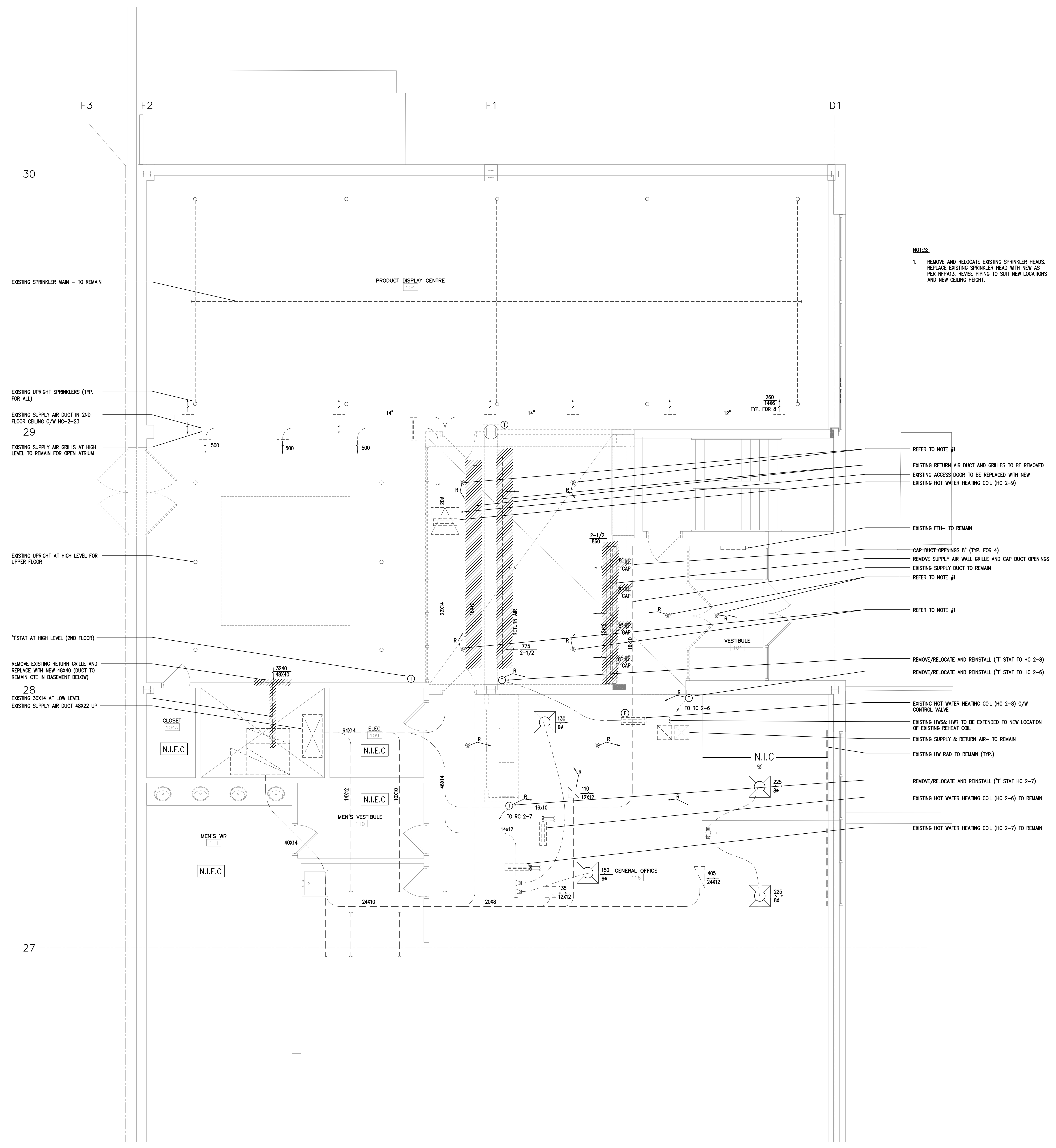


The contractor shall check all dimensions and other data from the job and report any discrepancies to the architect before proceeding. Do not scale drawing.

