\MH CloudProj\2023\230231500-703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\FireG-02 FIRE ALARM DETAILS.dwg Last Saved: 2024-08-02 12:33 PM By J.Wong

GENERAL NOTES

- ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
- FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
 - REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
- ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
- THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
- THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
- BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3RD FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

- ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
 - 2.1.RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
 - 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
 - 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
 - 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
 - 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".



DRAWING NOTES/KEY NOTES

- 2 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANELS FOR ROOMS 33/34/35. MONITORING POINTS INCLUDE:
 - ROOM 33 ALARM D21
 - ROOM 33 TROUBLE D22
 - ROOM 33 PRESSURE AND DAMPER CONTROLS
 - ROOM 34/35 ALARM D21
 - ROOM 34/35 TROUBLE D22
 - ROOM 34/35 PRESSUREPROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- POTTER PFC SERIES RP-B-MB #19 PREACTION ZONE 1 FOR TELEPHONE ROOM 21. MONITORING POINTS:
 - ZONE 1 M24
 - ALARM M25
 - TROUBLE M26PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- POTTER PFC SERIES RP-B-MB #17 PREACTION ZONE 2 FOR NETWORK COMMUNICATIONS ROOM 1 & 2, TELEPHONE ROOM 33. MONITORING POINTS:
 - ZONE 2 M27
 - ALARM M28
 - TROUBLE M29PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- POTTER PFC SERIES RELEASE PANEL RP-B-MA #21 FOR TELEPHONE ROOM 21. MONITORING POINTS:
 - ZONE 1 M20
 - ALARM M22
 - TROUBLE M23PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- INSTALL LINEAR HEAT DETECTION WITHIN ELEVATOR PIT. LOCATE LINEAR HEAT TEST BOX IN AN ACCESSIBLE LOCATION FOR TESTING.
- FOR EACH FIRE PUMP PROVIDE ADDRESSABLE MONITORING MODULES FOR THE FOLLOWING CONDITIONS:
 - LOSS OF PHASE
 - LOSS OF POWER
 - PHASE REVERSAL
- ADD ADDRESSABLE MONITORING MODULE PROVIDE FOR EACH SPRINKLER VALVE. INSTALL USING LIQUID-TIGHT RACEWAY.
- PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- SIGNAL DEVICE PART OF SPECIAL SUPPRESSION SYSTEM. PROVIDE AND INSTALL RELAYS OVERRIDE SPECIAL SUPPRESSION SYSTEM SIGNALING UPON ACTIVATION OF THE BASE BUILDING FIRE ALARM SIGNAL.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
SDS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
SPW	SPEAKER - WALL MOUNTED
SSP	SPEAKER STROBE - CEILING MOUNTED
SSPW	SPEAKER STROBE - WALL MOUNTED
HORN	HORN - WALL MOUNTED
HORN/STROBE	HORN/STROBE - WALL MOUNTED
VSD	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VSPW	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
GW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSRP	SPECIAL SUPPRESSION RELEASE PANEL
SSMPS	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DMB	DEMARICATION BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
BASEMENT NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-0.1	----

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 31ST FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1. RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2. LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 800 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3. RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4. RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
- 2.5. RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- 01 NEW CAF ROOM TO BE CONSTRUCTED ON GROUND FLOOR. REFER TO A201 FOR DETAILS.
- 02 REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK PERTAINING TO THE CAF ROOM CONSTRUCTION.
- 03 FINAL QUANTITY OF AND LAYOUTS OF FIRE ALARM CONTROL EQUIPMENT SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR DURING THE SHOP DRAWING PROCESS. CURRENT LAYOUT SHOWN FOR ILLUSTRATIVE PURPOSES AND IS SUBJECT TO CHANGE BASED ON THE MANUFACTURER.
- 04 RELOCATED THE EXISTING FIRE ALARM SIGNAL RECEIVING CENTRE TRANSMITTER WITHIN THE ROOM BASED ON THE PROPOSED LAYOUT. PROVIDE AND INSTALL NEW DEMARCATION BOX BETWEEN THE FIRE ALARM SIGNAL RECEIVING CENTRE TRANSMITTER AND NEW FIRE ALARM CONTROL EQUIPMENT IN ACCORDANCE WITH CANULC-S524.
- 05 PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- 06 PROVIDE AND INSTALL NEW ADDRESSABLE RELAY TO RELEASE SECURITY GATE ON ANY FIRE ALARM ALERT OR ALARM SIGNAL.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARCATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX
	ELEVATOR KEY SWITCH (BY ELECTRICAL DIVISION)
	MAGLOCK KEY SWITCH (BY ELECTRICAL DIVISION)
	ELEVATOR PHONE (BY ELECTRICAL DIVISION)

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
GROUND FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-01	----

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3RD FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1.RELEASE ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEY SWITCH LOCATED IN THE NEW CAF ROOM.
- 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- 01 PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE SECOND FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- 02 PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SA	SPEAKER - CEILING MOUNTED
SW	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
HW	HORN - WALL MOUNTED
HS	HORN/STROBE - WALL MOUNTED
VS	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VS	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
GW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
EL	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SP	SPECIAL SUPPRESSION RELEASE PANEL
SPNE	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARICATION BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

SECOND FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-02	----

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3RD FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1.RELEASE ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
- 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- (01) 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- (02) MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR DETAILS.
- (03) MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.
- (04) PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE THIRD FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- (05) PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
SW	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
SH	SPEAKER STROBE - WALL MOUNTED
HORN	HORN - WALL MOUNTED
HORN/STROBE	HORN/STROBE - WALL MOUNTED
VSD	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VSW	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSR	SPECIAL SUPPRESSION RELEASE PANEL
SSMPS	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JOP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARCATON BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHTB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
THIRD FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE As Shown
DRAWN TDH	PROJECT NO. 230231500	
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-03	----

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAFR ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1.RELEASE ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAFR ROOM.
- 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAFR ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- 01 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- 02 MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR DETAILS.
- 03 ELECTROMAGNETIC LOCK IN DOOR FRAME.
- 04 PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE FOURTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- 05 PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- 06 SIGNAL DEVICE PART OF SPECIAL SUPPRESSION SYSTEM. PROVIDE AND INSTALL RELAYS TO OVERRIDE SPECIAL SUPPRESSION SIGNALING UPON ACTIVATION OF THE BASE BUILDING FIRE ALARM SIGNAL.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - WALL MOUNTED
CS	SPEAKER - CEILING MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
HW	HORN - WALL MOUNTED
HS	HORN/STROBE - WALL MOUNTED
VS	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VW	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSRP	SPECIAL SUPPRESSION RELEASE PANEL
SMSP	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARCATON BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FOURTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-04	----

\\epw\p\Draw\MH CloudProj\2023\20231500-703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\Fire\FA-04 FOURTH FLOOR NEW FIRE ALARM INSTALLATION.dwg Last Saved: 2024-08-13 12:23 PM by Jon Wong

GENERAL NOTES

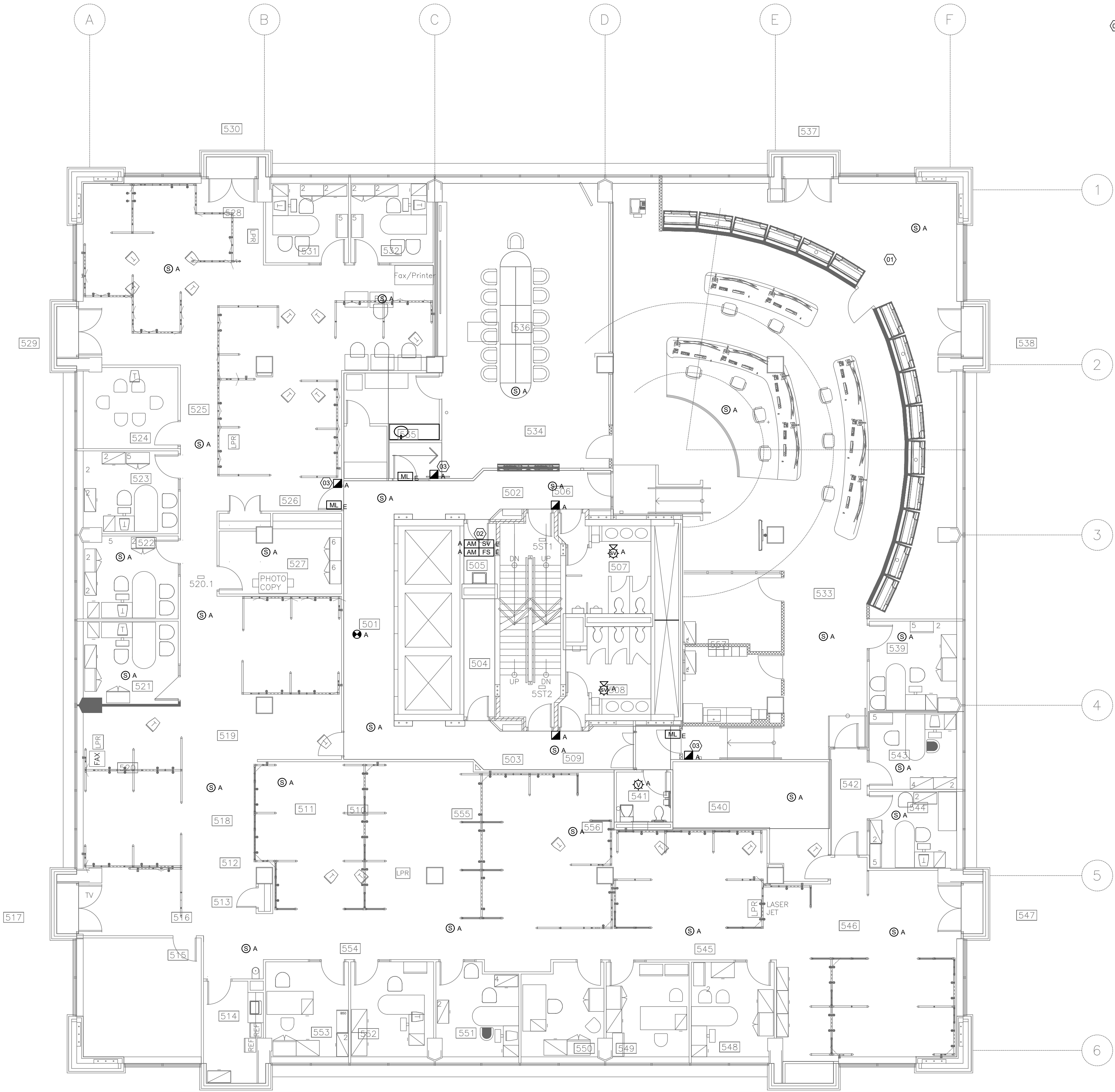
- ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
- FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
 - REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
- ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
- THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
- THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
- BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3RD FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

- ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
 - RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
 - LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
 - RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
 - RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
 - RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- THE CEILING IN THE OPERATION CENTRE IS COMPRISED OF A SUSPENDED DRYWALL CEILING. GENERAL CONTRACTOR SHALL RESTORE THE CEILING TO THE ORIGINAL STATE FOLLOWING INSTALLATION AND DEMOLITION.
- PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE FIFTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
SW	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
HS	HORN - WALL MOUNTED
HS	HORN/STROBE - WALL MOUNTED
VS	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VS	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSRP	SPECIAL SUPPRESSION RELEASE PANEL
SSMPS	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARCATON BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHTB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FIFTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE As Shown
DRAWN TDH	PROJECT NO. 230231500	VERSION ----
CHECKED MJJ	DRAWING NO. FA-05	
APPROVED MJJ		

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
7. THIS FLOOR IS PARTIALLY OCCUPIED BY A 911 CALL CENTRE. THE CALL CENTRE AREAS ARE IDENTIFIED BY THE DIAGONAL HATCH LINES. AUDIBLE SIGNALING WITHIN THE HATCHED AREA IS TO BE REPLACED WITH VISUAL SIGNALING ONLY. STROBES TO BE PROVIDED FOR FIRST AND SECOND STAGE AND UTILIZE DIFFERENT COLOURED LENSES TO SIGNAL EACH CONDITION IN ACCORDANCE WITH THE ALTERNATIVE SOLUTION SUBMITTED ALONG WITH THIS PERMIT.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY-SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CACF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1 RELEASE ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2 LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3 RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4 RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CACF ROOM.
- 2.5 RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CACF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- (01) PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE EIGHTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- (02) PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- (03) FIRST STAGE ALERT STROBE. PROVIDE AND INSTALL SIGNAGE INDICATING "ALERT" ADJACENT TO THE STROBE.
- (04) SECOND STAGE ALARM STROBE TO BE PROVIDED WITH ALTERNATE COLOUR. PROVIDE AND INSTALL SIGNAGE INDICATING "EVAC" ADJACENT TO THE STROBE.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
SIXTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-06	----

GENERAL NOTES

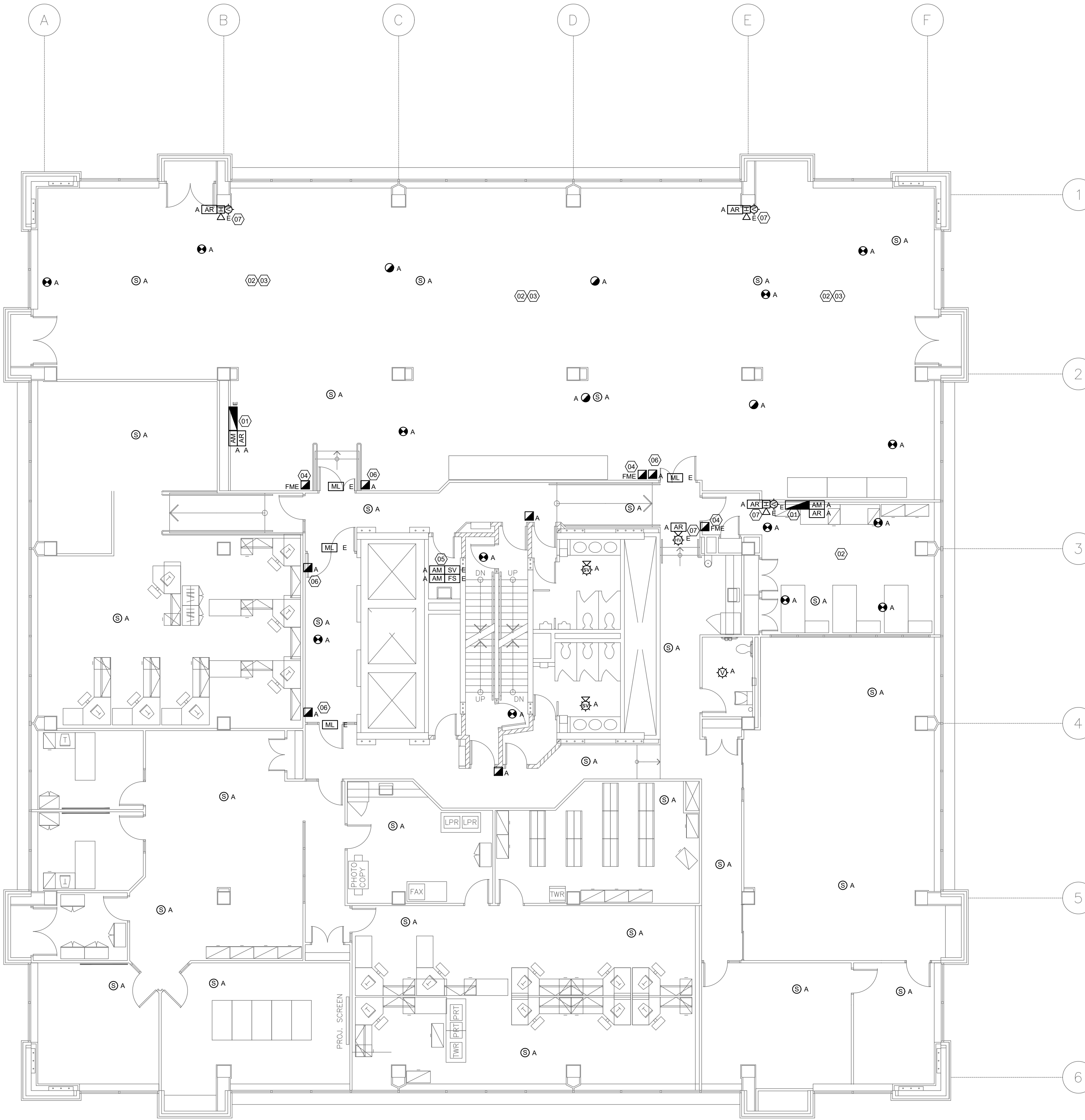
1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1.RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
- 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- 01 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- PROVIDE AND INSTALL. ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- 02 MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR DETAILS.
- 03 EXISTING UNDER FLOOR SMOKE DETECTORS ARE MOUNTED IN THE INCORRECT ORIENTATION. PROVIDE AND INSTALL NEW MOUNTING BRACKETS FOR EACH DETECTOR IN ACCORDANCE WITH CANULC-S524. REFER TO DETAIL OR ON DRAWING G-02.
- 04 MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.
- 05 PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE SEVENTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- 06 PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- 07 SIGNALING DEVICE PART OF SPECIAL SUPPRESSION SYSTEM. PROVIDE AND INSTALL RELAYS TO OVERRIDE SPECIAL SUPPRESSION SYSTEM SIGNALING UPON ACTIVATION OF THE BASE BUILDING FIRE ALARM SIGNAL.



LEGEND	
SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
[MAN]	MANUAL STATION
[SD]	SMOKE DETECTOR
[HD]	DUCT SMOKE DETECTOR
[HD]	HEAT DETECTOR
[SPE]	SPEAKER - CEILING MOUNTED
[SPE]	SPEAKER - WALL MOUNTED
[SPE]	SPEAKER STROBE - CEILING MOUNTED
[HORN]	HORN - WALL MOUNTED
[HORN]	HORN/STROBE - WALL MOUNTED
[VSD]	VISUAL SIGNAL DEVICE - CEILING MOUNTED
[VSD]	VISUAL SIGNAL DEVICE - WALL MOUNTED
[FACP]	FIRE ALARM CONTROL PANEL
[ANN]	ANNUNCIATOR
[GWS]	COLOUR GRAPHIC WORKSTATION
[TRAN]	TRANSPONDER
[ISO]	ISOLATOR
[ELR]	END OF LINE RESISTOR
[AM]	ADDRESSABLE MODULE
[SSRP]	SPECIAL SUPPRESSION RELEASE PANEL
[SMP]	SPECIAL SUPPRESSION MANUAL PULL STATION
[SV]	SUPERVISED VALVE/TAMPER SWITCH
[FS]	FLOW SWITCH
[PS]	PRESSURE SWITCH
[FP]	FIRE PUMP
[JOP]	JOCKEY PUMP
[ET]	EMERGENCY TELEPHONE
[AR]	ADDRESSABLE RELAY
[DEM]	DEMARCATON BOX
[RMT]	REMOTE MONITORING SIGNAL TRANSMITTER
[LHDC]	LINEAR HEAT DETECTION CABLE (LHDC)
[LHDB]	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
SEVENTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO	VERSION
APPROVED MJJ	FA-07	----

I:\proj\703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\Fire\FA-07 SEVENTH FLOOR NEW FIRE ALARM INSTALLATION.dwg Last Saved: 2024-08-05 12:48 PM by J.Wong Plotted 2024-08-13 12:28 PM by Jon Wain

GENERAL NOTES

- ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
- FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
 - REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
- ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
- THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
- THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
- BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
- THIS FLOOR IS PARTIALLY OCCUPIED BY A 911 CALL CENTRE. THE EXTENTS OF THE CALL CENTRE ARE IDENTIFIED BY THE DIAGONAL HATCH LINES. AUDIBLE SIGNALING WITHIN THE HATCHED AREA IS TO BE REPLACED WITH VISUAL SIGNALING ONLY. STROBES TO BE PROVIDED FOR FIRST AND SECOND STAGE AND UTILIZE DIFFERENT COLOURED LENSES TO SIGNAL EACH CONDITION IN ACCORDANCE WITH THE ALTERNATIVE SOLUTION SUBMITTED ALONG WITH THIS PERMIT.

