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DRAWING LIST:

ARCHITECTURAL

COVER SHEET

DEMOLITION FLOOR PLAN AND RCP A1.00 PROPOSED FLOOR PLAN AND RCP A1.10

MECHANICAL

M100 MECHANICAL SPECIFICATIONS AND KEY PLAN M101 MECHANICAL SPECIFICATIONS AND SCHEDULES

MECHANICAL DEMOLITION

M201 MECHANICAL NEW CONSTRUCTION

ELECTRICAL

E201

E100 **ELECTRICAL SPECIFICATION AND KEY PLAN** E101 ELECTRICAL DETAILS, NOTES AND LEGEND

E200 RCP ELECTRICAL DEMOLITION

RCP ELECTRICAL NEW CONSTRUCTION

ELECTRICAL POWER AND FIRE ALARM LAYOUT DEMOLITION

E202 E203 ELECTRICAL POWER AND FIRE ALARM LAYOUT NEW CONSTRUCTION

OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

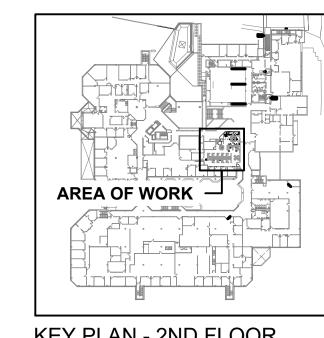
1225 TRAFALGAR RD, OAKVILLE, ON. L6H 0H3

PROJECT NUMBER

2024-08

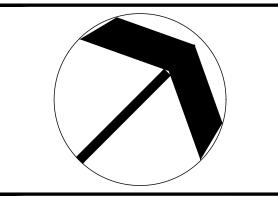
SHEET NUMBER

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KEY PLAN - 2ND FLOOR





LEGEND

ACOUSTIC CEILING TILE GYP EX U/S EXISTING ITEM UNDERSIDE

RE-ISSUED FOR TENDER

REVISIONS

ISSUED FOR CLIENT REVIEW 24-05-30

RAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST

E ARCHITECTS BEFORE PROCEEDING WITH THE WORK.

THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDD

ITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO

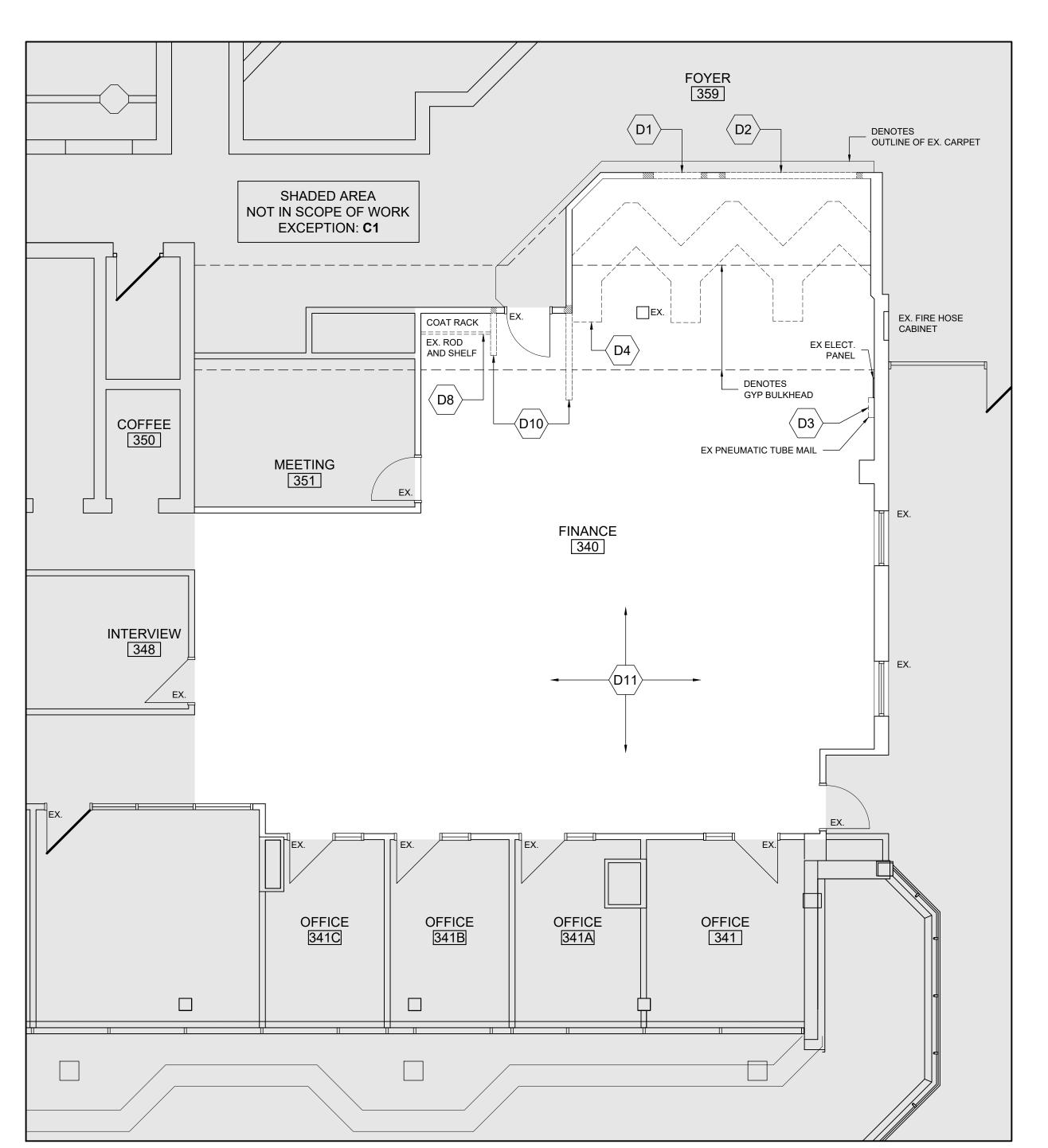
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24-07-09

24-06-1

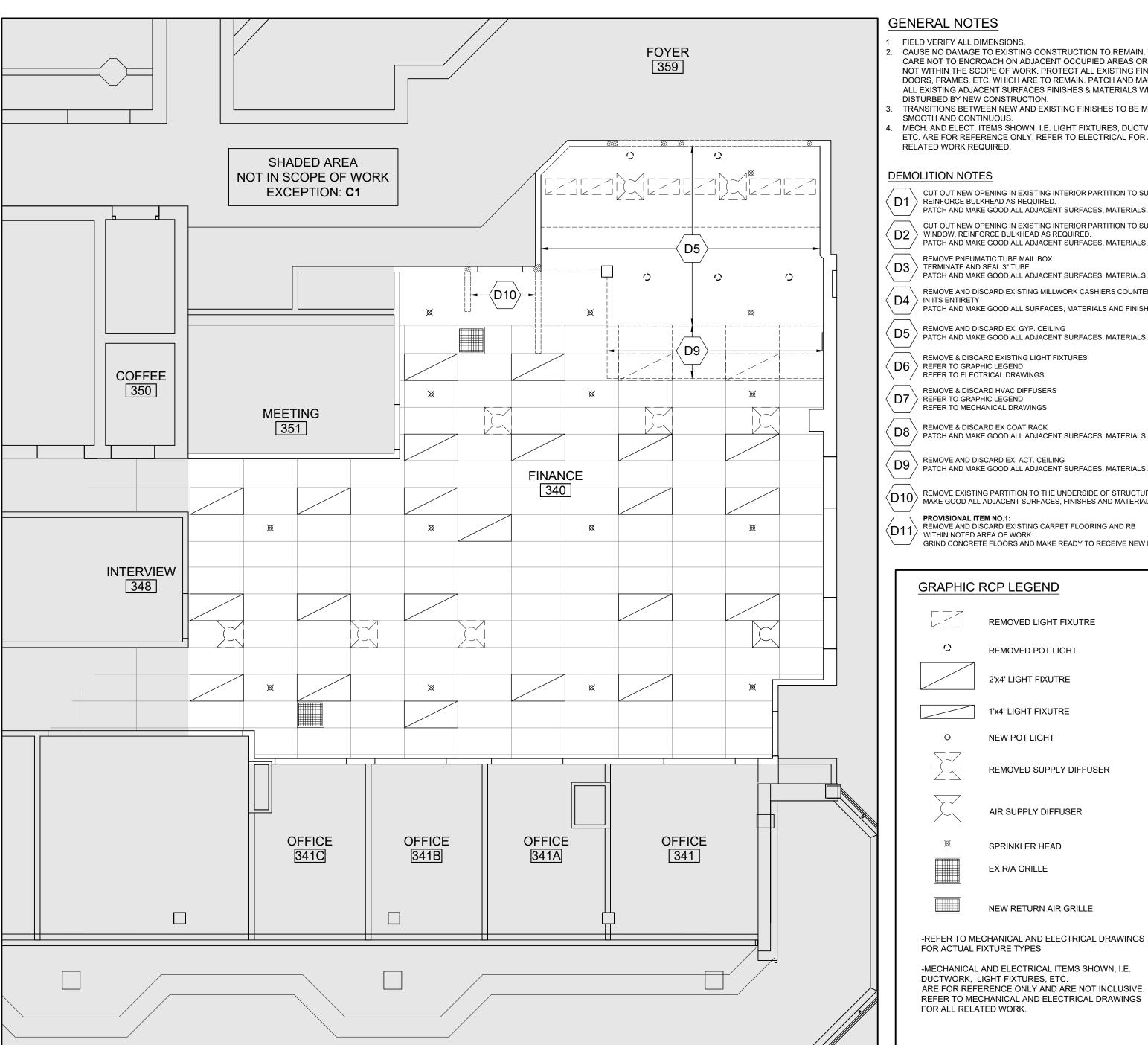
24-06-10



PARTIAL FLOOR PLAN - DEMOLITION

A1.00

SCALE: 3/16":1'-0"



GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS.
- CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES. ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE
- TRANSITIONS BETWEEN NEW AND EXISTING FINISHES TO BE MADE SMOOTH AND CONTINUOUS.
- MECH. AND ELECT. ITEMS SHOWN, I.E. LIGHT FIXTURES, DUCTWORK, ETC. ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL FOR ALL RELATED WORK REQUIRED.

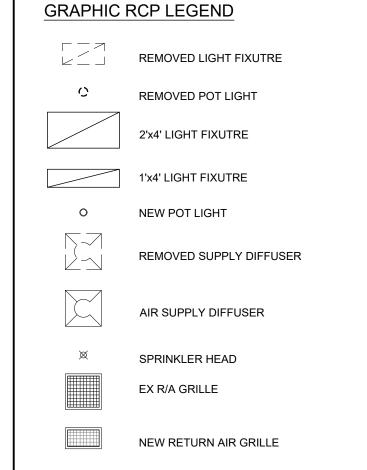
DEMOLITION NOTES

- CUT OUT NEW OPENING IN EXISTING INTERIOR PARTITION TO SUIT NEW DOOR D1 REINFORCE BULKHEAD AS REQUIRED. PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES.
- CUT OUT NEW OPENING IN EXISTING INTERIOR PARTITION TO SUIT NEW window, reinforce bulkhead as required.

 PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES.
- REMOVE PNEUMATIC TUBE MAIL BOX D3 TERMINATE AND SEAL 3" TUBE
- PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES.
- REMOVE AND DISCARD EXISTING MILLWORK CASHIERS COUNTER D4) IN ITS ENTIRETY PATCH AND MAKE GOOD ALL SURFACES, MATERIALS AND FINISHES.
- PATCH AND DISCARD EX. GYP. CEILING PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES.
- REMOVE & DISCARD EXISTING LIGHT FIXTURES REFER TO GRAPHIC LEGEND REFER TO ELECTRICAL DRAWINGS
- REMOVE & DISCARD HVAC DIFFUSERS REFER TO GRAPHIC LEGEND REFER TO MECHANICAL DRAWINGS
- D8 REMOVE & DISCARD EX COAT RACK PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES
- D9 REMOVE AND DISCARD EX. ACT. CEILING PATCH AND MAKE GOOD ALL ADJACENT SURFACES, MATERIALS AND FINISHES.
- D10 REMOVE EXISTING PARTITION TO THE UNDERSIDE OF STRUCTURE. PATCH AND MAKE GOOD ALL ADJACENT SURFACES, FINISHES AND MATERIALS.

PROVISIONAL ITEM NO.1:

REMOVE AND DISCARD EXISTING CARPET FLOORING AND RB
WITH NOTED AREA OF WORK GRIND CONCRETE FLOORS AND MAKE READY TO RECEIVE NEW FINISH



-REFER TO MECHANICAL AND ELECTRICAL DRAWINGS

-MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E.

OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

> 1225 TRAFALGAR RD OAKVILLE, ON. L6H 0H3

DEMOLITION FLOOR PLAN AND RCP

> **GRGURIC** ARCHITECTS **INCORPORATED**



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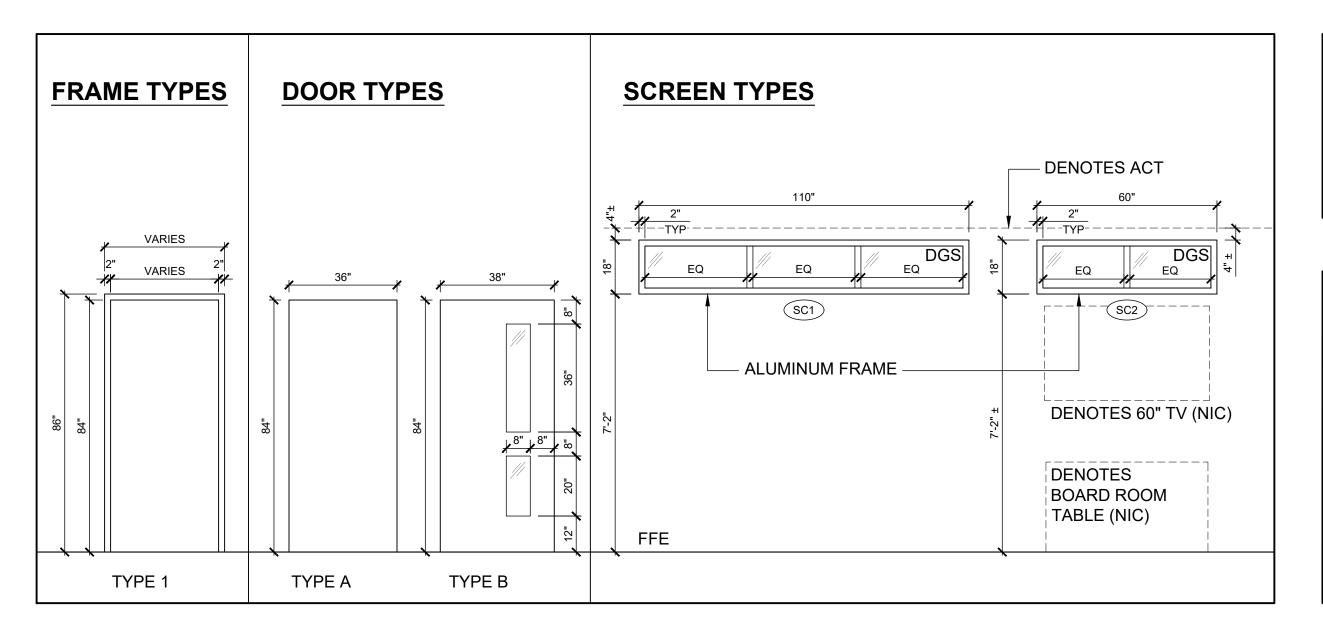
SCALE:	PR
AS NOTED	
	4
START DATE:	
MAY 2024	_

2024-08

CHECKED

DRAWING:

PARTIAL REFLECTED CEILING PLAN - DEMOLITION A1.00 SCALE: 3/16":1'-0"



SHADED AREA

NOT IN SCOPE OF WORK

MEETING 351

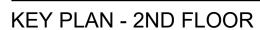
341C

(C1)

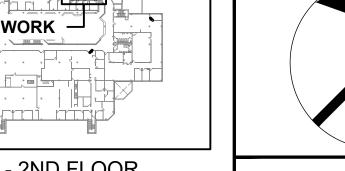
EXCEPTION: C1

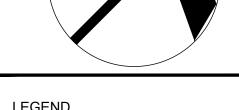
DOOR SCI	HEDUL	E													
	S						FRAMES PANIC DOOR DEMARKS								
ROOM NAME	DOOR NO.	WIDTH	HEIGHT	THK.	FIRE (MIN)	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	GLASS	BAR	CLOSER	REMARKS
BOARDROOM	100 A	3'-2"	7'-0"	1-3/4"	-	В	НМ	PAINT	1	НМ	PAINT	TG	-	YES	CL, OHS
BOARDROOM	101 A	3'-2"	7'-0"	1-3/4"	-	В	НМ	PAINT	1	НМ	PAINT	TG	-	-	
FILES	102 A	3'-0"	7'-0"	1-3/4"	-	Α	НМ	PAINT	1	НМ	PAINT	-	-	-	

	AREA OF WORK
1	KEN DI VVI GVID EL UUD



DOC	NA EINHOLL 00::E5									
ROO	M FINISH SCHED	ULE								
ROOM	ROOM NAME	FLOOR	BASE	WALL		CEILING		DEMARKS		
NO.		FINISH		MAT'L	FINISH	MAT'L. FINISH HEIGHT		HEIGHT	REMARKS	
GROL	JND FLOOR									
340	FINANCE	CPT	RB	EX. / NEW GYP.	PAINT	EX. ACT	EX.	9'-0"±		
340 A	BOARDROOM	CPT	RB	EX. / NEW GYP.	PAINT	ACT / GYP	ACT-1 / PAINT	VARIES	REFERTO BH-1 FOR HEIGHTS	
340 B	FILES	CPT	RB	EX. / NEW GYP.	PAINT	ACT / GYP	ACT-1 / PAINT	VARIES	REFERTO BH-1 FOR HEIGHTS	
341	OFFICE	EX.	EX.	EX. GYP.	PAINT	EX.	EX.	EX.		
341A	OFFICE	EX.	EX.	EX. GYP.	PAINT	EX.	EX.	EX.		
341B	OFFICE	EX.	EX.	EX. GYP.	PAINT	EX.	EX.	EX.		
341C	OFFICE	EX.	EX.	EX. GYP.	PAINT	EX.	EX.	EX.		