NO.	REVISIONS	DATE
3.	ISSUED FOR TENDER	JAN.10, 2017
2.	ISSUED FOR BUILDING PERMIT	DEC.01, 2016
1.	ISSUED FOR REVIEW	NOV.11, 2016

DRAWING LIST	
DRAWING NO.	DESCRIPTION
PDC-M-001	RENOVATED AREA- DEMOLITION PLAN
PDC-M-002	RENOVATED AREA- NEW PLAN
PDC-M-003	MECHANICAL SPECIFICATION

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING OBJECT TO BE REMOVED
	EXISTING DUCTWORK (SINGLE LINE)
	DUCTWORK (SINGLE LINE)
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	SUPPLY DUCT UP (RECTANGULAR)
	RETURN DUCT UP
	EXISTING RETURN OR EXHAUST AIR GRILLE
	RETURN OR EXHAUST AIR GRILLE
	EXISTING SQUARE SUPPLY AIR DIFFUSER
	SQUARE SUPPLY AIR DIFFUSER
	SPIN ON FITTING WITH FLEXIBLE DUCT
	THERMOSTAT
	THERMOSTAT WIRING
	FLEXIBLE DUCT
	TYPE OF GRILLE/DIFFUSER & AIR QUANTITY (L/S)
	GRILLE/DIFFUSER FACE SIZE/NECK SIZE
	WALL HUNG FIRE EXTINGUISHER 5 Lb ABC
	EXISTING TO REMAIN
	RELOCATED POSITION
	CONNECT TO EXISTING



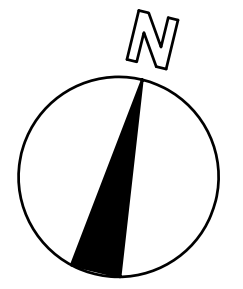
NOTES:
 1. REMOVE AND RELOCATE EXISTING SPRINKLER HEADS. REPLACE EXISTING SPRINKLER HEAD WITH NEW AS PER NFPA13. REWIRE PIPING TO SUIT NEW LOCATIONS AND NEW CEILING HEIGHT.