ELECTROMAGNETIC LOCK GENERAL NOTES

- ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAFÉ ROOM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
 - RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
 - LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
 - RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
 - RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAFÉ ROOM.
 - RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAFÉ ROOM.
- THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE EIGHTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- FIRST STAGE ALERT STROBE. PROVIDE AND INSTALL SIGNAGE INDICATING "ALERT" ADJACENT TO THE STROBE.
- SECOND STAGE ALARM STROBE TO BE PROVIDED WITH ALTERNATE COLOUR. PROVIDE AND INSTALL SIGNAGE INDICATING "EVAC" ADJACENT TO THE STROBE.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARCATATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
EIGHTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	FA-08	----

1. ALL WORK SHALL CONFORM TO CANULC-5234-1 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-5237-1 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".

2. FOLLOWING THE CONTRACTING, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:

- REMOTE MONITORING SYSTEMS
- FIRE PUMP AND FIRE PUMP CONTROLLERS
- FIRE PROTECTION
- ELEVATOR SYSTEMS
- SMOKE CONTROL SYSTEMS
- ELECTROMAGNETIC LOCKS
- SPECIAL SUPPRESSION SYSTEMS.

3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-51001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS". DOCUMENTATION PERTAINING THE EXISTING SMOKE CONTROL, SEQUENCE OF OPERATIONS IS NOT AVAILABLE.

4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRLOR IS TO CARRY OUT TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL JUNCTIONARY CONTRLS. INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAIL SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT-OUTPUT MATRIX IN EXCELED FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.

5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL, ON SITE, WILL BE REQUESTED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.

6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE ANNOUNCED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

7. THIS FLOOR IS A 911 CALL CENTRE. AUDIBLE SIGNALING ON THIS FLOOR IS TO BE REPLACED WITH VISUAL SIGNALING ONLY. STROBES TO BE PROVIDED FOR FIRST AND SECOND STAGE AND VISUAL SIGNALING TO BE PROVIDED TO SIGNAL EACH CONDITION IN ACCORDANCE WITH THE ALTERNATIVE SOLUTION SUBMITTED ALONG WITH THIS PERMIT.

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY-SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAFÉ ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.1.6. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
 - 2.1. RELEASING ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
 - 2.2. LOCAL RELEASE OF ELECTROMAGNETIC LOCK ON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
 - 2.3. RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAIL, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
 - 2.4. RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH ON THE NEW CAFÉ ROOM.
- 2.5. RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAFÉ ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF THE FIRE ALARM CONTROL PANEL. THE BY-PASS CONTROL PANEL OPERATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE MONITORING REMOTE CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".



- ① 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROL)
 - D21
 - D22
- PROVIDE AND INSTALL ADDRESSABLE MONITORING MODULE AND RELAYS FOR CROSS ZONED ACTIVATION. EXISTING SEQUENCE TO BE RECREATED.
- ② MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR DETAILS.
- ③ MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.
- ④ PROVIDE AND INSTALL NEW FIRE ALARM MONITORING MODULES FOR THE NINTH FLOOR SUPERVISORY VALVE AND FLOW SWITCHES. ALL NEW WIRING TO BE INSTALLED IN LIQUID TIGHT RACEWAY.
- ⑤ PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- ⑥ SIGNALING DEVICE PART OF SPECIAL SUPPRESSION SYSTEM. PROVIDE AND INSTALL RELAYS TO OVERRIDE SPECIAL SUPPRESSION SYSTEM SIGNALING UPON ACTIVATION OF THE BASE BUILDING FIRE ALARM SIGNAL.
- ⑦ FIRST STAGE ALERT STROBE. PROVIDE AND INSTALL SIGNAGE INDICATING "ALERT" ADJACENT TO THE STROBE.
- ⑧ SECOND STAGE ALARM STROBE TO BE PROVIDED WITH ALTERNATE COLOUR. PROVIDE AND INSTALL SIGNAGE INDICATING "EVAC" ADJACENT TO THE STROBE.

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	CLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/ TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

NINTH FLOOR NEW FIRE ALARM INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE As Shown
DRAWN TDH	PROJECT NO. 230231500	
CHECKED MJJ	DRAWING NO FA-09	VERSION ----
APPROVED MJJ		

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO CANULC-S524-14 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE. THE NEW FIRE ALARM SYSTEM USE TO BE VERIFIED IN ACCORDANCE WITH CANULC-S531-13 "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS".
2. FOLLOWING THE TRANSFER, INSTALLATION AND VERIFICATION OF ALL SYSTEM FUNCTIONS, THE GENERAL CONTRACTOR SHALL ARRANGE FOR THE RETRO-INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING OF LIFE SAFETY SYSTEMS INTERCONNECTED TO THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO:
- REMOTE MONITORING SYSTEMS
 - FIRE PUMP AND FIRE PUMP CONTROLLERS
 - FIRE PROTECTION
 - ELEVATOR SYSTEMS
 - SMOKE CONTROL SYSTEMS
 - ELECTROMAGNETIC LOCKS
 - SPECIAL SUPPRESSION SYSTEMS.
3. ALL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CANULC-S1001-11 "INTEGRATED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" DOCUMENTATION PERTAINING THE THE EXISTING SMOKE CONTROL SEQUENCE OF OPERATIONS IS NOT AVAILABLE.
4. THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U. THE FIRE ALARM CONTRACTOR IS TO CARRY COST TO COORDINATE WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER TO DOWNLOAD AND RECREATE EXISTING FIRE ALARM SEQUENCE OF OPERATIONS, INCLUDING ALL ANCILLARY CONTROLS, INCLUDING THE SMOKE CONTROL SYSTEM. SUBMIT A COPY OF THE DETAILED SEQUENCE OF OPERATIONS IN WORD FORMAT, INCLUDING INPUT/OUTPUT MATRIX IN EXCEL FORMAT, OR SIMILAR FORMAT ACCEPTABLE TO THE ENGINEER AND OWNER.
5. THE GENERAL CONTRACTOR, INCLUDING ALL SUB-CONTRACTORS, OR PERSONNEL ON SITE, WILL BE REQUIRED TO OBTAIN TORONTO POLICE SERVICES SECURITY CLEARANCES PRIOR TO THE START OF WORK.
6. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24/7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 3RD FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

ELECTROMAGNETIC LOCK GENERAL NOTES

1. ALL ELECTROMAGNETIC LOCKS IN THE BUILDING ARE EXISTING. THE EXISTING ELECTROMAGNETIC LOCK RELEASE AND RESET KEY SWITCH IS LOCATED AT THE SECURITY DESK AND SHALL BE RELOCATED TO THE NEW CAF ROOM.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCK FUNCTIONALITY IN ACCORDANCE WITH SENTENCE 3.4.6.16. (4) OF THE OBC, INCLUDING BUT NOT LIMITED TO:
- 2.1.RELEASE ALL ELECTROMAGNETIC LOCKS ON THE FIRE ALARM ALERT SIGNAL.
- 2.2.LOCAL RELEASE OF ELECTROMAGNETIC LOCK UPON OPERATION OF THE MANUAL PULL STATION LOCATED WITH 600 MM TO THE DOOR EQUIPPED WITH THE LOCKING DEVICE.
- 2.3.RELEASE OF ELECTROMAGNETIC LOCKS IN THE EVENT OF A CIRCUIT FAULT, IN THE ELECTRICAL CIRCUIT BETWEEN THE ELECTROMAGNETIC LOCK CONTROLLER, AND THE FIRE ALARM CONTROL PANEL.
- 2.4.RELEASE IMMEDIATELY UPON THE ACTIVATION OF AN KEYSWITCH LOCATED IN THE NEW CAF ROOM.
- 2.5.RE-ENGAGE ONLY UPON THE OPERATION OF THE KEY SWITCH IN THE CAF ROOM.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A ELECTROMAGNETIC LOCK BY-PASS FUNCTION, FOR THE PURPOSES OF TESTING, ON THE NEW FIRE ALARM CONTROL PANEL. ACTIVATION OF THE BYPASS SHALL RESULT IN A TROUBLE CONDITION ON THE FIRE ALARM CONTROL PANEL AND SEND A SIGNAL TO THE REMOTE MONITORING CENTRE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS.
5. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SIGNAGE ON DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS IN THE DIRECTION OF EGRESS. SIGNAGE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OBC AND STATE: "EMERGENCY EXIT UNLOCKED BY FIRE ALARM".

DRAWING NOTES/KEY NOTES

- (01) PROVIDE AND INSTALL NEW ADDRESSABLE RELAYS FOR THE FOLLOWING ELEVATOR RECALL FUNCTIONS AS PRESCRIBED BY CSA- B44-22:
- PRIMARY RECALL
 - ALTERNATE RECALL
 - TOP OF SHAFT DETECTION (PROVIDED VIA VESDA)
 - ELEVATOR PIT DETECTION (PROVIDED VIA LINEAR HEAT)
 - ELEVATOR MACHINE ROOM DETECTION
- (02) REFER TO FIRE ALARM MATRIX FOR RECALL SEQUENCE OF OPERATIONS.
- FOR EACH GENERATOR PROVIDE AND INSTALL MONITORING MODULES WITHIN THE GENERATOR ROOM. THE FOLLOWING MONITORING POINTS TO BE INCLUDED:
- GENERATOR RUNNING
 - GENERATOR TROUBLE
 - GENERATOR LOW FUEL
- MODULES TO INITIATED A SUPERVISORY CONDITION ON THE FIRE ALARM PANEL.
- (03) TOP OF STAIR SMOKE DETECTOR.
- (04) VESDA AIR-ASPIRATING SYSTEM TO BE PROVIDED FOR TOP OF ELEVATOR SHAFT. LOCATE UNIT AND TEST PORT WITHIN THE ELEVATOR MACHINE ROOM.
- (05) PROVIDE AND INSTALL MANUAL PULL STATION WITH AUXILIARY CONTACT FOR LOCAL RELEASE OF ELECTROMAGNETIC LOCK.
- (06) EXISTING DUCT SMOKE DETECTOR FOR SF-1 TO BE REPLACED WITH ASPIRATING TYPE SMOKE DETECTOR DEVICE LISTED FOR USE IN DUCTS. CONTRACTOR TO LOCATE REMOTE TEST STATION IN AN ACCESSIBLE LOCATION TO BE APPROVED BY THE CITY.
- (07) EXISTING DUCT SMOKE DETECTOR FOR RF-1 TO BE REPLACED WITH AAIR-ASPIRATION TYPE DETECTION DEVICE LISTED FOR USE IN DUCTS. CONTRACTOR TO LOCATE REMOTE TEST STATION IN AN ACCESSIBLE LOCATION TO BE APPROVED BY THE CITY.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

MECHANICAL PENTHOUSE
NEW FIRE ALARM
INSTALLATION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO	VERSION
APPROVED MJJ	FA-10	----

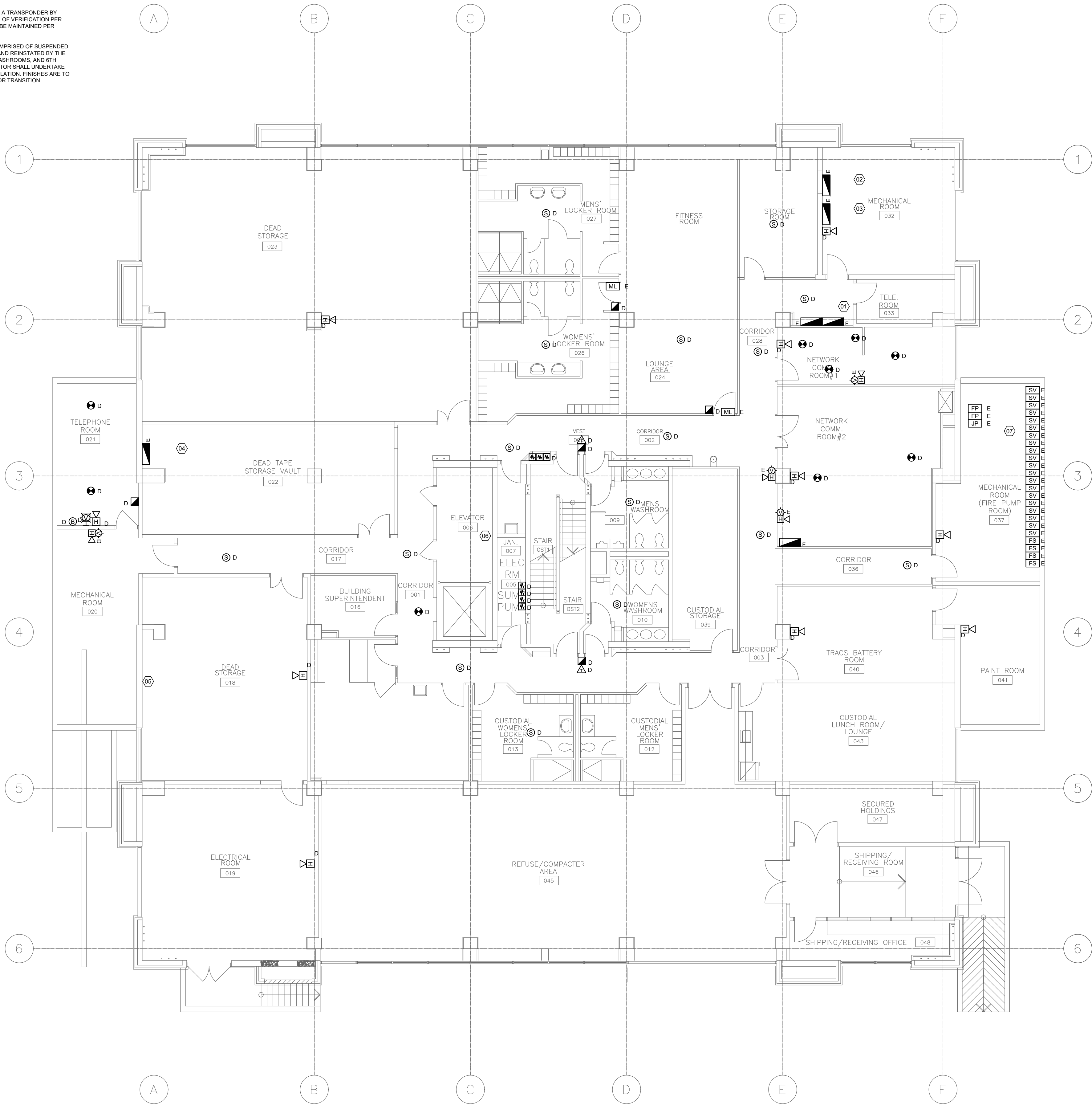
I:\projects\703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\FireFA-10 MECHANICAL PENTHOUSE NEW FIRE ALARM INSTALLATION.dwg Plotted: 2024-08-13 12:23 PM by JJWong Last Saved: 2024-08-02 12:51 PM

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- 01 2 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANELS FOR ROOMS 33/34/35. MONITORING POINTS INCLUDE:
- ROOM 33 ALARM D21
 - ROOM 33 TROUBLE D22
 - ROOM 33 PRESSURE AND DAMPER CONTROLS
 - ROOM 34/35 ALARM D21
 - ROOM 34/35 TROUBLE D22
 - ROOM 34/35 PRESSURE
- 02 POTTER PFC SERIES RP-B-MB #19 PREACTION ZONE 1 FOR TELEPHONE ROOM 21. MONITORING POINTS:
- ZONE 1 M24
 - ALARM M25
 - TROUBLE M26
- 03 POTTER PFC SERIES RP-B-MB #17 PREACTION ZONE 2 FOR NETWORK COMMUNICATIONS ROOM 1 & 2, TELEPHONE ROOM 33. MONITORING POINTS:
- ZONE 2 M27
 - ALARM M28
 - TROUBLE M29
- 04 POTTER PFC SERIES RELEASE PANEL RP-B-MA #21 FOR TELEPHONE ROOM 21. MONITORING POINTS:
- ZONE 1 M20
 - ALARM M22
 - TROUBLE M23
- 05 GENERATOR CONTROLS FOR GENERATOR 1 AND GENERATOR 2. NO EXISTING FIRE ALARM MODULE.
- 06 ELEVATOR PIT ACCESS. REMOVE ANY SPOT TYPE DETECTION WITHIN ELEVATOR SHAFT.
- 07 JOCKEY PUMP IS FIRE PUMP 3. JOCKEY PUMP VALVES NOT MONITORED.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
[MAN]	MANUAL STATION
[SD]	SMOKE DETECTOR
[DSD]	DUCT SMOKE DETECTOR
[HD]	HEAT DETECTOR
[S]	SPEAKER - CEILING MOUNTED
[S-W]	SPEAKER - WALL MOUNTED
[S-C]	SPEAKER STROBE - CEILING MOUNTED
[H]	HORN - WALL MOUNTED
[H-C]	HORN/STROBE - WALL MOUNTED
[VSD]	VISUAL SIGNAL DEVICE - CEILING MOUNTED
[VSW]	VISUAL SIGNAL DEVICE - WALL MOUNTED
[FACP]	FIRE ALARM CONTROL PANEL
[ANN]	ANNUNCIATOR
[GWS]	COLOUR GRAPHIC WORKSTATION
[TRAN]	TRANSPONDER
[ISO]	ISOLATOR
[ELR]	END OF LINE RESISTOR
[AM]	ADDRESSABLE MODULE
[SFR]	SPECIAL SUPPRESSION RELEASE PANEL
[SFR-M]	SPECIAL SUPPRESSION MANUAL PULL STATION
[SV]	SUPERVISED VALVE/TAMPER SWITCH
[FS]	FLOW SWITCH
[PS]	PRESSURE SWITCH
[FP]	FIRE PUMP
[JP]	JOCKEY PUMP
[ET]	EMERGENCY TELEPHONE
[AR]	ADDRESSABLE RELAY
[DEM]	DEMARCATON RELAY
[RMT]	REMOTE MONITORING SIGNAL TRANSMITTER
[LHDC]	LINEAR HEAT DETECTION CABLE (LHDC)
[LHDB]	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
YYYY-MM-DD		SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
BASEMENT FIRE ALARM DEMOLITION