OAKVILLE

LEGEN	ND
ACT	ACOUSTIC CEILIN

ACOUSTIC CEILING TILE BOARD BH-# CG CPT DGS **BULK HEAD** CORNER GUARD CARPET TILE DOUBLE GLAZED SEALED

INSULATING UNITS EXISTING ITEM FLOOR FINISH ELEVATION

U/S

GYP NIC RB TYP NOT IN CONTRACT RUBBER BASE TYPICAL

UNDERSIDE

DOOR SCHEDULE LEGEND

DC DOOR CONTACT **HOLLOW METAL** MATERIAL OVER HEAD STOP PDO TG THK POWER DOOR OPERATOR TEMPERED GLASS

THICKNESS

4 RE-ISSUED FOR TENDER

ISSUED FOR TENDER

REVISIONS

ISSUED FOR PERMIT

THRESHOLD

WEATHER STRIPPING

ISSUED FOR CLIENT REVIEW 24-05-30

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24-07-0

24-06-1

24-06-1

DISTURBED BY NEW CONSTRUCTION. TRANSITIONS BETWEEN NEW AND EXISTING FINISHES TO BE MADE SMOOTH AND CONTINUOUS. MECH. AND ELECT. ITEMS SHOWN, I.E. LIGHT FIXTURES, DUCTWORK, ETC. ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL FOR ALL

CONSTRUCTION NOTES

- PREPARE EXISTING GYPSUM BOARD PARTITIONS TO RECEIVE NEW PAINT PATCH AND REPAIR GYPSUM BOARD CEILING AT REMOVED PARTITIONS PAINT ALL PARTITIONS WITHIN NOTED AREA OF WORK
- MODIFY EXISTING ACT. AS REQUIRED TO SUIT NEW LAYOUT (C2) PATCH AND REPAIR AS REQUIRED AT REMOVED PARTITIONS REINFORCE T-BARS CEILING GRID AS NEEDED
- INSTALL NEW ACT CEILING, REFER TO DRAWINGS FOR EXTENTS REFER TO ELECTRICAL AND MECHANICAL DRAWINGS
- INSTALL NEW GYP CEILING, REFER TO DRAWINGS FOR EXTENTS (C4) REFER TO BH-1 DETAIL
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS PATCH AND MAKE GOOD BEFORE PAINTING ALL EX. GYPSUM BOARD WALLS AT REMOVED DEVICES, CORNER GUARDS, SHELVES, BOARDS, ETC.
- (C6) APPLY PRIVACY FILM ON EXISTING WINDOW PATTERN BY ARCHITECT
- (C7) ALLOW FOR 10% OF ACT TO BE REPLACED. MATCH EX
- (C8) PAINT EXISTING DOOR, MATCH EX

- 3-5/8" METAL STUDS — AT 16" O/C (TYP.) - 1/2" GYP. BD

1/2" GYP. BD CLNG. ON 7/8" METAL —

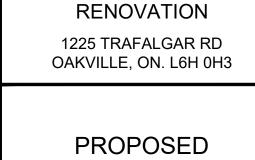
(SUSPENDED OR HUNG FROM STRUCT. ABOVE)

(EXTEND METAL STUDS TO U/S OF STRUCTURE)

SCALE: 1":1'-0"

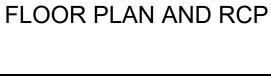
- PROVISIONAL ITEM NO.1: (C9) INSTALL NEW CPT TO MATCH EX WITHIN NOTED AREA OF WORK C/W NEW RUBBER BASE TO MATCH EX.

INTE	RIOR WALL PARTITION TYPES	<u> </u>
NO.	DESCRIPTION	REMARKS
P1	- 5/8" GYPSUM BOARD - 2X4" METAL STUD @ 16" O/C - SOUND BATT FILED INSULATION - ROXUL WHERE SHOWN - 5/8" GYPSUM BOARD	PERTITIONS TO EXTEND TO U/S OF STRUCTURE ABOVE
P2	- EX GYPSUM BOARD ON CORRIDOR SIDE - EX METAL STUD NEW: - SOUND BATT FILLED INSULATION - ROXUL WHERE SHOWN - 5/8" GYPSUM BOARD ON BOARDROOM & FILE ROOM SIDE	



OAKVILLE TOWN HALL

FINANCE SPACE

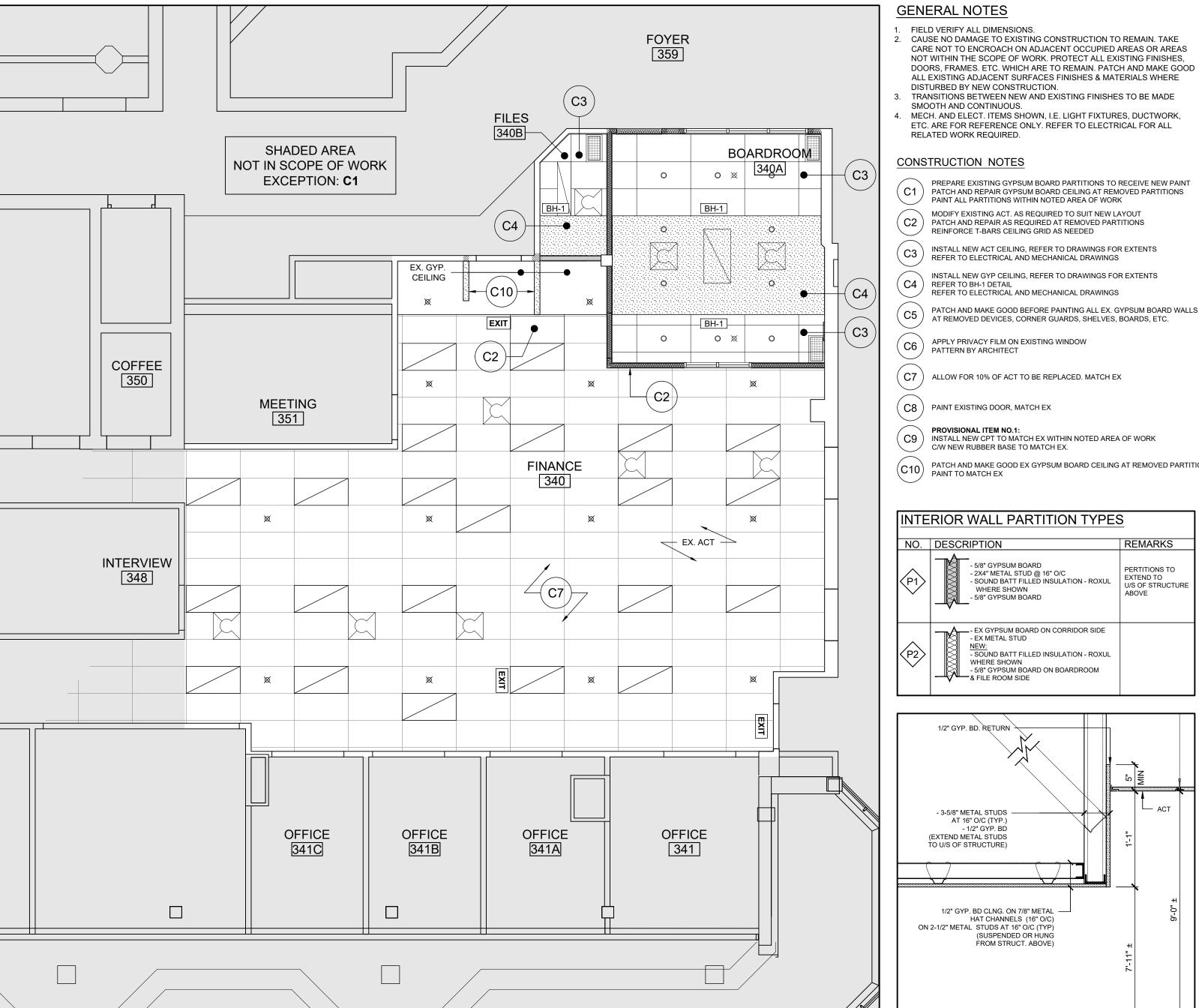




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SCALE: AS NOTED	PROJECT:
START DATE: MAY 2024	2024-
DRAWN AH	DRAWING:

A1.10



A1.10

DENOTES

BOARDROOM

EX ELECT.

DENOTES

SC2 HIGH WINDOW

TOUCH-DOWN

WORKSTATIONS

OFFICE 341

(C1)

FINANCE

340

341A

← (C9) →

341B

(C1)

GYP BULKHEAD

TV - BELOW HIGH WINDOW (P1)

NEW CPT

OUTLINE OF EX. CARPET

EX. FIRE HOSE

CABINET

(C6)

SCALE: 3/16":1'-0"

PARTIAL FLOOR PLAN \A1.10 SCALE: 3/16":1'-0"

COFFEE

350

EX. CPT

INTERVIEW 348

EX. CPT

(12) LOCKERS 12"x18" (NIC)

NEW CPT

NEW CPT

PARTIAL REFLECTED CEILING PLAN

GENERAL NOTES

- GENERAL SCOPE OF WORK 1.1. SUPPLY AND INSTALL ALL THE ITEMS, ARTICLES, MATERIALS, INCLUDE ALL LABOUR, EQUIPMENT, TOOLS, NECESSARY TO COMPLETE ALL SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, PROVIDING A COMPLETE AND OPERATING INSTALLATION.
- 1.2. THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK. 1.3. GENERAL CONTRACTOR TO COORDINATE SCOPE OF WORK BETWEEN ALL TRADES. TRADES INCLUDE, BUT ARE NOT LIMITED TO, MECHANICAL,
- ELECTRICAL, CONTROLS, ENVIRONMENTAL, BASE BUILDING SERVICES (SPRINKLER/FIRE PROTECTION, ELEVATOR, ETC.).
- 1.4. ALL WORK SHALL BE FULLY COMPLETED, TESTED, COMMISSIONED AND IN GOOD WORKING ORDER AT TIME OF HAND-OVER.
- DISCONNECT, RECONNECT OR RELOCATE EXISTING EQUIPMENT OR SERVICES AS REQUIRED TO PERMIT NEW WORK TO BE INSTALLED WITHOUT INTERFERENCES. ENSURE THAT REQUIRED SERVICES ARE MAINTAINED.
- 1.6. MAKE GOOD ANY DAMAGES TO EXISTING EQUIPMENT AND/OR SYSTEM(S) MATERIALS AND WORK WHICH FAILS TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED BY THE ENGINEER WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE AND REGARDLESS OF PREVIOUS INSPECTIONS. WHEN REJECTED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED, REPLACED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO
- EXPENSE TO THE OWNER. 1.7. DEMOLISH EXISTING PLUMBING FIXTURES AND PIPING SERVICES AS INDICATED
- ON DRAWINGS. 1.8. PROVIDE NEW PLUMBING FIXTURES, SPECIALTIES AND PIPING SERVICES FOR FULLY FUNCTIONING SYSTEMS.
- 1.9. PROVIDE NEW DOMESTIC HOT/COLD SUPPLY PIPING FROM SERVICE TUNNEL AT UPPER LEVEL DOWN TO EACH AREA OF WORK AS INDICATED ON DRAWINGS. CUT EXISTING BLOCK WALLS FOR VERTICAL PIPE DROPS FROM UPPER LEVEL DOWN TO EACH WASHROOM AS INDICATED, PATCH AND REPAIR WALLS TO MATCH EXISTING AND PROPOSED FINISHES. FIELD VERIFY EXACT
- ROUTING ON SITE. 1.10. ALL PIPING SHALL BE INSULATED. PROVIDE WHITE PVC JACKETING AND LABELING IN ALL EXPOSED AREAS.
- 1.11. REPLACE EXISTING EXHAUST FANS AS INDICATED ON DRAWINGS. 1.12. DEMOLISH AND MODIFY OR PROVIDE NEW DUCTWORK DISTRIBUTION C/W
- DAMPERS, GRILLES, SUPPORTS AND ACCESSORIES. 1.13. PROVIDE ALL NECESSARY SAW CUTTING OF FLOOR SLAB AND BLOCK WALLS TO INSTALL NEW PIPING. ALL PLUMBING SERVICES WITHIN WASHROOMS AND CHANGE ROOMS SHALL BE CONCEALED. WHERE PIPING CHASE IS NOT PROVIDED, CONTRACTOR SHALL SAW CUT BLOCK WALLS VERTICALLY AS
- REQUIRED TO INSTALL ALL PIPING WITHIN WALL CAVITY. 1.14. PROVIDE SCANNING AND X-RAY OF EXISTING FLOORS AND WALLS PRIOR TO DRILLING AND CUTTING TO AVOID INTERFERENCE OR DAMAGE OF CONCEALED
- 1.15. INFILL ALL UNUSED FLOOR, CEILING AND WALL OPENING AS A RESULT OF DEMOLITION WORK.

CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) 2.1. DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED ROUTING

- 2.2. DRAWINGS DO NOT SHOW ALL PIPING OFFSETS AND FITTINGS, CONTRACTOR SHALL PROVIDE ALL REQUIRED SPECIALTIES. CONFIRM FINAL ROUTING AND INSTALLATION OF THE MECHANICAL EQUIPMENT AND SERVICES WITH SITE
- 2.3. COMPLY WITH THE GENERAL AND APPLICABLE SECTIONS OF THE GENERAL CONTRACT SPECIFICATIONS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT
- BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES AND INFORMING THE ENGINEER PRIOR TO STARTING ANY
- 2.6. ENGINEERING DRAWINGS SHALL NOT BE SCALED.

STANDARDS AND REGULATIONS

- 3.1. ALL WORK SHALL BE COMPLIANT WITH THE MOST RECENT ISSUES OF THE APPLICABLE CODES. STANDARDS. BY—LAWS. REGULATIONS AND BASE BUILDING SPECIFICATIONS FOR GENERAL CONDITIONS, MATERIALS AND WORKMANSHIP. 3.2. ALL EQUIPMENT AND MATERIALS SHALL BE NEW COMMERCIAL GRADE AND BE
- CSA, ULC OR CGA APPROVED UNLESS OTHERWISE INDICATED 3.3. ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED WITH RESPECT TO STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF INSTALLATION WORK.
- MATERIALS USED IN PLENUMS SHALL HAVE FLAME SPREAD RATING OF NOT GREATER THAN 25 AND SMOKE DEVELOPMENT CLASSIFICATION OF NO GREATER THAN 50.

1. PERMITS

- 4.1. OBTAIN ALL REQUIRED PERMITS AND APPROVALS. ARRANGE FOR INSPECTION OF THE WORK BY INSPECTION AUTHORITY. 4.2. RETAIN ALL INSPECTION CERTIFICATES. PROVIDE FINAL CERTIFICATES TO THE
- 4.3. PAY FOR ALL PERMIT AND INSPECTION FEES.

EXISTING CONDITIONS

- 5.1. EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED, THESE MUST BE INDICATED IN THE TENDER PRICE AND BROUGHT TO THE
- ATTENTION OF THE ENGINEER. 5.2. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES AND SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE CONSTRUCTION PERIOD.
- 5.3. ROUTING OF NEW SERVICES MAY BE ADJUSTED TO ACCOMMODATE EXISTING SERVICES AND CONDITIONS PROVIDED THAT THE INTENT OF THE DRAWINGS IS MET AND THE ORIGINAL STANDARDS ARE MAINTAINED.
- 5.4. PROVIDE DRAWINGS OF PROPOSED REVISIONS TO ENGINEER FOR APPROVAL BEFORE BEGINNING ANY WORK. INCORPORATE ALL CHANGES IN AS BUILT 5.5. COORDINATE ALL ROUTING CHANGES WITH OTHER TRADES THAT MAY BE
- AFFECTED PRIOR TO ANY WORK. 5.6. ENGINEER TO BE ADVISED PRIOR TO CHANGES WHERE CHANGES COULD BE
- 5.7. ALL ASSOCIATED COSTS OF SUCH WILL BE PASSED TO THE CONTRACTOR.

6. SITE CONSTRUCTION MANAGEMENT COORDINATE SITE ACCESS AND DELIVERIES WITH THE FACILITY MANAGEMENT COORDINATE WORK AND WORKING HOURS WITH THE FACILITY MANAGEMENT

- AND OTHER TRADES TO MINIMIZE DISRUPTION. 6.3. THE CONTRACTOR IS TO TAKE EXTRA CARE DURING THIS INSTALLATION NOT TO DISTURB THE OPERATIONS OF THE FACILITY. ALL NOISY WORK SHALL BE PERFORMED AFTER NORMAL BUSINESS HOURS: BETWEEN 6PM AND 7AM,
- MONDAY THROUGH FRIDAY; AND ON WEEKENDS, FRIDAY 6PM THROUGH MONDAY 7AM. COORDINATE WITH THE FACILITY MANAGEMENT BEFORE INTERRUPTING ANY ESSENTIAL SERVICES. PROVIDE METHOD OF PROCEDURE FOR ANY SHUTDOWNS OR INTERRUPTIONS OF THE EXISTING SERVICES FOR FACILITY MANAGEMENT AND ENGINEER REVIEW AND ACCEPTANCE.
- 6.5.1. NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER.

6.5. OPEN FLAMES AND WELDING

- HOT WORK PERMIT MUST BE VISIBLE AT ALL TIMES.
- ADEQUATE NUMBER OF FIRE EXTINGUISHERS MUST BE PROVIDED DURING THE OPEN FLAME PROCESS. FUME VENTILATION AND FILTRATION UNITS SHALL BE PROVIDED FOR ANT
- WELDING WITHIN THE FACILITY. WELDING SHALL BE UNDERTAKEN BY A COMPANY CERTIFIED BY CANADIAN
- WELDING BUREAU UNDER REQUIREMENTS OF CAN/CSA W47.1. WELDING SHALL BE PERFORMED IN ACCORDACNE WITH ANSI/ASME B31.1, B31.1. BOILER AND PRESSURE VESSELS CODE.
- SUBMIT WELDER'S QUALIFICATIONS AND WELDING PROCEDURES PRIOR TO ANY WORK.

