OPP HEADQUARTER COMMANDER OFFICE RENOVATION

PROJECT No. 1103395-274117 777 MEMORIAL AVENUE **ORILLIA, ONTARIO**

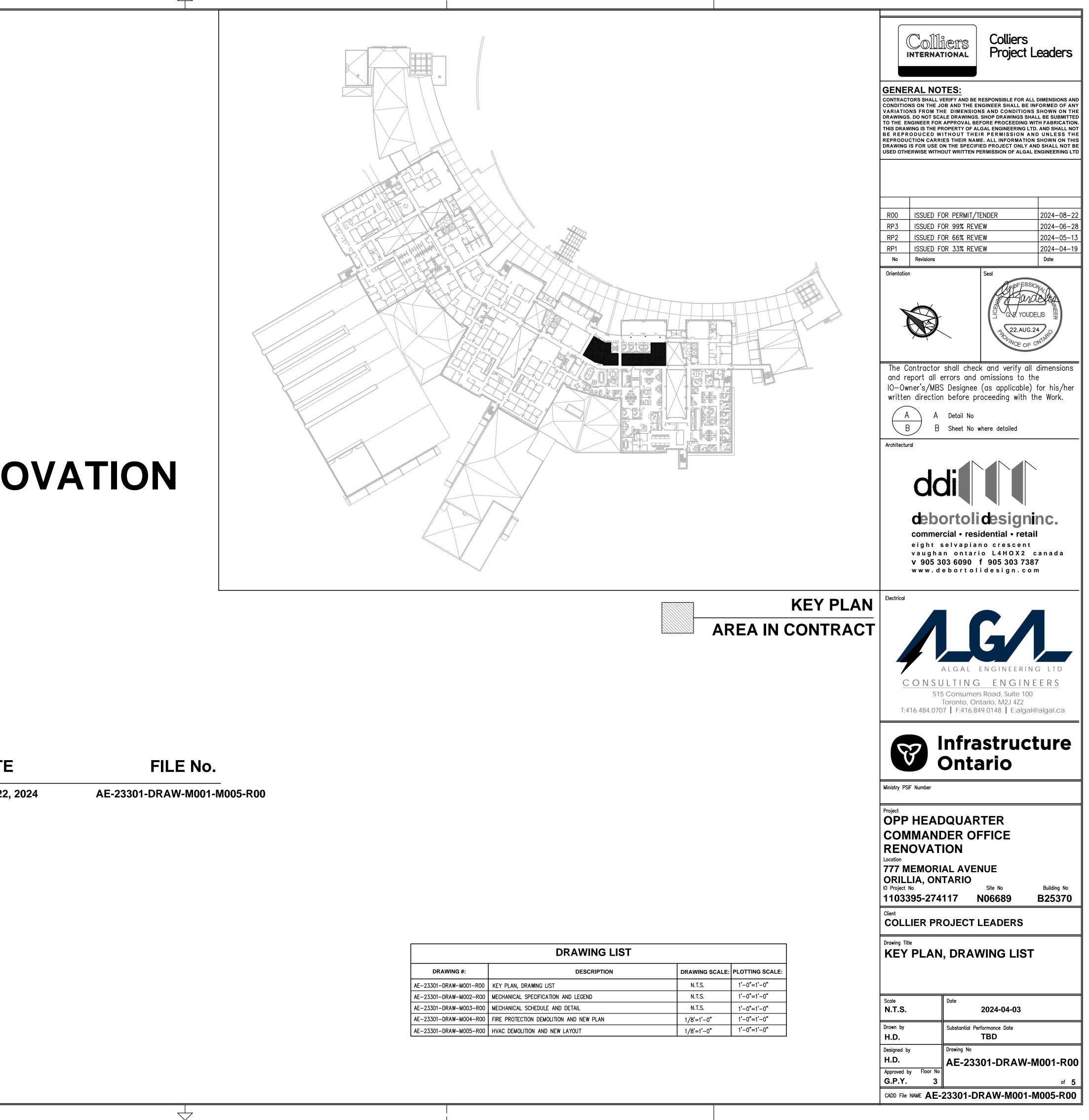
CONTENT

24x36in

MECHANICAL DRAWINGS

ISSUED FOR PERMIT/TENDER

DATE



AUGUST 22, 2024

DRAW	
DESC	DRAWING #:
KEY PLAN, DRAWING LIST	AE-23301-DRAW-M001-R00
MECHANICAL SPECIFICATION AND LEGEN	AE-23301-DRAW-M002-R00
MECHANICAL SCHEDULE AND DETAIL	AE-23301-DRAW-M003-R00
FIRE PROTECTION DEMOLITION AND NEW	AE-23301-DRAW-M004-R00
HVAC DEMOLITION AND NEW LAYOUT	AE-23301-DRAW-M005-R00

MECHAN

- <u>GENERAL</u>
- COMPLETE THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, C.S.A. STANDARDS, U.L.C., N.F.P.A., O.S.H.A. AND OTHER CODES AS REQUIRED.
- 1.2. 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.
- 1.3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, C.S.A. CERTIFIED AND MANUFACTURED TO THE STANDARDS SPECIFIED.
- 1.4. MAKE SITE VISIT(S) AS NECESSARY BEFORE TENDER TO ESTABLISH AND VERIFY ALL EXISTING CONDITIONS. MAKE ALLOWANCE FOR ANY NEW OR EXISTING SERVICE AND EQUIPMENT RELOCATIONS NECESSARY TO COMPLETE THE WORK AND INCLUDE IN THE TENDER PRICE. NO CLAIM FOR EXTRA PAYMENT SHALL BE MADE FOR EXISTING 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.
- THE DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC PERFORMANCE DRAWINGS ONLY, INTENDED TO SHOW THE GENERAL INTENT OF THE WORK, NOT THE DETAILS OF INSTALLATION. CO-ORDINATE THE ROUTING AND INSTALLATION OF ALL MECHANICAL SERVICES WITH ALL EXISTING CONDITIONS, STRUCTURE AND THE WORK OF ALL OTHER TRADES.
- 1.6. PROVIDE SLEEVING DRAWINGS SHOWING ALL OPENINGS IN THE STRUCTURE WITH ALL REQUIRED DIMENSIONS
- PROVIDE INSTALLATION DRAWINGS OF ALL WORK WITH DIMENSIONS, DRAWN TO SCALE AND CO-ORDINATED WITH ALL TRADES AND DIVISIONS. SHOW ALL REQUIREMENTS FOR EQUIPMENT INSTALLED, AREA ACCESS, CLEARANCES AND CONNECTIONS BY OTHER TRADES.
- 1.8. PROVIDE STRUCTURAL LOADS WITH ALL DETAILS NECESSARY FROM INSTALLATION OF INSERTS AND ALL CONCRETE CONSTRUCTION ITEMS INCLUDING PADS, CURBS, SILLS, BASINS, ANCHORS, INSERTS ETC.
- 1.9. DO NOT SCALE MECHANICAL DRAWINGS. REFER TO ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS FOR THE EXACT LOCATION OF ANY DEVICES, FIXTURES, ETC. OBTAIN ALL SITE DIMENSIONS FROM SITE MEASUREMENTS.
- 1.10. MAKE APPLICATION, PROVIDE, OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS.
- 1.11. ENSURE THAT FEDERAL TAXES ARE INCLUDED WHERE REQUIRED, H.S.T. TO BE SHOWN AS EXTRA.
- 1.12. PROVIDE A COMPLETE ITEMIZED BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. WHEN SUBMITTING QUOTATIONS FOR CHANGE NOTICES ON THIS PROJECT. 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.
- 1.13. PROVIDE A WRITTEN WARRANTY FOR ALL MATERIALS, EQUIPMENT AND LABOUR FOR A ONE-YEAR PERIOD TO BEGIN AT THE TIME WHEN THE WORK IS DESIGNATED ACCEPTABLE BY THE CONSULTANT.
- 1.14. PROVIDE SHOP DRAWINGS (4 COPIES) OF ALL PRODUCTS FOR REVIEW.
- 1.15. CO-ORDINATE ALL SHUTDOWNS OF EXISTING BASE BUILDING SYSTEMS WITH THE LANDLORD OR REPRESENTATIVE. ADVISE THE LANDLORD OR REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO ANY SHUTDOWN AND PAY FOR ANY COSTS INCURRED INCLUDING PREMIUM TIME OUTSIDE OF NORMAL WORKING
- 1.16. CO-ORDINATE THE MECHANICAL WORK WITH ALL OTHER TRADES.