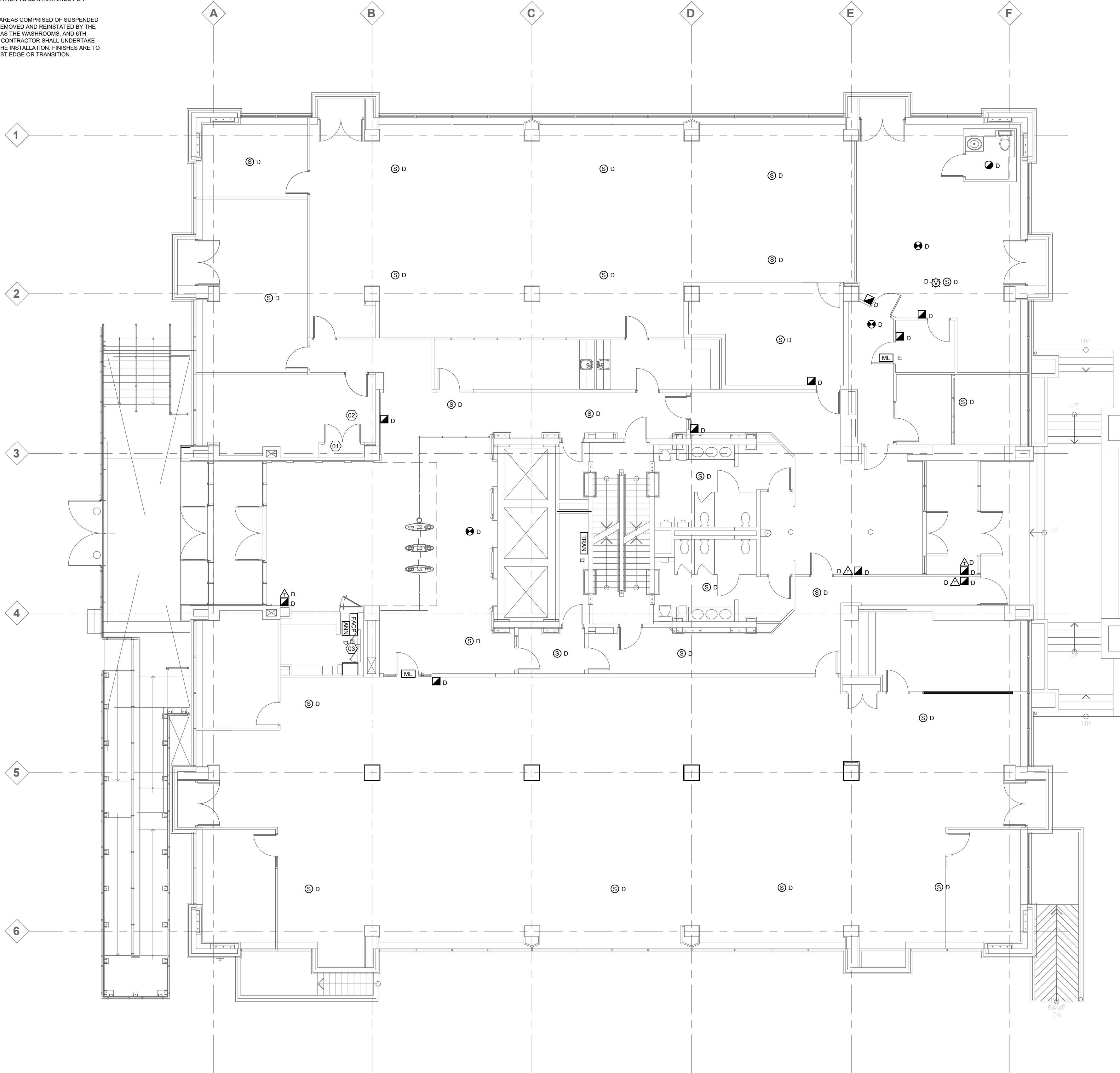
DESIGN TDH	DATE 2024-08-13	SCALE As Shown
DRAWN TDH	PROJECT NO. 230231500	
CHECKED MJJ	DRAWING NO. D-0.1	VERSION ----
APPROVED MJJ		

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) EXISTING FIRE ALARM REMOTE MONITORING PANEL LOCATION. PANEL TO BE RELOCATED DURING THE CONSTRUCTION OF THE NEW CACF ROOM. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION DETAILS.
- (02) FUTURE CACF ROOM TO BE CONSTRUCTED IN BUILDING OPERATIONS OFFICE. REFER TO THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.
- (03) EXISTING FACP EQUIPMENT WILL BE RETAINED AND RELOCATED. FURTHER DETAILS WITHIN SPECIFICATIONS.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
SD	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
SP	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
SS	HORN - WALL MOUNTED
SS	HORN/STROBE - WALL MOUNTED
VSD	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VSD	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSR	SPECIAL SUPPRESSION RELEASE PANEL
SSM	SPECIAL SUPPRESSION MANUAL PULL STATION
TS	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARCATON BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

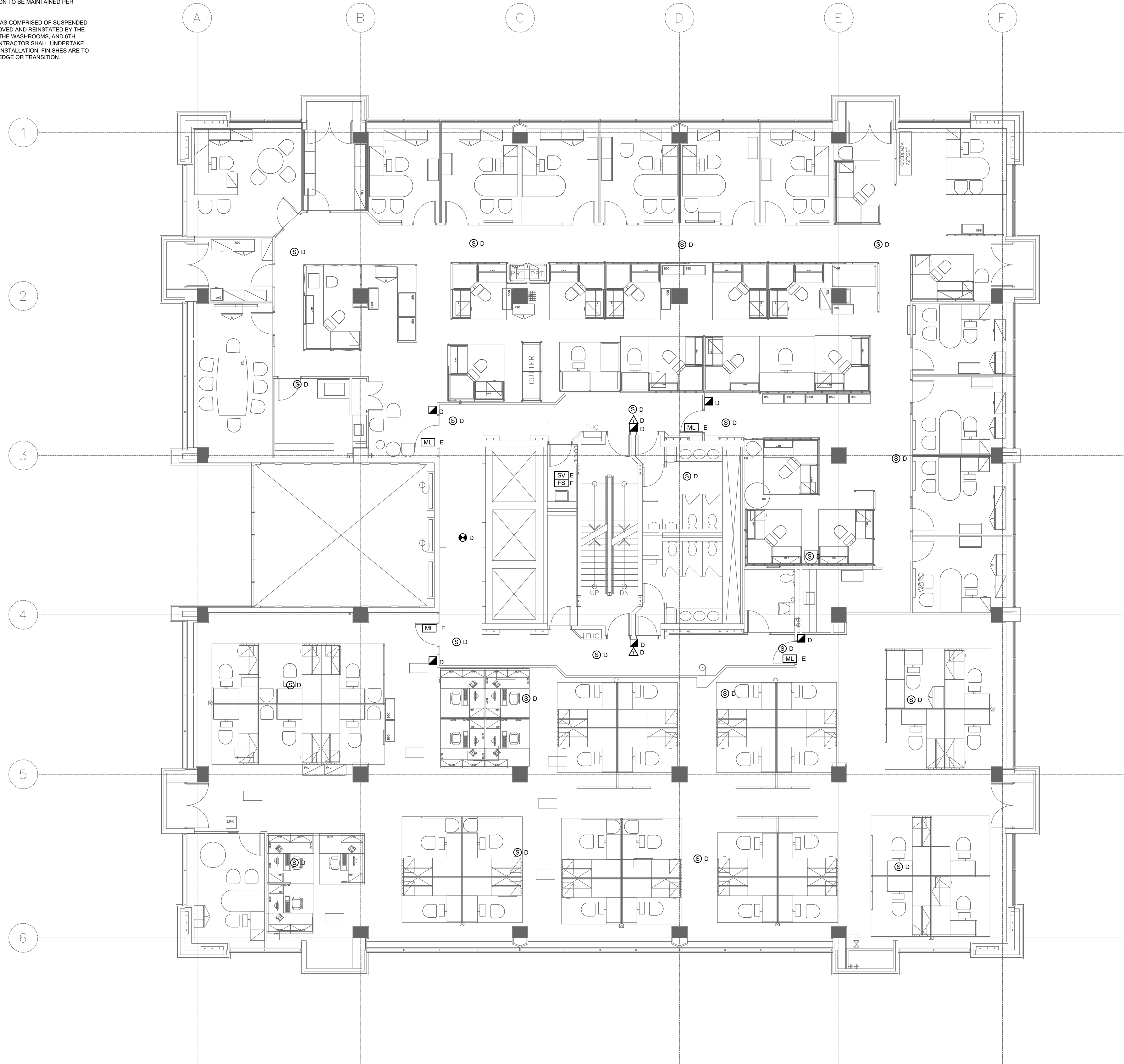
PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
GROUND FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-01	----

GENERAL NOTES

- ALL FLOORS ARE SPRINKLERED.
- BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
- PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
- DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
- WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK, IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
WS	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
WS	HORN - WALL MOUNTED
SS	HORN/STROBE - WALL MOUNTED
VSD	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VSD	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSRP	SPECIAL SUPPRESSION RELEASE PANEL
SMPS	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARICATION BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
SECOND FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-02	----

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. EXISTING MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- (02) MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR QUANTITIES.
- (03) MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
THIRD FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-03	----

\\egnybaDrive\MH CloudProj\2023\230231500-703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\Fire\03 THIRD FLOOR FIRE ALARM DEMOLITION.dwg Last Saved: 2024-08-02 12:55 PM by JWWong Plotted 2024-08-13 12:28 PM by Jon Wong

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. EXISTING MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- (02) MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR QUANTITIES.
- (03) ELECTROMAGNETIC LOCK IN DOOR FRAME.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX



5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FOURTH FLOOR FIRE ALARM DEMOLITION

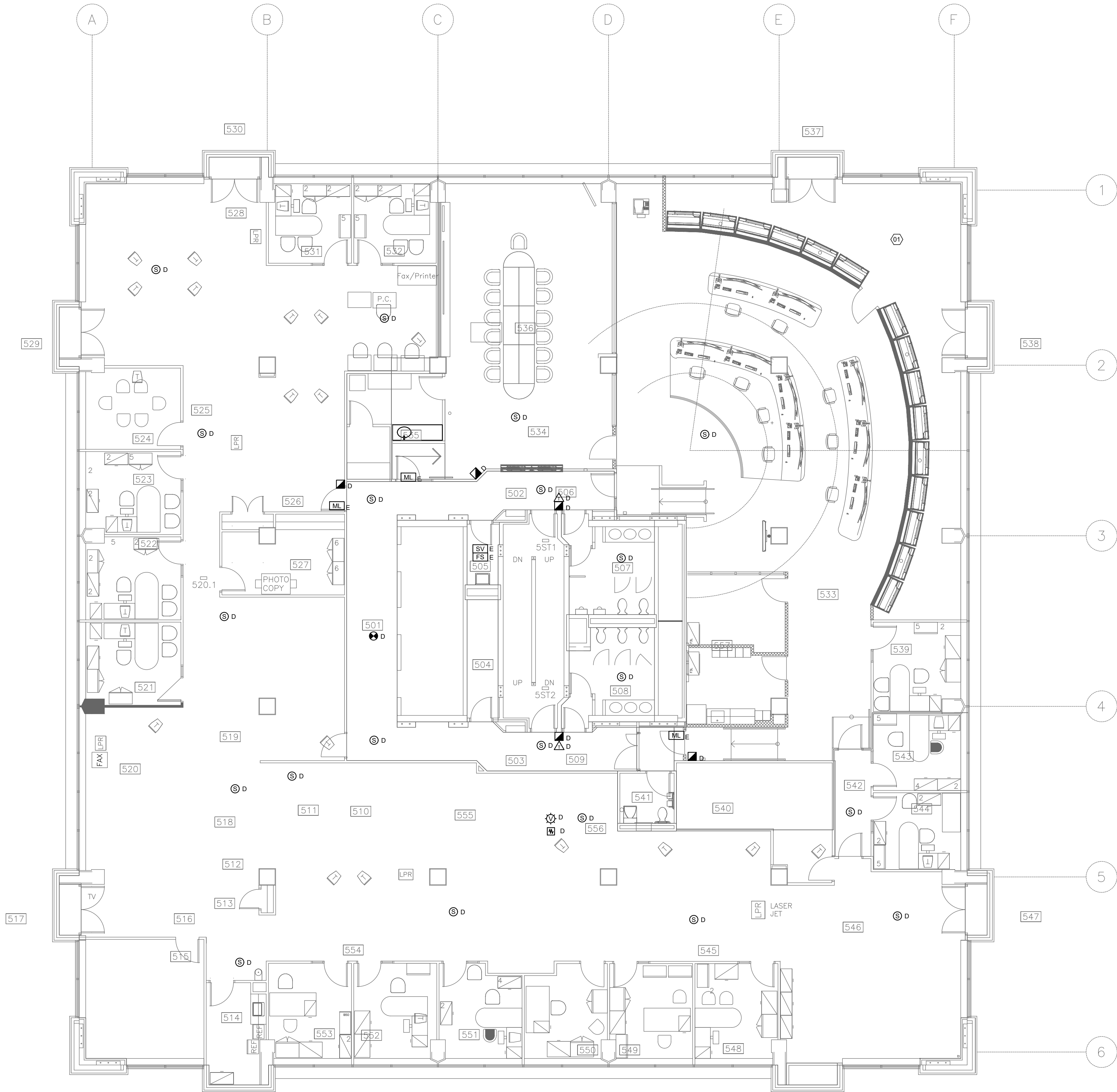
DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-04	----

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK, IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) THE CEILING IN THE OPERATION CENTRE IS COMPRISED OF A SUSPENDED DRYWALL CEILING. GENERAL CONTRACTOR SHALL RESTORE THE CEILING TO THE ORIGINAL STATE FOLLOWING INSTALLATION AND DEMOLITION.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
MAN	MANUAL STATION
SD	SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
HD	HEAT DETECTOR
SP	SPEAKER - CEILING MOUNTED
SW	SPEAKER - WALL MOUNTED
SS	SPEAKER STROBE - CEILING MOUNTED
WH	HORN - WALL MOUNTED
WS	HORN/STROBE - WALL MOUNTED
VSD	VISUAL SIGNAL DEVICE - CEILING MOUNTED
VSW	VISUAL SIGNAL DEVICE - WALL MOUNTED
FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
CGW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
ELR	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
SSRP	SPECIAL SUPPRESSION RELEASE PANEL
SMPS	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JCP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARICATION BOX
RMT	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHTB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
FIFTH FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-05	----

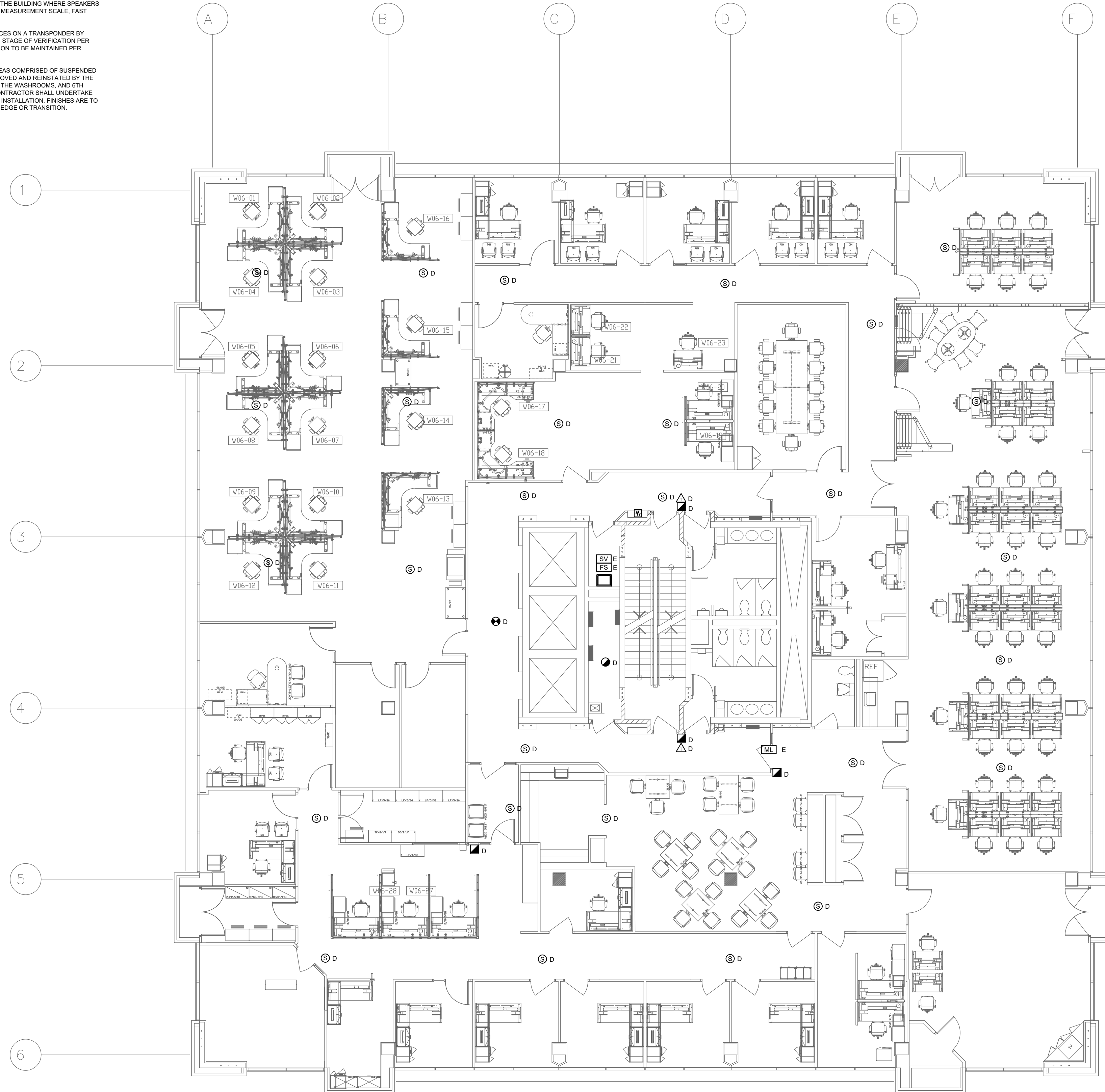
ALL FLOORS ARE SPRINKLERED.

2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 2-47 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.

PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.

DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSDUCER BY A CERTIFIED BASIS. DEMOLITION OF EXISTING DEVICES AND REPORTS AT EACH STAGE OF VERIFICATION PER CANULS-SS23 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT OUTPUT CORRELATION TO BE MAINTAINED PER CANULS-SS24 PART 7.

WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING WITH SOME MODIFICATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPAIR OF CEILING OF DRYWALL/GYPSUM AS REQUIRED FOR THE SUBTENDS TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EIGHT OR TRANSITION.



SYMBOL	
	EXISTING DEVICE TO BE DELETED
	EXISTING DEVICE TO REMAIN
	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFELD.

