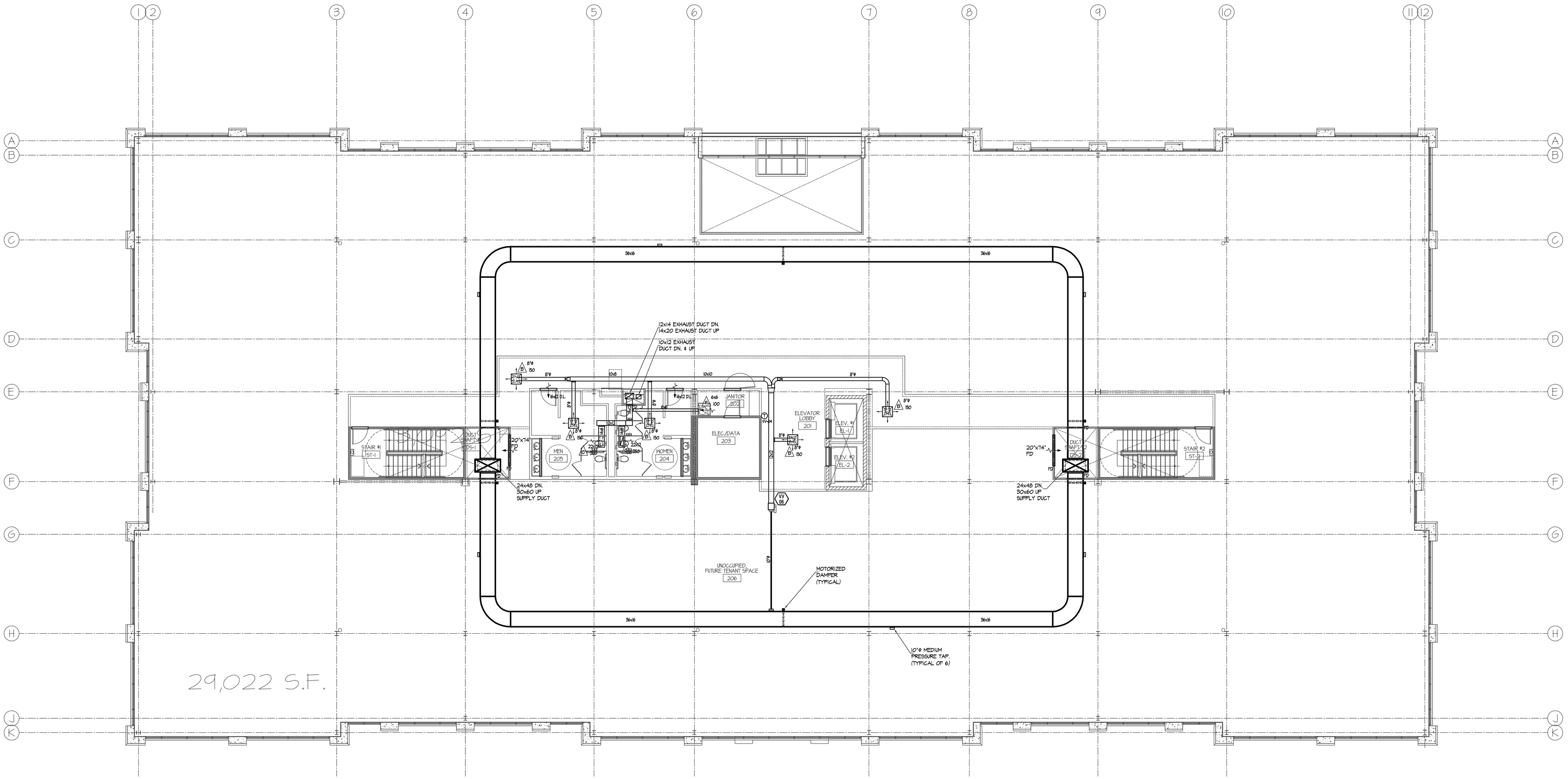
MECHANICAL NOTES & SPECIFICATION

1. All work shall be in accordance with National, local and municipal codes.
2. The Contractor shall visit the site and familiarize himself with the existing conditions.
3. Contractor to obtain and pay for all necessary permits and inspection fees required for his portion of the work.
4. Layout is diagrammatic and contractor shall install equipment, piping and ductwork to meet the actual field conditions.
5. Refer to architectural and structural drawings for dimensions and details.
6. Items not specifically shown or specified but necessary for a completely operational system shall be furnished and installed.
7. All work and materials shall be guaranteed to be free from defects for a period of one year from the date of final acceptance of the owner.
8. Work shall be of first quality with piping, ductwork and equipment installed parallel with building lines. Install equipment and ductwork level and plumb.
9. This contractor shall provide all material, labor and services as necessary for a complete HVAC system including temperature controls.
10. Equipment shall be installed as specified. Alternate equipment proposals may be submitted but are subject to written approval of the OWNER.
11. This contractor shall do all cutting and patching necessary for the installation of his work. He shall provide all sleeves and be responsible for the proper locations and installation of same.
12. All ductwork shall be sealed airtight using duct sealing mastic or gasketed pre-manufactured connectors at seams, takeoffs, fittings and joints.
13. All branch takeoffs to have balancing dampers.
14. All square elbows to have single width turning vanes. All changes in size shall be made with transitions with long slants not exceeding a 24° angle. All branch duct takeoffs shall be made with enlarged entrance low loss fittings. Square or rectangular to round transitions shall be made with smooth tapered transitions. Direct connection of round to square ductwork will not be accepted.
15. Flexible ductwork to be limited to 5'-0" maximum, and shall occur only at final connection to round neck supply diffusers. Ductwork to be Clevepak Corp. or approved equal.
16. Mechanical contractor to coordinate ceiling diffuser layout with the electrical contractor.
17. All material shall have composite flame rating of not over 25 and a smoke rating of not over 50 including coverings, mastics and adhesives.
18. All rectangular supply ductwork shall be lined. Return ductwork within 15 feet of the air handling unit/furnace hvac unit shall be lined. Lining to be Manville Linacoustic or approved equal flexible duct liner of 1" thickness and 1-1/2 lb/ct density.
19. Liner to be fastened with 100% coverage of adhesive with all edges butted and sealed. Install weld pins and washers on 12" centers max. 3" from the upstream edges and 6" from longitudinal seams.
20. Duct dimensions are inside clear. Make sheet metal allowances for duct lining.
21. Each contractor shall note that the electrical design and drawings are based on the equipment scheduled and shown on the drawings. If any Mechanical Contractor should submit for approval equipment requiring changes to the electrical design for which the Electrical Contractor will request an extra, this extra shall be paid by the Mechanical Contractor.
22. This contractor shall do a final test and balance of the air systems. Submit a complete air balance report to the architect at completion of the project. Report to include fan CFM, register and grille CFM, fan amps and volts, air pressure drop, both specified and actual.



SECOND FLOOR PLAN - HVAC

Scale: 1/8" = 1'-0"

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1	5-31-06	For Permit			

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