- WELDING AND OTHER SMOKE/DUST GENERATING WORK IN MECHANICAL ROOMS USED AS AN AIR PLENUM OF AIR HANDLING SYSTEM SHALL BE COMPLETED DURING AFTER HOURS OR OUTSIDE OF EQUIPMENT OCCUPANCY SCHEDULE. CONTRACTOR SHALL VERIFY OPERATING SCHEDULE WITH THE FACILITY MANAGEMENT. COMPLETE THOROUGH CLEANING OF THE ROOM AND/OR PLENUM PRIOR TO REINSTATING AIR HANDLING EQUIPMENT IN SERVICE.
- 6.6. CLEANING 6.6.1. CLEAN PREMISES DAILY AT THE END OF EACH WORK DAY.
- DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY. 6.6.3. COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE ONCE
- WORK IS COMPLETE. 6.6.4. ALL MATERIALS TO BE DISPOSED OF CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

7. SHOP DRAWINGS

- 7.1. SUBMIT SHOP DRAWINGS, ELECTRONICALLY IN PDF FORMAT, FOR ENGINEER'S
- SHOP DRAWINGS SHALL BE ISSUED BY EQUIPMENT OR MATERIAL SUPPLIER, SHOP DRAWINGS CREATED BY CONTRACTOR WILL NOT BE REVIEWED.
- 7.3. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW COVERING ALL RELEVANT DETAILS. DIMENSIONS AND PERFORMANCE. SUBMITTAL MUST CLEARLY IDENTIFY PROPOSED EQUIPMENT AND SELECTED OPTIONS,
- FEATURES, ACCESSORIES. GENERIC SUBMITTALS WILL NOT BE ACCEPTED. 7.4. SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR AND THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO CONSULTANT / ENGINEER FOR REVIEW.
- 7.5. CO-ORDINATE ALL DIMENSIONS WITH THE EQUIPMENT SHOP DRAWINGS.

8. CUTTING, PATCHING AND PAINTING REQUIREMENTS

- 8.1. PROVIDE CUTTING, PATCHING AND PAINTING FOR ALL OPENINGS. USE QUALIFIED TRADES FOR THIS WORK. RESTORE FINISHES TO MATCH EXISTING
- REPAIR ALL FLOOR, WALL AND CEILING FINISHES TO MATCH EXISTING DUE TO REMOVAL OF THE EQUIPMENT OR SERVICES TO PRESERVE VISUAL AESTHETICS.
- 8.3. SUPPLY AND INSTALL APPROVED FIRESTOPS AS REQUIRED TO MAINTAIN FIRE 8.4. PIPING AND VENTS THROUGH WALL AND ROOF SHALL BE BY THE MECHANICAL

DIVISION CONTRACTOR, INCLUDING ALL PATCHING.

- 9. CORING REQUIREMENTS 9.1. FOR ALL CORING LESS THEN 3" DIA. CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING AREA PRIOR TO CORING THROUGH FLOORS/CEILINGS.
- 9.2. FOR ALL CORING GREATER THEN 3" DIA. CONTRACTOR SHALL BE RESPONSIBLE FOR X-RAYING AREA PRIOR TO CORING THROUGH FLOORS/CEILINGS. X-RAY ACTIVITIES SHALL BE CARRIED OUT ONLY AFTER HOURS, ONCE ADJACENT FLOORS AND SPACES HAVE BEEN CONFIRMED TO BE FULLY UNOCCUPIED. COORDINATE WITH FACILITY MANAGEMENT.
- 9.3. CONTRACTOR SHALL SURVEY FLOOR/CEILING OR WALL SURFACE ON THE OPPOSITE SIDE OF THE CORE TO CONFIRM TO OBSTRUCTIONS, ALLOW FOR OFFSETS WITH THE PERMISSION FROM ENGINEER TO AVOID ANY OBSTRUCTIONS.

10. PENETRATIONS THROUGH FLOORS AND WALLS

- 10.1. WHERE PIPING PASS THROUGH FIRE PARTITIONS, FIRE WALLS, SMOKE PARTITIONS, OR FLOORS, PROVIDE A FIRE STOP THAT PROVIDES AN EFFECTIVE
- BARRIER AGAINST THE SPREAD OF FIRE, SMOKE, AND GASES. 10.2. FIRESTOPPING SYSTEMS SHALL BE TESTED AND LISTED TO CAN/ULC S115, STANDARD METHOD OF FIRE TESTS OF FIRESTOP SYSTEMS.
- 10.3. FIRE STOPPING MATERIALS SHALL BE PROVIDED BY A SINGLE MANUFACTURER; FOR ANY WORK IN EXISTING BUILDING, CONFIRM STANDARD FIRESTOPPING
- SUPPLIER WITH THE FACILITY MANAGEMENT. 10.4. FIRESTOPPING CAULKING SHALL BE "3M FIRE BARRIER" FIRETEMP CAULK OR
- 10.5. APPLY FIRESTOP SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S
- 10.6. ALL FIRE STOPPING SYSTEMS SHALL MEET OR EXCEED RATINGS FOR THE
- PARTICULAR FIRE RATING OF THE PENETRATED SURFACE. 10.7. FIRESTOPPING CONTRACTOR MUST BE A LICENSED 3M CERTIFIED INSTALLER WITH A MINIMUM 3 YEARS OF EXPERIENCE IN PROJECTS OF SIMILAR SCOPE AND SCALE, PROVIDE CERTIFICATIONS AND QUALIFICATIONS OF THE PERSONNEL PRIOR TO ANY WORK
- 10.8. FIRESTOPPING MATERIALS SHALL BE FREE OF WATER SOLUBLE EXPANSION
- MATERIALS AND FREE OF ASBESTOS CONTAINING MATERIALS 10.9. MATERIALS SHALL BE TESTED, LISTED AND LABELED BY ULC FOR INSTALLATION IN DESIGNATED FIRE STOPPING AND SMOKE SEAL SYSTEMS, TO PROVIDE A POSITIVE FIRE, WATER AND SMOKE SEAL AND A FIRE RESISTANCE RATING (FLAME, HOSE STREAM AND TEMPERATURE) NOT LESS THAN THE FIRE RATING FOR SURROUNDING CONSTRUCTION. MATERIALS SHALL BE COMPATIBLE WITH
- ABUTTING DISSIMILAR MATERIALS AND FINISHES. 10.10. PROVIDE SLEEVES FOR PIPE PENETRATIONS THRU FLOORS AND WALLS, COMPLETE WITH ADEQUATE REINFORCING AND SIZED TO ALLOW FOR MOVEMENT DUE TO EXPANSION. SLEEVES IN JANITOR CLOSETS. MECHANICAL ROOMS, PLENUM, SHAFTS AND OTHER SPACES SUBJECT TO WATER LEAKS AND ACCUMULATION SHALL EXTEND MINIMUM 50mm (2") ABOVE FLOOR.
- PROVIDE TIGHT FITTING CLAMPS ON EACH SIDE OF SLEEVE 10.11. BELOW GRADE PIPING PENETRATIONS THRU WALLS SHALL BE SEALED WITH ELASTOMERIC MODULAR LINK SEAL ASSEMBLY.

11. AS BUILT DRAWINGS

- 11.1. MAINTAIN RECORD OF ALL REVISIONS AND PREPARE RED LINE RECORD DRAWINGS IN A NEAT MANNER SHOWING ALL ALTERATION IN WORK. SUBMIT PROGRESS RECORDS OF REVISIONS TO ENGINEER ON BI-WEEKLY BASIS. 11.2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS REQUIRED TO MAKE CHANGES AND REVISIONS OF DRAWINGS IN AUTOCAD FORMAT; ISSUED FOR CONSTRUCTION AUTOCAD DRAWINGS WILL BE PROVIDED BY CONSULTANT FOR CONTRACTOR'S USE. COMPLY WITH OWNER'S CAD GUIDELINES AND STANDARDS. SUBMIT PREPARED AUTOCAD DRAWINGS TO OWNER'S AUTOCAD/RECORDS
- DEPARTMENT FOR REVIEW AND APPROVAL, MAKE ALL NECESSARY CHANGES REQUIRED FOR COMPLIANCE PRIOR TO SUBMISSION TO ENGINEER. 11.3. UPON COMPLETION OF WORK, SUBMIT ELECTRONIC FORMAT DRAWINGS (IN AUTOCAD 2020 FORMAT) FOR REVIEW AND APPROVAL OF ENGINEER.
- 11.4. MAKE CHANGES AS DIRECTED BY ENGINEER. 11.5. ONCE APPROVED, SUBMIT THREE HARD COPIES OF AS BUILT DRAWINGS IN FULL SIZE AND THREE USB DRIVES WITH AUTOCAD DRAWINGS AND INCLUDE IN O&M MANUALS.

12. OPERATION AND MAINTENANCE MANUALS

- 12.1. SUBMIT O&M MANUAL ELECTRONICALLY IN PDF FORMAT TO ENGINEER FOR REVIEW. MANUALS SHALL INCLUDE SHOP DRAWINGS OF ALL NEW EQUIPMENT, TEST AND BALANCING REPORTS, COMMISSIONING REPORTS, WARRANTIES. MAINTENANCE AND OPERATION PROCEDURES AND AS BUILT DRAWINGS.
- 12.2. UPON ENGINEER'S REVIEW AND ACCEPTANCE PROVIDE TWO(2) COMPLETE BINDERS INCLUDING ALL DOCUMENTS AND SOFT COPY TO THE OWNER.

13. WARRANTY

- 13.1. SUBMIT A "CERTIFICATE OF GUARANTEE" FOR WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE; SUCH AS SUBSTANTIAL COMPLETION OR OCCUPANCY CERTIFICATE
- 13.2. THIS GUARANTEE SHALL BIND THE CONTRACTOR TO CORRECT, REPAIR OR REPLACE PROMPTLY ANY DEFECTIVE EQUIPMENT OR WORKMANSHIP WITHOUT COST TO THE OWNER.
- 13.3. ASSUME FULL RESPONSIBILITY FOR LAYOUT OF ALL WORK AND FOR ANY DAMAGE CAUSED TO OWNER OR OTHERS BY IMPROPER CARRYING OUT OF THE WORK.

HVAC SPECIFICATIONS

DUCTWORK

- 1.1. DUCTWORK SHALL BE CONSTRUCTED TO ASHRAE/SMACNA STANDARDS.
- 1.2. DUCT SIZES ARE LISTED ON DRAWINGS. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. 1.3. ALL FLEXIBLE DUCTWORK TO DIFFUSERS SHALL BE ALUMINUM SPIRAL, MAXIMUM LENGTH 5FT. 1.4. SEAL ALL NEW LOW PRESSURE DUCTS (<2IN.WC.) AND LOW PRESSURE DUCT MODIFICATIONS TO
- SMACNA SEAL CLASS 'C' USING SEALANT OR ALUMINUM TAPE; OR A COMBINATION THEREOF. 1.5. HIGH PRESSURE DUCTS (=>2IN.WC.) SHALL BE CONSTRUCTED OF FACTORY FABRICATED, SPIRAL WOUND, GALVANIZED STEEL WITH MATCHING FITTINGS AND SPECIALS TO SMACNA. USE SPLIT TYPE
- JOINTS WITH SEALANT FOR DUCTS UP TO 36IN. 1.6. SEAL ALL NEW HIGH PRESSURE DUCTS (=>2IN.WC.) AND HIGH PRESSURE DUCT MODIFICATIONS TO SMACNA SEAL CLASS 'A' USING SEALANT.

- 2.1. HEATING AND COOLING APPLICATIONS, NON INSULATED, LOW PRESSURE NON-COLLAPSIBLE, COATED WOVEN FIBERGLASS SUPPORTED BY COATED SPRING STEEL WIRE HELIX.
- 2.2. HEATING AND COOLING APPLICATIONS, INSULATED, LOW PRESSURE NON-COLLAPSIBLE, COATED MINERAL BASE PERFORATED FABRIC TYPE HELICALLY SUPPORTED BY AND MECHANICALLY BONDED TO STEEL WIRE WITH FACTORY APPLIED FLEXIBLE GLASS FIBRE ACOUSTIC INSULATION AND ENCASED IN ALUMINUM FOIL AND MYLAR LAMINATE VAPOUR BARRIER.
- MAXIMUM LENGTH SHALL BE 5FT.
- HIGH PRESSURE SYSTEMS NO FLEXIBLE DUCTWORK IS ALLOWED. PROVIDE FLEXIBLE DOCT SUPPORT AT EACH 90 DEG. VERTICAL ELBOW TO PREVENT SAGGING.

2.6. PROVIDE MINIMUM 3 TIMES DUCT DIAMETERS OF STRAIGHT FLEX ON INLET OF EACH DIFFUSER/GRILLE.

- 3.1. FOR LOW PRESSURE SYSTEM: ELBOWS SHALL HAVE RADIUS OF NOT LESS THAN DUCT WIDTH, ELBOWS WITH RADIUS LESS THAN DUCT WIDTH SHALL BE PROVIDED WITH TURNING VANES (DUCTMATE OR
- 3.2. FOR HIGH PRESSURE SYSTEM: SMOOTH RADIUS AND/OR 5-PIECE (FOR 90°), 3-PIECE (FOR 45°) WITH CENTRELINE RADIUS AT 1.5 X DIAMETER. USE 45° CONICAL TRANSITIONS FOR BRANCH

BALANCING DAMPERS

APPROVED EQUAL)

- 4.1. BALANCING DAMPERS SHALL BE MANUALLY OPERATED OPPOSED BLADE OR SPLITTER TYPE. SPLITTER DAMPERS SHALL BE COMPLETE WITH CONTROL ROD, PIVOT BRACKET AND BALL JOINT FITTING WITH
- 4.2. SPLITTER DAMPERS SHALL BE INSTALLED ON ALL BRANCH DUCT CONNECTIONS (OR TAKE-OFFS) FROM
- 4.3. OPPOSED BLADE DAMPERS SHALL BE USED FOR ALL DIFFUSER/GRILLE BALANCING DAMPERS.

FIRE RATED DAMPERS (FRD)

- 5.1. FIRE DAMPER (FRD) SHALL BE CURTAIN TYPE WITH 135°F FUSIBLE LINK SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION, ULC RATED (FIRE RATING TO MATCH OR EXCEED ENCLOSURE FIRE RESISTANCE RATING).
- 5.2. FRD SHALL BE RUSKIN MODEL DIBD2 STYLE B (OR EQUAL FOR DUCT HEIGHTS NOT EXCEEDING 305mm, AND DIBD2 STYLE A (OR EQUAL) FOR DUCT HEIGHTS EXCEEDING 305mm.

5.3. PROVIDE ACCESS PANELS AT EACH FRD, MIN SIZE SHALL BE 300x300mm.

- 6.1. EMPLOY THE SERVICES OF AABC OR NEBB CERTIFIED BALANCING COMPANY TO BALANCE THE AIR SYSTEMS TO ACHIEVE THE AIRFLOW SHOWN. THE BALANCING COMPANY SHALL SUBMIT A COMPLETE REPORT. ACCEPTANCE OF BALANCING AND REPORT WILL BE SUBJECT TO ON SITE MEASUREMENT AND/OR VERIFICATION OF THE REPORT BY THE ENGINEER.
- 6.2. NOTIFY ENGINEER OF ANY DISCREPANCIES GREATER THAN ±5% OF DESIGN VALUES PRIOR OF SUBMISSION OF REPORT.

FLEXIBLE CONNECTIONS

7.1. FLEXIBLE CONNECTIONS TO BE FIRE RESISTANT NEOPRENE COATED GLASS FABRIC. 7.2. INSTALL DUCT FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF SUPPLY AND EXHAUST AIR UNITS AND WHERE INDICATED ON DRAWINGS.

GRILLES, REGISTERS AND DIFFUSERS

- 8.1. ALL DIFFUSER/GRILLE/REGISTER COLOURS SHALL BE CONFIRMED AT THE SHOP DRAWING STAGE BY THE ARCHITECT OR INTERIOR DESIGNER. PROVIDE SAMPLES OF FINISHES WITHIN SHOP DRAWING. 8.2. PROVIDE REQUIRED DUCT TRANSITIONS, ADAPTERS AND OTHER FITTINGS TO COMPLETE CONNECTION
- BETWEEN DUCTWORK AND GRILLES. 8.3. REFER TO DRAWINGS FOR SIZES AND LOCATIONS.

- THERMAL INSULATION FOR DUCTS INSULATION THICKNESS AND PERFORMANCE SHALL MEET ASHRAE 90.1-2013 REQUIREMENTS. 9.2. BLANKET OR RIGID THERMAL INSULATION ON INDOOR DUCTS SHALL BE PROVIDED AND INSTALLED AS
- FOLLOWS UNLESS OTHERWISE INDICATED: 9.2.1. INSULATE FULL LENGTH OF FRESH AIR SUPPLY DUCTS. INSULATE FIRST 4.6m (15 FT) OF EXHAUST DUCTS FROM EXTERIOR WALL OR ROOF. INSULATE FULL LENGTH OF SUPPLY AND RETURN DUCTS THAT ARE ROUTED THROUGH A
- NON-CONDITIONED SPACE. THERMAL INSULATION IS NOT REQUIRED ON SUPPLY AND RETURN DUCTS CONFINED WITHIN A CONDITIONED SPACE (INCLUDING RETURN PLENUM CEILINGS).
- USE RIGID INSULATION AND DRYWALL TYPE CORNER BEADS IN AREAS WHERE INSULATION IS 9.2.5. EASILY SUSCEPTIBLE TO DAMAGE. 9.3. INSULATION SHALL BE FOIL FACED HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT CLASSIFICATION OF 50 OR LESS.
- 9.4. THERMAL INSULATION FOR COLD AIR DUCTS SHALL BE 1-1/2" THICK RIGID INSULATION, OR 2" THICK BLANKET MINERAL FIBRE 9.5. VAPOUR-RETARDER MEMBRANE SHALL BE INSTALLED WITH INSULATION ON COLD, DUAL-TEMP AND
- FRESH AIR AIR SUPPLY DUCTS. 9.6. ACCEPTABLE BLANKET MINERAL FIBER SHALL BE JOHNS MANVILLE MICROLITE DUCT WRAP TYPE 100 OR EQUIVALENT
- 9.7. ACCEPTABLE RIGID MINERAL FIBERBOARD SHALL BE JOHNS MANVILLE 800 SERIES SPIN-GLASS TYPE OR EQUIVALENT.
- 9.8. SEAL ALL JOINTS WITH ULC LISTED SELF-ADHESIVE INSULATION TAPE FOR INDOOR DUCTS AND INSULATION. 9.9. USE RIGID INSULATION AND DRYWALL TYPE CORNER BEADS IN AREAS WHERE INSULATION IS EASILY
- SUSCEPTIBLE TO DAMAGE. 9.10. EXTERIOR DUCTWORK INSULATION SHALL BE COVERED BY A .04" THICK ALUMINUM JACKET (FORMING THE DOUBLE SKIN). ALL LONGITUDINAL SEAMS SHALL BE FORMED ALONG THE BOTTOM. ENSURE THAT ALUMINUM JACKET IS FASTENED WITH SECURE, WATERTIGHT MECHANICAL CONNECTIONS. APPLY EXTERIOR GRADE SEALANT AT ALL SEAMS.