PROFESSIONAL SEALS

Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

SIXTH FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO	VERSION
APPROVED MJJ	D-06	----

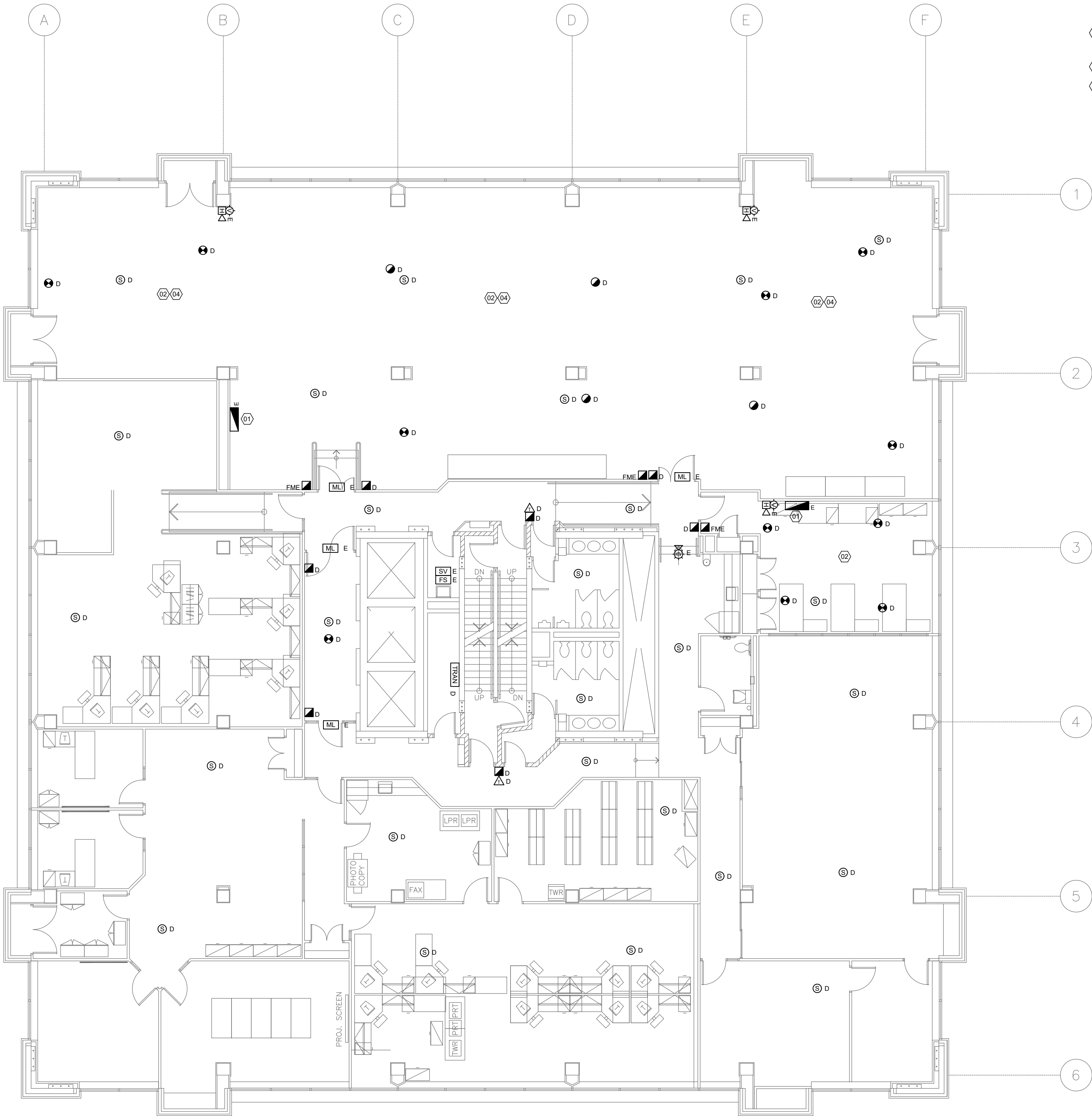
EgnyteDrive\MH Cloud\Proj\2023\20231500-703 Don Mills Fire Alarm Replacement\09_CAD\07 Sheets\FireID-06 SIXTH FLOOR FIRE ALARM DEMOLITION.dwg Last Saved: 2024-08-02 12:59 PM by JWong Plotted 2024-08-13 12:29 PM by Jon Wong

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- 01 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. EXISTING MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- 02 MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR QUANTITIES.
- 03 MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.
- 04 REMOVE EXISTING UNDER FLOOR SMOKE DETECTORS THAT ARE MOUNTED IN THE INCORRECT ORIENTATION. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR QUANTITIES AND DETAILS.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

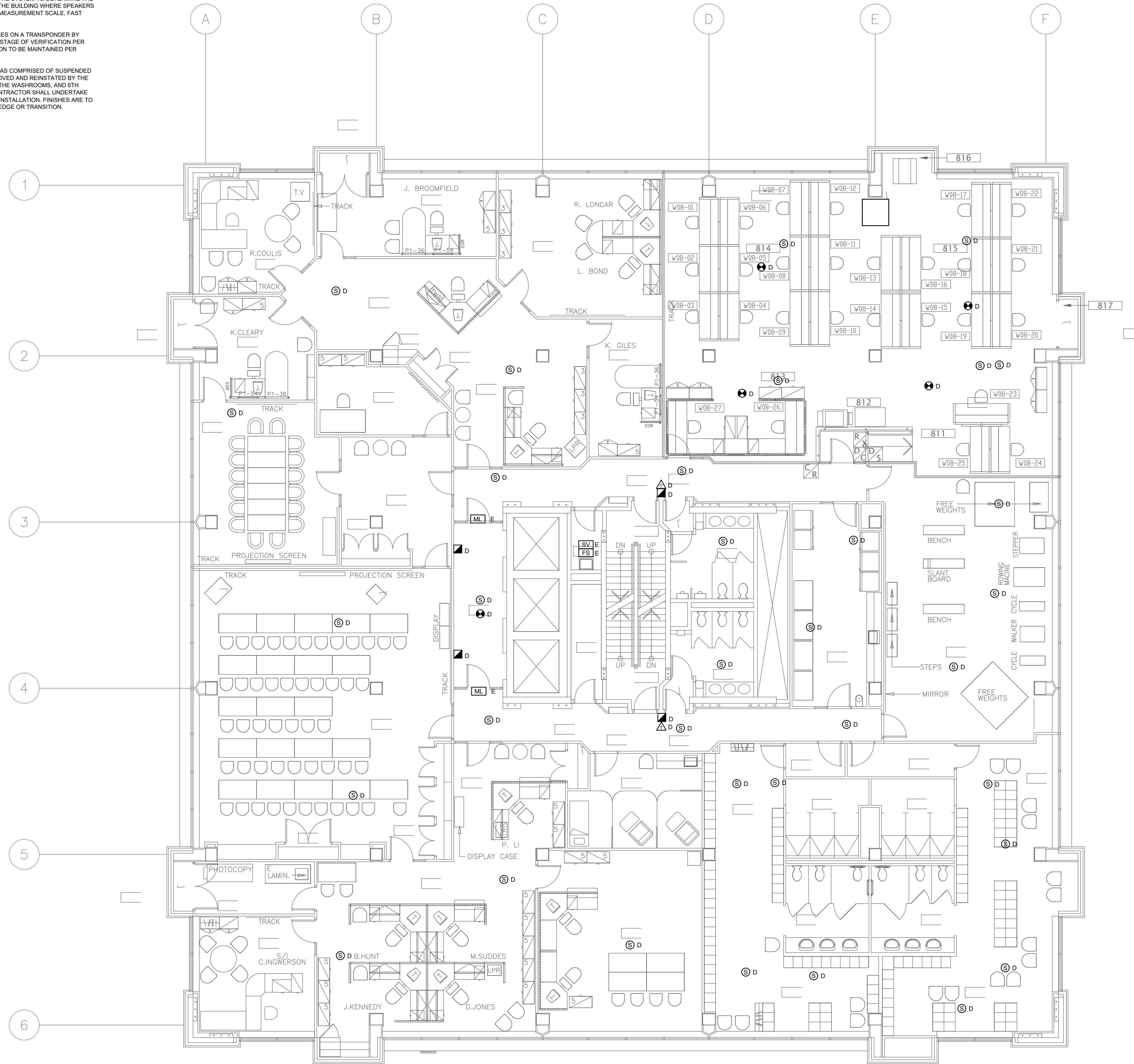
PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
SEVENTH FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-07	----

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
M	MANUAL STATION
S	SMOKE DETECTOR
H	DUCT SMOKE DETECTOR
H	HEAT DETECTOR
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
S	SPEAKER STROBE - CEILING MOUNTED
S	HORN - WALL MOUNTED
S	HORN/STROBE - WALL MOUNTED
S	VISUAL SIGNAL DEVICE - CEILING MOUNTED
S	VISUAL SIGNAL DEVICE - WALL MOUNTED
TACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
GW	COLOUR GRAPHIC WORKSTATION
TRAN	TRANSPONDER
ISO	ISOLATOR
END	END OF LINE RESISTOR
AM	ADDRESSABLE MODULE
S	SPECIAL SUPPRESSION RELEASE PANEL
S	SPECIAL SUPPRESSION MANUAL PULL STATION
SV	SUPERVISED VALVE/TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FP	FIRE PUMP
JP	JOCKEY PUMP
ET	EMERGENCY TELEPHONE
AR	ADDRESSABLE RELAY
DEM	DEMARICATION BOX
RM	REMOTE MONITORING SIGNAL TRANSMITTER
LHDC	LINEAR HEAT DETECTION CABLE (LHDC)
LHDB	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
EIGHTH FLOOR FIRE ALARM DEMOLITION

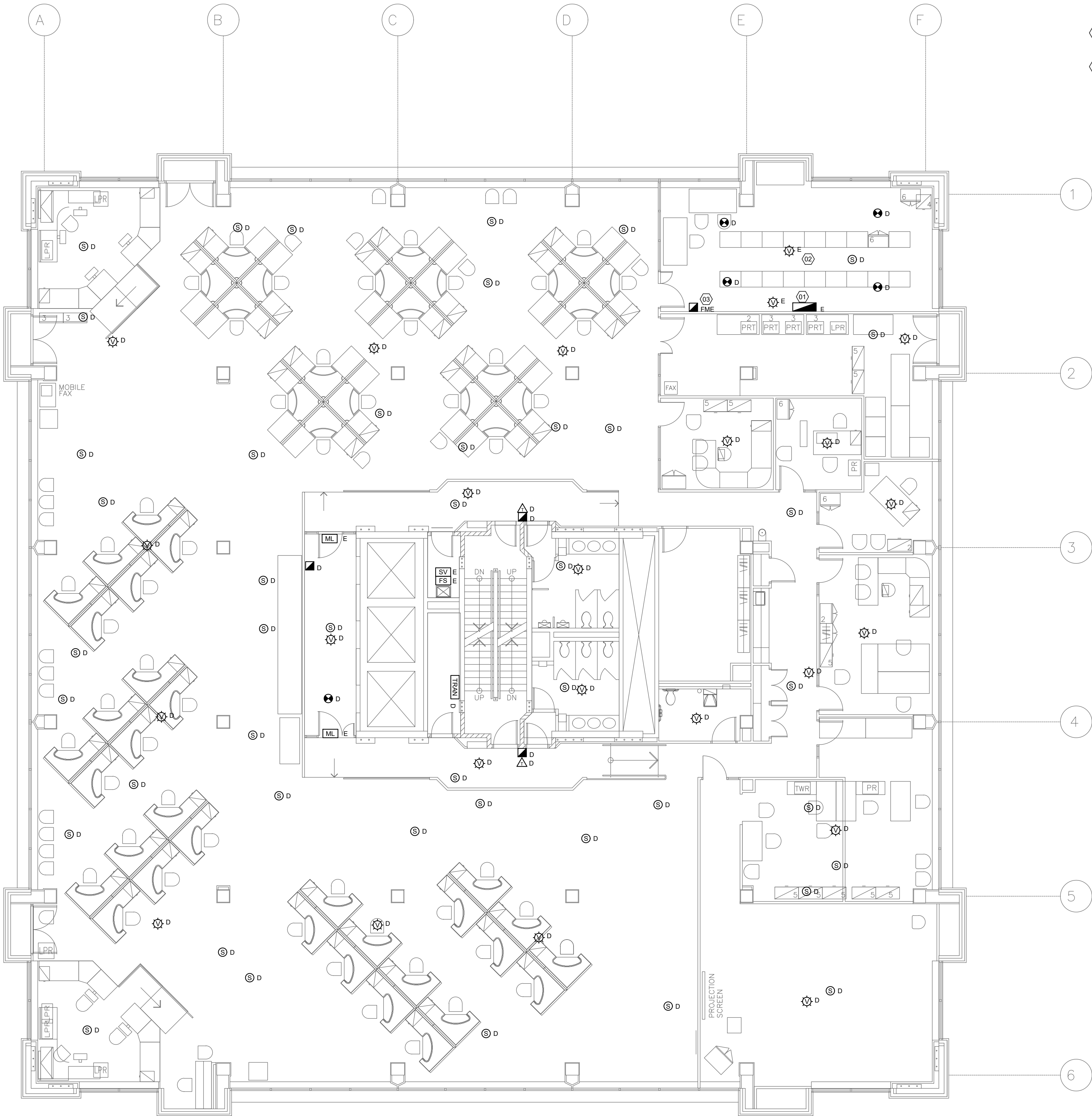
DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-08	----

GENERAL NOTES

1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE. FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) 1 NOTIFIER RP1002 FM-200 SUPPRESSION SYSTEM RELEASE PANEL. EXISTING MONITORING POINTS INCLUDE:
- ALARM
 - TROUBLE
 - POS
 - DMP (DAMPER CONTROLS)
 - D21
 - D22
- (02) MAIN SERVER CONTAINS UNDER FLOOR DETECTION IN RAISED FLOOR AREA. ALL BASE BUILDING DETECTORS TO BE REPLACED. SEE ANNUAL FIRE ALARM INSPECTION REPORT FOR QUANTITIES.
- (03) MANUAL PULL STATION FOR SUPPRESSION SYSTEM RELEASE.



LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARCATON BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
YYYY-MM-DD		SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
NINTH FLOOR FIRE ALARM DEMOLITION

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-09	----

GENERAL NOTES

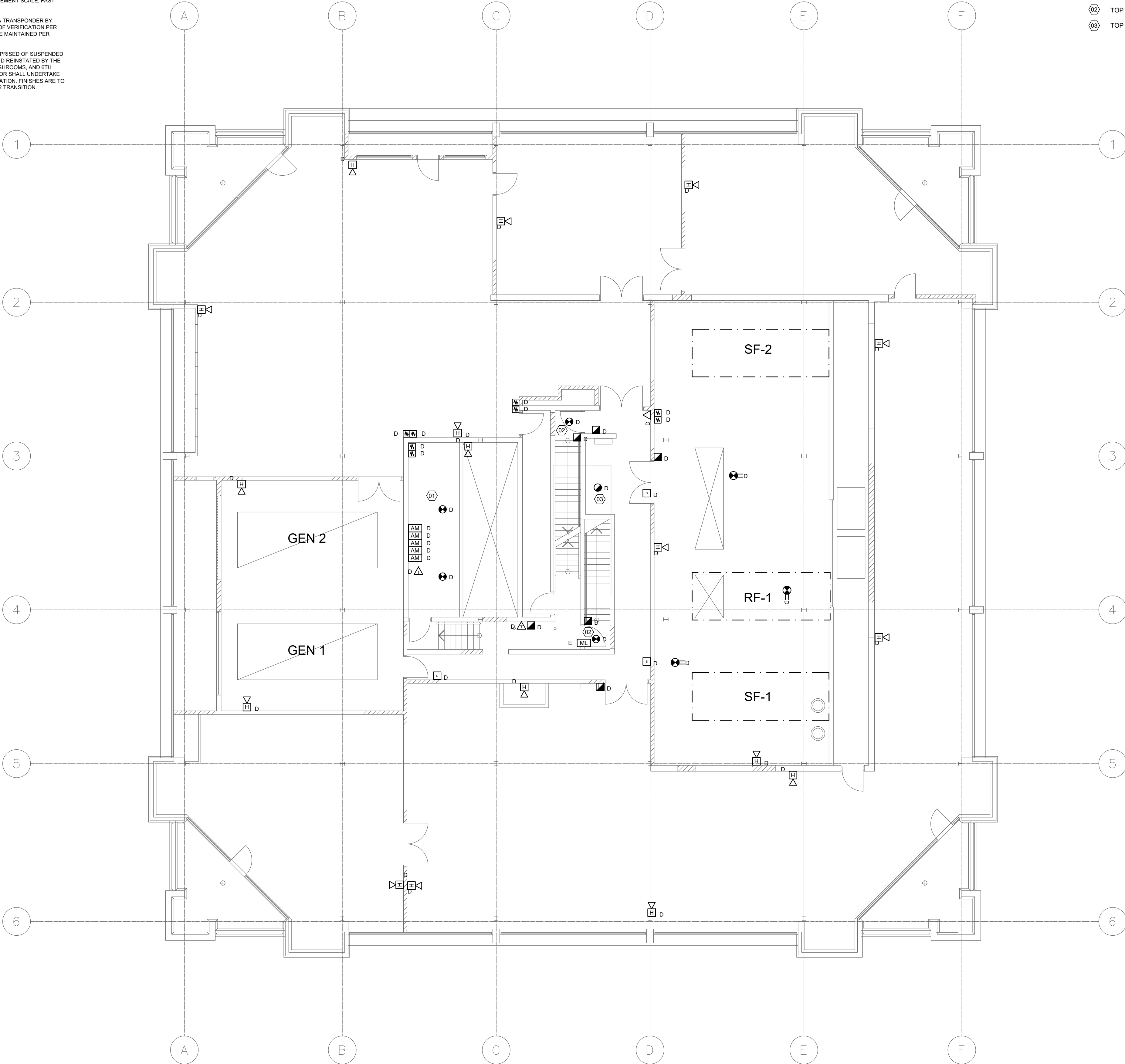
1. ALL FLOORS ARE SPRINKLERED.
2. BUILDING WILL REMAIN FULLY OCCUPIED DURING CONSTRUCTION INCLUDING THE 24-7 EMERGENCY SERVICES CALL CENTRE LOCATED ON THE 9TH FLOOR. ALL WORK SHALL BE CONDUCTED OUTSIDE OF REGULAR BUSINESS HOURS TO MITIGATE DISRUPTION TO BUILDING SERVICES.
3. PRIOR TO STARTING WORK, THE FIRE ALARM CONTRACTOR SHALL CARRY OUT AN AUDIBILITY TEST OF THE SYSTEM TO DETERMINE THE BASE LEVEL OF PERFORMANCE. SUBMIT FLOOR PLANS IDENTIFYING AUDIBILITY LEVELS THROUGHOUT THE BUILDING WHERE SPEAKERS ARE TO BE INSTALLED. SOUND PRESSURE LEVELS TO BE MEASURED AND RECORDED IN "A" WEIGHTED MEASUREMENT SCALE, FAST RESPONSE. ALL INTERVENING DOORS TO BE CLOSED DURING MEASUREMENT.
4. DEMOLITION TO TAKE PLACE FOLLOWING THE INSTALLATION AND PARTIAL VERIFICATION OF NEW DEVICES ON A TRANSPONDER BY TRANSPONDER BASIS. FIRE ALARM CONTRACTOR TO SUBMIT SOFTWARE COMPARE REPORTS AT EACH STAGE OF VERIFICATION PER CANULC-S537 PART 7 "SYSTEM MODIFICATIONS". CONTRACTOR TO ENSURE INPUT/OUTPUT CORRELATION TO BE MAINTAINED PER CANULC-S524.
5. WITH FEW EXCEPTIONS, THE CEILINGS FOR OFFICE AREAS AND CORRIDORS, 1ST TO NINTH FLOOR AREAS COMPRISED OF SUSPENDED CEILING TILES WITH SOME VARIATION IN SIZES. IN SUCH AREAS, THE TILES ARE TO BE CAREFULLY REMOVED AND REINSTATED BY THE FIRE ALARM CONTRACTOR AS REQUIRED TO CARRY OUT THE INSTALLATION WORK. IN AREAS SUCH AS THE WASHROOMS, AND 6TH FLOOR OPERATIONS CENTRE, THE CEILINGS ARE COMPRISED OF DRYWALL/GYPSUM. THE GENERAL CONTRACTOR SHALL UNDERTAKE THE REMOVAL AND REPLACEMENT OF DRYWALL AS NEEDED FOR THE SUBTRADES TO CARRY OUT THE INSTALLATION. FINISHES ARE TO MATCH THE ORIGINAL OR OWNER APPROVED ALTERNATIVE AND ARE TO BE PAINTED TO THE NEAREST EDGE OR TRANSITION.

