

GENERAL MECHANICAL NOTES:

1.) ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.

2.) REFER TO ARCH. DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS/FIRESTOPPING AS REQ'D BY N.F.P.A. & LOCAL CODES (DWG MAY NOT SHOW ALL REQ'D FIRE DAMPERS). PROVIDE ACCESS HATCHES FOR ALL FIRE DAMPERS.

3.) EACH MECHANICAL DISCIPLINE SHALL BE RESPONSIBLE TO PROVIDE FIRESTOPPING TO ALL EXISTING PIPING, AS REQUIRED, UNDER THEIR RESPECTIVE SCOPE OF WORK.

4.) ALL WIRING 50V & UNDER BY THIS CONTRACTOR, ALL WIRING REQUIRED FOR MECHANICAL WORK THAT IS OVER 50V NOTED AS THE RESPONSIBILITY OF THIS CONTRACTOR MUST BE PERFORMED BY AN ELECTRICIAN. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

5.) ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED ONLY AFTER RECEIVING APPROVED EQUAL STATUS FROM THE DEPARTMENTAL REPRESENTATIVE. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT. IF ALTERNATE EQUIPMENT IS APPROVED BY DEPARTMENTAL REPRESENTATIVE, ALL COSTS ASSOCIATED WITH ANY MODIFICATIONS, CHANGES, ETC. TO USE THE ALTERNATE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SPRINKLER NOTES:

1.) REFERENCES TO SPRINKLER SYSTEMS WITHIN THESE DRAWINGS ARE ONLY PROVIDED TO AID IN LOCATING PIPING AND HEADS ON SITE AND IS NOT FOR CONSTRUCTION. ALL SPRINKLER INFORMATION SHOWN IS ONLY APPROXIMATE OR SUGGESTED. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL SPACES ARE PROTECTED AS PER CODE.

2.) EXACT LOCATION OF SPRINKLER HEADS TO BE COORDINATED WITH REFLECTED CEILING PLAN - SEE ARCH. DRAWINGS

3.) CONTRACTOR RESPONSIBLE TO REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE FOR ROOM LAYOUTS, CEILING CONSTRUCTION, MOUNTING CEILING HEIGHTS AS CEILINGS HEIGHTS VARY THROUGHOUT.

4.) CONTRACTOR SHALL REVIEW ARCHITECTURAL SET OF CONSTRUCTION PLANS PRIOR TO TENDER CLOSE TO CONFIRM REQUIRED SPRINKLER HEAD LOCATIONS AND QUANTITY, RISER LOCATIONS, AND ALL REQUIRED WORK AS INTENDED BY THIS PLAN. NO COST INCREASE WILL BE GIVEN FOR FAILURE TO MAKE THIS REVIEW.

5.) CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY SIZING ALL SPRINKLER COMPONENTS.

6.) ABOVE ALL ELSE, CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN ORDER TO PROVIDE AND ENSURE THAT SPACE IS PROTECTED ACCORDING TO CODE. PROVIDE WRITTEN GUARANTEE FOR SAME AS REQUIRED BY I.A.D. AND/OR A.H.J. PROVIDE STAMPED ENGINEERED DRAWINGS AND HYDRAULIC CALCULATIONS AS REQUIRED.

7.) REFER TO ARCH. DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, CEILING, AND FLOOR ASSEMBLIES. PROVIDE FIRE STOPPING REQUIRED BY N.B.C.

8.) PROVIDE ANY REQUIRED FLOW SWITCHES AND ZONING AS REQUIRED BY CODES. PROVIDE ANY ELECTRICAL WORK REQUIRED TO POWER THESE ITEMS. COORDINATE WITH G.C.

9.) THIS DRAWING ONLY INDICATES SUGGESTED PATH OF NEW RISERS AND MAIN LINES. CONTRACTOR IS RESPONSIBLE FOR LOCATING HEADS AS REQUIRED BY CODES. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH G.C. FOR FINAL LOCATION OF ALL PIPING.

10.) CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES AS CEILING SPACE IS LIMITED.

11.) CONTRACTOR SHALL ENSURE PIPING IS NOT SUBJECT TO FREEZING TEMPERATURES IN ANY LOCATION. IF FREEZING COULD OCCUR, PROVIDE ANTI-FREEZING STRATEGY SATISFYING CODES.

12.) THIS CONTRACT ENDS 5 FT FROM FACE OF BLDG. THIS CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR OUTSIDE WORK, WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.

13.) CONTRACTOR SHALL ALLOW FOR OFFSETS OFF ALL BRANCHES FOR CENTREING SPRINKLER HEADS IN CEILING TILES IN MAIN ROOMS.

14.) BUILDING OCCUPANCY IS OF INDUSTRIAL USE. INSURE SPRINKLER COVERAGE IS SUITABLE FOR SPACE RATINGS.

VENTILATION

1.) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH N.B.C.C., N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.

2.) ALL WORK SHALL BE COORDINATED WITH OTHER DIVISIONS.

3.) ALL DUCTWORK SHALL BE INSULATED AS PER SPEC.

4.) PROVIDE EXTERNAL BALANCING DAMPERS ON DIFFUSERS AS SHOWN.

5.) CONTRACTOR RESPONSIBLE FOR ALL DUCT TRANSITIONS TO/FROM AHU'S, EXHAUST FANS, DIFFUSERS, GRILLES ETC. PROVIDE FLEX CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

6.) CONTRACTOR RESPONSIBLE TO CO-ORDINATE GRILLE FRAME TYPES WITH CEILING TYPES PRIOR TO ORDERING.