O. CONTROLS

- 10.1. ALL CONTROLS WORK SHALL BE COMPLETED BY THE BASE BUILDING CONTROLS CONTRACTOR: 10.2. ALL LOW VOLTAGE CONTROL WIRING (<50V) SHALL BE BY THE CONTROL DIVISION.
- 10.3. ALL NEW EQUIPMENT CONTROL SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING CONTROL 10.4. PROVIDE ALL REQUIRED CONTROL DEVICES INCLUDED BUT NOT LIMITED DAMPER C/W ACTUATORS, RELAYS, CONTROLLERS, WIRING, CONDUIT, PNEUMATIC/DDC SIGNAL CONVERTER AND ACCESSORIES FOR
- A FULLY FUNCTIONING SYSTEM. 10.5. REFER TO DRAWINGS FOR PROPOSED LOCATION OF THE EQUIPMENT, COORDINATE FINAL LOCATIONS
- WITH MECHANICAL AND ELECTRICAL CONTRACTORS. 10.6. TEST AND VERIFY ALL DEVICES LOCALLY AT THE DEVICE LEVEL AND AT THE BAS GRAPHICS. 10.7. CONTROLS CONTRACTOR SCOPE OF WORK SHALL INCLUDE SUPPLY AND INSTALL OF: CONTROL WIRING
- OR PNEUMATIC TUBING, INTERLOCKS, SEQUENCING AND BASE BUILDING AUTOMATION SYSTEM TIE-INS (AS REQUIRED AND SPECIFIED)
- 10.8. PROVIDE TRAINING TO FACILITY OPERATIONS ON ALL NEW EQUIPMENT. 10.9. ALL CONTROL WORK BY THE FACILITY HVAC Controls/BMS CONTRACTOR:

Johnson Controls lain D Hill

E-mail: lain.D.Hill@jci.com

Cell: 647-688-0702

FIRE PROTECTION SPECIFICATIONS

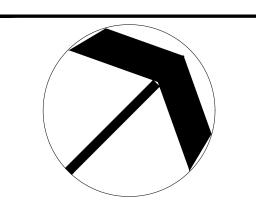
- 1. CONTRACTOR SHALL PROVIDE SHOP DRAWING AND HYDRAULIC CALCULATIONS OF THE ENTIRE SYSTEM SIGNED AND SEALED BY THE SPRINKLER CONTRACTOR'S ENGINEER (P.ENG.).
- 2. THE ENTIRE SPACE SHALL BE SPRINKLERED IN ACCORDANCE WITH NFPA-13, LOCAL AND NATIONAL
- BUILDING CODE REQUIREMENTS, AND OWNERS INSURANCE UNDERWRITERS.
- CONTRACTOR SHALL CO-ORDINATE EXACT LOCATION OF SPRINKLER HEADS WITH OTHER TRADES AND FIELD CONDITIONS.
- 4. CO-ORDINATE DRAIN DOWN OF SYSTEM WITH THE FACILITY.
- 5. THE SPRINKLER SPECIFICATION FROM THE "CANADIAN NATIONAL SPECIFICATION" SHALL APPLY TO THIS JOB AS IF WRITTEN HERE IN FULL.
- 6. THE SPRINKLER SYSTEM SHALL BE INSTALLED BY A QUALIFIED CONTRACTOR, APPROVED BY THE
 - Hamilton Fire Control Contact name: Frank Tracey Work: (905) 527-7042 Mobile: (289) 339-7598 Email: <u>hfc@cogeco.ca</u>
- 7. HAVE THE SYSTEM INSPECTED AND TESTED TO THE APPROVAL OF THE LOCAL AUTHORITIES, UNDERWRITERS, AND THE FACILITY.
- 8. RELOCATE EXISTING DROPS AND PROVIDE NEW HEADS WHERE RELOCATED. ADD NEW HEADS AS REQUIRED TO PROVIDE A COMPLETE SYSTEM. NEW SPRINKLER HEADS IN ALTERED SPACE TO MATCH
- 9. FLEXIBLE PIPING DROPS ARE TO BE HYDRAULICALLY CALCULATED TO ENSURE SYSTEM SAFETY FACTOR

- 10. SPRINKLER HEADS PROVIDE HEADS AND DROPS TO SUIT NEW CEILING HEIGHT AND THIS LAYOUT. TYPICAL FOR ORDINARY HAZZARD APPROX. 120 SQ. FT. COVERAGE PER HEAD. SPRINKLER SYSTEM IS TO BE INSTALLED AS PER NFPA 13, BASE BUILDING AND ALL LOCAL CODES AND REGULATIONS.
- SPRINKLER HEADS TYPE AND FINISH SHALL MATCH THE EXISTING SPRINKLER HEADS TYPE AND FINISHES WITHIN THE OVERALL WORK SPACE.
- PROVIDE TOTALLY CONCEALED TYPE FOR FINISHED AREAS, COLOUR OF COVER PLATES TO BE SELECTED BY ARCHITECT.
- CHROME PLATED WITH CHROME PLATED ESCUTCHEON PLATE FOR SIDEWALLS, SIDEWALL HEADS SHALL BE INSTALLED SO THAT TOP OF ESCUTCHEON PLATE IS MINIMUM 6" BELOW FINISHED CEILING.
- BRASS PENDANT TYPE HEADS FOR UNFINISHED AREAS.

SEE MECHANICAL LEGEND FOR THE SPRINKLER HEAD SCHEDULE

11. PROVIDE A PERMANENTLY ATTACHED NAME TAG STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SPRINKLER SYSTEM.





RF-ISSUED FOR PERMIT/TENDER 24-07-09 ISSUED FOR PERMIT/TENDER 24-06-10 ISSUED FOR CLIENT REVIEW 24-05-30 REVISIONS

CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT: AND MUST REPORT ANY DISCREPANCIES TO HE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIC VITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

RAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST





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FINANCE SPACE

OAKVILLE, ON. L6H 0H3

MECHANICAL **SPECIFICATIONS** AND KEY PLAN





Tel. 905-664-8735 Fax. 905-664-8737

Web: www.2gai.com

PROJECT: SCALE: AS NOTED START DATE:

MAY 2024 RAWING: DRAWN

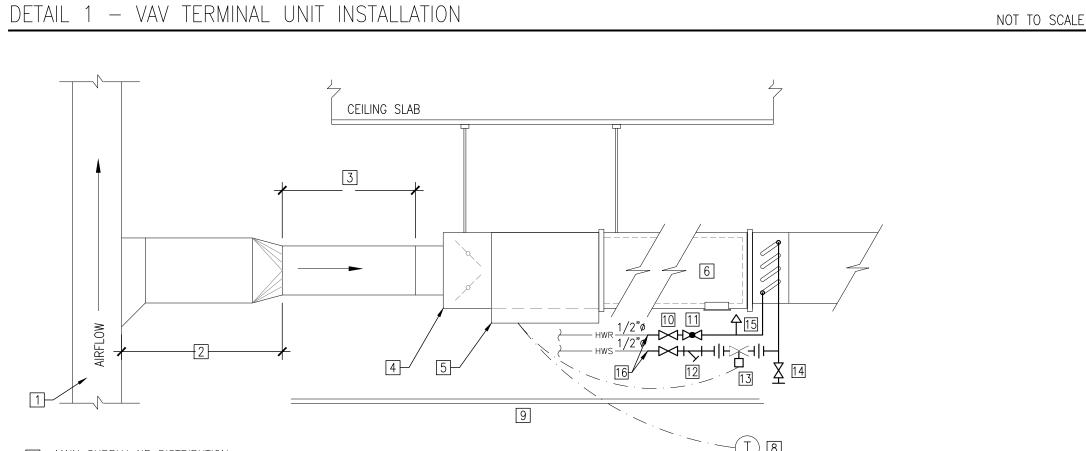
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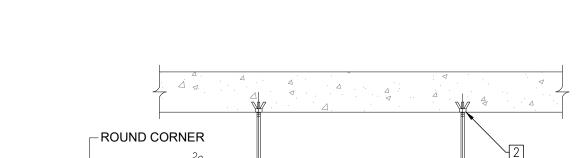
SYMBOL	DESCRIPTION
_/	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	NEW WORK
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	INTERNALLY LINED DUCT
<i></i>	THERMALLY INSULATED DUCT
	DUCT ACCESS PANEL
	SQUARE CONE/PLAQUE DIFFUSER
	RETURN GRILLE
<u>~</u>	AIRFLOW DIRECTION
→ BD	BALANCING DAMPER
———FD	FIRE DAMPER
M	MOTORIZED DAMPER
AFF	ABOVE FINISHED FLOOR
BDD	BACK DRAFT DAMPER
CO	CLEANOUT
CTE	CONNECT TO EXISTING
FF	FINISHED FLOOR LEVEL
TYP	TYPICAL
REL	RELOCATED
R	DISCONNECT AND REMOVE
N	NEW
EX	EXISITNG TO REMAIN
(FE)	FIRE EXTINGUISHER
+	SPRINKLER HEAD, PENDENT SEMI-RECESSED
©	SPRINKLER HEAD, UPRIGHT EXPOSED
0	SPRINKLER HEAD, CONCEALED
U/C	DOOR UNDERCUT
	VAV BOX
	VAV BOX WITH REHEAT COIL
S	TEMPERATURE SENSOR

	SCHEDULE OF GRILLES, REGISTERS AND DIFFUSERS									
DESI	DESIGNATION 'X'-Y"Ø-Z (X)-TAG OF DIFFUSER/GRILLE, (Y)-SIZE OF GRILLE OR DIFFUSER NECK AND BRANCH DUCT, (Z)-AIR QUANTITY (CFM)									
TAG	TYPE	SIZE	MOUNTING	MODEL (BASED ON NAILOR)	ACCESSORIES					
A1	SUPPLY CEILING DIFFUSER - SQUARE	24"x24"	T-BAR/DRYWALL	RNS TYPE L						
A2	SUPPLY CEILING DIFFUSER - SQUARE	12"x12"	T-BAR/DRYWALL	RNS TYPE L						
B1	SUPPLY CEILING DIFFUSER - PLAQUE	24"x24"	T-BAR/DRYWALL	UNI TYPE L						
С	SUPPLY CEILING DIFFUSER - ROUND	SEE DRAWING	DUCT	RNR	4275 RADIAL DAMPER					
D	SUPPLY GRILLE - DOUBLE DEFLECTION	SEE DRAWING	AS INDICATED	61DH-0	OPPOSED BLADE DAMPER					
Е	EXHAUST GRILLE - FIXED SINGLE BLADE	SEE DRAWING	AS INDICATED	6155-0	OPPOSED BLADE DAMPER					
L	SUPPLY LINEAR SLOT DIFFUSER	SEE DRAWING	AS INDICATED	5000 SERIES	C/W PLENUMS 5300 SERIES, FRAME AS REQUIRED					
R	RETURN GRILLE - EGGCRATE 1/2"x1/2"x1"	SEE DRAWING	T-BAR/DRYWALL	51EC TYPE PLS						
Т	TRANSFER GRILLE - DOOR	SEE DRAWING	DOOR							
Χ	EXISTING GRILLE OR DIFFUSER TO REMAIN, IN	SPECT, CLEAN AN	D RE-BALANCE. PA	INT IF REQUIRED.						
INSTA	X EXISTING GRILLE OR DIFFUSER TO REMAIN, INSPECT, CLEAN AND RE-BALANCE. PAINT IF REQUIRED. **ILL DIFFUSERS AND GRILLES SHALL HAVE BAKED ENAMEL FINISH TO MATCH CEILINGS. COLOUR TO BE CONFIRMED. **INSTALL BLANK-OFF PANELS WHERE INDICATED **IASIS OF DESIGN AND SPECIFICATION 'NAILOR INDUSTRIES INC.', EQUALS ARE ACCEPTABLE									

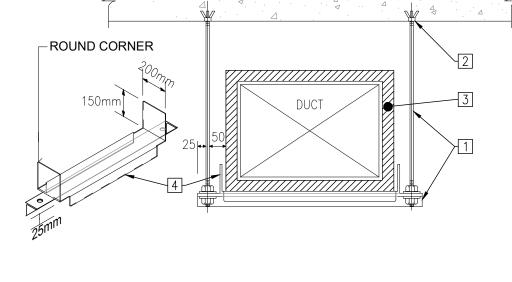
7011			MIN AIR FLOW	MAX AIR FLOW	MODEL	
ZONE DAMPER TAG	AREA SERVED	BOX SIZE	(CFM)	(CFM)	(PRICE)	REMARKS
VAV-1	BOARDROOM	8"	120	515	SDV-08	C/W, SPRING ISOLATORS, SACTUATOR, TRANSFORMER AND REMOTE WIRED THERMOSTAT, HOT WATER COI 1ROW, 24.8 MBH, 515 CFM



- 1 MAIN SUPPLY AIR DISTRIBUTION.
- 2 FOR DUCT BRANCHES TO TERMINAL UNIT EXCEEDING 10FT (3m) EQUIVALENT LENGTH, PROVIDE AN OVERSIZED DUCT CONNECTION C/W RECTANGULAR TO SPIRAL DUCT TRANSITION.
- 3 RIGID STRAIGHT SPIRAL DUCT SHALL BE AT MINIMUM 3 TIMES THE DIAMETER OF VAV INLET.
- 4 VAV TERMINAL UNIT, REFER TO SPECIFICATIONS, SCHEDULES FOR PERFORMANCE AND PLANS FOR LOCATIONS.
- 5 VAV CONTROLLER, PROVIDED BY TERMINAL UNIT SUPPLIER (UNLESS OTHERWISE INDICATED). CONFIRM COMMUNICATION PROTOCOL WITH CONTROLS SUPPLIER.
- 6 SILENCER/ATTENUATOR.
- 7 DUCTWORK DISTRIBUTION, PROVIDE REQUIRED TRANSITIONS. REFER TO PLANS FOR LAYOUTS.
- 8 NEW SPACE THERMOSTAT, PROVIDE WIRING TO TERMINAL UNIT CONTROLLER. REFER TO FLOOR PLANS FOR LOCATIONS.
- 9 CEILING SYSTEM ACOUSTIC CEILING TILE OR PLASTER, REFER TO DRAWINGS FOR TYPE. REMOVE AND REINSTATE AS REQUIRED TO MATCH EXISTING FINISHES. PROVIDE CEILING TACK LABEL AT ALL LOCATIONS OF VAV TERMINALS. COLOR SCHEME TO MATCH BASEBUILDING, OTHERWISE USE BLUE.
- 10 BALL VALVE.
- 11 CIRCUIT BALANCING VALVE.
- 12 Y-STRAINER.
- 13 NEW 2-WAY MODULATING CONTROL VALVE (BALL TYPE), DDC. PROVIDE UNIONS TO ALLOW VALVE REPLACEMENT AND REDUCERS ON EACH SIDE AS REQUIRED. VALVE SHALL BE WIRED TO VAV CONTROLLER.
- 14 NEW 1/2"Ø BALL VALVE DRAIN WITH HOSE CONNECTION, CHAIN AND CAP.
- 15 MANUAL AIR VENT.
- 16 PROVIDE BLACK STEEL SCHEDULE 40 PIPING CONNECTIONS TO VAV REHEAT COIL C/W VALVES AND FITTINGS AS INDICATED.



NOT TO SCALE



1 PROVIDE THREADED RODS AND ANGLE SUPPORT AS FOLLOWS

DUCT SIZE	ANGLE SIZE	ROD SIZE
(mm)	(MM)	(MM)
ÙP TO 750	25 X 25 X 3	6
751 TO 1500	40 X 40 X 3	10
1501 TO 2100	50 X 50 X 3	10
2101 TO 2400	50 X 50 X 5	10
2401 AND OVER	50 X 50 X 6	10

2 SUPPORT UPPER HANGER FROM STRUCTURE AS FOLLOWS:

CONCRETE: MANUFACTURED CONCRETE INSERTS
STEEL JOIST: MANUFACTURED JOIST CLAMP
STEEL BEAM: MANUFACTURED BEAM CLAMP

3 DUCT INSULATION, WHERE SPECIFIED.

DETAIL 2 - DUCT HANGER

4 PROVIDE 20 GAUGE GALVANIZED STEEL SUPPORT BELOW ALL INSULATED DUCTWORK.

GENERAL NOTES: 1. ALL STEEL SUP

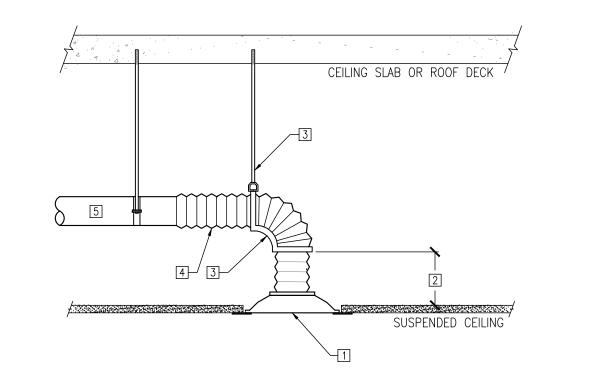
1. ALL STEEL SUPPORTS SHALL BE PAINTED WITH ZINC RICH PAINT. PROVIDE PAINT TO MATCH CEILING FINISHES (FINAL FINISH TO BE APPROVED BY CONSULTANT OR ARCHITECT) IN ALL EXPOSED AREAS.