DRAWING NOTES/KEY NOTES

- (01) EXISTING ELEVATOR MONITORING MODULES IDENTIFIED AS FOLLOWS:
- ALARM
 - ALTERNATE
 - MECHANIC ROOM SMOKE
 - PIT HEAT
 - TOP OF SHAFT HEAT
- ASSOCIATED SEQUENCE OF OPERATIONS TO BE RECREATED ON NEW FIRE ALARM SYSTEM.
- (02) TOP OF STAIR SMOKE DETECTOR.
- (03) TOP OF SHAFT HEAT DETECTOR.

LEGEND

SYMBOL	
D	EXISTING DEVICE TO BE DELETED
E	EXISTING DEVICE TO REMAIN
A	NEW DEVICE TO BE ADDED
	MANUAL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER STROBE - CEILING MOUNTED
	HORN - WALL MOUNTED
	HORN/STROBE - WALL MOUNTED
	VISUAL SIGNAL DEVICE - CEILING MOUNTED
	VISUAL SIGNAL DEVICE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	COLOUR GRAPHIC WORKSTATION
	TRANSPONDER
	ISOLATOR
	END OF LINE RESISTOR
	ADDRESSABLE MODULE
	SPECIAL SUPPRESSION RELEASE PANEL
	SPECIAL SUPPRESSION MANUAL PULL STATION
	SUPERVISED VALVE/TAMPER SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE PUMP
	JOCKEY PUMP
	EMERGENCY TELEPHONE
	ADDRESSABLE RELAY
	DEMARICATION BOX
	REMOTE MONITORING SIGNAL TRANSMITTER
	LINEAR HEAT DETECTION CABLE (LHDC)
	LINEAR HEAT TEST BOX



5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-06-19	ISSUED FOR 100% REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



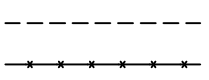


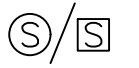





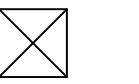

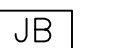



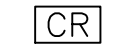





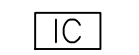





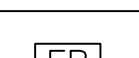

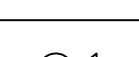
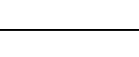
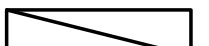
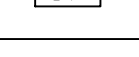
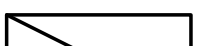
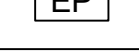



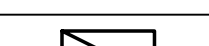
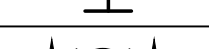
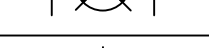
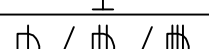


Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
**MECHANICAL PENTHOUSE
FIRE ALARM DEMOLITION**

DESIGN TDH	DATE 2024-08-13	SCALE
DRAWN TDH	PROJECT NO. 230231500	As Shown
CHECKED MJJ	DRAWING NO.	VERSION
APPROVED MJJ	D-10	----

LEGEND - ELECTRICAL			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
DRAFTING		FIRE ALARM	
	EXISTING CONDUIT/WIRING AND/OR CABLE OR EQUIPMENT, TO REMAIN		SMOKE DETECTOR AND DUCT SMOKE DETECTOR
	EXISTING CONDUIT/WIRING AND/OR CABLE OR EQUIPMENT, TO BE REMOVED/RELOCATED		MANUAL FIRE ALARM PULL STATION
	NEW CONDUIT/WIRING AND/OR CABLE OR EQUIPMENT		FIRE ALARM SPEAKER, CEILING MOUNTED
POWER			FIRE ALARM CONTROL PANEL
	RECEPTACLE AND/OR LIGHTING PANEL BOARD		FIRE ALARM ANNUNCIATOR PANEL
	POWER DISTRIBUTION PANEL BOARD		FIRE ALARM CONNECTIONS
	POWER DISTRIBUTION TRANSFORMER		GRAPHIC WORKSTATION
	JUNCTION BOX	SECURITY/ACCESS CONTROL	
	GENERAL 15A DUPLEX RECEPTACLE (SP DENOTES SPLIT-CIRCUIT RECEPTACLE)		ELECTRIC DOOR TRIM
	GENERAL 15A DUPLEX RECEPTACLE, MOUNTED COUNTER/TELEVISION HEIGHT		CARD/FOB READER
	SPECIALTY RECEPTACLE, AS LABELED ON DRAWING		REQUEST-TO-EXIT MOTION DETECTOR, WALL-MOUNTED ABOVE DOOR
	15A DUPLEX GCFI RECEPTACLE		AUTO-DOOR OPERATOR (BARRIER-FREE BUTTON)
	15A DUPLEX GCFI RECEPTACLE, MOUNTED COUNTER/TELEVISION HEIGHT		INTERCOM
	120V SINGLE-PHASE DIRECT CONNECTION TO EQUIPMENT		WASHROOM DOOR-LOCK PUSH-BUTTON
	208V SINGLE-PHASE DIRECT CONNECTION TO EQUIPMENT		LIT OCCUPIED SIGN FOR WASHROOM
	208V THREE-PHASE DIRECT CONNECTION TO EQUIPMENT		EMERGENCY "PANIC" BUTTON
	600V THREE-PHASE DIRECT CONNECTION TO EQUIPMENT		CEILING/WALL MOUNTED FIXED SECURITY CAMERA
LIGHTING			SECURITY PANEL/BOX (REFER TO NOTES)
	1X4 LED LUMINAIRE		ELEVATOR PHONE
	2X4 LED LUMINAIRE		ELEVATOR KEYSWITCH
	2X2 LED LUMINAIRE		MAGLOCK KEYSWITCH
	WALL-MOUNTED LED VANITY LUMINAIRE, INSTALLED ABOVE BATHROOM MIRROR	ABBREVIATIONS	
	EXIT SIGN - CEILING MOUNTED	"RE"	DENOTES EXISTING EQUIPMENT, RELOCATED TO NEW LOCATION
	WALL-MOUNTED LIGHT SWITCH	"RR"	DENOTES EXISTING EQUIPMENT, TO BE RELOCATED
	1/2/3 GANG DIMMER SWITCH/BANKS	"N"	DENOTES NEW EQUIPMENT
	CEILING OCCUPANCY SENSOR	"EM"	DENOTES EQUIPMENT THAT IS TO BE CONNECTED TO EMERGENCY POWER.
(NOT ALL LEGEND AND SYMBOLS MAY APPLY TO THIS PROJECT)		"GFCI"	DENOTES NEW RECEPTACLE WITH INTEGRATED GFCI TRIP UNIT
		"WP"	DENOTES WEATHER PROOF
		"E"	DENOTES EXISTING EQUIPMENT, TO REMAIN
		"HK"	DENOTES HOUSE KEEPING

GENERAL NOTES

- PATCH AND SEAL ALL CONDUIT AND OTHER PENETRATIONS THROUGH WALLS, CEILINGS, AND OTHER PARTITIONS. MAINTAIN ALL FIRE-RATED SEPARATIONS, WITH FIRESTOP.
- PROVIDE UPDATED TYPE-WRITTEN PANEL DIRECTORIES FOR ALL PANELS IMPACTED BY THIS SCOPE OF WORK.
- FOR MECHANICAL EQUIPMENT DISCONNECTION AND REMOVAL, REMOVE ALL POWER AND CONTROL WIRING AND CONDUIT BACK TO SOURCE PANEL/CONTROLLER.
- MAINTAIN ALL OTHER SYSTEMS, SERVICES, WIRING, CONDUIT, AND DEVICES THAT ARE NOT RELATED TO THE SCOPE OF WORK AND/OR OUTSIDE OF THE CONSTRUCTION. IF ANY OF THESE ARE DISTURBED DURING CONSTRUCTION, COORDINATE WITH THE CLIENT AND REINSTATE THEM. CONTRACTOR TO ADVISE CLIENT OF IMPACTED SYSTEMS AND RECEIVE APPROVAL TO PROCEED PRIOR TO COMMENCING THIS WORK.

ELECTRICAL SPECIFICATIONS

GENERAL

- EXAMINE THE SITE CONDITIONS CAREFULLY AND THE SCOPE OF PROPOSED WORK TOGETHER WITH THE WORK OF ALL OTHER TRADES AND INCLUDE IN THE BID PRICE ALL COSTS FOR WORK SUCH AS EQUIPMENT AND WIRING. MADE NECESSARY TO ACCOMMODATE THE ELECTRICAL SYSTEMS SHOWN AND SYSTEMS OF OTHER TRADES.
- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- PERFORM DETAILED VERIFICATION OF WORK PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND COMMENCING CONSTRUCTION. VERIFY EQUIPMENT DIMENSIONS WITH THE VENDOR AND ENSURE THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. ISSUE A WRITTEN NOTICE TO THE ENGINEER OF ANY DISCREPANCIES.
- OBTAIN ALL PERMITS, PAY ASSOCIATED FEES AND SCHEDULE INSPECTION.
- SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. INDICATE DETAILS OF CONSTRUCTION, DIMENSIONS, CAPACITIES, WEIGHTS AND ELECTRICAL PERFORMANCE CHARACTERISTICS OF EQUIPMENT OR MATERIAL. WHERE APPLICABLE INCLUDE WIRING AND SINGLE LINE DIAGRAMS. ADVERTISING OR SALES LITERATURE WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INSURANCE AND SERVICES TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND PRESENT IT AS FULLY OPERATIONAL TO THE SATISFACTION OF THE OWNER.
- CARRY OUT WORK IN ACCORDANCE WITH ALL APPLICABLE CODES STANDARDS, ORDINANCES AND HEALTH & SAFETY RULES.
- COORDINATE THE WORK PERTAINING TO POWER, GROUNDING AND COMMUNICATIONS FOR EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN. FINAL TERMINATIONS TO BE AT THE DIRECTION OF THE EQUIPMENT SUPPLIER.
- PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL WORK. ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE BY REASON OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A QUALIFIED TRADESPERSON EXPERIENCED IN SUCH WORK. PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE. DO NOT CUT STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE CONSTRUCTION MANAGER. PENETRATIONS THROUGH THE ROOF ARE NOT ALLOWED UNLESS AS NOTED.
- CORE DRILLING THROUGH WALLS AND FLOORS FOR CONDUIT AND CABLE INSTALLATION IS TO BE PROVIDED BY THE GENERAL CONTRACTOR AT LOCATIONS DETERMINED BY THE STRUCTURAL ENGINEER. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF CONDUITS AND CABLES THROUGH WALLS AND FLOORS.
- WHERE CABLES OR CONDUITS PASS THROUGH FIRE RATED WALLS, SEAL CORE DRILLED OPENINGS AROUND CONDUITS OR CABLES USING UL LISTED FIRE-STOPPING SEALANT.
- PROVIDE TEMPORARY LIGHTING, POWER, HEAT, TELEPHONE AND OTHER ELECTRICAL SERVICES DURING CONSTRUCTION. INCLUDE ALL COSTS FOR TEMPORARY SERVICES IN THE BID PRICE.
- FABRICATION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN A FIRST CLASS WORKMANSHIP BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK AND SHALL SCHEDULE THE WORK IN AN ORDERLY MANNER SO AS NOT TO IMPEDE PROGRESS OF THE PROJECT.
- DURING PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF THE ELECTRICAL SYSTEMS, LOCATING EACH CIRCUIT PRECISELY AND DIMENSIONING EQUIPMENT, CONDUIT AND CABLE LOCATIONS. UPON COMPLETION OF THE INSTALLATION, TRANSFER ALL RECORD DATA TO BLACK LINE PRINTS OF THE ORIGINAL DRAWINGS AND SUBMIT THESE DRAWINGS AS RECORD DRAWINGS TO THE ENGINEER.
- AT THE COMPLETION OF THE PROJECT PROVIDE SOFT COPIES OF OPERATION AND MAINTENANCE MANUALS, DULY LABELED, AND CONTAINING COMPLETE LIST OF REPLACEMENT PARTS, SHOP DRAWINGS AND CATALOG INFORMATION OF ALL MAJOR EQUIPMENT, SUCH AS, DISTRIBUTION BOARDS, GENERATORS, ATS, MTS, LUMINAIRES, PANEL BOARDS, PANEL SCHEDULE, MOTOR STARTERS, SECURITY SYSTEM, CABLE RACKS, ETC. WHERE APPLICABLE.
- COMPLETE INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF WRITTEN ACCEPTANCE OF THE PROJECT COMPLETION BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM ELECTRICAL CONSTRUCTION

BASIC MATERIALS AND METHODS

- INSTALLATION, MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LOCAL ELECTRICAL CODE AND THE TERMS, CONDITIONS AND REGULATIONS OF THE AUTHORITY HAVING LAWFUL JURISDICTION PERTAINING TO THE WORK REQUIRED. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL CONFORM TO THE APPLICABLE CSA AND ULC STANDARDS.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW. MATERIALS AND EQUIPMENT SHALL BE THE STANDARD PRODUCTS OF MANUFACTURER'S CURRENT DESIGN. ANY FIRST-CLASS PRODUCT MADE BY A REPUTABLE MANUFACTURER MAY BE USED, PROVIDED IT CONFORMS TO THE CONTRACT REQUIREMENTS AND MEETS THE APPROVAL OF THE ENGINEER AND THE OWNER. APPROVALS SHALL BE OBTAINED PRIOR TO PURCHASE.
- ARRANGE CONDUIT, WIRING, EQUIPMENT, AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLEARANCES AND ACCESS. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND FIT THE WORK IN EACH LOCATION WITHOUT SUBSTANTIAL ALTERATION. WHERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE. THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES IN LOCATION OF EQUIPMENT, CONDUIT, AND WIRING UP TO THE TIME OF ROUGH-IN OR FABRICATION.
- THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL BE VERIFIED WITH THE OWNER PRIOR TO INSTALLATION.

DRAWING LIST

DWG. NO.	DESCRIPTION
E-00	GENERAL NOTES, LEGENDS, DRAWING LIST, AND SPECIFICATIONS
E-01	GROUND FLOOR - ELECTRICAL & LIGHTING PLAN, AND PANEL SCHEDULE

CONDUCTORS AND CONNECTORS

- UNLESS NOTED OTHERWISE, ALL CONDUCTORS SHALL BE COPPER, MINIMUM SIZE #12 AWG, WITH THERMOPLASTIC OR CROSS-LINKED POLYETHYLENE INSULATION CONFORMING TO THE APPLICABLE LOCAL ELECTRICAL CODE. INSULATION SHALL BE RATED FOR 90°C. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE LOCAL ELECTRICAL CODE.
- UNLESS NOTED OTHERWISE, ALL CONDUCTORS USED FOR GROUNDING SHALL BE COPPER AND SHALL HAVE GREEN INSULATION.
- CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES. SPLICES ARE NOT ACCEPTABLE. IF SPLICES ARE UNAVOIDABLE PRIOR APPROVAL FROM THE ENGINEER MUST BE OBTAINED.
- CONDUCTORS IN ACCESSIBLE SUSPENDED CEILING SPACES, IN STUD WALL CONSTRUCTION TO SUSPENDED CEILING SPACES MAY BE BX TYPE AC-90 FLEXIBLE ARMoured CABLE WITH RW-90 CONDUCTORS AND BARE COPPER GROUND CONDUCTOR TO CSA C22.2 NO.51, MAXIMUM 6'-0" RUN PERMITTED. PROVIDE PROPER SQUEEZE TYPE CONNECTORS AND PLASTIC ANTI-SHORT BUSHING AT TERMINATIONS. SUPPORT 'BX' IN CEILING SPACES AND IN STUD WALL CONSTRUCTION WITH STEEL 2 HOLE CABLE STRAPS TO CODE REQUIREMENTS.

RACEWAYS, CABLE RACKS AND BOXES

- ALL CONDUIT SHALL BE CSA APPROVED AND ULC LABELED.
- INTERIOR CONDUIT TO BE EMT (THINWALL) GALVANIZED, ELECTRICAL METALLIC TUBING C/W FACTORY MADE BENDS WHERE SITE BENDING IS NOT POSSIBLE, AND JOINTS AND TERMINATIONS MADE WITH SET SCREW TYPE CONNECTORS; FOR SHORT BRANCH CIRCUIT CONNECTORS TO MOTORIZED EQUIPMENT AND TRANSFORMERS (MINIMUM LENGTH 18" (450mm), MAXIMUM LENGTH 24" (600mm) WITH 180 DEGREE LOOP WHERE POSSIBLE); GALVANIZED STEEL FLEXIBLE FLUID-TIGHT METALLIC CONDUIT C/W IDEAL 'STEEL TOUGH' LIQUID TIGHT FLEXIBLE CONDUIT CONNECTORS AT TERMINATIONS. FOR EXTERIOR EXPOSED CONDUITS AND FOR INTERIOR CONDUITS GREATER THAN 2" (53mm) DIAMETER AND FOR SURFACE MOUNTED CONDUIT AT HEIGHT LESS THAN 4' (1200mm), PROVIDE RIGID GALVANIZED STEEL C/W FITTINGS, CONNECTORS AND RIGID COUPLINGS.
- DO NOT INSTALL CONDUITS AND/OR CONDUCTORS WITHIN 150mm OF HOT PIPES OR EQUIPMENT UNLESS CONDUITS OR CONDUCTORS ARE ASSOCIATED WITH EQUIPMENT.
- INDEPENDENTLY RUN CONDUIT AND CONDUCTORS MUST BE SUPPORTED FROM CEILING STRUCTURE, NOT FROM CEILING HANGERS/DUCTWORK, PIPING, CABLE TRAY, ETC.
- CONDUIT INSIDE BUILDING IN AREAS WHERE SAFE FROM MECHANICAL DAMAGE AND WHERE CONCEALED IN DRY-WALL, METAL FLASHING ETC. SHALL BE EMT. CONDUIT IN HIGH TRAFFIC AREA, IN AREAS OF RISK OF PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL.
- ALL EMT CONDUIT INSTALLED FOR FUTURE INSTALLATION OF WIRES AND CABLES SHALL HAVE A PULL CORD. PULL CORD SHALL BE LABELED AT BOTH ENDS FOR EASY IDENTIFICATION.
- WIREWAYS SHALL BE MADE OF SHEET METAL. INCLUDE COUPLING, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLDDOWN STRAPS, END CAPS AND OTHER FITTINGS TO MATCH AND MATE WITH WIRE WAYS AS REQUIRED FOR COMPLETE SYSTEM. MANUFACTURERS: HOFFMANN ENGINEERING, KEYSTONE/RESS, SQUARE-D OR APPROVED EQUAL.