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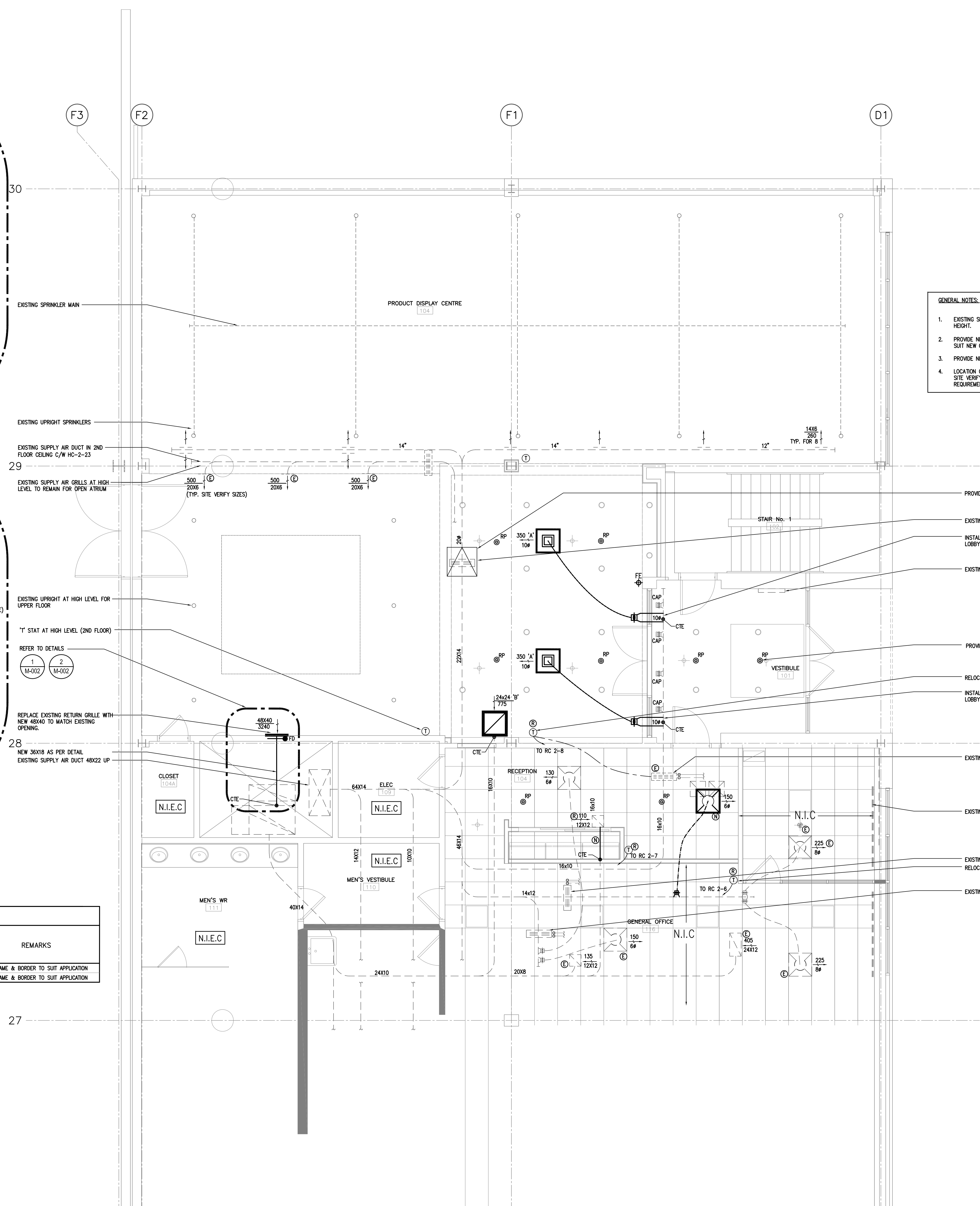
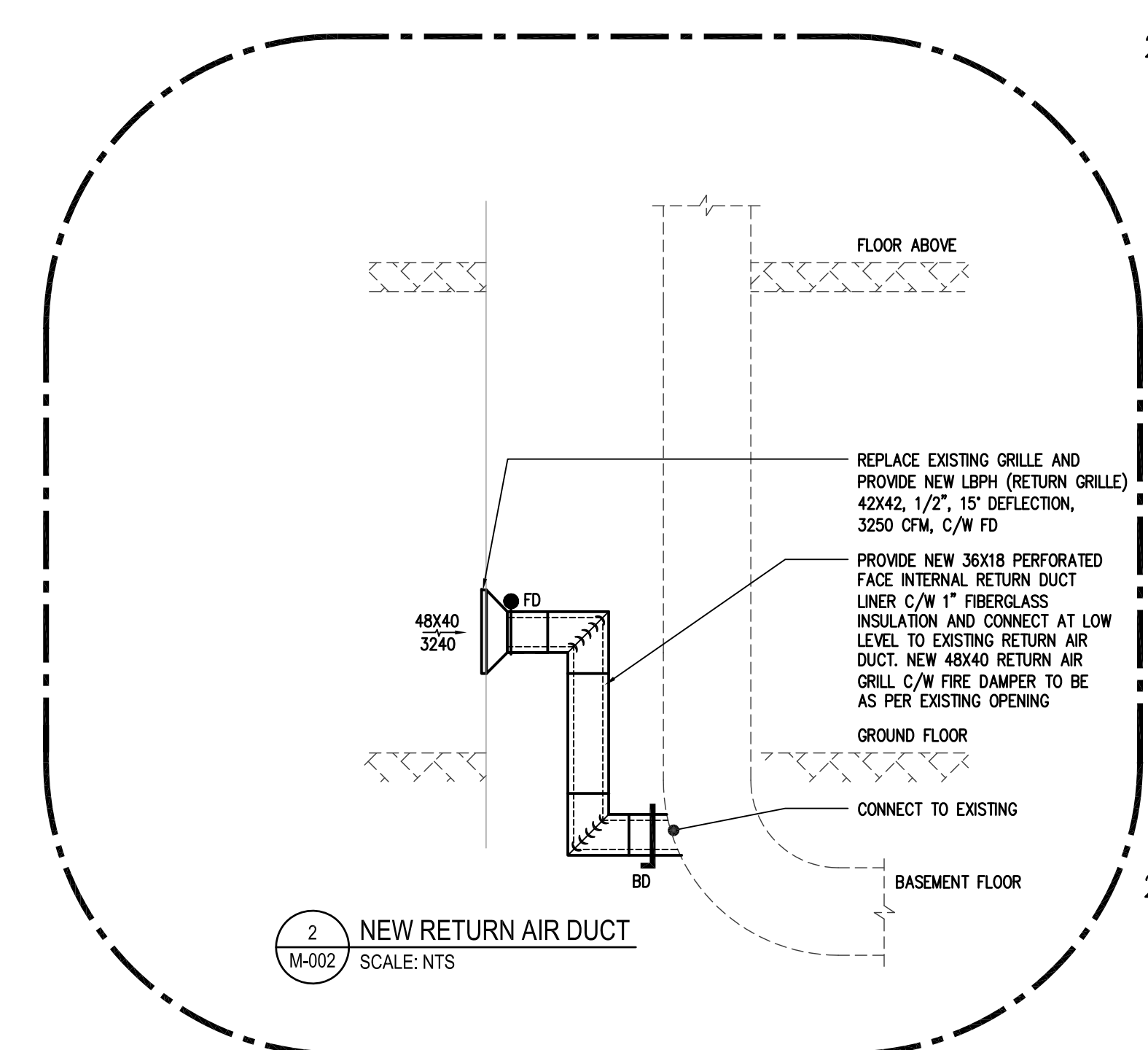