7.) REFER TO ARCH. DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS, AND FLOOR ASSEMBLIES. PROVIDE FIRE DAMPERS/FIRESTOPPING AS REQ'D BY N.B.C.C., N.F.P.A. & LOCAL CODES.

8.) USE NO MORE THAN 1.5m OF FLEX. DUCT ON BRANCHES TO DIFFUSERS.

9.) PROVIDE ACCESS HATCHES FOR ALL FIRE DAMPERS.

10.) CONTRACTOR TO REFER TO ARCHITECTURAL FINISH SCHEDULE IN ARCH. SPEC. FOR CEILING TYPES AND CEILING HEIGHTS.

11.) ALL EXHAUST DUCTING TO BE WELDED STAINLESS STEEL 316L CONSTRUCTION.

PLUMBING NOTES:

1.) PROVIDE STOPS AT ALL PLUMBING FIXTURES.

2.) PROVIDE LOCKABLE FIRE RATED ACCESS HATCHES FOR ALL SERVICE LOCATIONS. SUPPLY KEYS TO DEPARTMENTAL REPRESENTATIVE c/w PROPER IDENTIFICATION.

3.) ALL CMA TO BE THREADED STEEL SCH 40. ALL VAC TO BE COPPER TYPE L TO MATCH EXISTING. ALL DIW AND RD TO BE POLYPROPYLENE PURE SYSTEM OR APPROVED EQUAL. ALL DRAINS TO BE POLYPROPYLENE ACID RESISTANT SYSTEM OR APPROVED EQUAL. ALL DCW AND DHW TO BE COPPER TYPE L.

4.) CO-ORDINATE ALL WORK WITH OTHER TRADES.

5.) REFER TO ARCHITECTURAL DWGS FOR ALL CEILING TYPES, ELEVATIONS AND WALL TYPES FOR COORDINATING WORK REQUIRED BY THIS CONTRACT. COORDINATE WITH G.C.

PIPING NOTES:

1. INSTALL WELDED CAPS AND VENT VALVES WHERE REQUIRED TO CONDUCT HYDRAULIC TESTS. REMOVE WELD CAPS AFTER APPROVAL BY DEPARTMENTAL REPRESENTATIVE AND AUTHORITY HAVING JURISDICTION. PROVIDE THREADED CAPS ON VENT VALVES DISCHARGE AFTER APPROVAL BY DEPARTMENTAL REPRESENTATIVE AND AUTHORITY HAVING JURISDICTION.

2. PROVIDE ISOLATION VALVES ON ALL BRANCH CONNECTIONS. VALVES AND PIPING LOCATED AS PER DETAIL.

3. ALL STEAM PIPING TO BE SCHEDULE 40 STEEL AND CONDENSATE PIPING TO BE SCHEDULE 80 STEEL. UNDER 2-1/2" DIA TO BE SCREWED, OR SOCKET WELDED, 2-1/2" DIA AND OVER TO BE BUTTWELD.

4. THIS CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS ON SITE.

5. INSULATION NOT SHOWN ON PIPING FOR CLARITY, INSULATION TO BE 2 INCH WITH PVC JACKET. PROVIDE ALUMINIUM JACKET WITH VAPOUR BARRIER ON ALL EXTERIOR PIPING.

6. THIS CONTRACTOR TO INSTALL AIR VENTS AT ALL PIPING HIGH POINTS COMPLETE WITH BALL VALVE AS PER SPECIFICATION.

7. DO ALL PIPING WORK IN ACCORDANCE WITH ASME B31.1, B31.3 AND AUTHORITY HAVING JURISDICTION.

8. DRAIN PIPING NOT SHOWN FOR CLARITY. DRAIN PIPING TO BE PIPED TO FLOOR DRAINS AT FLOOR ELEVATION ALONG NEAREST COLUMN OR WALL SPACE WITH COPPER PIPE AND FITTINGS.

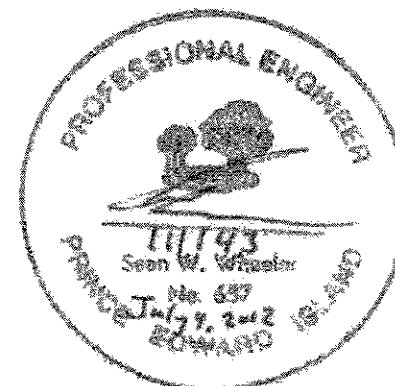
9. PIPING LAYOUT DRAWINGS ARE FOR GENERAL ROUTING ONLY. REFER TO APPLICABLE SPECIFICATION SECTION, PROCESS PIPING AND INSTRUMENTATION DRAWINGS AND DETAIL DRAWINGS FOR CONFIGURATION, SIZING AND REQUIREMENTS OF PIPING AND EQUIPMENT.

10. ALL ELBOWS ON THE STEAM PIPE SHALL BE LONG RADIUS EXCEPT WHERE NOTED.

11. CONTRACTOR TO VISIT SITE AND CONFIRM ALL EXISTING CONDITIONS (PIPE SIZE, SPACE REQUIREMENTS, ETC) PRIOR TO ANY WORK.

12. INSTALL STEAM TRAPS AT ALL LOW POINTS OF PIPING.

13. CWS, CWR ABOVE GROUND PIPE TO BE COPPER TYPE L, AQUATHERM, PEX, SCREWED BLACK IRON, VICTAULIC OR APPROVED EQUAL C/W 2" PIPE INSULATION WITH PVC JACKET. PROVIDE ALUMINIUM JACKET WITH VAPOUR BARRIER ON ALL EXTERIOR PIPING.



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