EXPOSED AREAS.

2. HANGER SPACING SHALL BE IN ACCORDANCE WITH SMACNA AND AT MINIMUM EVERY 3m FOR DUCTS WIDTHS UNDER 1,500mm AND EVERY 2.5m FOR DUCTS WIDTHS ABOVE 1,500mm.

DETAIL 3 - DIFFUSER INSTALLATION

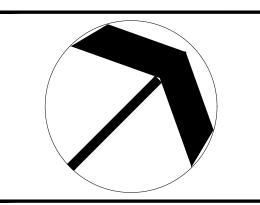
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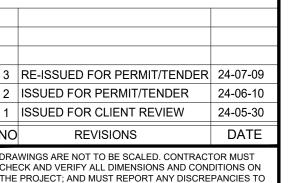


- 1 CEILING DIFFUSER OR GRILLE, SEE SCHEDULED FOR TYPES. PROVIDE ALL REQUIRED HARDWARE FOR MOUNTING IN VARIOUS CEILING TYPES TO SUIT EACH AREA OF WORK. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 2 MINIMUM VERTICAL STRAIGHT RUN UPSTREAM OF DIFFUSER SHALL BE EQUIVALENT TO 1xD, PROVIDE 3xD WHERE CEILING PLENUM ALLOWS. INSTALL SUPPORTS TO PREVENT DAMAGE TO FLEXIBLE DUCT.
- RIGID ELBOW SUPPORT 'THERMAFLEX FLEXFLOW ELBOW' OR EQUIVALENT, SUSPEND FROM CEILING STRUCTURE.
- 4 FLEXIBLE DUCT, MAXIMUM LENGTH NOT TO EXCEED 1.8m (6FT).
- FIGID DUCT, PROVIDE SECURE CONNECTION WITH FLEXIBLE DUCT. MAINTAIN ALIGNMENT WITH FLEXIBLE DUCT AND SUPPORT FROM STRUCTURE IN ACCORDANCE WITH SMACNA.

NOTE: THERMAL INSULATION ON RIGID OR FLEXIBLE DUCTWORK NOT SHOWN, PROVIDE IN ACCORDANCE WITH THE SPECIFICATIONS.











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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION 1225 TRAFALGAR RD

MECHANICAL SPECIFICATIONS AND SCHEDULES

OAKVILLE, ON. L6H 0H3

GRGURIC ARCHITECTS INCORPORATED



28 KING STREET EAST, UNIT B STONEY CREEK, ONTARIO, L8G 1J8 Tel. 905-664-8735 Fax. 905-664-8737 Web: www.2gai.com

SCALE: PROJECT:
AS NOTED

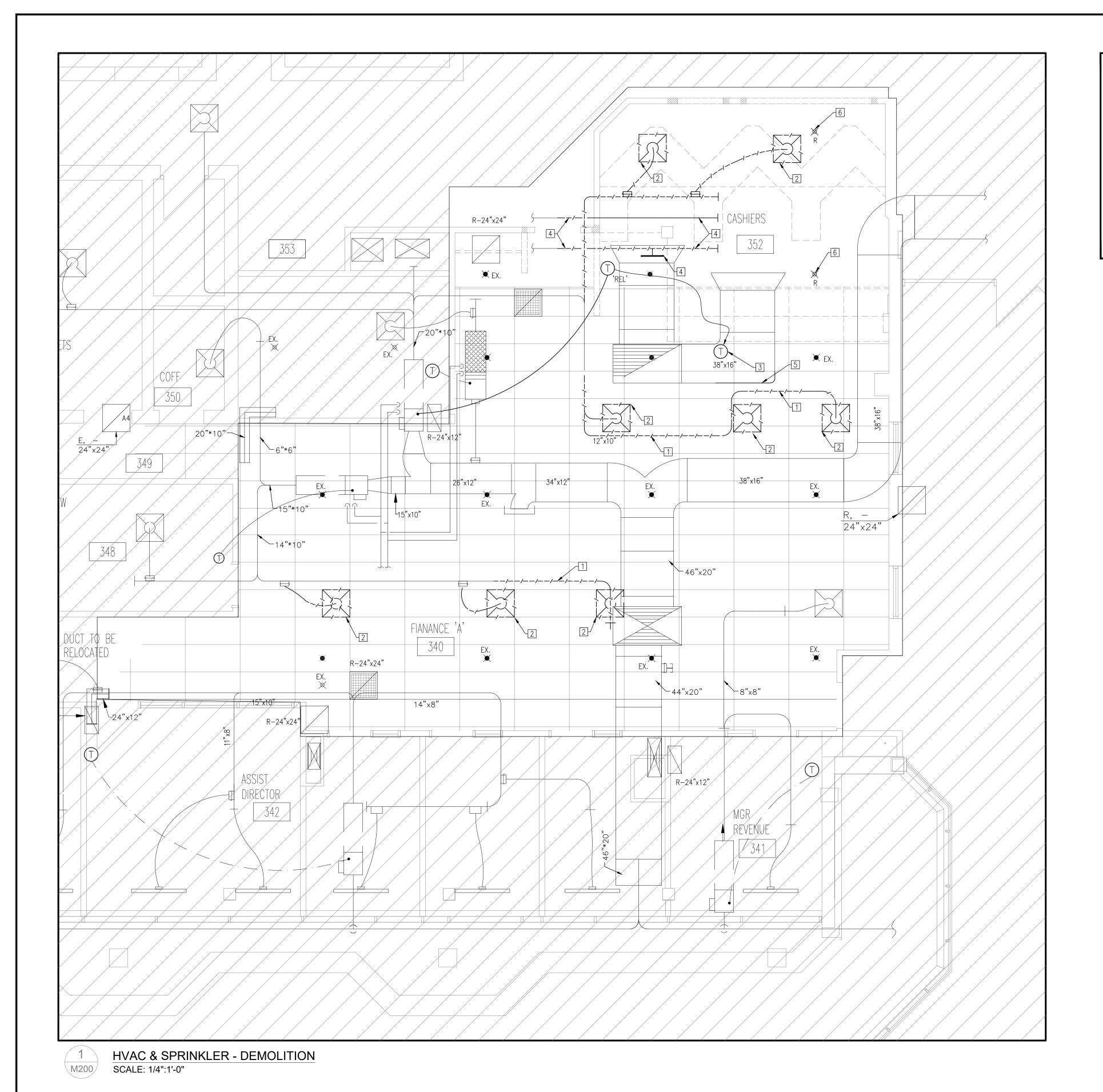
START DATE: MAY 2024

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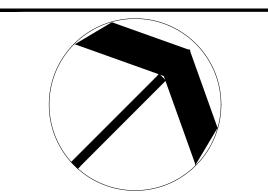
DRAWN DRAWING:

M101



- 1 DEMOLISH EXISTING SUPPLY AIR DUCTWORK. MAKE LOCATION READY FOR NEW INSTALLATION.
- 2 DEMOLISH EXISTING SUPPLY DIFFUSER.
- 3 RELOCATE EXISTING THERMOSTAT AS SHOWN.
- 4 DEMOLISH EXISTING OBSOLETE DUCTWORK ABOVE BULKHEAD C/W SIDEWALL GRILLE, CAP AT EXISTING SHAFT.
- 5 MODIFY EXISTING RETURN AIR DUCT TO ROOF TOP UNIT, REFER TO M201 FOR MORE
- 6 EXISTING SPRINKLER HEAR TO BE REMOVED TO ACCOMMODATE CEILING MODIFICATIONS.
 REROUTE AND OFFSET PIPING ABOVE BULKHEAD TO SUIT. REFER TO M201 FOR MODIFICATIONS AND NEW LAYOUT.





RE-ISSUED FOR PERMIT/TENDER	24-07-09
SSUED FOR PERMIT/TENDER	24-06-10
SSUED FOR CLIENT REVIEW	24-05-30

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK.
THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDE
WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

REVISIONS





222 ISLINGTON AVE, SUITE 260 TORONTO, ONTARIO, M8V 3W7 www.dynamiseng.com

OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

1225 TRAFALGAR RD OAKVILLE, ON. L6H 0H3

MECHANICAL DEMOLITION

GRGURIC ARCHITECTS INCORPORATED



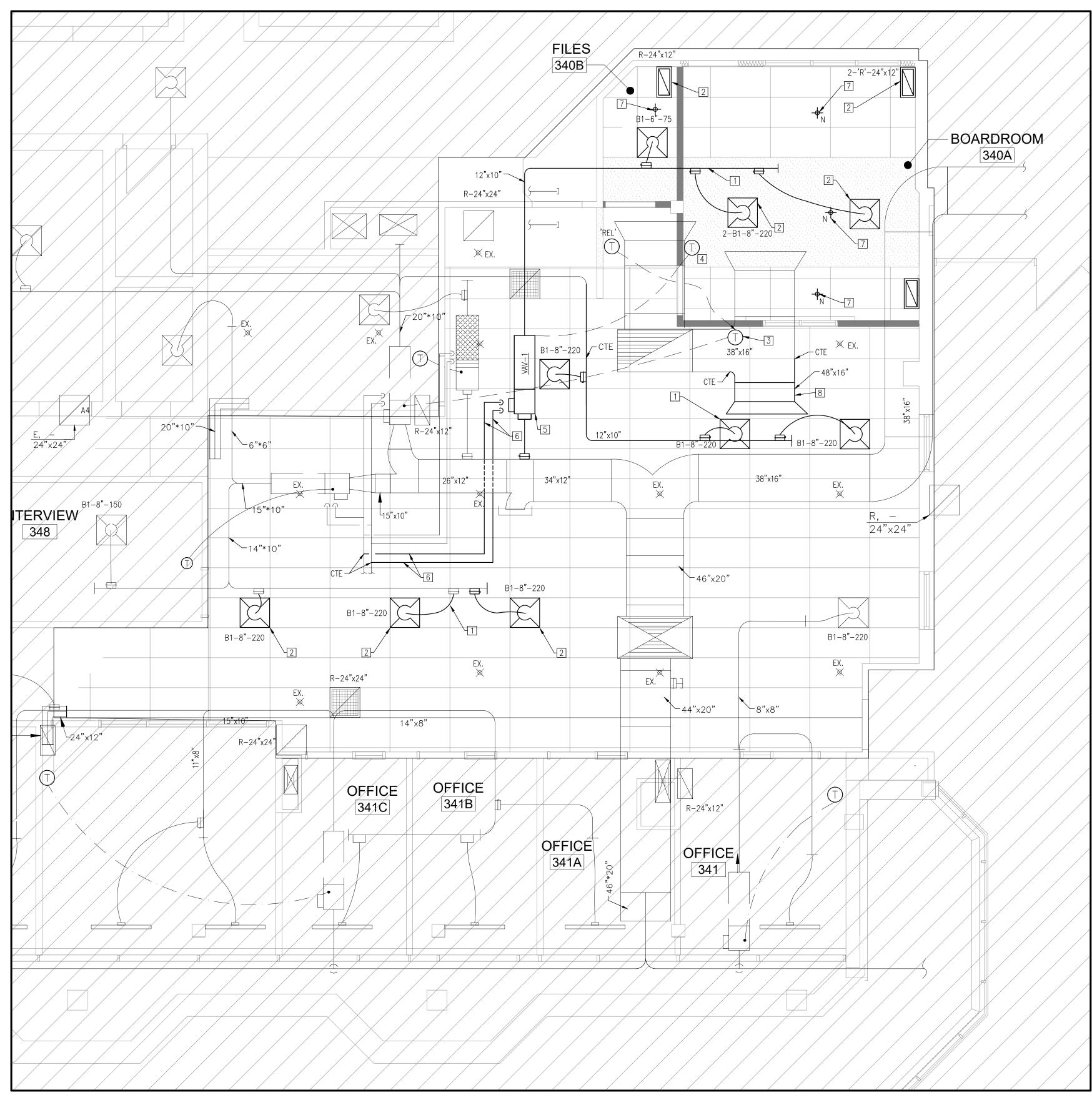
28 KING STREET EAST, UNIT B STONEY CREEK, ONTARIO, L8G 1J8 Tel. 905-664-8735 Fax. 905-664-8737 Web: www.2gai.com

SCALE:	PROJECT:
AS NOTED	00
START DATE:	20
MAY 2024	

2024-08

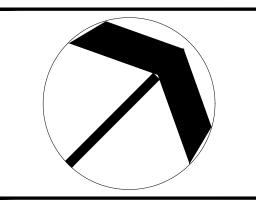
CHECKED

PRINT DATE



- 1 PROVIDE NEW SUPPLY AIR DUCTWORK C/W BALANCING DAMPERS, DIFFUSERS AS INDICATED.
- 2 PROVIDE NEW RETURN AIR GRILLE.
- 3 RELOCATE EXISTING THERMOSTAT AS SHOWN.
- 4 PROVIDE AND INSTALL NEW THERMOSTAT.
- PROVIDE NEW VAV TERMINAL UNIT AS PER EQUIPMENT SCHEDULE. INSTALL AS PER MANUFACTURER INSTRUCTIONS C/W WATER HEATING COIL, VALVE AND CONTROL. PROVIDE BAS INTEGRATION TO EXISTING BAS BY BASEBUILDING CONTROLS VENDOR. ALLOW FOR REMOVAL AND RE—INSTATEMENT OF THE ACOUSTIC CEILING TILE AS REQUIRED.
- 6 PROVIDE NEW 1/2"Ø HEATING PIPING TO NEW VAV TERMINAL UNIT, REFER TO DETAILS FOR MORE INFORMATION. CONTRACTOR TO VERIFY THE TIE-IN POINT ON THE SITE.
- PROVIDE AND INSTALL NEW SPRINKLER HEAD, EXTEND SPRINKLER BRANCH PIPING FROM NEAREST MAIN TO SUIT. ALL WORK SHALL BE COMPLETED BY BASEBUILDING FIRE PROTECTION VENDOR
- MODIFY EXISTING RETURN AIR PLENUM TO ROOF TOP UNIT AS INDICATED, ADD 48"x16" RETURN AIR CONNECTION AS INDICATED, TERMINATE WITH BELL MOUTH AND WIRE MESH. REPAIR EXISTING AND PROVIDE NEW ACOUSTIC LINING.





RE-ISSUED FOR PERMIT/TENDER	24-07-09
ISSUED FOR PERMIT/TENDER	24-06-10
ISSUED FOR CLIENT REVIEW	24-05-30
REVISIONS	DATE

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DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST





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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

1225 TRAFALGAR RD OAKVILLE, ON. L6H 0H3

MECHANICAL NEW CONSTRUCTION

GRGURIC ARCHITECTS INCORPORATED



28 KING STREET EAST, UNIT B STONEY CREEK, ONTARIO, L8G 1J8 Tel. 905-664-8735 Fax. 905-664-8737 Web: www.2gai.com

SCALE:	PROJECT:
AS NOTED	١؞؞
START DATE:	1 20
MAY 2024	

2024-08

DRAWN AH CHECKED

PRINT DATE

M201

HVAC & SPRINKLER - NEW CONSTRUCTION SCALE: 1/4":1'-0"

ELECTRICAL GENERAL SPECIFICATION

CODES & STANDARDS

1.1.Complete the installation of the work in accordance with latest editions of the Ontario Building Code, Provincial Electrical Safety Code, CSA Standards, ULC, NFPA, OSHA and other Codes, as required. Comply with Electrical and Building Code Bulletins in force at time of Bid submission.

EXISTING CONDITIONS

2.1. Visit the site and examine the existing conditions affecting the work of this Division. No claim for extra payment shall be made for extra work made necessary by circumstances encountered due to conditions which were visible upon, or reasonably inferable from an examination of the site prior to submission of the Bid. This includes the existing services to property or related to this property.

<u>DEFINITIONS</u>

3.1. Wherever the words "provide" or "supply and install", are used, it shall be understood to mean "provide and install, inclusive of all labour, materials, installation, testing, and connections" for the item to which it references

MATERIALS AND EQUIPMENT

4.1.All materials and equipment shall be new, CSA certified and manufactured to the standards specified. 4.2. Where there is no alternative to supplying equipment which is not CSA certified, obtain special approval from the Local Inspection Department.

5.1. Submit to the local Electrical Inspection Department, the necessary number of Documents for examination, special inspection, and approval, prior to the commencement of the work, and pay all

5.2.Provide Certificate(s) of Acceptance from the Authorities Inspection Department, upon completion of

6.1.Provide and maintain insurance to protect the Owners and Trades from all possible claims. Submit with Bid for an amount acceptable to Owner and General Contractor.

CONTRACT DOCUMENTS

7.1. The drawings for the Electrical work are diagrammatic performance Drawings only, intended to convey the scope of work and indicate the general arrangement and approximate location of electrical equipment. The drawings do not intend to show Architectural, Interior Design, Mechanical, Structural, or base building details. Be responsible for a thorough knowledge of same before proceeding with

7.2.Do not scale or measure drawings but obtain information regarding accurate dimensions from the

dimensions shown on the Design Consultant/Architect's drawing. 7.3. Any discrepancies between drawings and/or specifications and existing conditions, must be referred to

the Consultant of Record before any work affected is begun. 7.4.Cooperate and coordinate with other trades in laying out of work so as not to conflict with the work of other trades. Carry out work promptly as per construction schedule and coordinate with work of

other trades. 7.5.Make, at no additional cost, any changes or additions to materials and equipment necessary to accommodate structural conditions (offsets around beams, column, etc.)

8.1.It is the intent of these drawings and specifications that the Contractor provide complete and operational systems as required.

8.2. Where differences occur, the maximum condition shall govern. 8.3.Any miscellaneous items, hardware, devices, wiring, etc., not specifically described, but required for the operation of the system, must be provided, and included as part of the bid.

9. <u>INSERTS, HANGERS AND SLEEVES</u>

9.1.Provide hangers, inserts, sleeves, and supports as required from structure. 9.2.Hangers must not be welded to structural steel members and burning of holes in structural steel is

9.3.Do not use any base building supports or equipment, including ceiling support system. Support from

structural members.

<u>CUTTING AND PATCHING</u> 10.1.Cutting and patching required to the existing building structure for the work shall be included under this contract and be acceptable to the General Contractor. Obtain written approval from

General Contractor before any cutting is carried out. 10.2. Where conduits pass through fire rated walls or floors, provide fire stopping material listed with, and bear label of CSA and ULC, and maintain same fire rating of building component

LOCATION OF OUTLETS

11.1.Refer to Consultant's and/or Architect's drawings for exact locations of all lighting fixtures and wiring devices, if required.