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- I.17. PROVIDE IN THE TENDER PRICE ANY COSTS FOR PREMIUM TIME OUTSIDE OF NORMAL WORKING HOURS TO COMPLETE THE WORK ON SCHEDULE AND TO MAINTAIN ALL EXISTING MECHANICAL SYSTEMS IN OPERATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY INTERRUPTIONS OR DISRUPTIONS TO THE EXISTING SERVICES. ALL EXISTING BUILDING SERVICES MUST BE KEPT OPERATIONAL AT ALL TIMES. INTERRUPTIONS SHALL BE PERFORMED ONLY AFTER REGULAR OFFICE HOURS. ARRANGE WORK SUCH THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT SCHEDULED TIMES SUITABLE TO THE LANDLORD.
- 1.18. CHECK AND VERIFY EXISTING ELECTRICAL VOLTAGE AND ENSURE THAT ALL MECHANICAL EQUIPMENT SUPPLIED IS SUITABLE FOR THE AVAILABLE VOLTAGE.
- 1.19. ALL POWER WIRING BY ELECTRICAL CONTRACTOR, CONTROL AND INTERLOCK WIRING BY MECHANICAL CONTRACTOR. VERIFY LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE WORK COMMENCES.
- 1.20. PROVIDE STARTERS WITH REQUIRED OVERLOAD PROTECTION FOR ALL MECHANICAL EQUIPMENT. PROVIDE LINE VOLTAGE REVERSE ACTING THERMOSTATS WHERE SPECIFIED. STARTERS AND LINE VOLTAGE THERMOSTATS 5.1. PROVIDE COMPLETE PLUMBING AND DRAINAGE SYSTEMS INCLUDING ALL NECESSARY SHALL BE TURNED OVER TO DIVISION 16 FOR INSTALLATION. WHERE SWITCHES ARE USED ON FINISHED WALLS PROVIDE TO MATCH LIGHTING SWITCH AND TYPE.
- 1.21. PROVIDE ALL DEMOLITION, CLEAN-UPS, STORAGE, LIFTING, FLASHING, DRILLING, CUTTING AND PATCHING AS REQUIRED. ALL CUTTING AND PATCHING REQUIRED TO THE EXISTING BUILDING STRUCTURE FOR THE WORK SHALL BE INCLUDED UNDER THIS CONTRACT, AND BE ACCEPTABLE TO THE LANDLORD. PROVIDE X-RAY OF SLAB PRIOR TO CORING AND CUTTING OF FLOOR, AND OBTAIN APPROVAL FROM BASE BUILDING STRUCTURAL ENGINEER PRIOR TO DRILLING. SUBMIT WRITTEN CONFIRMATION THAT X-RAY HAS BEEN PERFORMED, AND THAT RESULTS HAVE BEEN ACCEPTED BY BASE BUILDING STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM THE LANDLORD BEFORE ANY CUTTING IS CARRIED OUT.
- 1.22. PROVIDE ALL EQUIPMENT PADS, CURBS, SILLS, BASINS, ANCHORS, INSERTS, SUPPORTS, SLEEVES, ETC. AS REQUIRED FOR MECHANICAL EQUIPMENT AND PIPING.
- 1.23. PROVIDE ACCESS AS REQUIRED IN WALLS AND CEILINGS. ENSURE THAT ACCESS IS PROVIDED FOR ALL EQUIPMENT. PROVIDE ACCESS DOORS COMPATIBLE WITH THE ADJACENT FINISHES AND WITH FIRE RATING EQUAL TO SURFACES IN WHICH INSTALLED. PROVIDE ACCESS PANELS IN PLASTER AND DRYWALL SURFACES WITH RECESSED DOOR WITH WELDED METAL LATH READY TO ACCEPT PLASTER/ DRYWALL INSERT AND WITH A PLASTER GROMMET FOR DOOR KEY ACCESS. MIFAB SERIES CAD-DW OR EQUIVALENT.
- 1.24. RE-USE AND RELOCATE EXISTING MATERIALS SUCH AS PIPING, FIXTURES, DUCTWORK, DIFFUSERS, EQUIPMENT ETC. WHERE SHOWN. CAP AND DISCONNECT ALL EXISTING PIPING AND DUCTWORK NOT REQUIRED AT CEILING, WALLS OR FLOOR, OR TO A LOCATION AS DIRECTED BY THE LANDLORD. MAINTAIN INTEGRITY OF ALL INSULATION INCLUDING VAPOUR BARRIERS WHEN CONNECTING TO EXISTING SERVICES. MAINTAIN THE INTEGRITY OF ALL EXISTING SYSTEMS ASSOCIATED WITH THE BUILDING SYSTEM IN PLACE. UNLESS NOTED OTHERWISE OBTAIN PERMISSION FROM THE LANDLORD AND REMOVE FROM THE SITE ALL MATERIALS WHICH ARE NOT TO REMAIN OR BE RE-USED.
- 1.25. ADJUST THE LOCATION OF DEVICES AND/OR EQUIPMENT (UP TO 10'-0" IN ANY DIRECTION) AS DIRECTED BY THE LANDLORD AND OR THE ARCHITECT AND OR INTERIOR DESIGNER WITHOUT ADJUSTMENT TO THE CONTRACT PRICE, PROVIDED THAT THE CHANGES ARE REQUESTED BEFORE INSTALLATION.
- 1.26. NO ALTERNATIVES FOR EQUIPMENT SHALL BE ACCEPTED WITHOUT WRITTEN APPROVAL OF THE CONSULTANT.
- I.27. IDENTIFY ALL SYSTEMS AND LABEL ALL EQUIPMENT WITH LAMACOID LABELS. IDENTIFY REMOTE CONTROLS FOR ALL PERTINENT EQUIPMENT INCLUDING ALL ASSOCIATED DISCONNECTS.
- 1.28. PRODUCTS NOT SPECIFICALLY SPECIFIED SHALL BE OF A QUALITY CONSISTENT WITH THE REMAINDER OF THE SPECIFICATION.
- 1.29. PROVIDE OVERSIZED PIPE HANGERS AND INSULATION SHIELDS FOR INSULATED COLD PIPE. PROVIDE PLASTIC COATED PIPE HANGERS WHERE HANGER IS IN DIRECT CONTACT WITH COPPER PIPE.
- 1.30. PROVIDE ALL MISCELLANEOUS METALS REQUIRED FOR MECHANICAL WORK.
- 1.31. PROVIDE DI-ELECTRIC FITTINGS TO SEPARATE ALL DISSIMILAR METALS.
- 1.32. PROVIDE AND INSTALL PIPING WITH ALL NECESSARY EXPANSION LOOPS, OFFSETS, GUIDES, JOINTS, ANCHORS ETC. AS MAY BE REQUIRED SO THAT PIPING WILL NOT BE OVERSTRESSED DURING EXPANSION AND CONTRACTION.
- 1.33. PROVIDE FLASHING AND COUNTER FLASHING FOR ALL DUCTS, PIPES, ETC., PASSING THROUGH WATERPROOF FLOORS.
- 1.34. PATCH AND SEAL ALL OPENINGS IN FLOORS, WALLS AND PARTITIONS. SEAL ALL VERTICAL SLEEVES AND CORE DRILLED OPENINGS THROUGH ROOF, MECHANICAL ROOMS AND FLOORS ETC, WITH PERMANENTLY RESILIENT WATERPROOF SILICONE BASE SEALING COMPOUND.

- 1.35. PROVIDE ALL EXCAVATION AND BACKFILLING REQUIRED FOR MECHANICAL WORK.
- 1.36. PROVIDE ALL CONCRETE REQUIRED FOR MECHANICAL WORK.
- 1.37. IDENTIFY ALL PIPING WITH STENCILLED LETTERS OR COLOUR CODES AND DIRECTIONAL
- 1.38. PROVIDE MANUFACTURER'S START-UP OF ALL MAJOR EQUIPMENT. MANUFACTURER PROVIDE WRITTEN CONFIRMATION THAT EQUIPMENT IS PROPERLY INSTALLED AND TEST WITH MANUFACTURER'S REPRESENTATIVES.
- COMPLETION OF CONTRACT
- 2.1. ALL EQUIPMENT MUST BE CLEANED AND TESTED BEFORE FINAL ACCEPTANCE BY CONSU
- 2.2. PRIOR TO CONTACTING THE CONSULTANT FOR FINAL INSPECTION, THE CONTRACTOR DEFICIENCIES AS SPECIFIED ON THE DEFICIENCY LIST.
- 2.3. PROVIDE A WRITTEN WARRANTY FOR ONE YEAR CONVERING ALL EQUIPMENT, MATERIALS FROM THE DATE OF ACCEPTANCE OF THE INSTALLATION BY THE OWNER. INCLUDE IN MAINTENANCE MANUAL.
- 2.4. ANY DEFECTS OR DEFICIENCIES WHICH ORIGINATE OR BECOME EVIDENT DURING THE MUST BE REPAIRED OR CORRECTED AT NO COST TO THE OWNER.
- <u>AS-BUILT DRAWINGS</u>
- 3.1. AT THE COMPLETION OF WORK AND BEFORE FINAL ACCEPTANCE, PROVIDE AS-BUIL INSTALLATION IN AUTO CAD FORMAT. DRAWING FILES CAN BE OBTAINED FROM THE CON-
- 3.2. INCORPORATE ALL CHANGES AND DEVIATIONS FROM THE TENDER DRAWINGS, UTILIZING I DRAFTING PROCEDURES THAT MATCH THE ORIGINAL DRAFTING METHODOLOGY.
- 3.3. ALL CONCEALED PIPING RUNS, VALVE AND DAMPER LOCATIONS, SERVICE LOCATIO REFLECTED ON THE DRAWINGS.
- 3.4. REMOVE THE MECHANICAL ENGINEER'S STAMP AND COMPANY NAME FROM ALL DRAWING
- 3.5. CLEARLY INDICATE THE WORDS "AS-BUILT" IN THE TITLE BLOCK COLUMN OF THE DRA THE MECHANICAL CONTRACTOR'S NAME AND ADDRESS.
- 3.6. SUBMIT A PRINT TO CONSULTANT TO REVIEW. WHEN FOUND ACCEPTABLE BY THE THREE (3) SETS OF PRINTS TOGETHER WITH AUTO CAD DISKS FOR PRESENTATION TENANT.
- OPERATION AND MAINTENANCE MANUALS
- 4.1. PROVIDE THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS TO THE TENAN ONE COPY IS TO BE PROVIDED TO THE LANDLORD INCLUDE THE FOLLOWING OPERATION AND MAINTENANCE MANUALS:
- TECHNICAL DATA, PRODUCT DATA, SUPPLEMENTED BY BULLETINS, COMPONENT ILLI EXPLODED VIEWS, TECHNICAL DESCRIPTIONS OF ITEMS, AND PARTS LISTS. ADVERTIS LITERATURE IS NOT ACCEPTABLE.
- THE CONSULTANTS REVIEWED SHOP DRAWINGS. CERTIFICATE(S) OF ACCEPTANCE FROM AUTHORITIES HAVING JURISDICTION.
- VERIFICATION REPORTS AND CERTIFICATE(S) FOR ANY NEW LIFE SAFETY COMPONEN ANY BASE BUILDING SYSTEMS.
- AIR BALANCING REPORTS WRITTEN GUARANTEE.
- AS-BUILT DRAWINGS.
- 4.1. REVIEW INFORMATION PROVIDED IN THE MAINTENANCE INSTRUCTIONS AND MANUALS OPERATING PERSONNEL AND THE LANDLORD'S OPERATING PERSONNEL WHERE BASE BU REVISED, TO ENSURE A COMPLETE UNDERSTANDING OF THE MECHANICAL EQUIPMENT THEIR OPERATION.
- <u>Plumbing</u>
- PRODUCTS, MATERIALS AND EQUIPMENT.
- 5.2. PROVIDE ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO PLUME AUTHORITIES HAVING JURISDICTION INCLUDING ALL APPLICABLE BY-LAWS.
- 5.3. WHEN PIPING SYSTEM INSTALLATION IS COMPLETE, PRESSURE TEST ALL DOMESTIC WAT AS REQUIRED BY THE ONTARIO BUILDING CODE. PROVIDE WATER PRESSURE TEST OR WATER PRESSURE TESTING SHALL CONFIRM THAT PIPING SYSTEMS WITHSTAND A MINIMUM 1000 KPA (145 PSI) FOR MINIMUM 1 HOUR WITH NO LOSS OF PRESSURE. AII SHALL CONFIRM THAT PIPING SYSTEM WITHSTANDS AN AIR PRESSURE OF MINIMUM 700 MINIMUM 2 HOUR WITH NO DROP IN AIR PRESSURE.
- 5.4. SANITARY DRAINAGE AND VENT PIPING 3" AND LARGER SHALL BE CSA CLASS 4000 AND FITTINGS MECHANICAL JOINTS AND STAINLESS STEEL COUPLINGS.
- 5.5. ABOVE GROUND SANITARY DRAINAGE AND VENT PIPING 2" AND SMALLER SHALL BE DW DRAINAGE FITTINGS AND 95/5 TIN/ANTIMONY SOLDER JOINTS.
- 5.6. PROVIDE REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER ON CONNECTIONS PLUMBING FIXTURES, ETC. PIPE DISCHARGE FROM BACKFLOW PREVENTER TO NEAREST
- 5.7. INSTALL CLEANOUTS IN SANITARY DRAINAGE PIPING AS REQUIRED BY PLUMBING AUTHORITIES HAVING JURISDICTION. INSTALL CLEANOUTS AT THE BASE OF ALL ST MAJOR CHANGE OF DIRECTION ON HORIZONTAL PIPE RUNS. PROVIDE ACCESS ENCLOSURES TO ACCESS CLEANOUTS AT BASE OF ALL STACKS.
- 5.8. WHERE ROOMS ARE PROVIDED WITH NEW FLOOR FINISHES, PROVIDE SUITABLE EXTENS EXISTING CLEANOUT COVERS AND FLOOR DRAIN GRATES TO MATCH THE NEW FINISHEI REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE WHERE NEW FLOOR FINISHES ARE
- 5.9. PROVIDE TRAPPED COPPER CONDENSATE DRAINS FOR ALL MECHANICAL EQUIPMENT AS I
- 5.10. PROVIDE TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS INCLUDING ALL NECE APPURTENENCES AND CONNECT TO NEAREST AVAILABLE DOMESTIC COLD WATER SUP WITH LOCAL AUTHORITY STANDARDS.
- 5.11. PROVIDE AND COVER ALL HORIZONTAL DRAINAGE PIPING AND FITTINGS WITH RIGID GLASS INSULATION, COMPLETE WITH VAPOUR BARRIER. DO NOT USE STAPLES. MAINTAI ALL EXISTING THERMAL INSULATION WHEN CONNECTING NEW PIPING TO EXISTING JACKETTING FOR ALL EXPOSED PIPE INSULATION.
- 5.12. ABOVE GROUND DOMESTIC WATER PIPING SHALL BE TYPE "L" HARD COPPER WITH FITTINGS AND 95/5 TIN/ANTIMONY SOLDER JOINTS. TYPE 'K' PIPING SHALL BE USED BE
- 5.13. PROVIDE AND COVER ALL DOMESTIC WATER PIPING, VALVES, FITTINGS, APPURTENANG PREFORMED FIBRE GLASS INSULATION. PROVIDE VAPOUR BARRIER FOR COLD WATER SHALL BE 1" THICK FOR COLD WATER PIPING AND FOR HOT WATER AND HOT WATER RECIRCULATING PIPING. DO NOT USE STAPLES. ENSURE COMPLETE COVERAGE AND SEAL WITH AN APPROVED VAPOUR BARRIER CEMENT. MAINTAIN THE INTEGRITY OF ALL EXISTING THERMAL INSULATION WHEN CONNECTING NEW PIPING TO EXISTING PIPING. PROVIDE PVC JACKETTING FOR ALL EXPOSED PIPE INSULATION.
- 5.14. APPLY ONE-PIECE MOULDED TYPE PVC JACKET TO ALL INSULATED PIPING SERVICES IN EXPOSED AREAS. USE SOLVENT WELD ADHESIVE COMPATIBLE WITH INSULATION TO SEAL LAP AND JOINTS. JACKETTING TO BE PAINTED BY GENERAL TRADES.
- 5.15. PROVIDE BALL VALVES AT PIPING CONNECTIONS TO ALL EQUIPMENT TO ALLOW EQUIPMENT TO BE REMOVED FOR SERVICING. PROVIDE BALL VALVES ON ALL MAIN AND BRANCH DOMESTIC WATER PIPING LINES. PROVIDE GLOBE VALVES ON ALL HOT WATER RECIRCULATING PIPING LINES AND EQUIPMENT. PROVIDE CHECK VALVES