RECEPTACLES:

- HUBBELL CANADA INC., NO. HBL5262 / HBL5362 CSA APPROVED, ULC LISTED, EXTRA HEAVY DUTY, SPECIFICATION GRADE, BACK AND SIDE WIRED, FLUSH, NYLON FACE/BODY CONSTRUCTION, DUPLEX U-GROUND, 15/20 AMPERE, 125 V, 2-POLE, 3-WIRE GROUNDING RECEPTACLES COMPLETE WITH ONE PIECE NICKEL-PLATED BRASS MOUNTING STRIP WITH INTEGRAL GROUNDING CLIPS, GROUND RETENTION CLIPS, NICKEL-PLATED BRASS WIRING CLAMPS WITH NICKEL-PLATED BRASS SCREWS, FRONT CIRCUIT IDENTIFICATION AREA AND REINFORCED THERMOPLASTIC BASE.

GROUNDING

- PROVIDE COMPLETE SYSTEM GROUNDING HCI COMPLIES WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR ELECTRICAL WORK, INCLUDING REQUIRED GROUNDING SECTIONS OF DESC. CONNECT GROUNDING CONDUCTORS TO EXISTING BUILDING GROUND SYSTEM. PROVIDE SEPARATE INSULATED GROUND WIRE FOR EACH ISOLATED GROUND CIRCUIT. BURIED OR IN SLAB CONNECTIONS SHALL BE MADE WITH ERICO CADWELD TYPE WELDED COPPER CONNECTIONS OR BURNDY HYGROUND COMPRESSION CONNECTORS.

GENERAL ELECTRICAL WORK TESTING

- IN ADDITION TO TESTS REQUIRED BY GOVERNING AUTHORITIES AND REGULATIONS, TEST WORK TO ENSURE THERE ARE NO GROUNDS OR CROSSES. ENSURE DEVICES ARE COMMISSIONED AND OPERABLE. CONNECT CIRCUITS TO PANELBOARDS SO AS TO BALANCE ACTUAL LOADS (WATTAGE) WITHIN 5%. IF REQUIRED, TRANSPOSE CIRCUITS WHEN WORK IS COMPLETE TO MEET THIS REQUIREMENT

CIRCUIT BREAKERS FOR EXISTING PANELBOARDS:

- PROVIDE BREAKERS IN EXISTING PANELBOARDS OF TYPE TO MATCH EXISTING DEVICES, QUALITY AND STANDARDS OF BREAKERS SHALL MATCH EXISTING. CONFIRM REQUIREMENTS ON SITE PRIOR TO ORDERING. PROVIDE FOR ALL MODIFICATIONS TO PANELBOARDS FOR BREAKERS AND FEEDER INSTALLATIONS. PROVIDE REPLACEMENT BRANCH CIRCUIT DIRECTORY CARDS, NEATLY TYPEWRITTEN TO INCORPORATE ADDITIONAL AND EXISTING CONNECTED LOADS. DIRECTORIES SHALL USE OWNER ACTUAL ROOM NAMES, NUMBERS. PROVIDE ENGRAVED LAMACOID I.D. NAMEPLATES FOR ANY NEW DISTRIBUTION PANELBOARDS, TO CONSULTANT'S DIRECTIONS

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-05-03	ISSUED FOR 100% DESIGN REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

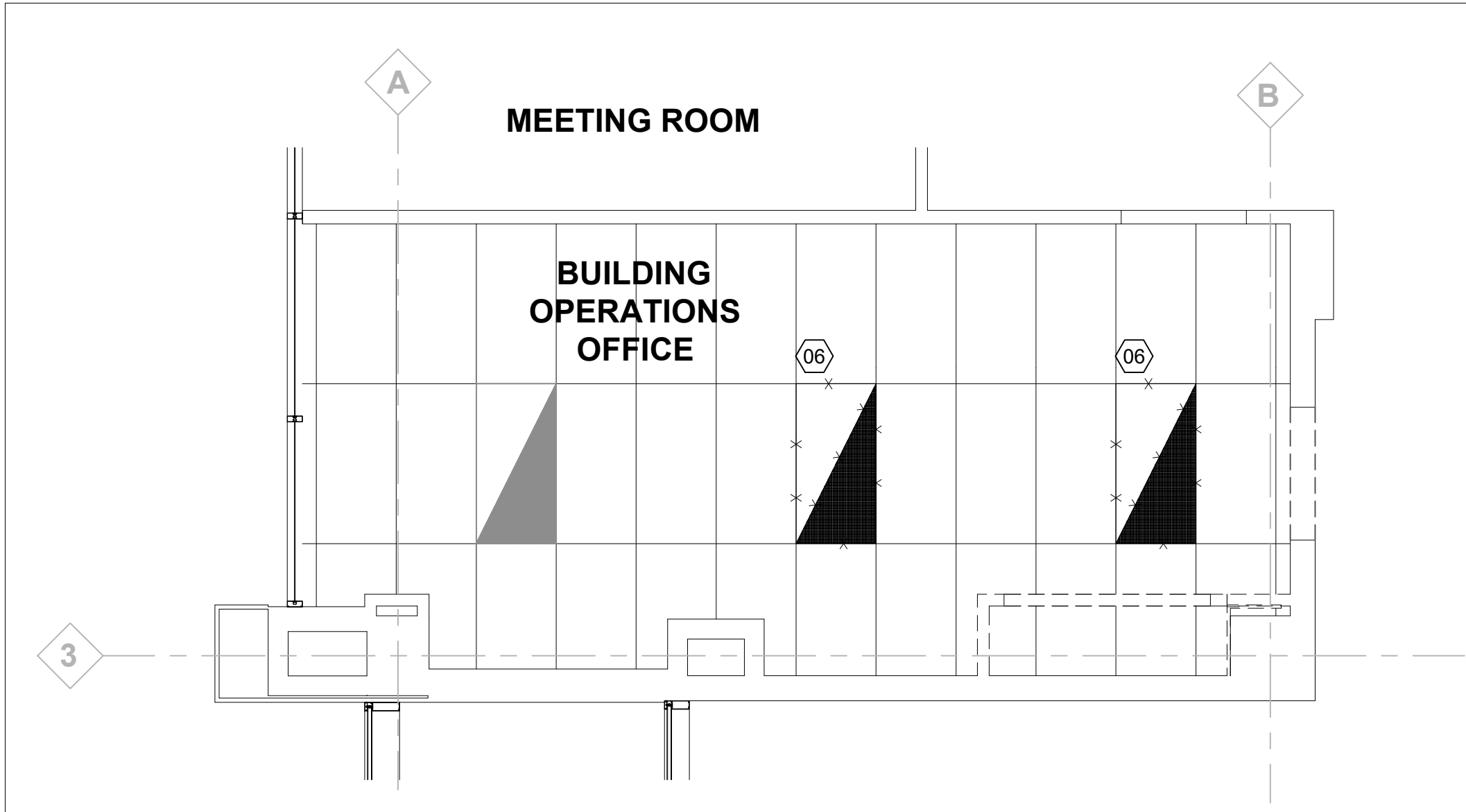
PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

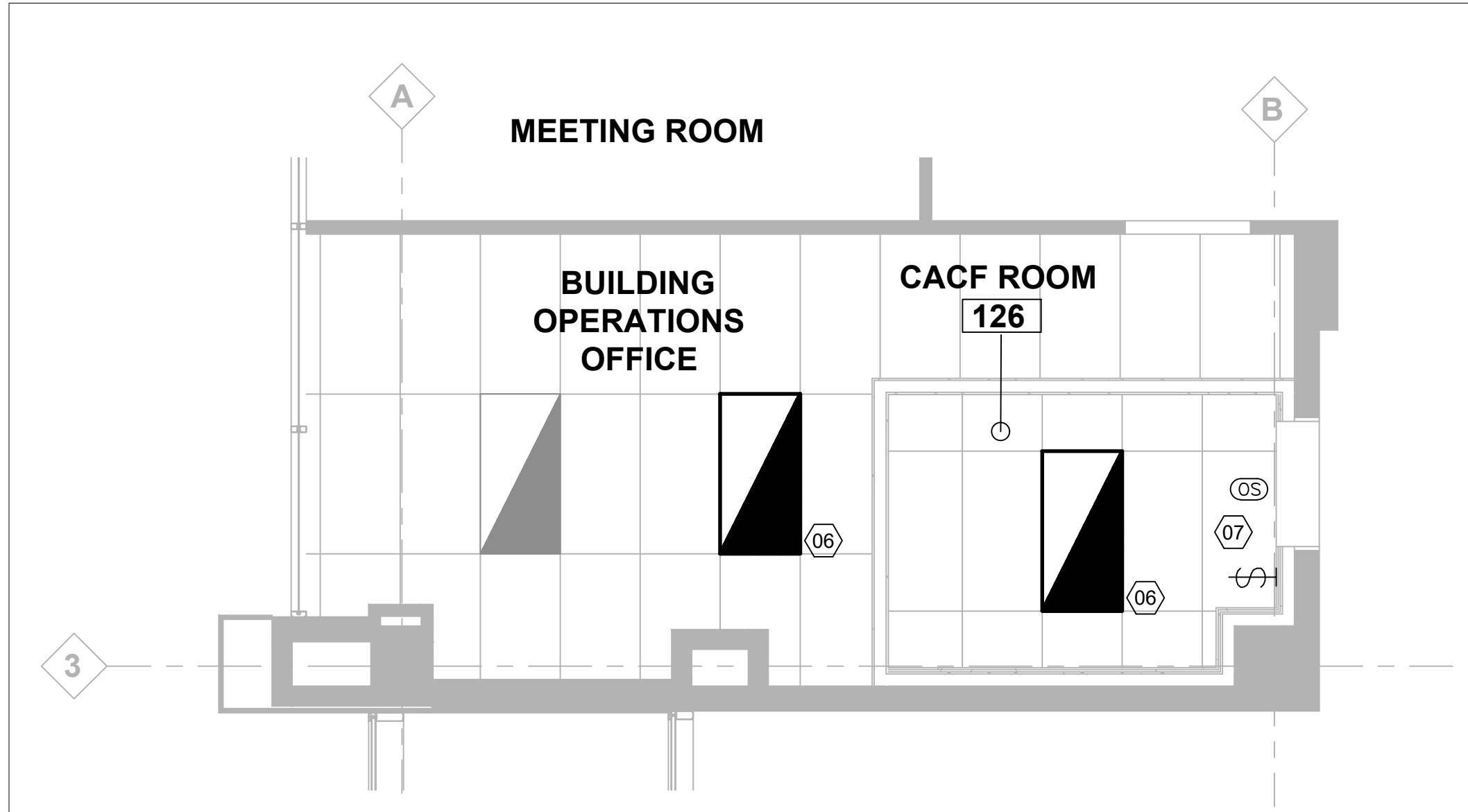
DRAWING

GENERAL NOTES, LEGENDS, DRAWING LIST, AND SPECIFICATIONS

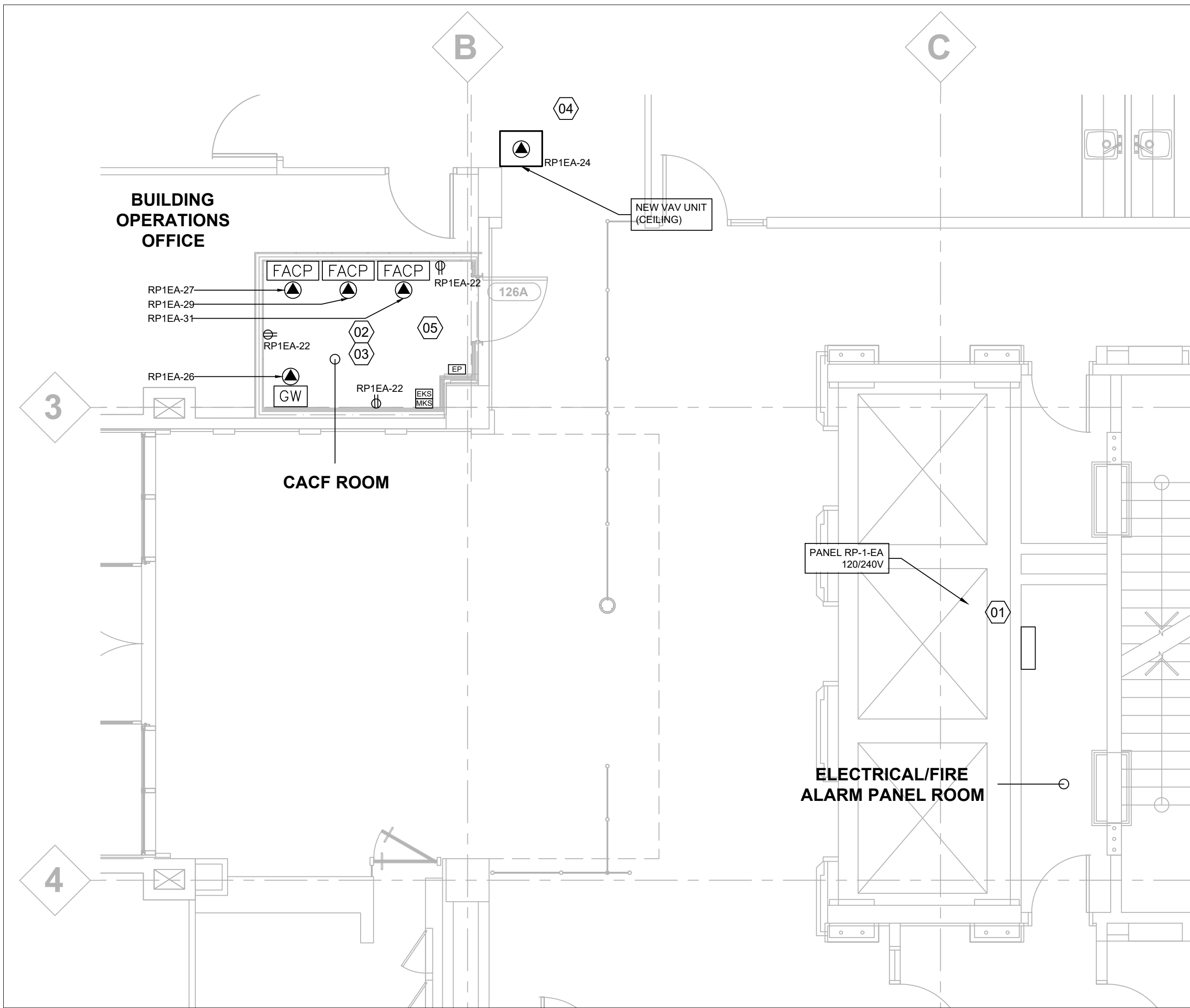
DESIGN AT	DATE 2024-03-08	SCALE
DRAWN AT	PROJECT NO. 230231500	As Shown
CHECKED SG	DRAWING NO	VERSION
APPROVED ---	E-01	3



E-02
02
GROUND FLOOR PART PLAN - LIGHTING - DEMOLITION
1:40



E-02
03
GROUND FLOOR PART PLAN - LIGHTING - NEW WORK
1:40



E-02
01
GROUND FLOOR PART PLAN - ELECTRICAL - NEW WORK
1:50

EXISTING PANEL RP-1-EA			TYPE: PANELBOARD		LOCATION: GROUND FLOOR ELEC ROOM			
RATINGS: 225A, 120/240V, 3Ø, 4W KAIC: 10 kA			MOUNTING: SURFACE					
NOTES	LOAD DESCRIPTION	BREAKER SIZE	CCT#	PHASE	CCT#	BREAKER SIZE	LOAD DESCRIPTION	NOTES
	EXISTING		1		2		EXISTING	
	EXISTING		3		4		EXISTING	
	EXISTING		5		6		EXISTING	
	EXISTING		7		8		EXISTING	
	EXISTING		9		10		EXISTING	
	EXISTING		11		12		EXISTING	
	EXISTING		13		14		EXISTING	
	EXISTING		15		16		EXISTING	
	EXISTING		17		18		EXISTING	
	EXISTING		19		20		EXISTING	
	EXISTING		21		22	15A,1P	REC. ROOM 126A (CACF)	02
	EXISTING		23		24	15A,1P	VAV DUCT AIR UNIT	04
	EXISTING		25		26	15A,1P	GRAPHICS WORKSTATION	03
03	FA PANEL ROOM 126A (CACF)	15A,1P	27		28		EXISTING	
03	FA PANEL ROOM 126A (CACF)	15A,1P	29		30		EXISTING	
03	FA PANEL ROOM 126A (CACF)	15A,1P	31		32		EXISTING	
	EXISTING		33		34		EXISTING	
	EXISTING		35		36		EXISTING	
	EXISTING		37		38		EXISTING	
	EXISTING		39		40		EXISTING	
	EXISTING		41		42		EXISTING	

E-02
04
PANEL RP-1-EA SCHEDULE
N.T.S.

GENERAL NOTES

1. EXACT NUMBER OF FIRE ALARM CABINETS MAY VARY DEPENDING ON THE MANUFACTURE, TO BE DETERMINED FOLLOWING TENDER. THE FIRE ALARM CABINETS ARE SHOWN SCHEMATICALLY FOR COORDINATION PURPOSES ON THIS DRAWING. CONTRACT SHALL UPDATE AS-BUILTS BASED ON FINAL QUANTITIES AND LOCATIONS.

DRAWING NOTES

- 01 RUN FEEDERS FROM EXISTING 120/208V PANEL RP-1-EA WITHIN ELECTRICAL/FIRE ALARM PANEL ROOM TO CACF ROOM FOR ALL NEW RECEPTACLES, FIRE ALARM CONTROL PANELS, GRAPHIC WORKSTATION, AND VAV UNIT. EXACT ROUTING SHALL BE DETERMINED ON JOB SITE WITH COORDINATION WITH ARCHITECTURAL.
- 02 SUPPLY AND INSTALL NEW 15A, 120V DUPLEX RECEPTACLES AS PER 01/E-02 DRAWING. RE-USE 15A, 1P CIRCUIT BREAKER CCT. 22 WITHIN PANEL RP-1-EA LOCATED IN ELECTRICAL/FIRE ALARM PANEL ROOM FOR NEW RECEPTACLES. REFER TO PANEL SCHEDULE DETAIL 04/E-02.
- 03 RE-USE 15A, 1P CIRCUIT BREAKERS CCT. 26, 27, 29, AND 31 WITHIN PANEL RP-1-EA LOCATED IN ELECTRICAL/FIRE ALARM PANEL ROOM FOR NEW GRAPHICS WORKSTATION AND FIRE ALARM CONTROL PANELS AS PER 01/E-02 DRAWING. REFER TO PANEL SCHEDULE DETAIL 04/E-02.
- 04 RE-USE 15A, 1P CIRCUIT BREAKER CCT. 24 WITHIN PANEL RP-1-EA LOCATED IN ELECTRICAL/FIRE ALARM PANEL ROOM FOR NEW VAV DUCT AIR UNIT AS PER DRAWING 01/E-02. COORDINATE WORK WITH MECHANICAL CONTRACTORS. REFER TO PANEL SCHEDULE DETAIL 04/E-02.
- 05 RELOCATE ELEVATOR PHONE, ELEVATOR KEYSWITCH, AND MAGLOCK KEYSWITCH TO NEW LOCATION AS PER 01/E-02 DRAWING. ELECTRICAL CONTRACTOR TO EXTEND WIRING TO NEW LOCATION OF FIRE ALARM EQUIPMENT.
- 06 REMOVE EXISTING LIGHT FIXTURES AS PER 02/E01 DRAWING. RE-INSTALL LIGHT FIXTURES TO NEW LOCATIONS AS PER 03/E02 DRAWING. RE-TIE FIXTURES TO EXISTING CIRCUITS.
- 07 SUPPLY AND INSTALL NEW OCCUPANCY SENSOR WITH MANUAL OVERRIDE LIGHT SWITCH FOR LIGHT FIXTURE IN CACF ROOM. OCCUPANCY SENSOR TO BE DUAL TECHNOLOGY, LINE VOLTAGE, CEILING MOUNTED WITH FIELD OF VIEW, COVERAGE UP TO 8 M (26FT) AND AREA OF 92.9 SQM (1000 SQF), AND WHITE FINISH, AS APPROVED BY LUTRON OR WATTSTOPPER.