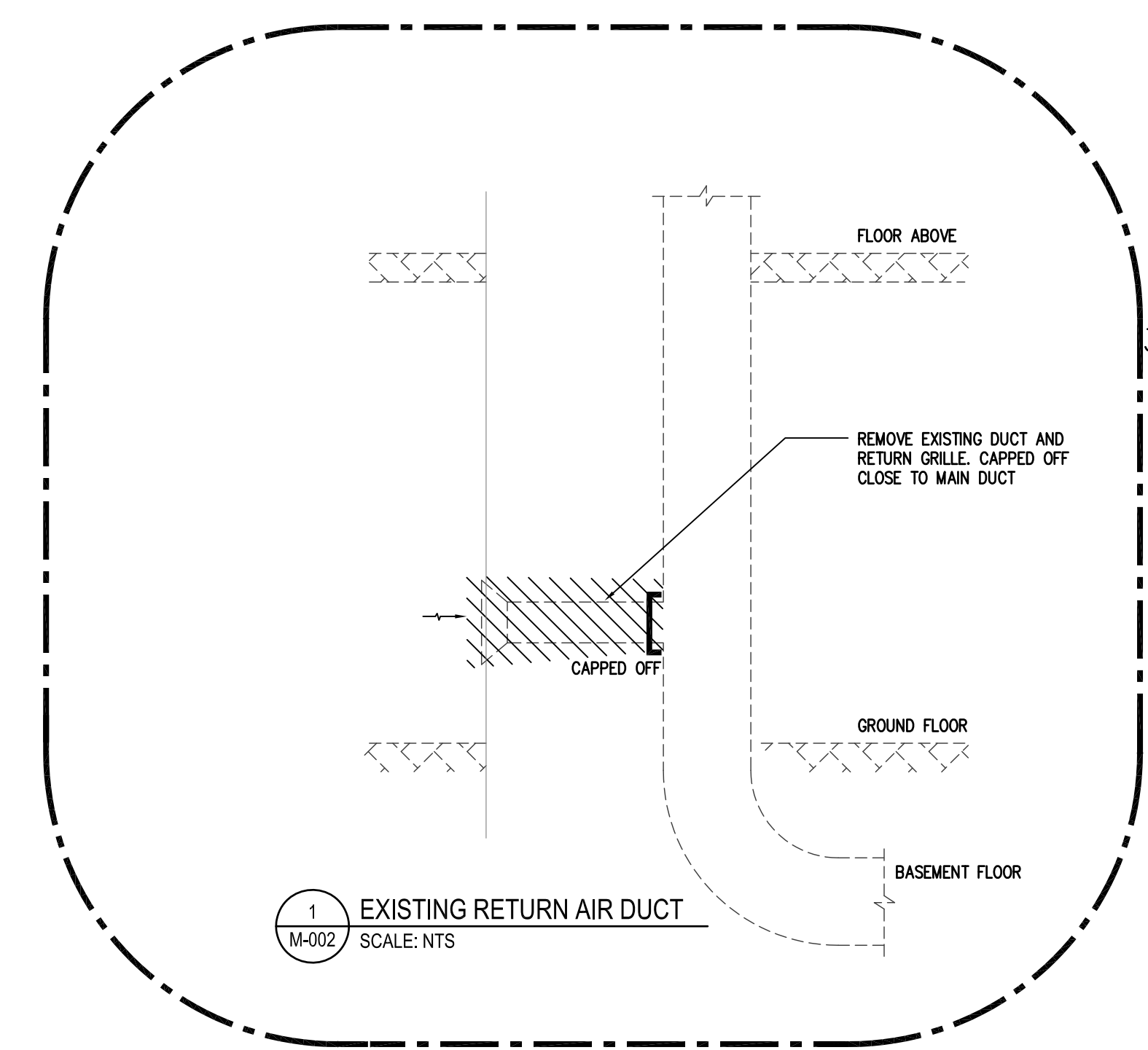
S&C ELECTRIC CANADA
 Drawing Title: RENOVATED AREA- DEMOLITION PLAN