NICAL SPE	CIFICA	TIONS		
	ON SU	PPLY SIDE OF EQUIPMENT.		
		DE REDUCED PRESSURE BACK FLOW PREVENTORS ON DOMESTIC WATER SUPPLY PIPING TO ALL IENT. PROVIDE PRESSURE REDUCING VALVES AS REQUIRED.	8.1.	APPLY ONE-PIECE MOULDED TYPE PVC JACKET TO ALL INSULATED PIPING SERVICES I USE SOLVENT WELD ADHESIVE COMPATIBLE WITH INSULATION TO SEAL LAP AND JOINTS. PAINTED BY GENERAL TRADES.
ARROWS. REPRESENTATIVE TO STED IN ACCORDANCE	CODE. SHALL	DE ALL PLUMBING VENT PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING COORDINATE LOCATION OF NEW PLUMBING VENTS WITH ARCHITECTURAL DRAWINGS, ALL VENT PIPING BE CONCEALED WITHIN WALLS OR ABOVE CEILINGS. TERMINATE PLUMBING VENTS MINIMUM 1.0 M , AND MINIMUM 3.5 M FROM ALL OPENABLE WINDOWS OR DOORS, AND AIR INTAKES.	9.	TESTING, BALANCING, ADJUSTING AND COMMISSIONING
	5.18. PROVID	DE BACKFLOW PREVENTERS ON ALL EQUIPMENT CONNECTIONS TO DOMESTIC WATER. AS REQUIRED BY SA B64.10.1 BACKFLOW PREVENTER CODE.	9.1.	PROVIDE TESTING, BALANCING AND COMMISSIONING OF ALL SYSTEMS. COMMISSIONIN PUTTING INTO SERVICE, ADJUSTING, CALIBRATING AND VERIFYING ALL SYSTEMS, BOTH NE
	5.19. REDUCI	ED PRESSURE BACK FLOW PREVENTERS: BRONZE BODY WITH BRONZE AND PLASTIC PARTS AND ESS STEEL SPRINGS; TWO INDEPENDENT SPRING LOADED CHECK VALVES; DIAPHRAGM TYPE	9.2.	PROVIDE AN INDEPENDENT BALANCING COMPANY ACCEPTABLE TO THE CONSULTANT TO TADJUST THE AIR AND WATER SYSTEMS.
ULTANT. MUST CORRECT ALL	DIFFERI	ESS STELL SPRINGS, TWO INDEPENDENT SPRING LOADED CHECK VALVES, DIAPHINAGM THE ENTIAL PRESSURE RELIEF VALVE; CHECK VALVE FOR DIAPHRAGM FAILURE; NON—THREADED VENT I; ASSEMBLED WITH TWO GATE VALVES, STRAINER, AND FOUR TEST COCKS.	9.3. 1.	AIR SYSTEMS: PROVIDE AN AIR BALANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRA
.s and workmanship The operation and	5.20. DOUBLE CHECK VALVE ASSEMBLIES: BRONZE BODY WITH STAINLESS STEEL SPRINGS; TWO INDEPENDENT CHECK VALVES WITH INTERMEDIATE ATMOSPHERIC VENT.			STANDARDS. AIR BALANCING SHALL BE PERFORMED WITH CLEAN FILTERS INSTA CONTRACTOR SHALL CLEAN ALL AIR SYSTEM FILTERS (NEW AND EXISTING) PRIOR T SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVI
	5.21. SHOCK		2.	PROVIDE BALANCING AND ADJUSTING OF ALL AIR SYSTEMS TO ACHIEVE SPECIFIED DESIGN
E WARRANTY PERIOD	SEALS,	DE PRE-CHARGED HARD DRAWN COPPER SHOCK ABSORBER WITH BRASS PISTON, EPDM O-RING AND MAKE IPS CONNECTION.	3.	PROVIDE DATA IN THE BALANCING REPORT WHICH INDICATES AIR VOLUMES AT EAC PRESSURES, FAN DATA, MOTOR DATA AND COIL DATA.
		SUITABLE FOR PRESSURES UP TO 150 PSI, AND TEMPERATURES TO 180 F.	4.	PROVIDE DUCT TRAVERSE READINGS FOR EACH AIR HANDLING UNIT AND FAN (WITH DU AND EXCEEDING 1000 CFM).
T DRAWINGS OF THE NSULTANT.	MANUF THE_FC	ACTURER, USE MANUFACTURERS SIZING GUIDELINES WHERE DISCREPANCIES EXISTING BETWEEN DLLOWING TABLE: XTURE UNITS ARRESTOR SIZING	5.	IDENTIFY PRESSURE DROP ACROSS FILTERS FOR ALL AIR HANDLING UNITS.
NORMAL RECOGNIZED	1-	-11 CONNECTION: 1/2", HEIGHT: 5"	6.	ADJUST THE AIR PATTERN FOR ALL DIFFUSERS AS INDICATED ON THE DRAWINGS OR AS CONSULTANT.
ONS, ETC. MUST BE	12	2-32 CONNECTION: 3/4", HEIGHT: 7" DIAMETER: 1-7/16"	7.	VERIFY THE OPERATION OF ALL CONTROL DEVICES, INCLUDING VARIABLE VOLUME BOXES.
GS.	6. <u>FIRE PI</u>	ROTECTION	10.	CONTROLS
RAWINGS AS WELL AS	REQUIR	DE FIRE PROTECTION, SPRINKLER WORK, EQUIPMENT AND DEVICES IN ACCORDANCE WITH THE REMENTS OF ALL CODES, GOVERNING UNDERWRITER, BASE BUILDING STANDARDS, LOCAL BYLAWS AND E REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.	10.1.	PROVIDE ALL CONTROLS, INCLUDING WIRING, APPROVED PLENUM CABLE, FITTINGS, THE AUTOMATIC CONTROL VALVES, TRANSFORMERS, DAMPERS, FIRE STATS, FREEZE STA ACCESSORIES AS REQUIRED FOR COMPLETELY OPERATIONAL SYSTEMS. PROVIDE
CONSULTANT, SUBMIT I TO LANDLORD AND		IFE SAFETY, STANDPIPE, SPRINKLERS AND FIRE PROTECTION SERVICES MUST BE MAINTAINED IN TION AT ALL TIMES.	10.2.	CONNECTIONS, INTERLOCKS AND COMPONENTS TO ALL DEVICES AS REQUIRED. ALL EXPOSED WIRING SHALL BE INSTALLED IN RIGID CONDUIT. WIRING INSTALLED CEILINGS SHALL BE SECURED TO STRUCTURAL MEMBERS. WIRING SHALL NOT BE SECURE
	WITH N	E AND INSTALL PORTABLE FIRE EXTINGUISHERS INCLUDING BRACKETS AND TAGS IN ACCORDANCE IFPA 10CAN4–S508 AND THE ONTARIO FIRE CODE. IN FINISHED OCCUPIED AREAS (OFFICE AREAS, IG ROOMS, ETC), PROVIDE SEMI–RECESSED FIRE EXTINGUISHER CABINETS RECESSED INTO DRYWALL		OR ELECTRICAL EQUIPMENT OR DEVICES, AND SHALL NOT BE REST ON CEILING TILES WIRING LOCATED WITHIN PARTITION WALLS SHALL BE INSTALLED IN RIGID CONDUIT.
NT'S REPRESENTATIVE, INFORMATION IN THE	PARTIT (25MM) PRESSU	ION WALLS. CABINETS SHALL BE SUITABLE FOR INSTALLATION IN 4" (100 MM) THICK WALLS, WITH 1") CASING TURN BACK (NATIONAL FIRE EQUIPMENT MODEL 102RS OR EQUIVALENT). PROVIDE STORED URE RECHARGEABLE TYPE EXTINGUISHERS WITH SHUT OFF NOZZLE YLC LABELLED FOR A, B AND C		THERMOSTATS FOR INDIVIDUAL DEVICES MAY BE LOCATED IN THE CEILING SPACE AND M AND EXTENDED DOWN WALLS TO FINAL LOCATIONS UNDER THE TENANT CONTRACT.
USTRATIONS, ISING OR SALES	THE LO	PROTECTION. PROVIDE SIZE 2.25 KG OR a SIZE AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. OCATIONS OF PORTABLE FIRE EXTINGUISHERS SHALL BE PROMINENTLY INDICATED BY SIGNS OR NGS IN LARGE FLOOR AREAS AND IN LOCATIONS WHERE VISUAL OBSTRUCTIONS CANNOT BE AVOIDED.		PROVIDE ALL CONNECTIONS AND DEVICES NECESSARY TO INTERLOCK OR MAINTAIN TO PERIMETER HVAC SYSTEMS AND ASSOCIATED ZONE CONTROL OF PERIMETER HEATING SYS
		DE SCHEDULE 40 BLACK STEEL FIRE LINE PIPING COMPLETE WITH FITTINGS, HANGERS AND SORIES AS REQUIRED. VICTAULIC TYPE FITTINGS ARE PERMITTED ONLY IN ACCESSIBLE LOCATIONS.		VERIFY OPERATION OF ALL THERMOSTATS AND CONTROLS AFTER RELOCATION OF DEVICES.
nts or Tie—Ins to		DE FLOW TEST TO THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION TO DETERMINE BLE FLOW AND WATER PRESSURE DATA FOR USE IN PREPARING HYDRAULIC CALCULATIONS.	10.6.	THERMOSTATS ARE NOT TO BE LOCATED ABOVE ELECTRICAL DIMMER SWITCHES OR A PRODUCING DEVICES. ADJUST HEIGHT OF THERMOSTATS TO AVOID INTERFERENCE WITH S OR OTHER FURNISHINGS AS REQUIRED.
WITH THE TENANT'S JILDING SYSTEMS ARE	CALCUL AND C PROVIN THE S	DE, PRIOR TO INSTALLATION, COPIES OF THE WORKING DRAWINGS, HYDRAULIC DESIGN, AND LATIONS TO THE INSURANCE UNDERWRITER AND AUTHORITIES HAVING JURISDICTION. ALL DRAWINGS CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE ICE OF ONTARIO. ASSUME ANY ADDITIONAL COSTS THAT MAY BE INCURRED TO MODIFY OR COMPLETE YSTEM SHOULD THE AUTHORITIES HAVING JURISDICTION REQUIRE CHANGES. ANY AND ALL COSTS NING TO PREPARATION AND APPROVALS SHALL BE BORNE BY THE CONTRACTOR.	10.7.	WHERE THERMOSTATS ARE TO BE INSTALLED ON CONCRETE COLUMNS, CONCRETE WAL NOT FURRED OUT WITH DRYWALL FINISHES, PROVIDE WIRE MOULD OVER THERMOSTAT V TUBING TO CONCEAL WIRING/ TUBING FROM CEILING PENETRATION TO THERMOSTAT LO ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS FOR WALL FINISHES.
T AND SYSTEMS AND	6.7. PROVID	DE NEW SPRINKLER HEADS TO MATCH EXISTING COMPLETE WITH RELATED PIPING. RE-USE EXISTING	10.8.	ALL CONTROL WORK SHALL BE PERFORMED BY THE BASE BUILDING DDC CONTROLS CONTROLS
	6.8. PROVID	DE THE REQUIRED NUMBER OF SPRINKLER HEADS AND ALL NECESSARY COMPONENTS AS REQUIRED PA13 AND ALL GOVERNING AUTHORITIES.	10.9.	PROVIDE ALL PROGRAMMING AND REVISIONS/ ADDITIONS TO EXISTING GRAPHICS AT (WORKSTATION.
Y LABOUR, SERVICES,	6.9. CO-OR	DINATE SPRINKLER SYSTEM CHANGES WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, PLUMBING UCTWORK. PROVIDE ADDITIONAL SPRINKLER HEADS WHERE REQUIRED.	10.10	. TEMPERATURE SENSORS UTILIZED FOR WALL MOUNTING IN OCCUPIED SPACES AND C SHALL MATCH BASE BUILDING SENSORS AND SHALL INCORPORATE A MOMENTARY COI OVERRIDE INITIATION, CONCEALED TEMPERATURE SETPOINT ADJUSTMENT, TEMPER THERMOMETER AND TELEPHONE STYLE JACK FOR CONNECTION OF A PORTABLE
ATER PIPING SYSTEMS		T NEW AND EXISTING SPRINKLER PIPING AND HEADS TO CONFORM TO NEW CEILING HEIGHTS AND G TYPE INCLUDING ANY AREAS WHERE CEILINGS HAVE BEEN REMOVED.	10 11	ACCURACY:+/- 0.5% AT 20°C.
AIR PRESSURE TEST. WATER PRESSURE OF IR PRESSURE TESTING		DE ADDITIONAL SPRINKLER HEADS AS REQUIRED ABOVE AND BELOW DUCTWORK AND STRUCTURAL NENTS ETC. IN AREAS WITHOUT CEILINGS.		. PROVIDE DETAILS OF DDE COTPOTS THAT WILL BE SHOWN ON THE TRONT END GRAFFICS . PROVIDE POWER TO CONTROL PANELS FROM THE NEAREST ELECTRICAL PANEL. POI SYSTEM SHALL NOT BE OBTAINED BY TAPPING INTO MISCELLANEOUS CIRCUITS
0 KPA (102 PSI) FOR CAST IRON SOIL PIPE	behind Piping Sprink	AS WITH FLOATING CEILINGS OR WITH CEILING PROJECTIONS, SPRINKLER PIPING SHALL BE CONCEALED O ADJACENT WALLS, CEILING SPACES, STRUCTURAL ELEMENTS, ETC. SO AS NOT TO BE VISIBLE. ALL DROPS FOR THESE AREAS SHALL BE CONCEALED IN SUCH A MANNER. HORIZONTAL PIPING SERVING (LER HEADS SHALL BE INSTALLED AT LOW LEVEL AS CLOSE TO THE TOP OF THE FLOATING CEILING ILING PROJECTION AS POSSIBLE SO AS NOT TO BE VISIBLE.		INADVERTENTLY SWITCHED OFF. ONLY DEDICATED CIRCUIT(S) SHALL POWER THE CONTRO ADDITIONAL BREAKERS OR ELECTRICAL PANELS AS REQUIRED.
WV COPPER PIPE WITH	7 115 4 7141			
TO ANY EQUIPMENT, FLOOR DRAIN.		IG. VENTILATING. AIR CONDITIONING DE ALL DUCTWORK IN ACCORDANCE WITH THE STANDARDS OF GOOD WORKMANSHIP AND THE LATEST		
IG CODES AND ALL ACKS AND AT EACH PANELS IN DRYWALL	CONNE	INES OF ASHRAE AND SMACNA. SEAL DUCTWORK TO CLASS C WITH TRANSVERSE JOINTS AND CTIONS TREATED WITH SEALING COMPOUND. SEAL EXPOSED DUCTWORK (LOCATED IN FINISHED S) INTERNALLY AND WITH A MINIMUM AMOUNT OF SEALANT EXPOSED ON THE OUTSIDE.		
ISIONS TO RAISE ALL ED FLOOR ELEVATION.	DAMPE	DE BALANCING DAMPERS FOR ALL NEW DUCTWORK AT THE BRANCH CONNECTIONS. PROVIDE VOLUME RS FOR ALL SUPPLY AIR DIFFUSERS. PROVIDE SPIN-ON FITTING WITH BALANCING DAMPER AT EACH LE DUCT CONNECTION AT SUPPLY DUCT TAKE-OFF.		
PROVIDED.	7.3. Provid	DE DUCT ACCESS DOORS FOR ALL COILS, FIRE, CONTROL AND BALANCING DAMPERS, AS REQUIRED.		
REQUIRED. ESSARY PIPING AND PPLY IN ACCORDANCE	UPSTRE FACED	TE ALL NEW RIGID SUPPLY AIR DUCTWORK (ON VARIABLE AIR VOLUME SYSTEMS PROVIDE INSULATION EAM OF VAV BOXES). PROVIDE 1" THICK FIBRE GLASS 1.5 LB/CU FT DENSITY REINFORCED, FOIL FLEXIBLE DUCT INSULATION WITH VAPOUR SEAL. APPLY CANVAS JACKET FOR ALL DUCTWORK IN ED AREAS.		
PREFORMED 1" FIBRE	7.5. Provid	DE FLEXIBLE DUCTS EQUAL TO FLEXMASTER UNINSULATED TRIPLE LOCK ALUMINUM FASTENED WITH ESS STEEL GEAR DRIVE CLAMPS. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 10 FT.		
AIN THE INTEGRITY OF PIPING. PROVIDE PVC		E FLEXIBLE CONNECTIONS BETWEEN ALL DUCTWORK AND EQUIPMENT INCLUDING FANS, FAN COIL AND HEAT PUMP UNITS, AIR CONDITIONING UNITS, ETC.		
'H WROUGHT COPPER ELOW GROUND.		DE VIBRATION ISOLATION FOR ALL SUSPENDED AND FLOOR MOUNTED EQUIPMENT.		
CES, ETC. WITH RIGID R PIPING. INSULATION	WITHIN	DE RIGID OPEN END TRANSFER DUCTS COMPLETE WITH 1" THICK ACOUSTIC INSULATION WHERE SHOWN THE CEILING SPACE. DIMENSIONS OF DUCTS ON THE DRAWINGS ARE INSIDE CLEAR SIZES. INCREASE ORK SIZES TO SUIT ACOUSTIC INSULATION.		

7.9. PROVIDE 1" THICK ACOUSTIC DUCT LINING FOR NEW DUCTWORK MINIMUM 10' - 0" DOWNSTREAM OF VAV BOXES AND FOR TRANSFER DUCTS WHERE INDICATED ON THE DRAWINGS. DIMENSIONS OF DUCTS ON THE DRAWINGS ARE INSIDE CLEAR SIZES. INCREASE DUCTWORK SIZES TO SUIT ACOUSTIC INSULATION.

7.10. PROVIDE DIFFUSERS, GRILLES AND REGISTERS AS REQUIRED, SELECTED FOR LOW NOISE LEVELS, COMPATIBLE WITH CEILING TYPES AND FINISHES. RELOCATE AND RE-USE EXISTING DIFFUSERS AND GRILLES AS REQUIRED. PROVIDE SUPPORT GRID FOR DIFFUSERS AND GRILLES WHERE REQUIRED.

<u>HVAC PIPING</u> 8.

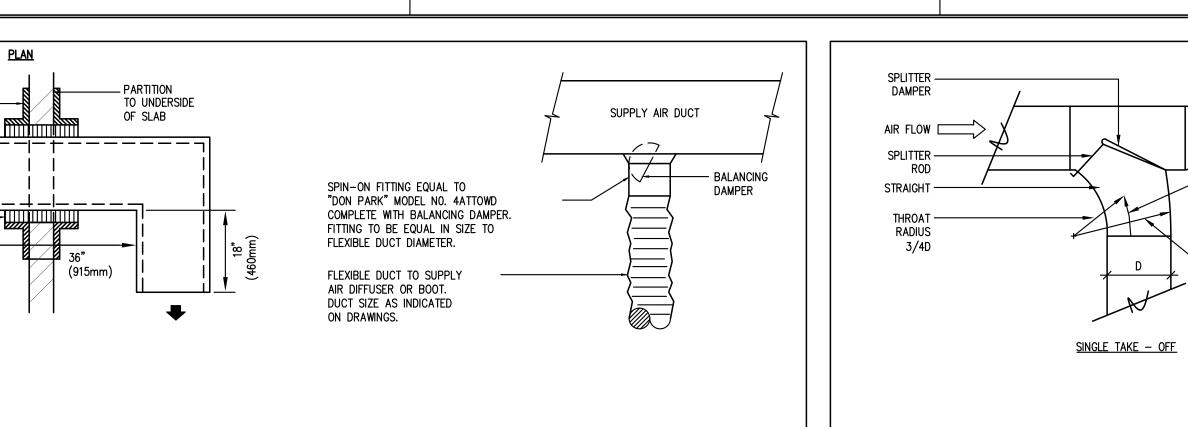
	LE	GEND – HVAC	Colliers Colliers
	SYMBOL	DESCRIPTION	INTERNATIONAL Project Leaders
IN EXPOSED AREAS. S. JACKETTING TO BE		SUPPLY AIR DUCT	
		SUPPLY AIR DUCT UP	
		SUPPLY AIR DUCT DOWN	GENERAL NOTES: CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND
		RETURN/EXHAUST AIR DUCT UP	CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE
ING SHALL INCLUDE EW AND EXISTING.		RETURN/EXHAUST AIR DUCT DOWN.	DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF ALGAL ENGINEERING LTD. AND SHALL NOT
TEST, BALANCE AND		ROUND DUCT UP	BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS
		ROUND DUCT DOWN	DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF ALGAL ENGINEERING LTD
		ACOUSTICALLY LINED DUCTWORK	
RAWINGS AND AABC		SILENCER	
ALLED. MECHANICAL TO AIR BALANCING.		FLEXIBLE DUCT CONNECTION	
VIEW.		FLEXIBLE DUCT COMPLETE WITH SPIN-ON	R00 ISSUED FOR PERMIT/TENDER 2024-08-22
SN VALUES (+5%).		RETURN OR EXHAUST AIR DIFFUSER	RP3 ISSUED FOR 99% REVIEW 2024-06-28
CH OUTLET, STATIC			RP2 ISSUED FOR 66% REVIEW 2024-05-13
		EXISTING SQUARE CONE SUPPLY AIR DIFFUSER	RP1 ISSUED FOR 33% REVIEW 2024-04-19
JCTED CONNECTIONS	B.D.	SIDEWALL GRILLE	No Revisions Date
		BALANCE DAMPER	Orientation Seal
		BACKDRAFT DAMPER	
S DIRECTED BY THE		MOTORIZED DAMPER	
	F∕D →	FIRE DAMPER	S G.V. YOUDELIS
i.	F.S/D	FIRE/SMOKE DAMPER	22.AUG.24 BUNCE OF ONTARIO
	T	EXISTING TEMPERATURE SENSOR	WOE OF ON T
		EXISTING FAN POWERED VAV BOX	The Contractor shall check and verify all dimensions
ERMOSTATS, RELAYS, ATS, SWITCHES AND E ALL NECESSARY			and report all errors and omissions to the
L ALL NEVESSARY			IO-Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.
ABOVE ACCESSIBLE		EXISTING LIGHT TROFFER DIFFUSER	
IRED TO MECHANICAL ES. ALL THERMOSTAT			A Detail No
		EXISTING CEILING FAN	B B Sheet No where detailed
MUST BE RELOCATED			Architectural
THE INTENT OF ALL	Ś	EXISTING FAN SPEED CONTROLLER	
YSTEM AS REQUIRED.		A-MAXIMUM AIR QUANTITY	
THERMOSTATS AND	СВ	B-MINIMUM AIR QUANTITY C-VAV BOX SIZE	
	\bigcirc	— DIFFUSER OR GRILLE SIZE — TYPE — AIR QUANTITY	
ADJACENT TO HEAT SYSTEMS FURNITURE			debortolidesigninc.
	LEGEND	– FIRE PROTECTION	commercial • residential • retail
ALLS, ETC THAT ARE WIRING/ PNEUMATIC			eight selvapiano crescent vaughan ontario L4HOX2 canada
LOCATION. REFER TO	SYMBOL EX	DESCRIPTION	v 905 303 6090 f 905 303 7387
	EX O N	EXISTING FULLY RECESSED SPRINKLER HEAD	www.debortolidesign.com
s vendor; Johnson	(N) (N)	NEW FULLY RECESSED SPRINKLER HEAD	Electrical
CENTRAL CONTROLS		EXISTING FIRE HOSE CABINET	
CONNECTED TO BAS			
CONTACT SWITCH FOR ERATURE INDICATION			
SERVICE TERMINAL.			
CS.			ALGAL ENGINEERING LTD
			CONSULTING ENGINEERS
OWER FOR CONTROL S THAT COULD BE OL SYSTEM. PROVIDE			515 Consumers Road, Suite 100 Toronto, Ontario, M2J 4Z2
			T:416.484.0707 F:416.849.0148 E:algal@algal.ca
			Infrastructure
			Ontario
			Ministry PSIF Number
			Project OPP HEADQUARTER
			COMMANDER OFFICE
			RENOVATION
			Location
			777 MEMORIAL AVENUE ORILLIA, ONTARIO
			IO Project No Site No Building No
			1103395-274117 N06689 B25370
			Client COLLIER PROJECT LEADERS
			Drawing Title
			AND LEGEND
			Scale Date N.T.S. 2024-04-03
			Drawn by Substantial Performance Date
			H.D. TBD
			Designed by Drawing No H.D. $AE_{23301}DBAW_M002_B00$
•			H.D. AE-23301-DRAW-M002-R00
			G.P.Y. 3 of 5
			G.P.Y. 3 of 5 CADD File NAME AE-23301-DRAW-M001-M005-R00