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-05-03	ISSUED FOR 100% DESIGN REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
GROUND FLOOR ELECTRICAL & LIGHTING PLAN, AND PANEL SCHEDULE

DESIGN AT	DATE 2024-05-03	SCALE
DRAWN AT	PROJECT NO. 230231500	As Shown
CHECKED SG	DRAWING NO.	VERSION
APPROVED ---	E-02	3

HVAC	
SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT
	RETURN/EXHAUST AIR DUCT
	CEILING DIFFUSER
	RELOCATED/TO BE RELOCATED CEILING DIFFUSER
	RETURN/EXHAUST AIR GRILLE
	RELOCATED/TO BE RELOCATED RETURN AIR GRILLE
	VAV BOX
	VAV W/ REHEAT
	VAV W/ ATTENUATOR
	VAV W/ ATTENUATOR REHEAT
	LINEAR DIFFUSER
	FLEXIBLE CONNECTION
	BALANCING DAMPER
	BACKDRAFT DAMPER
	MOTORIZED DAMPER (ELEC.)
	FIRE DAMPER (CURTAIN TYPE)
	WALL FIN RADIATION UNIT
	CENTRIFUGAL FAN
	UNIT HEATER
	AXIAL FAN
	EXHAUST FAN (WALL PROPELLER TYPE)
	DOOR GRILLE
	ACCESS DOOR
	UNDER CUT - DOOR
	HEATING ELEMENT
	DIFFUSER TAG
	EXISTING DIFFUSER TAG
	WALLFIN
	VAV BOX R-REHEAT
	TURNING VANES
	ACOUSTIC LINING
	SNOW MELTING MANIFOLD
	FLOOR HEATING MANIFOLD
	ZONE OF FLOOR HEATING MANIFOLD
	ZONE OF SNOW MELTING MANIFOLD
	SMOKE DAMPER
	SMOKE/FIRE DAMPER
	TRANSFER DUCT
	REHEAT COIL
	SILENCER
	EQUIPMENT TAG FOR VAV BOXES, REHEAT COIL, UNIT HEATERS ETC.
	HEAT TRACING
	INSULATION
	REVISION NUMBER

CONTROLS	
SYMBOL	DESCRIPTION
	THERMOSTAT
	PNEUMATIC THERMOSTAT
	HUMIDISTAT
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	HYDROGEN SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	PRESSURE SENSOR
	CONTACT SENSOR
	HYDROCARBON SENSOR
	FLOW SWITCH
	VARIABLE FREQUENCY DRIVE (VFD)
	DISCONNECT SWITCH
	COMBINATION STARTER / DISCONNECT
	DIFFUSION TYPE CARBON MONOXIDE DETECTION SYSTEM
	DIFFUSION TYPE NITROUS OXIDE DETECTION SYSTEM
	FILTER REGULATOR AND LUBRICATOR

COMMON ABBREVIATION	
SYMBOL	DESCRIPTION
CTE	CONNECT TO EXISTING
AFF	ABOVE FINISHED FLOOR
TYP	TYPICAL
FA	FROM ABOVE
FB	FROM BELOW
TA	TO ABOVE
TB	TO BELOW
A/C	AIR CONDITIONING UNIT
CU	CONDENSER UNIT
EF	EXHAUST FAN
L/S	LITRES PER SECOND
CFM	CUBIC FEET PER MINUTE
FFL	FINISHED FLOOR LEVEL
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC.
NPS	NOMINAL PIPE SIZE
N.I.C	NOT IN CONTRACT
N.C	NORMALLY CLOSED
CR	CONVECTION RADIATOR
RSR	RUBBER STEEL RUBBER VIBRATION ISOLATION PAD
TBD	TO BE DETERMINED
FPHB	FREEZE PROOF HOSE BIBB
U.N	UNLESS NOTED
H.B.	HOSE BIBB
SH	SPRING HANGER
VTR	VENT THROUGH ROOF

GENERAL NOTES:

- ALL CUTTING AND PATCHING RELATED TO THIS CONTRACT SCOPE OF WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR, WHERE DRYWALL CEILINGS MUST BE PARTIALLY OR COMPLETELY REMOVED TO ACCOMMODATE THE WORKS THIS CONTRACTOR SHALL PATCH TO MATCH EXISTING AND PAINT THE ENTIRE CEILING OF THE PARTICULAR SPACE. EXISTING OPENINGS IN WALLS THAT MIGHT BE RE-USED TO ACCOMMODATE NEW ITEMS (FIRE DAMPERS) SHALL BE MODIFIED (FILL OR EXPANDED) AS APPLICABLE. ALL OPENINGS CREATED BY THIS CONTRACT DEMOLITION WORK THAT WILL NOT BE RE-USED SHALL BE PATCHED TO MATCH EXISTING.
- ALL EXISTING SERVICES (PIPING, DUCTWORK, ETC.) SHOWN ON THESE DRAWINGS HAVE BEEN TAKEN FROM AVAILABLE INFORMATION (BASE BUILDING DRAWINGS) AND RANDOM SITE INVESTIGATIONS. NOT ALL SERVICES ARE SHOWN NOR CAN THEIR LOCATION BE GUARANTEED FOR PRECISE ACCURACY. CONTRACTOR SHALL THEREFORE VISIT SITE BEFORE SUBMITTING A BID OR COMMENCING WORK AND SATISFY HIMSELF/HERSELF THAT ALL WORK SHOWN AND/OR SPECIFIED CAN BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FULL INTERFERENCE DRAWINGS FOR EACH PHASE OF THE WORK BEFORE COMMENCING.
- CONTRACTOR TO DEVELOP & SUBMIT IN WRITING A DETAILED METHOD OF PROCEDURE (MOP) PROPOSED TO BE FOLLOWED BY HIM TO COMPLETE WORK REQUIRING SERVICE(S) SHUT DOWNS CALLED FOR UNDER THIS CONTRACT. MOP SHOULD COVER AT A MINIMUM THE FOLLOWING FOR BOTH LOCAL DEMOLITION ACTIVITIES AND NEW INSTALLATION SEQUENCE OF WORK:
 - TIMELINES FOR ALL ACTIVITIES ASSOCIATED WITH CUTTING/CAPPING EXISTING SERVICES AS WELL AS ACTIVITIES THAT WILL REQUIRE A PLANNED TEMPORARY INTERRUPTION OF EXISTING SERVICES AND EQUIPMENT.
 - PROPOSED DETAILED PLAN FOR EACH INDIVIDUAL SPACE.
- CONTRACTOR SHALL COORDINATE ALL CONNECTIONS TO EXISTING SERVICES AND SHUT-DOWNS WITH UTILITIES INFRASTRUCTURE. CONTRACTOR SHALL CARRY THE COST OF HOT-TAPPING AND/OR FREEZING OF EXISTING SERVICES WHERE TIE-IN IS TO OCCUR.
- CONTRACTOR TO PROVIDE ALL REQUIRED FENCING AND HOARDING. PROVIDE FENCING AND HOARDING PLAN FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.
- MECHANICAL CONTRACTOR TO PROVIDE FIRE DAMPERS AND/OR FIRESTOPPING FOR ALL MECHANICAL PENETRATIONS THROUGH FIRE RATED WALLS. CONTRACTOR TO KEEP UPDATED RECORD OF ALL PENETRATION RATINGS AND LOCATIONS AND ASSOCIATED FIRE STOPPING LISTINGS. LIST TO BE MADE AVAILABLE THROUGHOUT CONSTRUCTION FOR REVIEW BY CITY OR ENGINEER.

SPECIFICATIONS

GENERAL

- SCOPE OF WORK
 - FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS AS WELL AS SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, TESTED AND IN WORKING ORDER, AS SHOWN ON THE DRAWINGS. MAKE GOOD ALL DAMAGES TO CEILINGS, WALLS ETC. CAUSED BY THESE TRADES.
 - COORDINATE WORK AND WORKING HOURS WITH THE OWNER TO MINIMIZE DISRUPTION.
- CODES AND STANDARDS ALL WORK SHALL CONFORM TO THE CURRENT ISSUES OF:
 - THE ONTARIO BUILDING CODE.
 - ONTARIO ELECTRICAL SAFETY CODE.
 - BYLAWS AND REGULATIONS ISSUED BY THE BUILDING AUTHORITY HAVING JURISDICTION.
 - SMACNA STANDARDS.
- SPECIFICATIONS
 - COMPLY WITH THE GENERAL SECTIONS AND APPLICABLE SECTIONS OF THE GENERAL CONTRACT SPECIFICATIONS.
 - IN THE EVENT OF CONFLICT BETWEEN NOTES UNDER THE "GENERAL HEADING" AND DIVISION 1, DIVISION 1 SHALL APPLY.
- PERMITS AND FEES
 - OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS ETC. AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
 - OBTAIN ALL PERMITS BEFORE PROCEEDING WITH WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE SHOULD FAILURE OCCUR.
- SITE CONDITIONS
 - EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY HIDDEN DIFFICULTIES, THESE MUST BE INDICATED AND QUALIFIED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE ENGINEER.
- DRAWINGS
 - DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED ROUTING ONLY.
 - FIELD MEASURE TO CONFIRM ALL DIMENSIONS BEFORE PROCEEDING WITH FABRICATION. DO NOT SCALE DRAWINGS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES.
- GUARANTEE
 - WARRANT ALL LABOR AND MATERIALS INCLUDED IN THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY DIVISION 1. ASSUME FULL RESPONSIBILITY FOR LAYOUT OF ALL WORK AND FOR ANY DAMAGE CAUSED TO OWNER OR OTHERS BY IMPROPER CARRYING OUT OF THE WORK.
- CLEANING
 - LEAVE PREMISES IN CLEAN AND NEAT CONDITION AT TERMINATION OF WORK EACH DAY.
 - DO NOT ACCUMULATE DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY.
- MATERIALS
 - USE ONLY NEW AND CSA CERTIFIED EQUIPMENT AND MATERIALS UNLESS OTHERWISE INDICATED. ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED WITH RESPECT TO STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF INSTALLATION WORK.
- WORKMANSHIP
 - ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED, NOT ONLY IN REGARDS TO SAFETY, EFFICIENCY, DURABILITY, ETC., BUT ALSO IN REGARDS TO THE NEATNESS OF DETAIL. UNLESS SHOWN OTHERWISE, ALL PIPE WORK MUST BE LINED UP PARALLEL TO, OR AT RIGHT ANGLES TO THE BUILDING WALLS. EQUIPMENT MUST BE ACCURATELY SET, PLUMBED, AND LEVELED, AND HANGER RODS MUST BE SIMILARLY IN TRUE VERTICAL ALIGNMENT. IN GENERAL, THE ENTIRE WORK THROUGHOUT SHALL FIRST CLASS AND WORKMANLIKE AND PRESENT A NEAT AND CLEAN APPEARANCE ON COMPLETION.
- SHOP DRAWINGS
 - SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW COVERING ALL RELEVANT DETAILS AND DIMENSIONS. AS A MINIMUM SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT SPECIFIED AND INCLUDED IN EQUIPMENT SCHEDULES.
- AS BUILT DRAWINGS
 - MAINTAIN A RECORD OF ALL REVISIONS. PREPARE RECORD DRAWINGS IN A NEAT MANNER SHOWING ALL DEVIATIONS IN WORK. ON COMPLETION OF WORK, SUBMIT TO THE OWNER ONE COPY OF AS BUILT DRAWINGS.
- OPERATION & MAINTENANCE (O&M) MANUAL
 - SUBMIT O&M MANUALS TO CONSULTANT FOR REVIEW. MANUALS SHALL INCLUDE SHOP DRAWINGS OF ALL NEW EQUIPMENT, TEST AND BALANCE REPORTS, COMMISSIONING REPORTS, WARRANTIES, AND OPERATION AND MAINTENANCE PROCEDURES.
- EXISTING EQUIPMENT AND SYSTEMS
 - DISCONNECT, RECONNECT OR RELOCATE EXISTING EQUIPMENT OR SERVICES WHERE SHOWN OR REQUIRED TO PERMIT NEW WORK TO BE INSTALLED WITHOUT INTERFERENCES. ENSURE THAT REQUIRED SERVICES ARE MAINTAINED. COORDINATE WITH THE OWNER AND OWNERS REPRESENTATIVE BEFORE ANY SERVICES ARE INTERRUPTED. ALSO COORDINATE ALL ROUTING OF NEW SERVICES AS THEY MAY BE ADJUSTED TO ACCOMMODATE EXISTING SERVICES PROVIDING THAT THE INTENT OF THE DRAWINGS IS MET AND THE SAME STANDARDS ARE MAINTAINED. PROVIDE DRAWINGS OF PROPOSED REVISIONS FOR APPROVAL BEFORE BEGINNING ANY WORK.
 - THE CONTRACTOR IS TO TAKE EXTRA CARE DURING THIS INSTALLATION NOT TO DISTURB ANY OPERATIONS. IT IS CRITICAL THAT THERE WILL BE NO UNSCHEDULED SHUTDOWNS OR INTERRUPTIONS OF ANY OPERATIONS. ALL ASSOCIATED COSTS OF SUCH WILL BE PASSED ON TO THE CONTRACTOR.
- OPEN FLAMES AND WELDING
 - NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN PERMISSION BY THE OWNER AND THE CONSULTANT.
- CUTTING, PATCHING AND PAINTING REQUIREMENTS
 - PROVIDE CUTTING PATCHING AND PAINTING FOR ALL OPENINGS. USE QUALIFIED TRADES FOR THIS WORK. RESTORE FINISHES TO MATCH EXISTING. SUPPLY AND INSTALL APPROVED FIRE STOP AS REQUIRED TO MAINTAIN FIRE RATING.
- VENTS THROUGH WALLS SHALL BE BY MECHANICAL CONTRACTOR, INCLUDING ALL PATCHING. ALL RATED WALL OPENINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS REGARDING FIRE STOPPING AND FIRE SEPARATION TO ENSURE CONTINUITY OF FIRE SEPARATIONS. OPENINGS SHALL AT MINIMUM, BE PACKED WITH AN APPROVED FIRE RESISTANT INSULATION AND WITH AN APPROVED FIRE STOP EQUAL TO "DOW CORNING" SILICON SELEANT.

DRAWING LIST	
DWG. NO.	DESCRIPTION
M-01	LEGENDS, DRAWING LIST, GENERAL NOTES & SPECIFICATIONS
M-02	GROUND FLOOR VENTILATION DEMO & NEW WORK

18. WIRING

- POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE INSTALLED BY THE ELECTRICAL DIVISION. ALL STARTERS, CONTROL TRANSFORMERS FOR THEM, SAFETY DISCONNECT FOR FAN COIL, ETC. WHERE REQUIRED, SHALL BE PROVIDED BY THE MECHANICAL DIVISION. ALL LOW VOLTAGE CONTROL WIRING SHALL ALSO BE PROVIDED AND INSTALLED BY THE MECHANICAL DIVISION.
- PROVIDE AND INSTALL NEW SYSTEM COMPONENTS C/W REQUIRED POWER, CONTROLS AND INTERLOCKING.
- DIELECTRIC ISOLATION
 - PROVIDE ISOLATION WHEN USING DISSIMILAR MATERIALS TO PREVENT GALVANIC ACTION.
- FINAL INSPECTION
 - REQUEST IN WRITING FOR A FINAL INSPECTION OF THE MECHANICAL SYSTEMS.
 - WHEN THE REQUEST IS MADE, ALL DEFICIENCIES MUST BE COMPLETE, BALANCING REPORTS SUBMITTED, SYSTEMS READY FOR OPERATION, DATA BOOK SUBMITTED, ALL TAGS, CHARTS AND NAMEPLATES COMPLETED, ALL FIXTURES AND EQUIPMENT CLEANED, SPARE PARTS PROVIDED, RECORD DRAWINGS COMPLETED, CONTROL SYSTEMS OPERATIONAL AND THE OWNER'S STAFF INSTRUCTED IN ALL PHASES OF THE SYSTEM.

21. TESTING AND BALANCING

- BEFORE MAKING ANY MODIFICATIONS TO THE DUCTWORK, TAKE MAX./MIN. READINGS OF THE EXISTING AIRFLOW IN THE AREA OF WORK.
- TEST, BALANCE AND ADJUST ALL AIR SYSTEMS TO OBTAIN THE DESIGN QUANTITIES. SUBMIT AIR SYSTEMS TEST AND BALANCE REPORT TO THE OWNER, CONSULTANT, AND OWNERS CO-ORDINATOR. INDICATE ALL TEST RESULTS INCLUDING ENTERING AND LEAVING AIR TEMPERATURES. THIS WORK SHALL BE PERFORMED BY A TESTING AND BALANCING CONTRACTOR APPROVED BY THE OWNER.

HVAC (DIVISION 23)

1. SCOPE OF WORK

- SUPPLY & INSTALL NEW DUCTWORK, TERMINAL UNITS, AIR SUPPLY AND RETURN/EXHAUST GRILLES, AND FIRE DAMPERS AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL SYSTEMS AND LOW VOLTAGE WIRING(IN CONDUITS) FOR PROPER OPERATION OF ALL HVAC SYSTEMS, AS PER DRAWINGS.
- PROVIDE SEISMIC RESTRAINTS AS REQUIRED; AS PER MUNICIPAL AND PROVINCIAL CODES FOR ALL MECHANICAL SYSTEMS
- DUCTWORK
 - DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOURTH EDITION, AND ASHRAE GUIDELINES.
- ELBOWS
 - ELBOWS SHALL HAVE RADIUS OF NOT LESS THAN DUCT WIDTH. TURNING VANES SHALL BE PROVIDED IN ELBOWS OF LESSER RADIUS IN ALL DUCTWORK.