Project Title: PRODUCT DISPLAY CENTRE, BLDG. 4 RENOVATION
 90 BELFIELD ROAD TORONTO



Approved: KS	Checked: KS	Drawn By:
Scale: 1/4" = 1'-0"	Date: JAN., 2017	File No: SPI# 2016-1076
Drawing Number: PDC-M-001	Revision Number:	Computer File Number: Copyright 2016

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NO.	REVISIONS	DATE



- GENERAL NOTES:**
- EXISTING SPRINKLER HEADS IN RENOVATED AREA TO SUIT NEW CEILING HEIGHT.
 - PROVIDE NEW PIPING BRANCHES (ELBOWS) FITTINGS ETC. AS NEED TO SUIT NEW CEILING THROUGH OUT.
 - PROVIDE NEW CONCEALED SPRINKLER HEADS
 - LOCATION OF SPRINKLER HEADS SHOWN FOR REFERENCE ONLY. SITE VERIFY WITH HEIGHT AND DIFFUSERS AND INSTALL AS PER NFPA-13 REQUIREMENTS.

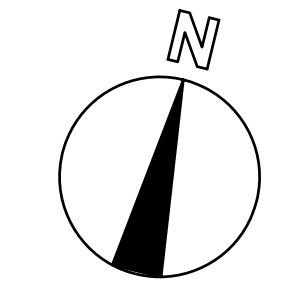
REGISTERS, GRILLES & DIFFUSERS SCHEDULE							
REF. LETTER	APPLICATION	MANUFACTURER DATA			OPPOSED BLADE DAMPER	FINISH	REMARKS
		SELECTION MFG.	MODEL DESCRIPTION AND SIZE (mm x mm)	NECK SIZE AS SHOWN ON LINES FULLY ADJUSTABLE AIR PATTERN			
A	SQUARE PLAQUE DIFFUSER	DH PRICE	ASPD - 600x600 ROUND NECK	NECK SIZE AS SHOWN ON LINES FULLY ADJUSTABLE AIR PATTERN	YES	WHITE	FRAME & BORDER TO SUIT APPLICATION
B	RETURN GRILLE	DH PRICE	APPLICABLE FOR DRYWALL CEILING		NO	WHITE	FRAME & BORDER TO SUIT APPLICATION

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 Drawing Title:
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Approved: KS Checked: KS Drawn By:
 Scale: 1/4"=1'-0" Date: JAN., 2017 File No.: SPI# 2016-1076
 Drawing Number: Revision Number:
PDC-M-002
 Computer File Number: Copyright 2016

GENERAL MECHANICAL CONDITIONS – SECTION 15050

1. CONFORM TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
2. THIS SECTION 15050 SHALL APPLY TO ALL DIVISION 15 SECTIONS.
3. BEFORE SUBMITTING TENDERS, EXAMINE SITE, EXISTING SERVICES AND ALL DRAWINGS. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO DO SO.
4. PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS.
5. OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS.
6. MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKER'S COMPENSATION ACT.
7. THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. ALL MEASUREMENTS SHALL BE TAKEN FROM BUILDING SITE AND ARCHITECT'S DRAWINGS.
8. ALL MATERIALS SHALL CONFORM TO CSA, HEPIC AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL.
9. ALL EXISTING SERVICES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THIS CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY LINES, ETC. SO AS TO CARRY OUT THE ABOVE.
10. TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR.
11. ALL CUTTING AND PATCHING FOR MECHANICAL WORK WILL BE THE RESPONSIBILITY OF THIS SUB-CONTRACTOR, HIRE SPECIALIZED TRADES TO DO THIS WORK.
12. PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERE TO.
13. SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED.
14. SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, I.E. DIFFUSERS, GRILLES, CONTROLS ETC.
15. WHERE SUBSTITUTIONS ARE MADE FOR EQUIPMENT SPECIFIED BY NAME OR MODEL NUMBER, BE FULLY RESPONSIBLE FOR CAPACITIES AS WELL AS PHYSICAL FIT OF SUBSTITUTED MATERIALS.
16. SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, ETC. REQUIRED FOR THIS WORK. PROVIDE WATERTIGHT INSTALLATION.
17. SUPPLY AND INSTALL ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT INCLUDING ENTERING AND LEAVING SIDES OF ALL COILS. WHERE NECESSARY, DOORS SHALL BE RATED TO SUIT FIRE ASSEMBLY RATING.
18. PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE USE PLASTIC INSERTS. USE OVERSIZED HANGERS AND SADDLES FOR C/W PIPING. DO NOT SUPPORT EQUIPMENT, DUCTS OR PIPING FROM ROOF DECK WITHOUT PERMISSION FROM ARCHITECTS. SUPPLY AND INSTALL NECESSARY STEEL TO TRANSFER LOAD TO STRUCTURAL MEMBERS.
19. ALL DISSIMILAR METAL (STEEL-COPPER, ETC.) SHALL BE SEPARATED USING GASKETS AND INSULATING WASHERS OR WATTS "O-ELECTRIC" FITTINGS.
20. INSTALL CHROME-PLATED ESUTOJONS WHERE BRANCH PIPES PASS THROUGH FINISHED SURFACE.
21. KEEP ACCURATE RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION. BURIED SERVICES MUST BE DIMENSIONED. PROVIDE A CAD DISK OF THE AS-BUILT DRAWINGS TO CONSULTANT FOR REVIEW AND VERIFICATION.

22. ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES.
23. IDENTIFY ALL PIPING, USE STENCILS OR COLOUR CODES AND DIRECTIONAL ARROWS.
24. IDENTIFY ALL REMOTE CONTROL AND ALL OTHER EQUIPMENT AS TO SERVICE BY A BLACK LAMACOID ENGRAVED NAMEPLATE WITH WHITE CORE, FIRMLY AFFIXED WITH SCREWS TO EACH UNIT.
25. PROVIDE FIRE STOPPING AND SMOKE SEALS.
 - A. PRIMERS TO MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC MATERIAL, SUBSTRATE, AND END USE.
 - B. DAMMING AND BACKUP MATERIALS, SUPPORTS AND ANCHORING DEVICES TO BE TO MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH TESTED ASSEMBLY BEING INSTALLED AS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
 - C. SEALANTS FOR VERTICAL JOINTS TO BE NON-SAGGING.
 - D. FIRESTOP AND SMOKE SEAL AROUND MECHANICAL AND ELECTRICAL ASSEMBLIES PENETRATING NON-RATED FIRE SEPARATIONS.
 - E. RIGID DUCTS WITH DIMENSIONS GREATER THAN 1300 MM TO BE FIRE STOPPED BY BEAD OF FIRE STOPPING MATERIAL BETWEEN RETAINING ANGLE AND FIRE SEPARATION, AND BETWEEN RETAINING ANGLE AND DUCT, ON EACH SIDE OF FIRE SEPARATION.
 - F. REMOVE EXCESS MATERIALS AND DEBRIS AND CLEAN ADJACENT SURFACES IMMEDIATELY AFTER APPLICATION.
 - G. REMOVE TEMPORARY DAMS AFTER INITIAL SET OF FIRE STOPPING AND SMOKE SEAL MATERIALS.
26. ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION.
27. AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION AND PROVIDE HIM WITH OPERATING AND MAINTENANCE MANUALS STANDARDS AND EXTENDED WARRANTY DOCUMENTS, INSPECTION CERTIFICATES AND COPIES OF SHOP DRAWINGS OF INSTALLED EQUIPMENT.
28. THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.
29. SHOULD ANY DISCREPANCY APPEAR BETWEEN THESE SPECIFICATIONS AND THE DRAWINGS TO CAUSE DOUBT AS TO THE TRUE MEANING AND INTENT OF THE DRAWINGS AND SPECIFICATIONS, A RULING SHALL BE OBTAINED FROM THE ARCHITECT CONSULTANT BEFORE SUBMITTING THE TENDER. IF THIS IS NOT DONE IT WILL BE ASSUMED THAT THE MORE EXPENSIVE ALTERNATIVE HAS BEEN INCLUDED IN THE CONTRACT.
30. ANY ERROR OR INCONSISTENCY IN THE DRAWINGS OR SPECIFICATIONS NOTED AFTER AWARD OF CONTRACT MUST BE REPORTED TO THE ARCHITECT CONSULTANT BEFORE COMMENCING WORK.
31. THE OMISSION OR INCORRECT MENTION OF WORK, MATERIALS, ETC. THAT ARE INDISPENSABLE TO THE COMPLETED WORK, IS NOT TO BE INTERPRETED AS RELIEVING OF THE NECESSITY OF PROVIDING SUCH WORK, MATERIALS, ETC. AT NO EXPENSE TO THE OWNER.
32. ALLOW FOR CONNECTIONS TO EXISTING SYSTEMS DURING AFTER HOURS OR WEEKENDS, INCLUDING BUT NOT LIMITED TO PLUMBING AND DRAINAGE, WATER PIPING, HEATING SYSTEMS, ELECTRICAL AND CONTROL CONNECTIONS.

SPRINKLERS – SECTION 15330

1. ALTER THE EXISTING SPRINKLER SYSTEM TO SUIT REVISED LAYOUT.
2. THIS IS PERFORMANCE SPECIFICATION ONLY. PREPARE SPRINKLER SHOP DRAWINGS FOR SUBMISSION TO ENGINEER, UNDERWRITERS AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. ENGINEERS DRAWINGS INDICATE GENERAL AREAS TO BE SPRINKLERED ONLY.
3. SPRINKLER WORK SHALL BEGIN INSIDE BUILDING AT MAIN COLD WATER HEADER WHERE INDICATED ON DRAWINGS.
4. SYSTEM SHALL BE COMPLETED WITH ALL NECESSARY PIPING, HANGERS, NEW HEADS ETC., ALL IN STRICT ACCORDANCE WITH STANDARDS AS STIPULATED IN THE NATIONAL FIRE PREVENTION ASSOCIATION NFPA 13 AS REVISED TO DATE AND/OR AS APPROVED BY THE LOCAL FIRE DEPARTMENT AND BUILDING DEPARTMENT.