		-
PROVIDE 22 GAUGE (0.76mm) GALVANIZED SHEET METAL TRIMMING ANGLE AND SLEEVE SCREWED TO PARTION		
SEAL WITH MASTIC (SILICON FOAM)		
NOTE PROVIDE RIGID OPEN END TRANSFER DUCT IN RETURN AIR PLENUM CEILING SPACE PROVIDE 1" (25mm) INTERNAL ACOUSTIC INSULATION. REFER TO PLAN FOR DUCT SIZE AND DIRECTION OF ELBOW.		
2 TYPICAL TRANS	FER	D
M003 N.T.S.		

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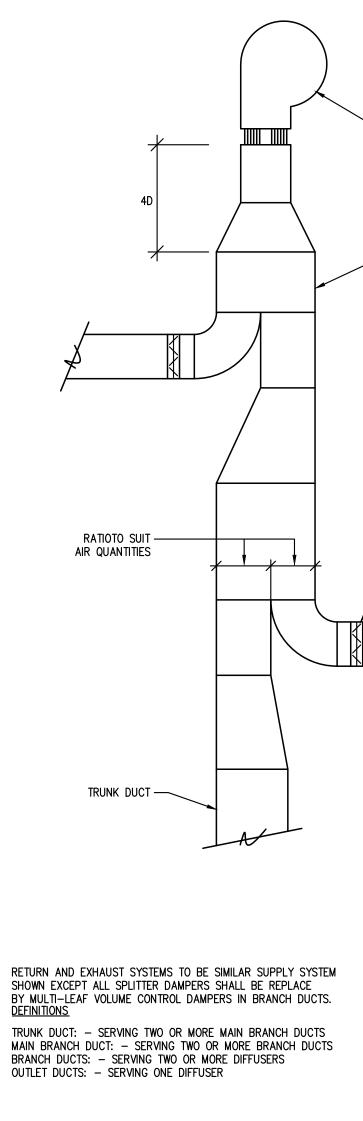
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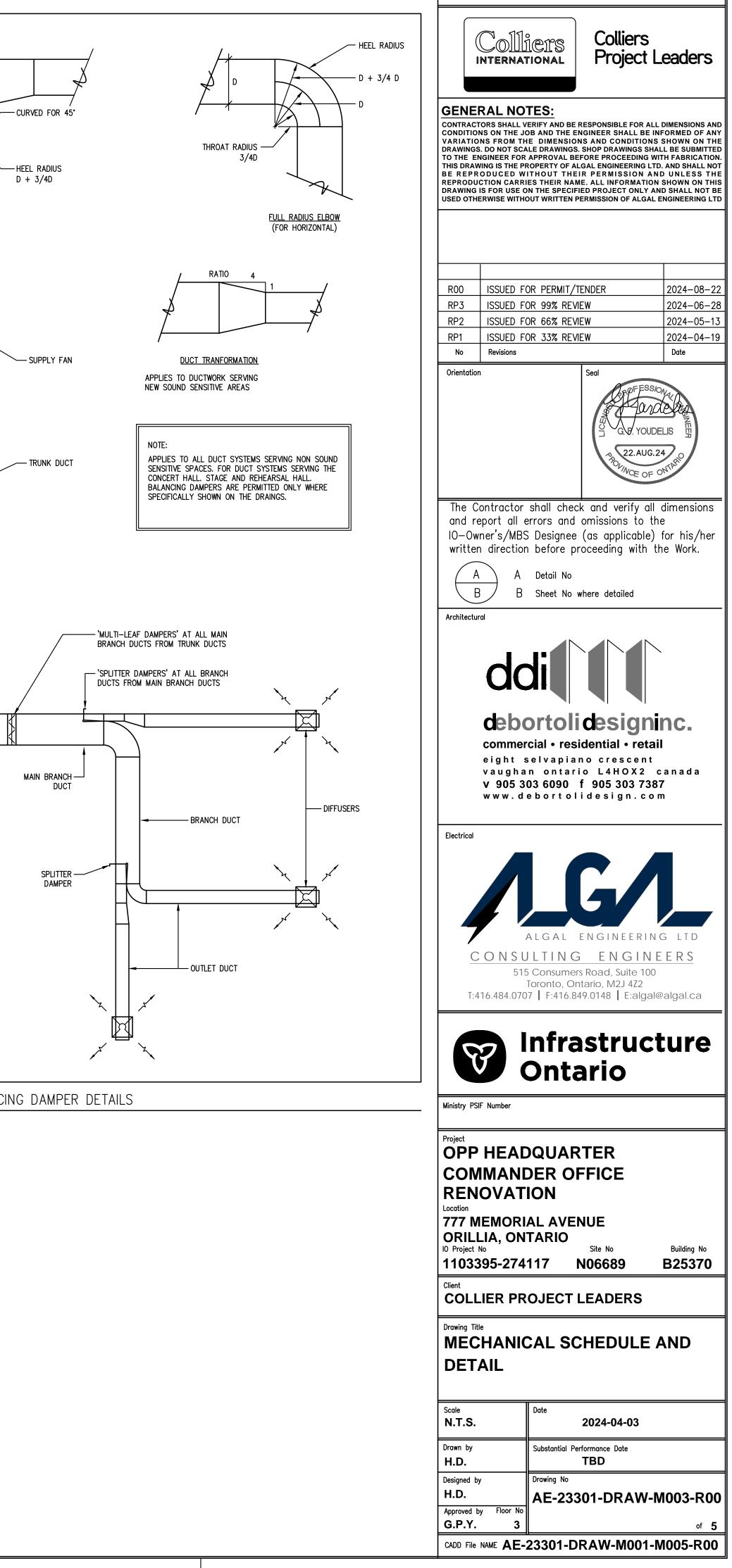


DUCT AND SPIN-ON FITTING DETAILS

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1 DUCTWORK FITTINGS AND BALANCING DAMPER DETAILS M003 N.T.S.





GENERAL NOTES

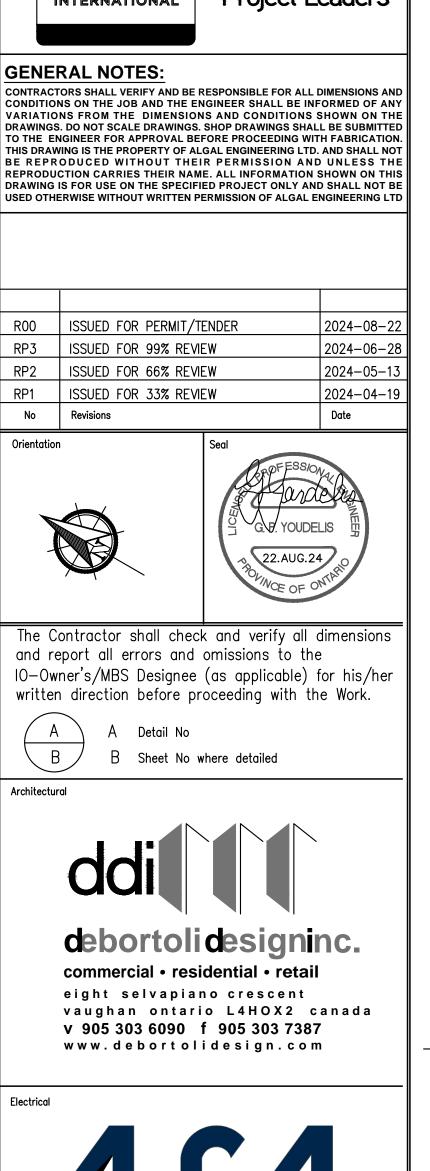
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS ARE TO BE REFEREED TO CONSULTATION FOR INSTRUCTIONS BEFORE ANY
- WORK IS BEGUN. 3. CONTRACTOR TO COORDINATE WORK ON SITE WITH NEW MECHANICAL,
- STRUCTURAL AND ELECTRICAL SERVICES IN ORDER TO SUIT NEW INSTALLATION. 4. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN
- AS REQUIRED. 5. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

- (1) EXISTING 100' LONG FIRE HOSE CABINET AT THIS LOCATION AS SHOWN TO REMAIN.
- 2 Existing window sprinkler at this location as shown to remain. (Typical for all)
- (3) EXISTING SPRINKLER HEAD AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- (4) EXISTING SPRINKLER HEAD AT THIS LOCATION TO BE REMOVED. CUT BRANCH PIPE BACK TO MAIN. (TYPICAL)
- (5) REMOVE EXISTING FIRE EXTINGUISHER AND SAVE SAFELY ON SITE FOR RELOCATION.

Colliers international





ALGAL ENGINEERING

CONSULTING ENGINEERS 515 Consumers Road, Suite 100

Toronto, Ontario, M2J 4Z2 T:416.484.0707 | F:416.849.0148 | E:algal@algal.ca

Ontario

Infrastructure



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- $\langle 2 \rangle$ existing window sprinkler at this location as shown to remain.
- (TYPICAL FOR ALL)
 EXISTING SPRINKLER HEAD AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- 4 PROVIDE NEW SPRINKLER HEAD AT THIS LOCATION AS SHOWN.
- (5) RELOCATE EXISTING FIRE EXTINGUISHER TO THIS LOCATION AS SHOWN.

Project OPP HEADQUARTER COMMANDER OFFICE RENOVATION

- Location 777 MEMORIAL AVENUE ORILLIA, ONTARIO IO Project No Site No 1103395-274117 N06689
- Building No
- Building No B25370

COLLIER PROJECT LEADERS

Drawing Title

Y

Ministry PSIF Number

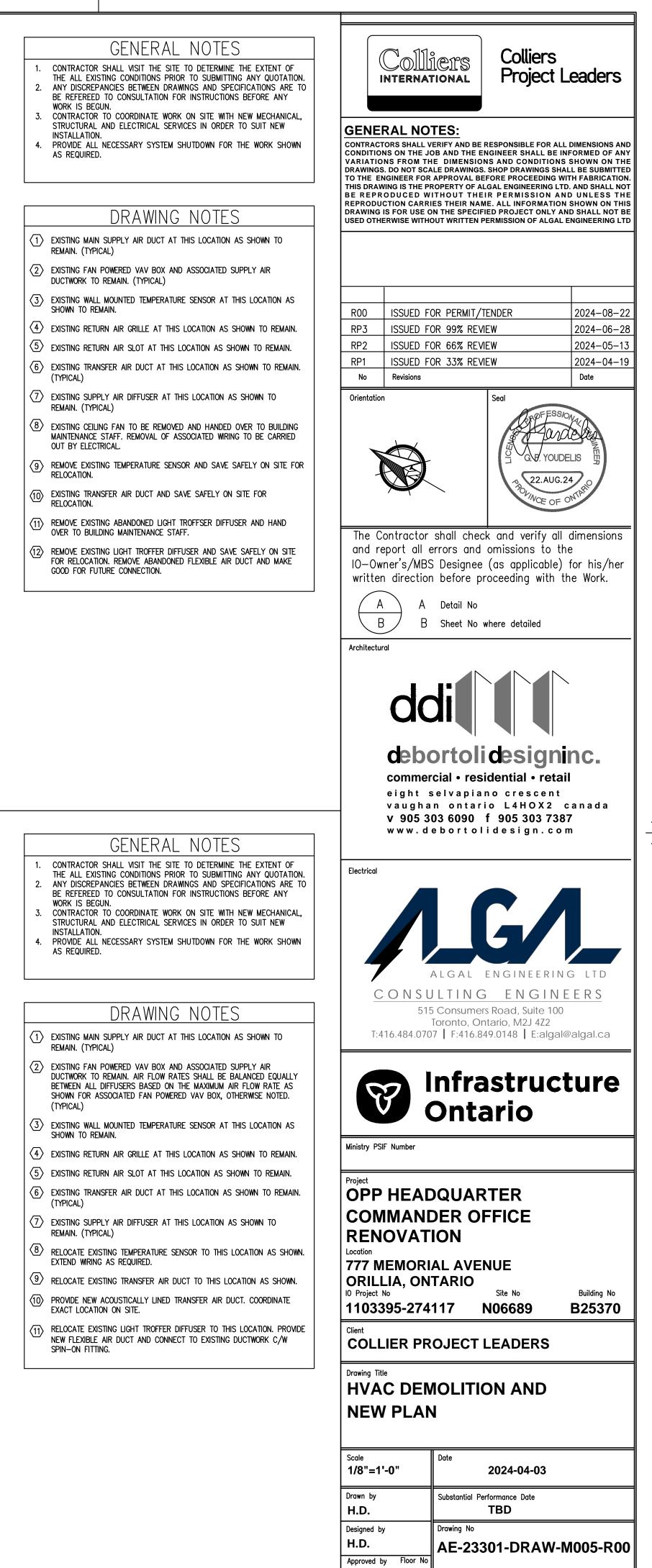
FIRE PROTECTION DEMOLITION AND NEW PLAN

Scale 1/8"=1'-0"	Date 2024-04-03
Drawn by H.D.	Substantial Performance Date TBD
Designed by	Drawing No
H.D. Approved by Floor No	AE-23301-DRAW-M004-R00
G.P.Y. 3	of 5
CADD File NAME AE-	23301-DRAW-M001-M005-R00



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G.P.Y. CADD File NAME AE-23301-DRAW-M001-M005-R00

of 5