4. FLEXIBLE CONNECTIONS

- FIRE RESISTANT NEOPRENE COATED GLASS FABRIC.
- DO NOT ACCUMULATE DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY.
- DUCTWORK THERMAL INSULATION
 - INSULATE SUPPLY DUCTWORK INSTALLED OR MODIFIED AS PART OF THIS WORK. PATCH AND REPAIR INSULATION AT CONNECTIONS TO EXISTING SYSTEMS.
 - THERMAL INSULATION SHALL BE 38 MM (1-1/2") THICK BLANKET MINERAL FIBER OR 25 MM (1") THICK RIGID MINERAL FIBERBOARD FOR CONDITIONED AIR DUCTWORK AND 50 MM (2") RIGID FOR OUTDOOR AIR DUCTWORK. INSULATION SHALL BE FOIL FACED HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT CLASSIFICATION OF 50 OR LESS.
 - ACCEPTABLE BLANKET MINERAL FIBER SHALL BE JOHNS MANVILLE MICROLITE DUCT WRAP TYPE OR EQUIVALENT.
 - ACCEPTABLE RIGID MINERAL FIBERBOARD SHALL BE JOHNS MANVILLE 800 SERIES SPIR-GLASS TYPE OR EQUIVALENT.
 - ALL HORIZONTAL AND CIRCUMFERENTIAL JOINTS SHALL BE SEALED WITH LOW VELOCITY DUCT SEALER AND MADE AIR TIGHT. SEAL ALL DUCT JOINTS WITH "DERO-DYNE" TYPE DWN WATER BASED DUCT MASTIC COMPOUND. UNLESS OTHERWISE SPECIFIED PROVIDE DUCT CANVAS JACKET WITH LAGGING ADHESIVE ON ALL EXPOSED DUCTWORK.

6. HANGERS AND SUPPORTS

- PIPING, DUCTWORK AND EQUIPMENT SHALL BE SECURELY SUPPORTED FROM BUILDING STRUCTURE. PERFORATED STRAP OR WIRE HANGERS ARE NOT PERMITTED.
- SUPPORT COMPONENTS SHALL CONFORM TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- HANGERS SHALL ADEQUATELY SUPPORT DUCT SYSTEM. LOCATE HANGERS NEAR OR AT CHANGES IN DIRECTION AND CONCENTRATED LOADS. WEIGHT AND STRESSES SHALL BE SUPPORTED INDEPENDENTLY OF ANY EQUIPMENT.

7. FIRE DAMPERS

- PROVIDE CAN/ULC LISTED FIRE DAMPERS AS INDICATED AT ALL FIRE RATED SEPARATIONS.
- PROVIDE ONLY STYLE B FIRE DAMPERS, WITH BLADES OUT OF AIRSTREAM.
- STATIC FIRE DAMPERS: PROVIDE ON AIR SYSTEMS TO CLOSE WITH NO AIRFLOW THROUGH DAMPER.
- DYNAMIC FIRE DAMPERS: PROVIDE ON AIR SYSTEMS TO CLOSE AGAINST AIR FLOW THROUGH DAMPER.
- ACCEPTABLE MANUFACTURERS: NAILOR, EH PRICE, RUSKIN.
- INSTALL INDIVIDUAL DAMPERS AND/OR ASSEMBLIES OF INDIVIDUAL DAMPERS WITHIN LIMITATIONS OF LISTING OR CLASSIFICATION. USE CURTAIN DAMPERS IN SINGLE DAMPER INSTALLATIONS.
- POSITION DUCT ACCESS DOOR AT EACH FIRE DAMPER, TO PERMIT VISUAL INSPECTION AND REPLACEMENT OF FUSIBLE LINK.
- INSTALL FIRE STOP FLAPS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION TO COMPLY WITH TERMS AND CONDITIONS OF LISTING OR CLASSIFICATION.

8. MANUAL BALANCING DAMPERS

- PROVIDE SPLITTER DAMPERS AT ALL MAIN BRANCHES WHERE THE BRANCH CONNECTED TO THE TRUNK DUCT.
- PROVIDE SINGLE OR MULTIPLE OPPOSED BLADE DAMPERS IN THE BRANCH DUCTS.
- PROVIDE FACTORY MOUNTED ACTUATOR ON DAMPER. PROVIDE ELECTRICAL CONNECTION TO ACTUATOR AS REQUIRED.

9. GRILLES, REGISTERS DIFFUSERS

- NEW SUPPLY AIR DIFFUSERS SHALL BE SQUARE PLAQUE TYPE, BASIS OF DESIGN IS E.H.PRICE MODEL SPD.
- COORDINATE COLOR WITH ARCHITECT DURING SHOP DRAWING REVIEW.
- NEW RETURN GRILLES SHALL BE EGG CRATE TYPE AS INDICATED. BASIS OF DESIGN IS E.H.PRICE MODEL 10.



Suite 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

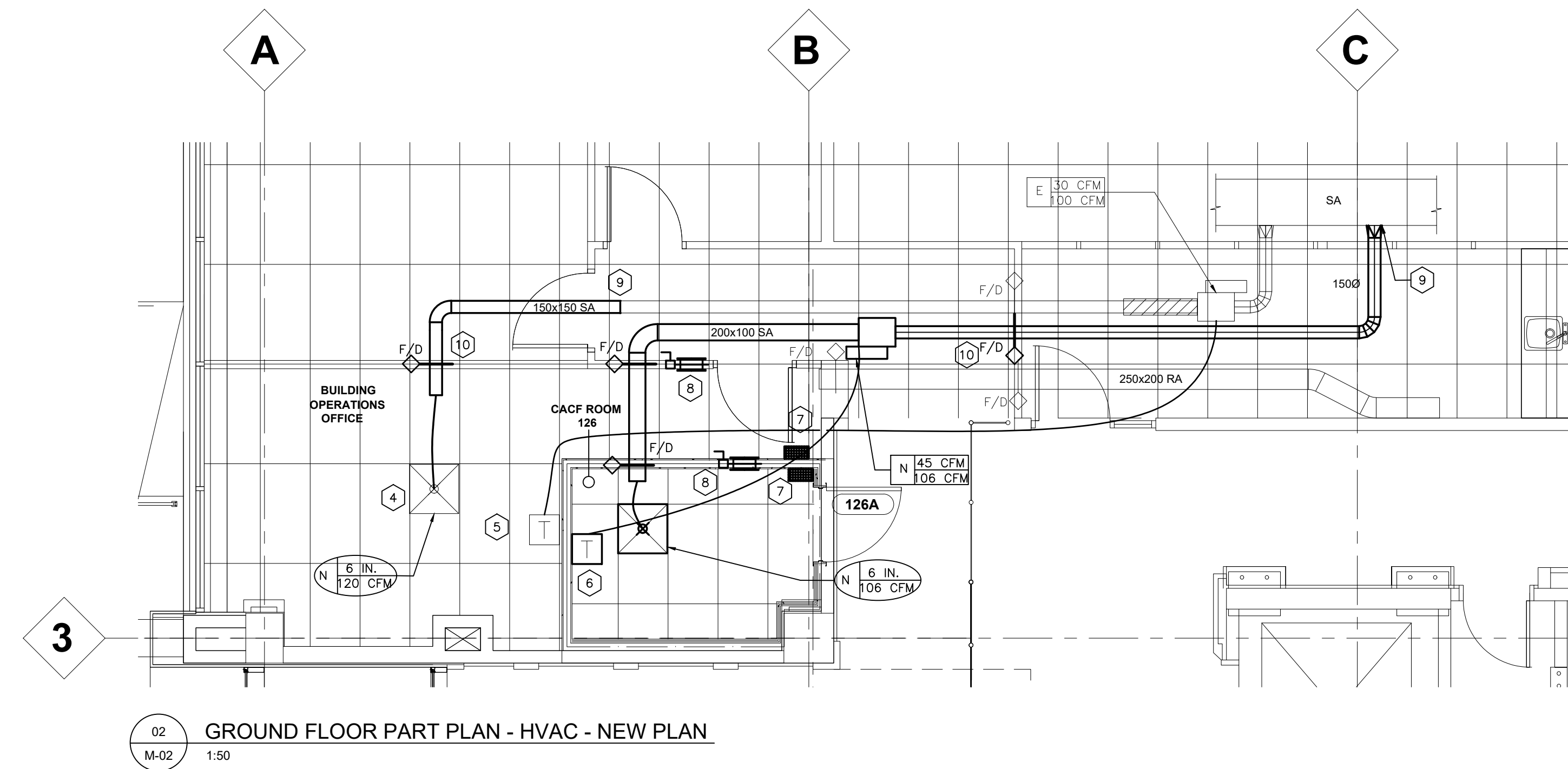
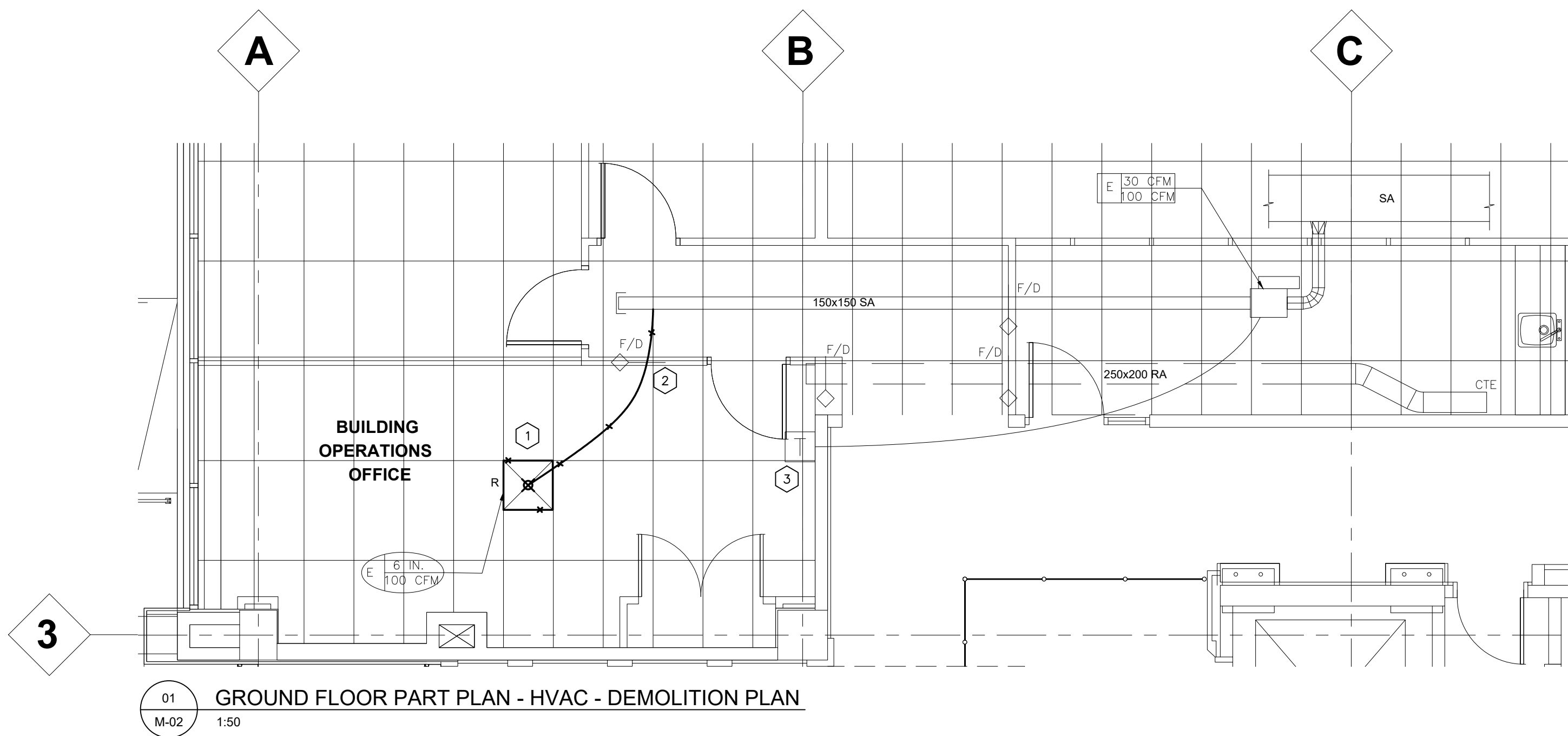
PROJECT

703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING

LEGENDS, DRAWING LIST, GENERAL NOTES & SPECIFICATIONS

DESIGN YP	DATE 2024-01-17	SCALE
DRAWN YP	PROJECT NO. 2302231500	As Shown
CHECKED GF	DRAWING NO.	VERSION
APPROVED GF	M-01	----



SINGLE DUCT AIR TERMINAL UNIT SCHEDULE											
TAG	DESCRIPTION	UNIT SIZE (MM)	AIRFLOW (CFM) L/S		MIN INLET STATIC (Pa)	ELECTRICAL			BASIS OF DESIGN		NOTES
			MINIMUM	DESIGN		V	MANUFACTURER	MODEL			
N	CACF RM. VAV	100	(45) 21	(106) 50	250	24 VAC	E.H.PRICE	SDV			ALL

NOTES:

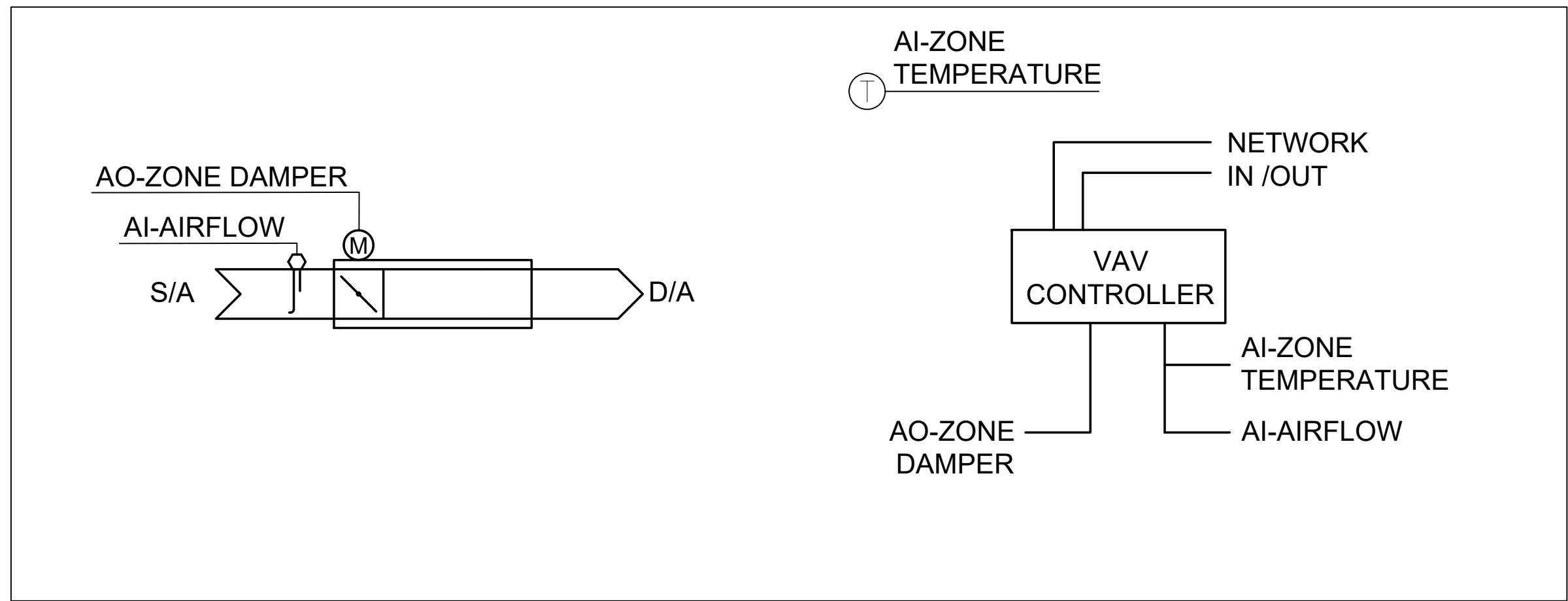
1. DDC CONTROLLER TO BE FURNISHED AND INSTALLED BY THE BMS VENDOR. CONNECT CONTROLLER TO BASE BUILDING BAS SYSTEM, PROGRAM MAX. & MIN. VALUES AND STANDARD SEQUENCE OF OPERATIONS FOR VAV. PROVIDE WALL MOUNTED THERMOSTAT FOR UNIT CONTROLS.

2. REFER TO FLOOR PLAN FOR RHLH CONTROL PANEL COORDINATION.

3. PROVIDE APPROPRIATE INTERNAL TRANSFORMER FOR THE VAV CONTROLLER. 24 VAC / 50 VAC CLASS 2 TRANSFORMER.

- GENERAL NOTES:**
- FLEXIBLE DUCTWORK SHALL NOT BE REUSED. WHERE RELOCATION OF DIFFUSERS IS REQUIRED, FLEX DUCTS SHALL BE REPLACED WITH NEW.
 - CONTRACTOR TO REPORT ANY DAMAGE IN THE EXISTING SYSTEM TO THE ENGINEER.
 - PROVIDE BALANCING OF AIR SYSTEM ACCORDING TO GENERAL SPECIFICATION NOTE 22 ON M-01

- KEY NOTES:**
- EXISTING SUPPLY DIFFUSER TO BE REMOVED AND RELOCATED AS PER 02/M-02 DRAWING
 - FLEX DUCT SHALL BE REMOVED CONNECTING DIFFUSER TO BE REMOVED FROM SUPPLY DUCT.
 - EXISTING THERMOSTAT TO BE RELOCATED PER 2/M-02 TO ACCOMMODATE NEW OFFICE LAYOUT.
 - RELOCATED SUPPLY DIFFUSER PER KEYNOTE 1, PROVIDED WITH NEW FLEX DUCT CONNECTION TO SUPPLY AIR.
 - RECONNECT THE THERMOSTAT TO THE EXISTING TERMINAL UNIT. COORDINATE WITH SITE CONTROLS CONTRACTOR.
 - CONNECT NEW THERMOSTAT TO THE NEW TERMINAL UNIT.
 - NEW 300 mm x150 mm RETURN GRILLE TO BE PROVIDED.
 - NEW 350 mm x 200 mm TRANSFER GRILLE TO BE PROVIDED WITH FIRE DAMPER ABOVE REFLECTED CEILING.
 - CONNECT NEW DUCT TO EXISTING.
 - PROVIDE NEW FIRE DAMPER IN WALL.



VAV TERMINAL UNIT SEQUENCE OF OPERATION:
UNIT SHALL RUN CONTINUOUSLY TO MAINTAIN A COOLING SETPOINT OF 73°F
- VAV DAMPER POSITION SHALL MODULATE BETWEEN THE MINIMUM AND MAXIMUM DAMPER POSITIONS/AIRFLOW SETPOINTS TO MAINTAIN ROOM AIR TEMPERATURE AT A SETPOINT OF 73°F (ADJ.)

5	2024-08-12	ISSUED FOR TENDER
4	2024-08-01	ISSUED FOR PERMIT
3	2024-05-03	ISSUED FOR 100% DESIGN REVIEW
2	2024-03-08	ISSUED FOR 80% DESIGN REVIEW
1	2024-01-26	ISSUED FOR 60% DESIGN REVIEW
	YYYY-MM-DD	SUBMISSION INFORMATION

DISCLAIMER:
THIS DRAWING IS PROTECTED BY COPYRIGHT LAW, AND SHOULD NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF MORRISON HERSHFIELD. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND REPORT ANY ERRORS AND/OR OMISSIONS TO MORRISON HERSHFIELD.

PROFESSIONAL SEALS



Site 300, 125 Commerce Valley Drive W.
Markham, ON L3T 7W4
Tel: 416 499 3110

PROJECT
703 DON MILLS FIRE ALARM REPLACEMENT

DRAWING
GROUND FLOOR VENTILATION DEMO & NEW WORK

DESIGN YP	DATE 2024-01-17	SCALE As Shown
DRAWN YP	PROJECT NO. 230231500	VERSION ----
CHECKED GF	DRAWING NO. M-02	
APPROVED GF		