11.2.Alter location of outlets at no cost or credit, providing distance does not exceed 3m (10'-0") and information is given before rough—in.

11.3.All outlets to be marked on job site for approval by Design Consultant/Architect prior to installation.

12. <u>PLYWOOD</u>

12.1.Plywood backboards shall be 19mm (3/4) thick, of highest quality fire retardant fir. Refer to drawings for size. Prime and paint backboards with fire retardant paint equal to CAN/CGSB-1.151-92, of a colour as selected by the Design Consultant/Architect.

13.1. Wherever any base building equipment requires accessibility, maintenance, or adjustment, provide access doors approved by Consultant, Architect and Owner.

14. <u>CORE DRILLING</u>

14.1.Before core drilling floor slab or structural walls, X-ray slab or walls and have the locations accepted by the General Contractor in writing. 14.2.Any building service damaged by core drilling must be repaired immediately at no cost to General Contractor.

15. NOISE AND VIBRATION

15.1.Electrical equipment is to operate without objectionable noise or vibration. If, in the opinion of the Consultant, the equipment operates with excessive noise or vibration, then the equipment must be replaced, or noise or vibration eliminated.

15.2. Connections to noise-producing and vibrating equipment must be made with flexible conduit. This includes transformers, dimming equipment racks, and motors. Use a minimum of 1m (3 ft) of

flexible cable with slack at each device. 15.3. Vibration isolators are to be provided where indicated or required. Transformers to be isolated from the structure, with spring and rubber isolators when wall mounted or suspended and 12mm («") high density neoprene sandwich pads (type MWP) when floor mounted.

16.1.Provide all Electrical Services on site plan to Hydro regulations weather stipulated or not. 16.2.Obtain all permits for new Hydro service, pay all fees for new service as arranged with General Contractor.

17. <u>INTERRUPTION OF SERVICES</u>

16.3. Provide all excavation and backfill required for this section.

17.1.Interruption of electrical service to any part of the building shall occur only by pre-arrangement with and at times suitable to the Landlord.

17.2.Interruptions shall only occur during premium time periods; all allowances for this shall be

included in the price submitted

18.1.Provide lamacoid nameplates on all metering switchboard, panels, disconnect switches, splitters, etc., to match base building. Nameplates shall be mechanically attached to equipment.

18.2.Provide typewritten directories for new and existing panels. Confirm existing identification and correct where necessary. 18.3.Clearly mark all exposed conduit, pullboxes, junction boxes, etc., to indicate the nature of the service to match base building standards.

19. VALUATION OF CHANGES

19.1.Provide complete breakdown of material, labour, overhead, profit, etc., when submitting quotations for change notices on this project. 19.2. The hourly labour rate shall be inclusive of all charges for supervision, variable labour factors, hand tools, payroll burdens, height factors, warranties, storage, rentals, additional bonding, parking,

clean—up, as—built drawings, hoisting, freight and delivery, but exclusive of overhead and profit. 19.3.The labour hours shall be based on the latest issue of the National Electrical Contractors

Association (NECA) labour units, column one normal for the duration of this contract. 19.4.The material prices shall be based on the current National Prices System (NPS) catalogue less applicable trade discounts.

20. <u>COMPLETION OF CONTRACT</u>

20.1.Provide shop drawings for approval of all equipment specified to be used on this project. 20.2.From the date of issuance of a "Certificate of Substantial Performance", provide a written quarantee for one year covering all equipment, materials, and workmanship, other than lamps. Insert in operations and maintenance manual.

20.3.Defects and deficiencies which originate or become evident during the warranty period must be repaired or replaced, at no cost.

20.4.Replace, at no cost, all lamps burned—out during ninety (90) days after date of issuance of

certificate of "Substantial Performance" for the contract for the work. 20.5.lf, during the warranty period, transformers, ballasts or other noise and vibration producing equipment are considered by the Consultant to exceed acceptable standards, then these must be replaced without delay or additional cost to the Project. All work relating to the replacement of defective items, must be carried out after normal working hours and at a time which is acceptable

by the Owner. 20.6.All the equipment must be cleaned and tested before final acceptance by the Consultant.

21. <u>AS-BUILT DRAWINGS</u>

21.1.At the completion of work and before final acceptance, provide As—Built drawings, in AutoCAD format and in the Owner standards. Drawing files can be obtained from the Consultant. 21.2.Incorporate all changes and deviations from tender drawings, utilizing normal recognized drafting

procedures that match the original drafting methodology. 21.3.All main branch conduit runs, junction box locations, conduit runs for all floor outlets, etc.,

must be reflected on the drawings. 21.4.Clearly indicate the words "Record Drawings" in the title block column of the drawings as well as the Electrical Contractor's name and address.

21.5. Submit a soft copy (PDF and DWG) to the consultant for review and acceptance

22. OPERATION AND MAINTENANCE MANUALS 22.1.Provide soft copy (PDF) of operation and maintenance manuals. Include the following information in the Operations and Maintenance manuals:

• Names and address of local suppliers for the items included.

• Technical data, product data, supplemented by bulletins, component illustrations, exploded views, technical descriptions of items, and parts lists. Advertising or sales literature is not acceptable. • The Consultants reviewed shop drawings.

• Certificate(s) of acceptance from the Authorities Inspection Department. • Verification reports and certificate(s) for any new fire alarm components or tie—ins and any base

building tie-ins for miscellaneous systems (i.e. security, lighting control, digital metering). Load balance report • Written guarantee

22.1.Review information provided in the maintenance instructions and manuals with the Tenant's operating personnel and Landlord's operating personnel where base building systems are revised, to ensure a complete understanding of the electrical equipment and systems and their operation.

The fire alarm system shall be modified by a qualified contractor, approved by the facility.

Hamilton Fire Control Contact name: Frank Tracey Work: (905) 527-7042 Mobile: (289) 339-7598

Email: <u>hfc@cogeco.ca</u>

ELECTRICAL SPECIFICATION - MATERIAL AND INSTALLATION

CONDUITS AND CONDUIT FITTINGS

1.1. Provide all conduit up to and including 100mm (4") size, as EMT thin wall with steel set screw couplings and connectors. 1.2. Provide flexible metal conduit for connection to motors and transformers.

1.3.Install conduits to conserve headroom, parallel and perpendicular to building lines. Do not caddie clip conduits to ceiling hangers. 1.4. All empty conduits shall be complete with nylon fish wire.

1.5. All communications conduit shall be installed complete with bushings at each end. The contractor shall inform the consultant of any communications conduit lengths in excess of 70m (230 ft.)

JUNCTION BOXES AND PULL BOXES

2.1. They shall be suitable for surface mounting and be of welded steel construction with screw-on flat 2.2.For flush—mounted pull and junction boxes, provide covers with 25mm (1") minimum extension all

2.3.Install junction and pull boxes in inconspicuous but accessible locations. 2.4.A minimum of one pull box shall be installed for every 100 ft. (30m) of conduit. (Note: each 90

deg. bend shall equate to a 30 ft. (9m) length of conduit). 2.5.No more than two (2) - 90 deg. bends shall be installed between any two adjacent pull boxes.

3.1.Outlet boxes shall be electro-galvanized steel, sized as required by code. 3.2.Provide each light switch, receptacle, communication and other outlet with an outlet box. Install

plumb and true. Provide 75mm (3") deep, type 1004 boxes for dimming switches. 3.3.Adapt all outlet boxes to their respective locations and support independently of the conduit. Do not caddie clip to ceiling hangers. 3.4. Provide blank coverplates for boxes without wiring devices.

3.5.Do not install outlet boxes back to back in partitions. Stagger to prevent sound transfer. 3.6.Two or more outlet boxes that occur at the same location shall be ganged together in the same coverplate unless otherwise noted.

WIRE AND CABLE

4.1.All wire and cable shall be copper, minimum 12 gauge, #12 and #10 solid, #8 and larger stranded, with RW90 insulation. 4.2.BX cable #12 may be used in ceiling space from ceiling distribution box down to receptacles in

4.3.Contractor shall upsize all wires and associated conduit to meet maximum 2 % voltage drop per 4.4.All home runs to be in conduit.

partitions. BX runs in ceiling space not to exceed 3m (10') in length.

INSTALLATION OF CABLES IN DUCTS

5.1.<u>DUCT_SEALING_COMPOUND</u> 5.1.1. Duct sealing compound shall be a non—thermoplastic compound and shall allow for expansion and contraction of ducts and cables, without loss of sealing properties.

5.2. CABLE INSTALLATION IN DUCTS

5.2.1. Before installation of cables, pull stiff bristle brush through each duct. 5.2.2. Install cables as indicated. Do not pull spliced cables inside ducts.

5.2.3. Install multiple cables in ducts simultaneously.

5.2.4. Use lubricant to reduce pulling tension.

5.2.5. To facilitate matching of colour coded multiconductor control cables, reel off in same direction during installation.

6.1.All new panelboards, disconnect switches, meters, transformers, etc. to be same manufacture, rating and type as base building equipment unless otherwise noted. Moulded case circuit breakers to be bolt—on and same manufacturer, rating and type as base building breakers. If unable to match base building equipment, one of the following manufacturer's equipment must be provided: Schneider Electric Eaton

7.1.Cable troughs, as defined in CSA C22.2, No. 126, accessories and fittings shall be manufactured to EMAC F5.1.

7.2.Unless otherwise noted, power systems and teledata/hub room cable trays shall be ventilated steel, Class C1, without cover, sized as indicated and with a natural finish. 3.Supports shall be rod and channel of a size to suit total load.

7.4. Supply all bends, elbows, end plates, drop outs, tees, wyes and expansion joints for the complete system as required.

7.5.Remove sharp edges to prevent cable damage or injury to personnel.

Siemens

8.1.Ground all equipment in accordance with latest edition of the Electrical Safety Code. Provide separate green insulated ground conductor in every conduit to all devices, luminaires and feeders (panelboards, splitters, disconnect switches, etc.)

MECHANICAL TRADES WIRING

9.1.Unless otherwise noted, all starters and control wiring to be provided by Division 15. Division 16 to receive, install starters and provide all power wiring and required isolating disconnect switches. 9.2.Confirm electrical requirements and exact locations of all mechanical equipment with Division 15 prior to installation.

KEYPLAN (1/16"=1'-0")

LP-EF 👖

10. MEGGERING AND BALANCING

10.1.Megger all power circuit feeders. If ground resistance on any circuit is less than that required by CSA or other governing regulations, such circuits are to be considered defective and must be replaced.

10.2.Measure phase current to panelboards with normal loads operating at time of acceptance. Adjust branch circuit connections as required to obtain best balance of current between phases and submit a report for insertion into manuals.

11.1.Duplex receptacles, CSA type 5-15 R, 125 V, 15 A, U ground, to: CSA-C22.2 No.42 with following features:

11.1.1. Ivory thermoplastic moulded housing. 11.1.2. Suitable for No. 10 AWG for back and side wiring.

11.1.3. Break-off links for use as split receptacles. 11.1.4. Eight back wired entrances, four side wiring screws.

11.1.5. Triple wipe contacts and rivetted grounding contacts. 11.1.6. Specification grade.

11.2. Single receptacles CSA type 5-15 R, 125 V, 15 A, U ground with following features: 11.2.1. Ivory thermoplastic moulded housing.

11.2.2. Suitable for No. 10 AWG for back and side wiring. 11.2.3. Four back wired entrances, 2 side wiring screws.

12.1.Cover plates for wiring devices to: CSA-C22.2 No.42.1. 12.2. Cover plates from one manufacturer throughout project.

12.3. Sheet steel utility box cover for wiring devices installed in surface-mounted utility boxes. 12.4.Nylon ivory or stainless steel cover plates as indicated, thickness 2.5 mm for wiring devices mounted in flush-mounted outlet box.

12.5.Sheet metal cover plates for wiring devices mounted in surface-mounted FS or FD type 12.6.Weatherproof double lift spring—loaded cast aluminum cover plates, complete with gaskets for duplex receptacles as indicated.

12.7. Weatherproof spring—loaded cast aluminum cover plates complete with gaskets for single receptacles or switches. 12.8.All wiring device cover plates to be labeled using clear adhesive strips with black type identifying panel and circuit number for each device.

13. GENERAL LIGHTING, EXIT LIGHTS, EMERGENCY LIGHTING

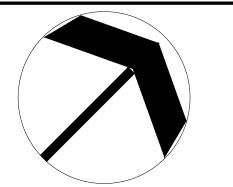
13.1.Locate and install new lighting fixtures as shown on lighting layout and as indicated in the lighting schedule. All lighting shall be CSA, cUL approved. Install accessories provided with each fixture and install per manufacturer installation instructions.

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13.2. All new exit lighting shall be green running man type complete with mounting accessories led. 13.2.1. LITHONIA LIGHTING, TCE—RM, 120V—1ph, steel, see symbol for pictogram (single face, double face, arrow)

END OF MATERIALS & INSTALLATION





3	RE-ISSUED FOR PERMIT/TENDER	24-07-09
2	ISSUED FOR PERMIT/TENDER	24-06-10
1	ISSUED FOR CLIENT REVIEW	24-05-30
NO	REVISIONS	DATE

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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

1225 TRAFALGAR RD

OAKVILLE, ON, L6H 0H3

ELECTRICAL SPECIFICATION

AND KEY PLAN





Web: www.2gai.com

SCALE: AS NOTED	PROJECT:
START DATE: MAY 2024	2024-0

DRAWING: CHECKED

DRAWN PRINT DATE

	LIGHTING SCHEDULE							
Label	Symbol	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Wattage	Notes
L1					EXISTING LIGHT FIXTURE TO BE RE-LAMPED	4		
L2	0	6	Juno Lighting	WF6 DREG SM ALO20 SWW5 90CRI 40K	6" Deep Regressed Wafer Downlight, Smooth, Selectable Lumens and Selectable CCT— 90CRI,40K,High Lumen,Matte White		15.5	C/W ACUITY BRANDS nWSXA WALL SWITCH SENSOR AND nPP PCD PHASE DIMMER, PROVIDE ALL REQUIRED CAT 5E CABLING BETWEEN WALL DIMMER AND POWER PACK.
L3	0	6	Juno Lighting	WF6 DREG SM ALO20 SWW5 90CRI 40K	6" Deep Regressed Wafer Downlight, Smooth, Selectable Lumens and Selectable CCT— 90CRI,40K,MEDIUM Lumen,Matte White		12.5	C/W ACUITY BRANDS nWSXA WALL SWITCH SENSOR AND nPP PCD PHASE DIMMER, PROVIDE ALL REQUIRED CAT 5E CABLING BETWEEN WALL DIMMER AND POWER PACK.
L4		1	Lithonia Lighting	CPX 1X4 4000LM 80CRI 40K SWL MIN10 ZT 120V	1'x4' suspended LED flat panel with external driver.		35.5	C/W WSX-D SENSOR SWITCH C/W PANEL AIRCRAFT KIT, 2 CABLE, Y SPLITTER WITH POWER FEED, LITHONIA CAT. PAC 2DF 36. LIGHT TO BE SUSPENDED AT SAME HEIGHT AS GYPSUM BULKHEAD
L5		1	Lithonia Lighting	CPX 2X4 4000LM 80CRI 40K SWL MIN10 ZT 120V	2'x4' recessed mounted LED flat panel with external driver.		35.5	C/W WSX-D SENSOR SWITCH

DEMOLITION SPECIFICATION

VISIT THE SITE AND EXAMINE ALL EXISTING CONDITIONS AND ALL TENDER DOCUMENTS, DRAWINGS AND SPECIFICATIONS AND MAKE NECESSARY ALLOWANCES IN TENDER PRICE FOR REMOVAL RELOCATION REROUTING RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND WIRING FOR THE EXECUTION AND COMPLETION OF THIS PROJECT. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED BY THIS TRADE THROUGH FAILURE TO MAKE THIS EXAMINATION.

REMOVE AND/OR RELOCATE AND REINSTALL ALL WIRING, FIXTURES AND EQUIPMENT AS NECESSARY TO ACCOMMODATE ARCHITECTURAL AND STRUCTURAL ALTERATIONS AND ADDITIONS AS INDICATED ON DRAWINGS. WIRING LOCATED IN THE AREAS BEING ALTERED OR DEMOLISHED BUT FEEDING OUTLETS OR EQUIPMENT REQUIRED TO REMAIN IN SERVICE SHALL BE REROUTED AS REQUIRED TO MAINTAIN CONTINUITY OF THESE SERVICES.

SUPPLY, INSTALL AND MAINTAIN ALL REQUIRED TEMPORARY WIRING TO OCCUPIED AREAS AT ALL TIMES. PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT SERVING THE EXISTING AND NEW AREAS AND PARTICULARLY WHERE WIRING AND EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL INJURY OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.

EXISTING ELECTRICAL EQUIPMENT REMOVED OR INDICATED FOR REUSE SHALL BE CLEANED BEFORE INSTALLATION. ALL UNUSED CONDUIT ENTRANCE OPENINGS SHALL BE SEALED BEFORE REINSTALLATION.

REUSED LIGHTING FIXTURES SHALL BE CLEANED AND RE-LAMPED WITH NEW LAMPS. EXISTING LIGHTING FIXTURES INDICATED FOR REUSE SHALL BE STORED SAFELY ON SITE UNTIL READY FOR INSTALLATION. ALL EXISTING LAMPS AND THE EXISTING FIXTURES NOT BEING REUSED SHALL BE HANDED OVER TO THE OWNERS. OBSOLETE CABLES AND CONDUIT SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK TO A SUITABLE POINT AND LEFT IN PLACE UNLESS THEY INTERFERE WITH NEW WORK IN WHICH CASE THEY SHALL BE REMOVED.

ITEMS IDENTIFIED AS EXISTING RELOCATED SHALL BE DISCONNECTED AND RECONNECTED IN A RELOCATED POSITION ALONG WITH ALL ELECTRICAL COMPONENTS. EXTEND WIRING AS EXISTING IF IN GOOD CONDITION. ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIAL NOT REQUIRED IN THE FINAL INSTALLATION SHALL BE CAREFULLY REMOVED AT THE APPROPRIATE TIME AND DISPOSED OF OR HANDED OVER TO OWNER.