5. IN GENERAL, SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH "LIGHT HAZARD OCCUPANCY" STANDARDS.
6. ALL HEADS UNLESS NOTED OTHERWISE SHALL BE EQUAL TO GRINNELL "DURO SPEED", LOW HEADS SHALL BE EQUIPPED WITH GUARDS.
7. WHERE SUSPENDED CEILINGS OCCUR, PIPING SHALL BE CONCEALED ABOVE CEILINGS. IN AREAS WHERE THERE ARE NO SUSPENDED CEILINGS, HEADS SHALL BE UPRIGHT TYPE WITH PLAIN BRONZE FINISH. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
8. WHERE CEILINGS ARE RAISED OR LOWERED, ADJUST HEADS TO SUIT NEW CEILING HEIGHTS.
9. WHERE CEILINGS ARE REMOVED AND REPLACED, REMOVE AND REPLACE HEADS AS REQUIRED TO PERMIT EXECUTION OF NECESSARY WORK.

WARM AIR HEATING, VENTILATING & AIR CONDITIONING – SECTION 15850

1. SUPPLY AND INSTALL ALL HEATING, VENTILATION AND AIR HANDLING EQUIPMENT AS SHOWN ON DRAWINGS.
2. SUPPLY AND INSTALL DUCTWORK, AS INDICATED ON DRAWING. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST SMACNA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.
3. INSTALL MANUAL BALANCING DAMPERS AT ALL BRANCH TAKEOFFS AND IN OTHER LOCATIONS WHERE NECESSARY FOR SYSTEM BALANCING.
4. FLEXIBLE DUCTS SHALL BE ALUMINUM HELICALLY WOUND SPIRAL DUCT, EQUAL TO FLEXMASTER T/A, MAXIMUM 10 FT. LENGTH. PROVIDE ACOUSTIC FLEX EQUAL TO FLEXMASTER MODEL T/A--A, WHERE DUCTS ARE TO BE INTERNALLY INSULATED.
5. INSTALL UL LABELLED FIRE DAMPERS AND FIRE STOP FLAPS WHERE SHOWN AND WHERE REQUIRED. THESE SHALL BE INSTALLED IN ACCORDANCE WITH ULC APPROVED METHODS, FOR DUCTS UNDER 12" (300MM), USE 100% FREE AIR DAMPERS, DAMPERS IN ALUMINUM AND STAINLESS STEEL. DUCT SHALL BE MANUFACTURED OF STAINLESS STEEL. ADVISE DRYWALL TRADES OF APPROVED INSTALLATION METHODS IN DRYWALL PARTITIONS.
6. SUPPLY ALL GRILLES AND DIFFUSERS WHERE SHOWN ON DRAWINGS. FINISH SHALL BE OFF-WHITE BAWED ENAMEL.
 - EXHAUST GRILLES – DOUBLE DEFLECTION VERTICAL FACE BARS, OPPOSED BLADE DAMPER, SCREW FASTENING.
 - LAY-IN RETURN GRILLES – 1/2" ALUMINUM EGG CRATE, FRAME, NO DAMPER, NO BORDER.
 - SURFACE MOUNT RETURN – SAME AS ABOVE EXCEPT WITH BORDER.
 - DIFFUSERS – PLAUQUE ROUND OF NECK SIZE SHOWN ON DRAWING C/W GRID AND DAMPER. SEE CEILING SCHEDULE AND DRAWING FOR MOUNTING TYPE AND MODULE SIZE.
7. INCLUDE FOR STARTUP OF AIR HANDLING EQUIPMENT.
8. CENTRIFUGAL FANS SHALL BE COMPLETE WITH BELT GUARDS WITH TACHOMETER OPENINGS.
9. ALL BACKDRAFT AND ELECTRIC MOTORIZED DAMPERS SHALL BE LOW LEAKAGE TYPE.
10. SUPPLY AND INSTALL GAS VENTS FOR ALL GAS FIRED EQUIPMENT.
11. ALL EXTERIOR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1/2" (12MM) OF COATED FIBREGLAS DUCT INSULATION. INSULATE THE EXTERIOR WITH 2" (50MM) OF RIGID INSULATION AND FINISH WITH ALUMINUM JACKETING, SANDED ON AND SEALED WITH SILICONE OR SIMILAR SEALER. (TOTAL INSULATION VALUE R-12). DUCTWORK IN UNHEATED SPACES SHALL ALSO BE INSULATED TO R-12.
12. EXHAUST AIR DUCTWORK WITHIN 5 FT. (1500MM) OF A WALL OR ROOF, AND ALL OUTSIDE AIR INTAKE DUCTWORK, SHALL BE EXTERNALLY INSULATED WITH 2 1/2" (63MM) THICK FOIL FACED FLEXIBLE FIBREGLAS DUCT INSULATION (R-10). APPLY USING RECOMMENDED ADHESIVE AND TAPE ALL JOINTS USING VAPOUR BARRIER TAPE. ALL AIR CONDITIONED AIR SUPPLY DUCTWORK, UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE INSULATED IN A SIMILAR MANNER USING 1" MATERIAL.

13. SUPPLY AND INSTALL ELECTRIC DUCT HEATERS OF SIZE AND TYPE AS SHOWN ON DRAWINGS. INCLUDE AIR FLOW SWITCH, CONTACTORS, SAFETY CUTOUTS, CONTROL TRANSFORMER, SCR CONTROLLER ETC.
14. (SUPPLY AND) INSTALL IN ALL RECIRCULATING TYPE AIR UNITS WHERE INDICATED APPROVED DUCT TYPE SMOKE DETECTORS AND INCLUDE WIRING BETWEEN DETECTOR AND FAN STARTER. (SMOKE DETECTOR SUPPLIED BY DIV. 16). PROVIDE AUXILIARY CONTACTS WHERE REQUIRED.
15. PROVIDE ALL MOTORIZED DAMPERS TO OPEN AND CLOSE AS RESPECTIVE FANS START AND STOP.
16. SUPPLY AND INSTALL ALUMINUM WEATHER LOUVERES WHERE SHOWN, 4" (100MM) [6" (150MM)] STORMPROOF BLADE C/W BRUSHSCREEN, LOUVER COLOUR TO ARCHITECT'S APPROVAL. BLANK OFF ALL UNUSED SECTIONS WITH INSULATED SHEETMETAL.
17. ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES. BALANCE ALL AIR SYSTEMS AND SUPPLY WRITTEN AIR BALANCING REPORTS IN TRIPPLICATE. INCLUDE NECESSARY SPARE BELTS PULLEYS FOR FIELD ADJUSTMENT AND REPLACEMENT OF FILTERS. SET AIR SYSTEMS CONTROLS AND DEMONSTRATE OPERATION TO OWNER'S REPRESENTATIVE.
18. IN RENOVATION WORK, VERIFY EXISTING AIR QUANTITIES BEFORE PROCEEDING WITH MODIFICATIONS.


CONTROLS – SECTION 15950

1. ALL CONTROL WIRING SHALL BE CARRIED BY DIV.15. POWER WIRING SHALL BE BY DIV.16. THE CONTROL SYSTEM SHALL BE SUPPLIED AND INSTALLED COMPLETE IN ALL RESPECT AND FULLY FUNCTIONAL. DEMONSTRATE TO THE MECHANICAL CONSULTANT ON COMPLETION OF WORK.
2. ALL CONTROLS WORK SHALL BE PERFORMED BY THE DIRECT ENERGY, OWNER'S CONTROL CONTRACTOR FOR ALL CONTROLS RELATED EQUIPMENT.
3. PROVIDE ALL CONTROLS AND WIRING INCLUDING APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEMS.
4. NEW THERMOSTATS SHALL MATCH BASE BUILDING (WITH VENTILATED TAMPER-PROOF COVER)
5. MOUNTING HEIGHT OF THERMOSTATS SHALL BE 5'-0" (1500MM) FROM FINISHED FLOOR. COORDINATE LOCATION WITH ARCHITECT / INTERIOR DESIGNER. DO NOT INSTALL IN VICINITY OF ELECTRICAL LIGHTING DIMMER OR HEAT GENERATED APPLIANCES / DEVICES OR ON EXTERIOR WALL.
6. CLEAN AND RECALIBRATE ALL EXISTING THERMOSTATS UPON COMPLETION OF CONSTRUCTION. SUBMIT REPORT THAT THIS WORK HAS BEEN COMPLETED.
7. PROVIDE ALL NECESSARY EMT CONDUIT, FITTINGS AND WIRE TO PROVIDE A COMPLETE AND OPERATING CONTROL SYSTEM. HARD WIRE ALL ELECTRICAL CONTROL DEVICES INTO THE ASSOCIATED SYSTEM MAGNETIC STARTER. PROVIDE POWER TO CONTROL PANEL FROM THE NEAREST NORMAL POWER ELECTRICAL DISTRIBUTION PANEL.
8. PROVIDE CONTROLS SYSTEMS TRAINING FOR OWNER WHEN SYSTEM HAS BEEN COMPLETED AND VERIFIED AS PER SPECIFICATIONS. PROVIDE FOUR HOURS MINIMUM FOR NEW HVAC CONTROL SYSTEMS.

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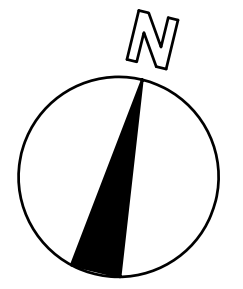
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