GENERAL CONSTRUCTION NOTES

CONTRACTOR SHALL CONDUCT A SITE REVIEW PRIOR TO PRICING TO BECOME FAMILIAR WITH THE SITE CONDITIONS. VERIFY ALL LOCATIONS, SIZES, AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONSULTANT WITH PROPOSED RESOLUTION AND OBTAIN CONSULTANT'S APPROVAL.

ALL EXISTING SERVICES THAT ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE

ALL BASE BUILDING SERVICES NOT IN SCOPE ARE TO REMAIN ON AND INTACT DURING THE DURATION OF WORK. WIRING, CONDUIT, AND EQUIPMENT REQUIRED TO MAINTAIN SERVICE SHALL BE TEMPORARILY SUPPORTED, RE-ROUTED, SERVICED. OR RELOCATED AS REQUIRED. ANY LOSS OF SERVICES TO EXISTING BASE BUILDING OUTSIDE OF SCOPE OF WORK SHALL

ALL EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE LOCATIONS. EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE

SEAL AND FIRESTOP ALL WALL, FLOOR, AND ROOF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.

COORDINATE ALL ELECTRICAL WORK AND SHUTDOWNS WITH FACILITY MANAGEMENT AND OTHER TRADES.

COMPLETION OF WORK.

ALL ELECTRICAL BACK BOXES SHALL BE WRAPPED WITH ACOUSTIGUARD PUTTY PADS.

REFER TO ARCHITECT'S DRAWINGS FOR MOUNTING HEIGHTS AND COVER PLATE COLOURS.

CONSULTANT WITH PROPOSED RESOLUTIONS.

BE COORDINATED WITH FACILITY MANAGEMENT.

COORDINATED ON SITE WITH OTHER TRADES AND CONSULTANT.

MAKE GOOD ALL SURFACES, INCLUDING CORE HOLES FROM DEMOLISHED OR RELOCATED EQUIPMENT/DEVICES, AFTER

ALL MATERIALS SHALL BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT'S DRAWINGS.

PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.

PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.

<u>WORK BY OWNER</u>

1 THE OWNER HAS AWARDED CONTRACTS OR WILL EXECUTE USING OWN FORCES, FOR SUPPLY AND INSTALLATION OF THE FOLLOWING WORK, DURING THE EXECUTION OF THE WORK. IT WIRING AND EQUIPMENT

WIRELESS ACCESS POINT (WAP) .3 FURNITURE

2 CONTRACTOR RESPONSIBILITIES:

WORK BY THE OWNER

.1 PROVIDE SUPPORT SYSTEMS TO RECEIVE OWNER'S WORK, AS WELL AS PLUMBING, HVAC,

AND ELECTRICAL CONNECTIONS. BE PRESENT FOR DELIVERY AND ASSIST THE OWNER'S INSPECTION.

USE OWNER FURNISHED DELIVERY DATES IN CONTRACTOR'S CONSTRUCTION SCHEDULE. REVIEW SUBMITTALS FOR COORDINATION AND COMPATIBILITY WITH WORK. NOTIFY CONSULTANT OF DISCREPANCIES OR ANTICIPATED PROBLEMS REGARDING INCORPORATION OF THE

MAKE PROVISIONS FOR RECEIVING, UNLOADING, HANDLING, STORING OWNER FURNISHED

ITEMS AT PROJECT SITE. .6 MAKE PROVISIONS FOR STORAGE AND PROTECTING ITEMS FROM DAMAGE

OWNER-SUPPLIED PRODUCTS

GENERAL: OWNER WILL SUPPLY PRE-PURCHASE MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO AND DURING THE WORK. INCLUDE COSTS FOR RECEIVING, HANDLING, STORAGE IF REQUIRED, AND INSTALLATION OF MATERIAL AND EQUIPMENT IN THE CONTRACT SUM, UNLESS OTHERWISE INDICATED.

2 OWNER SUPPLIED PRODUCTS TO INCLUDE: TV SCREENS - 1 IN NUMBER

SPECIFIED EQUIPMENT, AND BE RESPONSIBLE FOR WARRANTY. SPECIFICATIONS FOR PRE-PURCHASED ITEMS ARE INCLUDED IN THE PROJECT SPECIFICATION,

OBTAIN THE NECESSARY SHOP DRAWINGS FOR THE PRODUCT AND PROCEED TO COORDINATE DETAILS FOR INSTALLATION, EXPEDITE, RECEIVE, UNLOAD, INSTALL, CONNECT AND TEST THE

INFORMATION ONLY .4 RECEIVE OWNER-SUPPLIED PRODUCTS AND EQUIPMENT F.O.B. AND STORE AND PROCESS

DESIGNATE SUBMITTALS AND DELIVERY DATE FOR EACH PRODUCT IN PROGRESS SCHEDULE. REVIEW SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SUBMITTALS. SUBMIT TO CONSULTANT, NOTIFICATION OF ANY OBSERVED DISCREPANCIES OR PROBLEMS ANTICIPATED

DUE TO NON-CONFORMANCE WITH CONTRACT DOCUMENTS. RECEIVE AND UNLOAD PRODUCTS AT SITE.

DEFECTIVE ITEMS.

INSPECT DELIVERIES JOINTLY WITH OWNER; RECORD SHORTAGES, AND DAMAGED OR

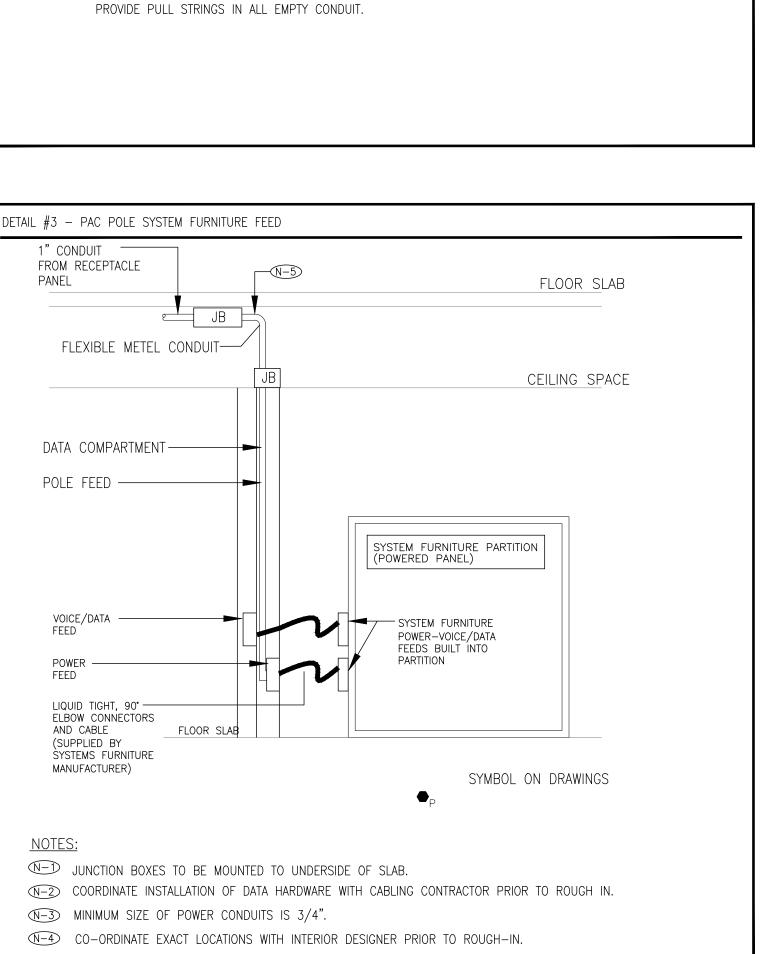
HANDLE PRODUCTS AT SITE, INCLUDING UNCRATING AND STORAGE.

PROTECT PRODUCTS FROM DAMAGE, AND FROM EXPOSURE TO ELEMENTS. ASSEMBLE, INSTALL, CONNECT, ADJUST, AND FINISH PRODUCTS.

ARRANGE FOR INSTALLATION INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES. REPAIR OR REPLACE ITEMS DAMAGED BY CONTRACTOR OR SUBCONTRACTOR ON SITE

(UNDER THEIR CONTROL).

DETAIL #2 - INSTALLATION DETAIL - WALL POWER AND DATA COMMUNICATION OUTLET PROVIDE 1-1/4" CONDUIT TO THE CEILING SPACE. PROVIDE DATA & VOICE CABLING -CAT 6A (FT6 PLENUM RATED) QUANTITY AS AC-90 CABLE TO THE -NOTED ON PLANS. REFER TO DRAWING E201 FOR EXACT CEILING SPACE. LOCATION. —DATA LABEL TYPICAL. -RJ45 JACKS, TYPICAL DUPLEX RECEPTACLE, TYPICAL WHERE INDICATED. J├----- DUPLEX DATA OUTLET. TYPICAL WHERE INDICATED. SINGLE GANG BACKBOX AND COVERPLATE BY THE ELECTRICAL CONTRACTOR ALL DATA AND VOICE WIRING SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SYMBOL ON DRAWINGS



(N-5) FURNITURE MANUFACTURER SUPPLIED WIRING HARNESS. ELECTRICAL CONTRACTOR TO TERMINATE

USING 90° FLEX CONNECTOR SIZED TO MATCH HARNESS.

(DETAIL #1) - FURNITURE SYSTEM CONNECTION - WALL FEED

(BY DIV. 26)

GENERAL NOTES:

CEILING SPACE.

AND FINAL CONNECTION.

COLUMN OR PARTITION

POWER TELE/DATA

2 GANG STAINLESS STEEL GROOMET SPLIT-PLATE WITH WHIP CONNECTOR FOR THE FURNITURE

 \mathbb{N} -2 CONTRACTOR TO PROVIDE WHIP CONNECTOR 41mm (1-1/2") FOR THE SYSTEM FURNITURE

N-3 CO-OORDINATE EXACT REQUIREMENTS WITH FURNITURE SUPPLIER AND INSTALLER PRIOR

CIRCUITING. MINIMUM SIZE OF POWER CONDUITS IS 20 mm (3/4).

N-5 RUN CONDUIT 41mm (1-1/2") TO THE CEILING SPACE FOR DATA CABLES.

N-4 RUN POWER CONDUIT TO TO APPLICABLE ELECTRICAL PANEL. REFER TO FLOOR PLANS FOR

(N-6) CONTRACTOR TO PROVIDE WHIP CONNECTOR 20mm (3/4") FOR THE SYSTEM FURNITURE AND

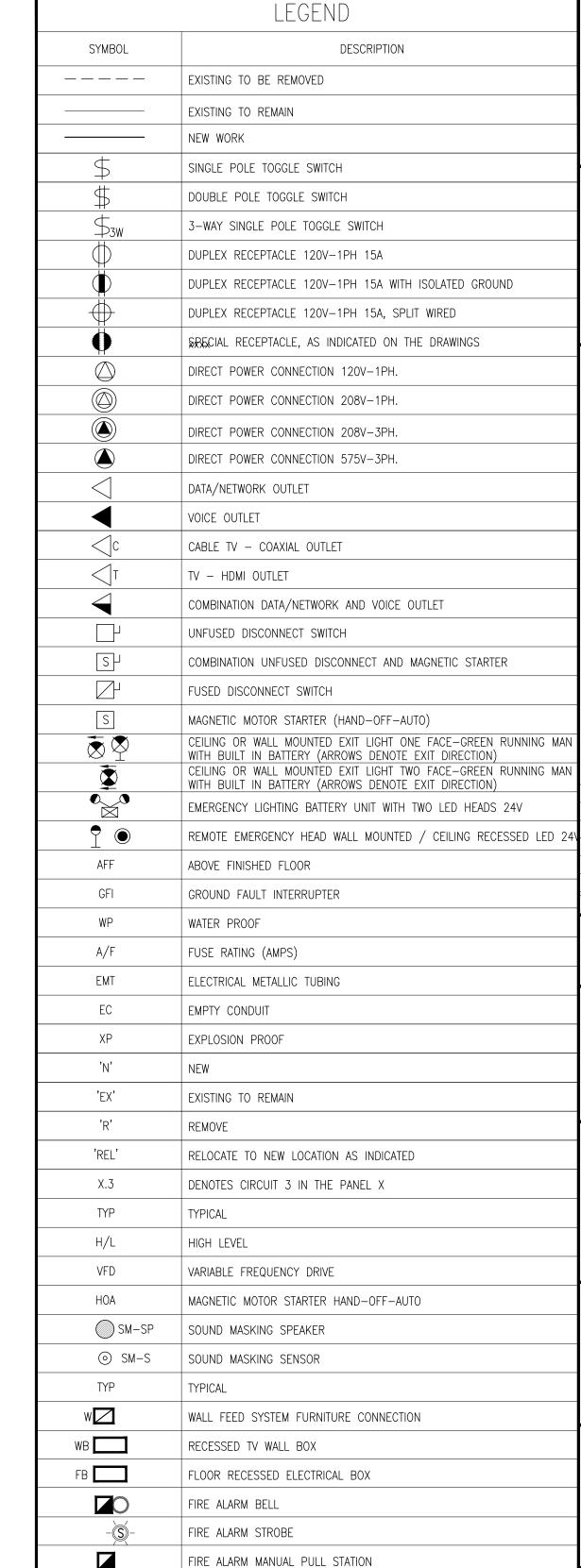
FINAL CONNECTION INCLUDING POWER DISTRIBUTION AND INSTALLATION OF RECEPTACLES

FOR CONNECTION OF THE FURNITURE. VERIFY WITH THE FURNITURE PRIOR TO ORDERING.

PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE

WITHIN THE SYSTEM FURNITURE. POWER FEED CABLE 'AXEL', FT-EC, LENGHT AS REQUIRED

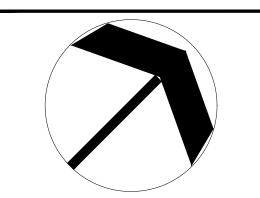
SYMBOL ON DRAWINGS



CEILING MOUNTED HEAT DETECTOR

CEILING MOUNTED SMOKE DETECTOR





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2	ISSUED FOR PERMIT/TENDER	24-06-10	
1	ISSUED FOR CLIENT REVIEW	24-05-30	
NO	REVISIONS	DATE	
DRAWINGS ARE NOT TO BE SCALED, CONTRACTOR MUST			

THE PROJECT: AND MUST REPORT ANY DISCREPANCIES TO HE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. HE USE OF THIS DRAWING OR PART THEREOF IS FORBIC WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.



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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

ELECTRICAL DETAILS, NOTES AND LEGEND

1225 TRAFALGAR RD

OAKVILLE, ON. L6H 0H3

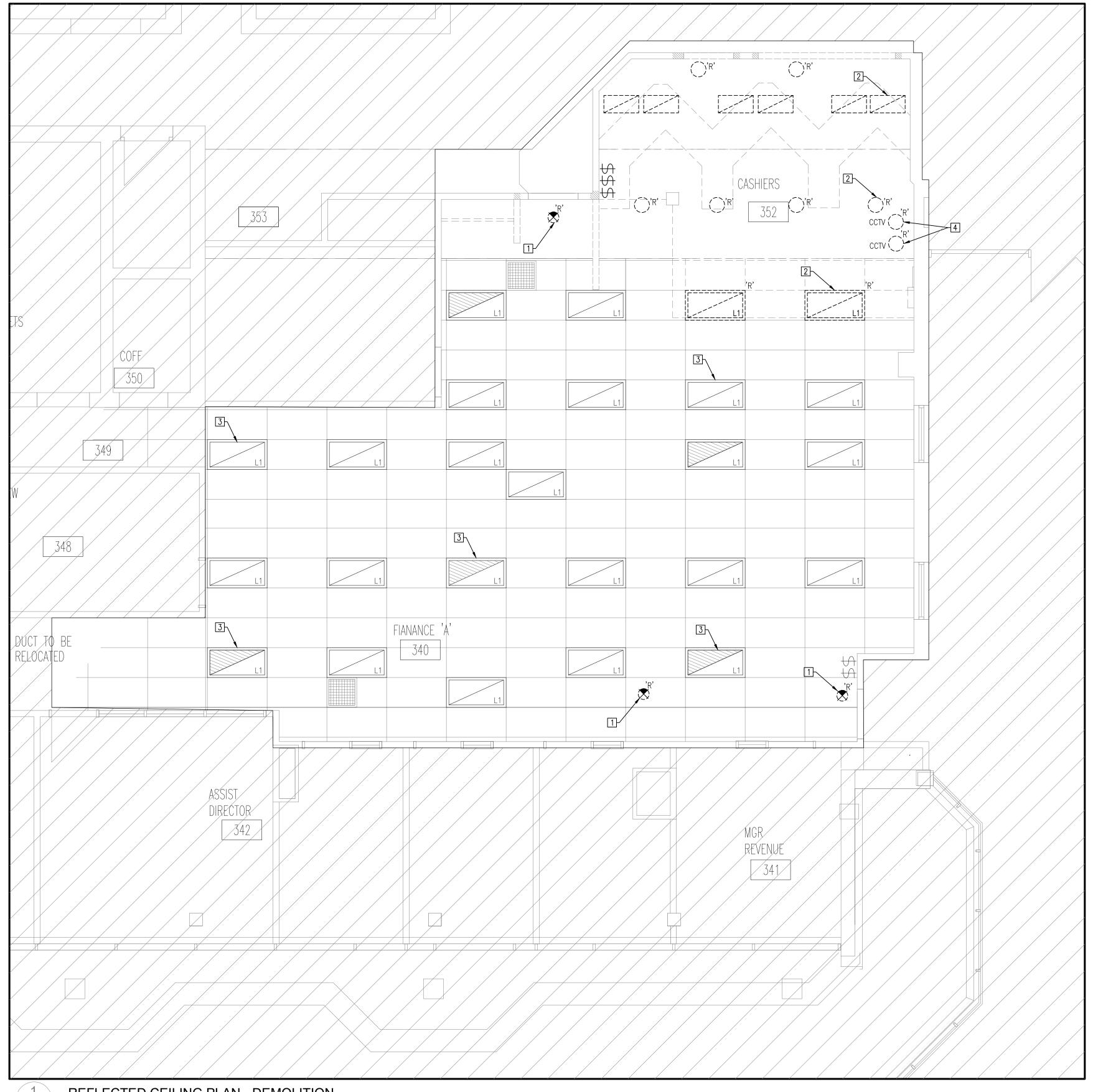
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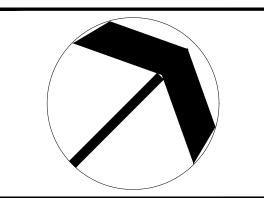
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AS NOTED	
START DATE: MAY 2024	2024-08
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- 1 EXISTING EXIT SIGN TO BE REPLACED.
- 2 DEMOLISH EXISTING LIGHT FIXTURE. REMOVE EXISTING SWITCHES FOR POT LIGHTS AT CASHIER'S DESKS.
- 3 RELAMP EXISTING LIGHT FIXTURE, REPLACE EGG CRATE LIGHT DIFFUSER OR PROVIDE NEW WHERE MISSING, TYP FOR ALL.
- 4 REMOVE EXISTING CCTV CAMERA C/W ASSOCIATED WIRING.





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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

1225 TRAFALGAR RD OAKVILLE, ON. L6H 0H3

RCP ELECTRICAL DEMOLITION

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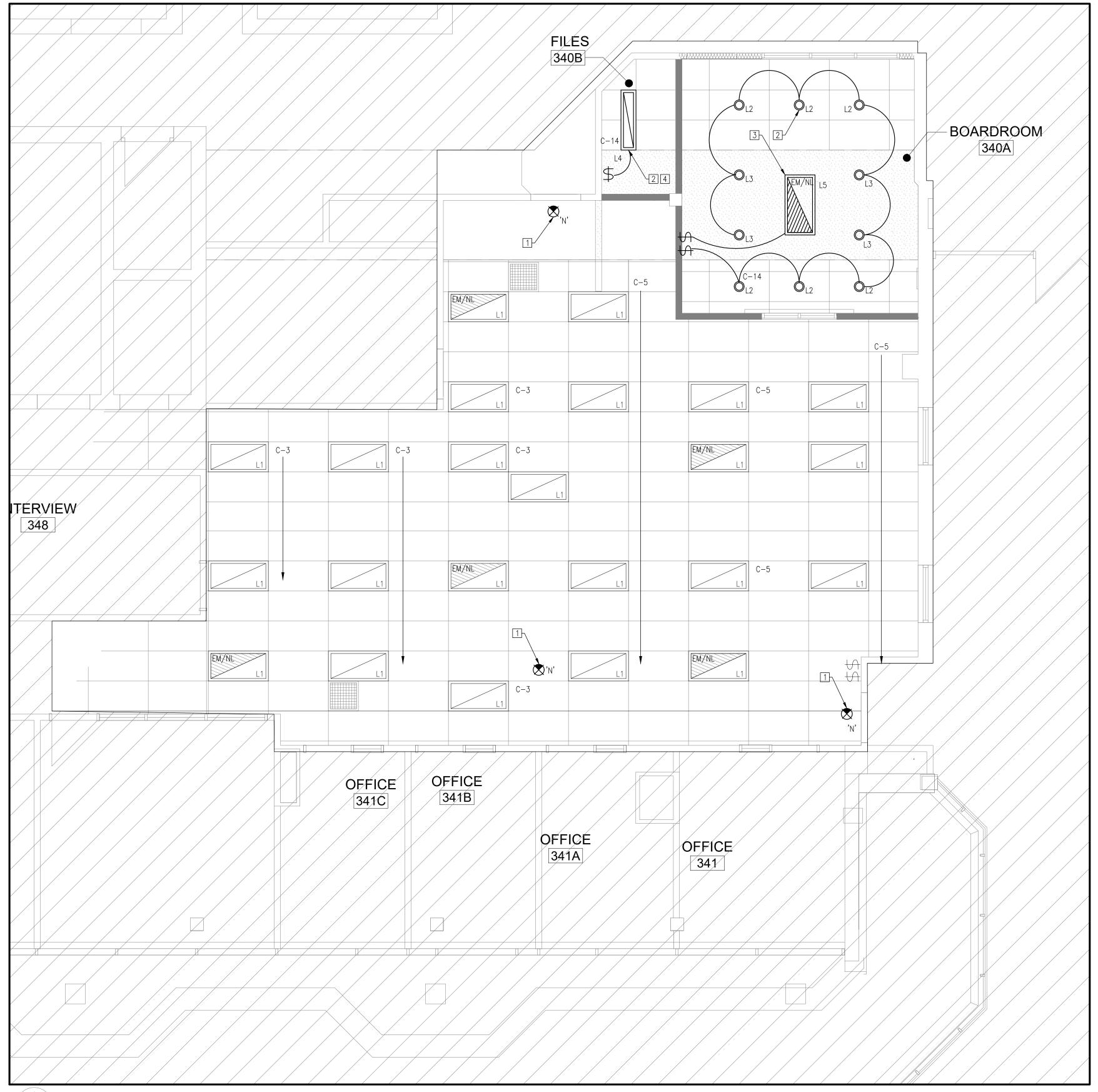
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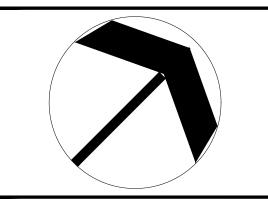
E200

1 REFLECTED CEILING PLAN - DEMOLITION SCALE: 1/4":1'-0"



- NEW EXIT SIGN, CONNECT TO EXISTING CIRCUIT OBTAINED FROM DEMOLITION WORK.
- PROVIDE NEW LIGHT FIXTURE C/W DIMMER SWITCHES, REFER TO SCHEDULES. PROVIDE NEW 15A-1P BREAKER IN EXISTING PANEL 'C'. PROVIDE ASSOCIATED CONDUIT AND WIRING.
- WIRE DESIGNATED EMERGENCY LIGHT/NIGHT LIGHT FIXTURE FROM EXISTING CIRCUIT IN EMERGENCY PANEL 'LP-EF', REFER TO KEYPLAN ON DRAWING E100 FOR APPROXIMATE LOCATION.
- 4 LIGHT FIXTURE TO BE SUSPENDED FROM CEILING AT SAME HEIGHT AS GYPSUM BULKHEAD.





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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

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RCP ELECTRICAL NEW CONSTRUCTION

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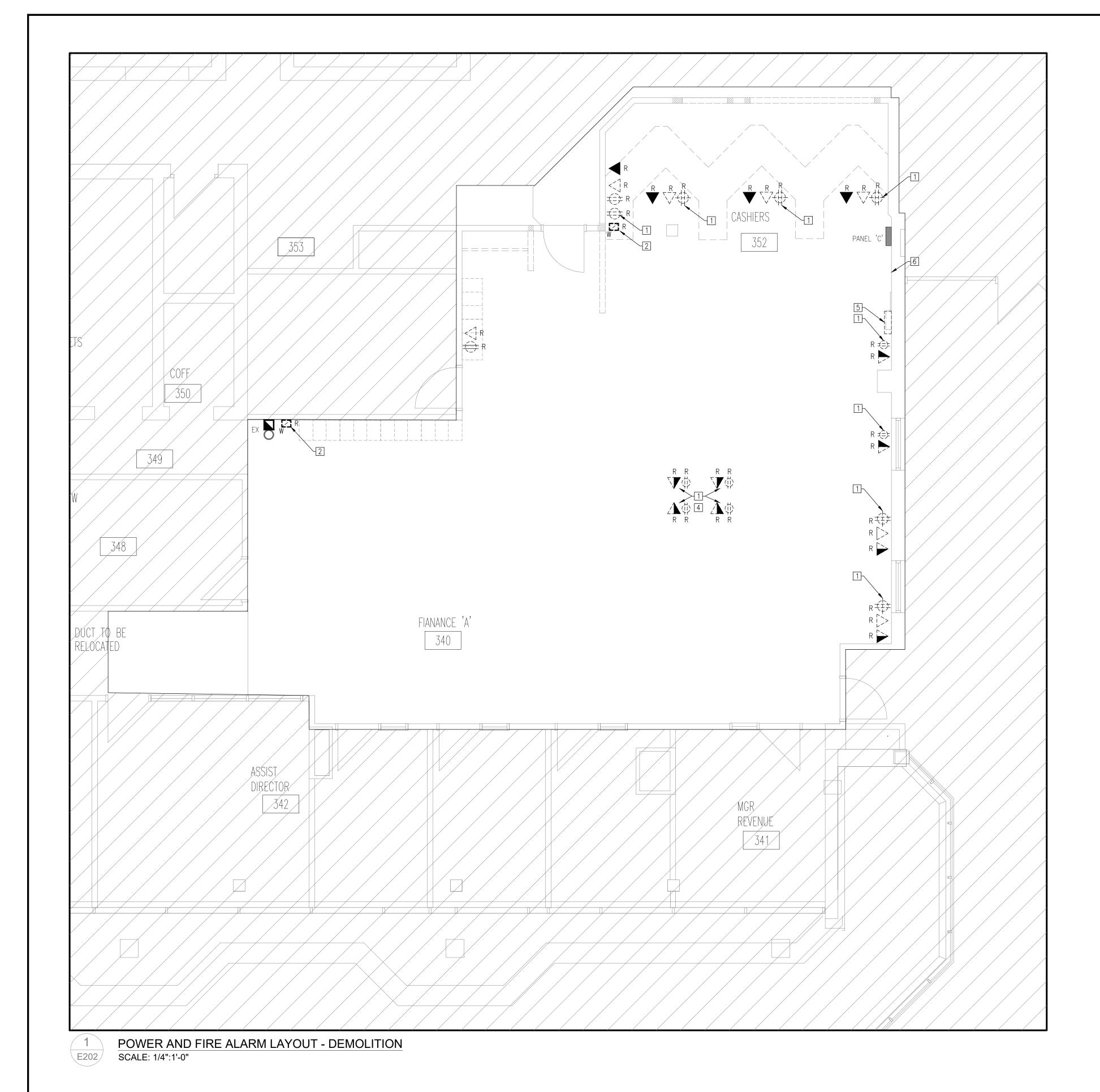
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E201

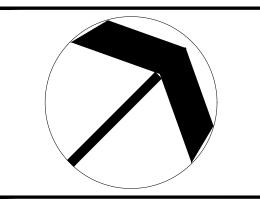
1 REFLECTED CEILING PLAN - NEW WORK SCALE: 1/4":1'-0"



- EXISTING RECEPTACLES AND DATA OUTLETS SHALL BE DISCONNECTED AND REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO SOURCE. TRACE AND VERIFY ALL DEMOLISHED CIRCUITS, TO BE USED FOR NEW POWER CONNECTION TO SYSTEM FURNITURE AND WALL RECEPTACLES AS SPECIFIED ON E203. REMOVE DATA CABLING BACK TO SOURCE. REPAIR WALL OPENINGS TO MATCH EXISTING OR PROPOSED FINISHES.
- EXISTING WALL BOX SHALL BE DISCONNECTED AND REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO SOURCE. TRACE AND VERIFY ALL DEMOLISHED CIRCUITS, TO BE USED FOR NEW POWER CONNECTION TO SYSTEM FURNITURE. REMOVE DATA CABLING BACK TO SOURCE.
- EXISTING WALL BOX SHALL BE DISCONNECTED AND REMOVED. REMOVE EXISTING CONDUITS AND WIRING BACK TO SOURCE.

 TRACE AND VERIFY ALL DEMOLISHED CIRCUITS, TO BE USED FOR NEW POWER CONNECTION TO SYSTEM FURNITURE. REMOVE DATA CABLING BACK TO SOURCE.
- 4 REMOVE POWER AND DATA CABLING C/W CONDUITS FEED FROM CEILING.
- [5] REMOVE EXISTING PNEUMATIC TUBE SYSTEM PANEL C/W TUBE, CUT AND SEAL AT FLOOR, REPAIR FINISHES. COORDINATE WORK AND REPAIRS WITH ARCHITECTURAL DRAWINGS.
- 6 EXISTING 120/208V-3PH-4W, 225A ELECTRICAL PANEL 'C' SQUARE D PANEL CAT. NO. QBL 442, SERIES T2.





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OAKVILLE TOWN HALL FINANCE SPACE RENOVATION

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ELECTRICAL
POWER AND FIRE
ALARM LAYOUT
DEMOLITION

GRGURIC ARCHITECTS INCORPORATED



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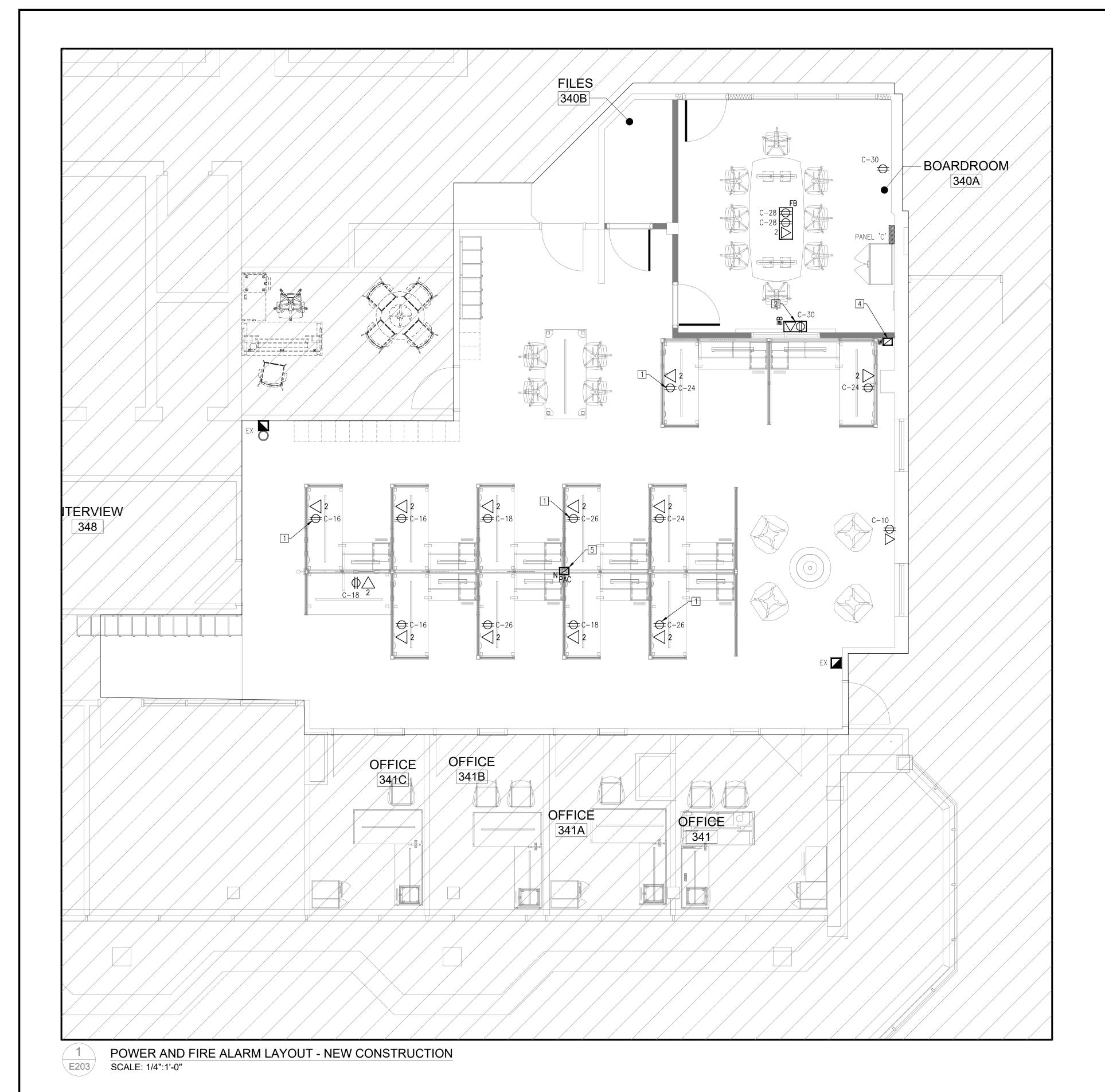
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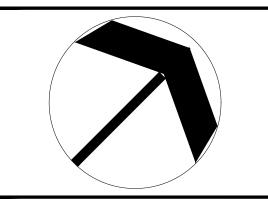
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- 1 PROVIDE ONE DUPLEX POWER AND TWO DATA OUTLETS AT EACH WORK STATION (TYPICAL FOR ALL).
- DOUBLE GANG RECESSED WALL BOX BEHIND THE TV. EXACT LOCATION TO BE DETERMINED ON SITE ONCE TV TYPE AND HEIGHT IS COORDINATED.
- 3 PROVIDE SURFACE MOUNTED FLOOR BOX BELOW FURNITURE. PROVIDE 2 DUPLEX RECEPTACLES AND DATA OUTLET. EXTEND WIRING IN CONDUIT FROM PANEL LP-C TO CEILING OF FLOOR OF BELOW AND UP TO FLOOR BOX. PROVIDE ALL REQUIRED CORING, FIRE STOPPING AND ALLOW FOR REMOVAL OF CEILING TILES ON FLOOR BELOW.
- PROVIDE NEW WALL BOX FOR POWER AND DATA WHIP CONNECTIONS TO SYSTEM FURNITURE, ALL WIRING SHALL HAVE SUFFICIENT LENGTH AND SLACK FOR FINAL CONNECTION TO EACH WORKSTATION. REFER TO DETAILS FOR MORE INFORMATION.
- PROVIDE NEW PAC POLE SYSTEM FURNITURE CONNECTION AT THIS LOCATION. REFER TO THE ARCHITECTURAL DRAWING FOR THE EXACT HEIGHT REQUIREMENT. PROVIDE POWER AND DATA WHIP CONNECTIONS TO SYSTEM FURNITURE, ALL WIRING SHALL HAVE SUFFICIENT LENGTH AND SLACK FOR FINAL CONNECTION TO EACH WORKSTATION. REFER TO DETAILS FOR MORE INFORMATION.





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ELECTRICAL POWER AND FIRE **ALARM LAYOUT NEW CONSTRUCTION**

GRGURIC ARCHITECTS INCORPORATED



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DRAWING: