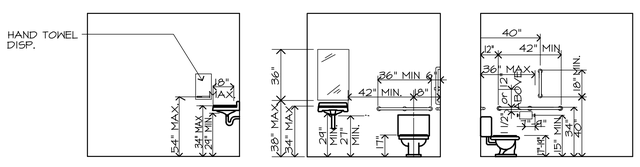
GENERAL MECHANICAL NOTES:

1. PROVIDE ALL EQUIPMENT, MATERIAL, HARDWARE, INCIDENTALS AND LABOR FOR COMPLETE HVAC SYSTEM
2. OBTAIN REQUIRED PERMITS AND PAY FEES.
3. COMPLY WITH ALL LOCAL, COUNTY AND STATE GOVERNMENTAL CODES, ORDINACES AND REGULATIONS AND UTILITY COMPANY STANDARDS, INCLUDE COMPLIANCE WITH LOCAL FIRE MARSHALL REQUIREMENTS AND N.F.P.A. STANDARDS.
4. OBTAIN INSURANCE AND PROVIDE SAFE WORKING CONDITIONS.
5. FIELD INSPECT ALL EXISTING EQUIPMENT FOR PROPER MAINTENACE AND OPERATION. REPAIR OR REPLACE DAMAGED EQUIPMENT TO ASSURE PROPER OPERATION TO SPACE.
6. FIELD VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK
7. ALL CEILING DIFFUSER LOCATIONS SHALL COORDINATE WITH THE REFLECTED CEILING PLAN AND ELECTRICAL FIXTURE LOCATIONS. FIELD VERIFY CEILING GRID LAYOUT IN ORDER TO MAINTAIN A UNIFORM AND SYMMETRICAL SYSTEM.
8. SUPPLY DUCTWORK TO BE ROUND INSULATED SHEET METAL, 24 GA. GALVANIZED WEATHERPROOF FINISH, EXHAUST DUCT TO BE 22 GA. BARE GALVANIZED. TEST FAN PERFORMANCE AND BALANCE AIR SYSTEMS AND INSTALLATION.
9. SPECIAL DIFFUSER NOTES:
   - A. ALL DUCT AND DIFFUSR SIZING AIR VELOCITY REQUIREMENTS SHALL MEET THE LATEST STANDARDS AND RECOMMENDATIONS OF ASHARE, SUBJECT TO THE ADDITIONAL REQUIREMENTS BELOW.
   - B. IN-DUCT VELOCITIES SHALL NOT EXCEED 1,200 FPM FOR MAIN DUCTS AND SHALL NOT EXCEED 600 FPM IN BRANCH DUCTS, FEEDING DIFFUSERS AND REGISTERS. ALL DUCT SIZING AND AIR VELOCITIES SHALL BE DESIGNED TO PREVENT NOISE, RATTLING AND CHATTERING OF DUCTS AND DIFFUSERS.
   - C. ALL DUCTS, DIFFUSERS AND REGISTERS. SHALL HAVE INTERNAL TWO-WAY VOLUME CONTROLS DAMPERS ADDITIONALLY, PROVIDE VOLUME CONTROL DAMPERS IN ALL MAIN DUCTS AND AT DUCT LOCATIONS SHOWN ON DRAWINGS FOR FULLY INTERNAL REGULATION OF THE SYSTEM.
10. THE PLANS AS PRESENTED ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT AND SCOPE FOR THE PROJECT AND SHOULD NOT BE SCALED. ALL DIMENSIONS REQUIREMENTS TO BE CONFIRMED IN THE FIELD.
11. ALL DUCTWORK TO COMPLY WITH ASHRAE CONSTRUCTION STANDARDS AND STATE OF MICHIGAN VENTILATION STANDARDS.
12. ROUND FLEXIBLE DUCT MAY BE USED FOR DIFFUSER BRANCH CONNECTIONS, PROVIDED FLEXIBLE CONNECTIONS DO NOT EXCEED 6 FEET IN LENGTH
13. MOUNT THERMOSTAT AT 44" A.F.F.
14. ALL LOW VOTAGE CONTROL WIRING TO BE BY THE MECHANICAL CONTRACTOR.
15. PROVIDE ONE YEAR WRITTEN GUARANTEE TO OWNER, INCLUDING 24 HOUR SERVICE.
16. HVAC - SPECIFIC REQUIREMENTS
    - A. PROVIDE SUPPLY DIFFUSER AS INDICATED ON DRAWINGS
    - B. PROVIDE RETURN AIRE GRILLE AS INDICATED ON PLAN
    - C. PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE.
17. CONFIRM ALL POWER CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
18. ALL ROOMS TO HAVE A MINIMUM OF 1 SUPPLY AIR DIFFUSER AND 1 RETURN AIR GRILLE

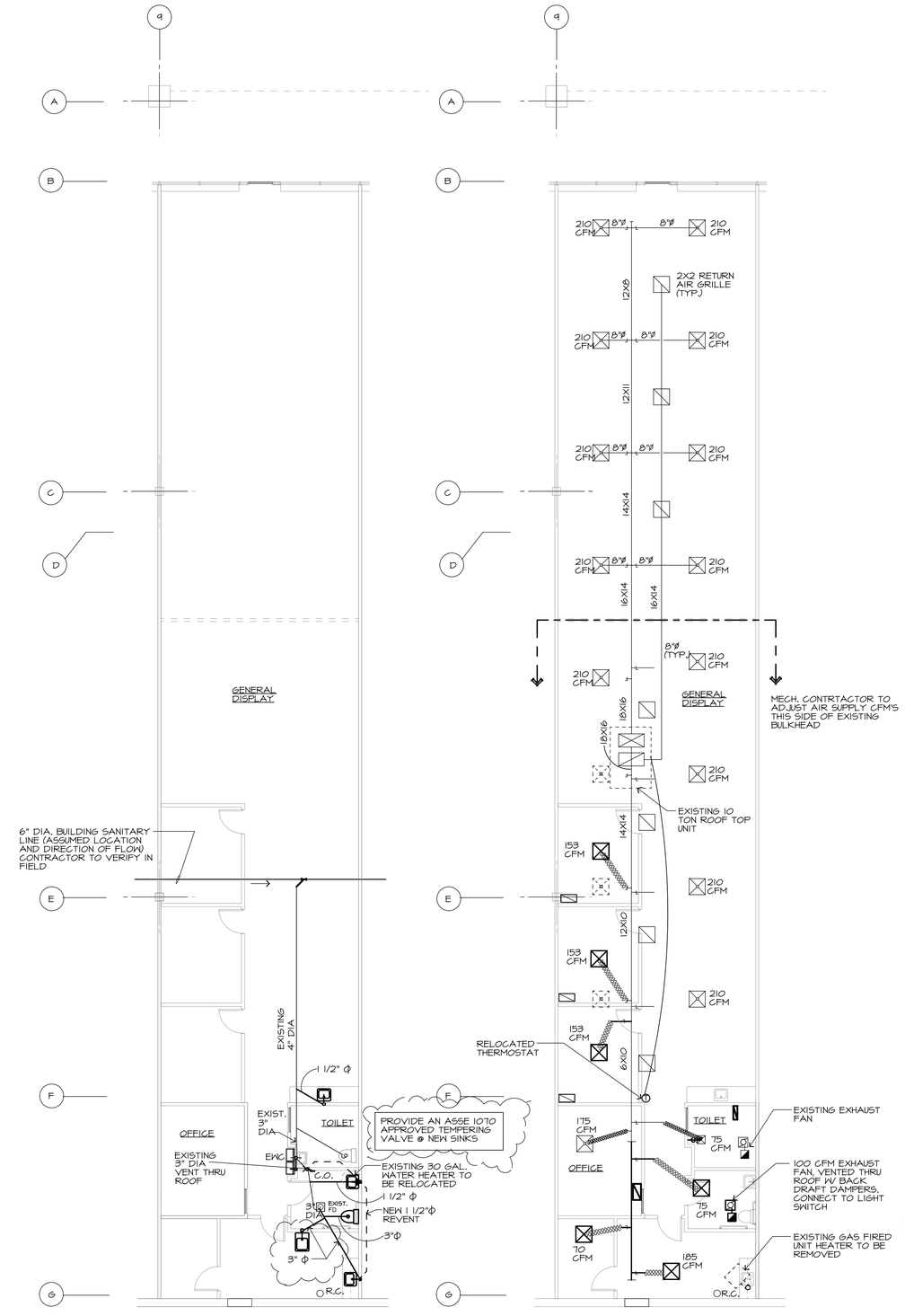
PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE GOVERNED BY THE STANDARD AND SPECIFIED REQUIREMENTS OF THE LOCAL INSPECTIONS BUREAU, STATE PLUMBING CODE AND M.P.C, LATEST EDITION WITH THE MOST STRINGENT REQUIREMENTS TO GOVERN
2. ALL PLUMBING FIXTURES AND APPLIANCES INDICATED ON THE PLANS SHALL BE PIPED AND VENTED IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE OR AS OTHERWISE REQUIRED TO MEET CODE REQUIREMENTS.
3. ALL WATER CONNECTIONS SHALL BE MADE TO THE MUNICIPAL WATER SYSTEM, AND SHALL BE DONE IN ACCORDANCE WITH LOCAL DPW PRACTICE
4. ALL SERVICE METERING, SHUT-OFF VALVES, BRANCH PIPE VALVES, CO'S, VENTING AND REVENTING SHALL MEET LOCAL CODE. A CLEANOUT SHALL BE REQUIRED PER SECTION P-1101. OF 1990 B.O.C.A. BASIC PLUMBING CODE OR SHALL BE REQUIRED AT 50' IN HORIZONTAL DRAINAGE LINES OF 4" DIAMETER OR LESS, AND NOT MORE THAN 100' APART FOR LARGER PIPES.
5. SHOULD ANY CONFLICT OCCUR BETWEEN LOCAL CODE AND MFG'S SPEC. THEN THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. AT ALL TIMES THE USE OF THE BEST STANDARDS OF PRACTICE AND QUALITY OF MATERIALS AND WORKMANSHIP SHALL BE PROVIDED.
6. ALL DOMESTIC HOT AND COLD WATER LINES WITHIN THE BUILDING SHALL BE INSULATED WITH 1/2" THICK ONE-PIECE FIBERGLASS AND FINISHED FACTORY SELF-SEALING, PRE-SIZED 'ASJ' ALL SERVICE VAPOR BARRIER JACKETS.
7. ALL SANITARY WASTE LINES SHALL BE PVC.
8. MATERIALS SHALL BE AS FOLLOWS:
   - A. WATER PIPING TO BE TYPE "I" HARD DRAWN COPPER
   - B. VENTS TO BE COPPER
9. PROVIDE A FIXTURE STOP IN ALL WATER SUPPLY LINES TO PLUMBING FIXTURES.
10. PROVIDE ALL FIXTURES, FITTINGS AND ACCESSORIES FOR A COMPLETE INSTALLATION
11. PHYSICALLY HANDICAPPED FIXTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STATE OF MICHIGAN AND /OR THE AMERICANS DISABILITIES ACT REQUIREMENTS.
12. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING
13. MAXIMUM WATER TEMPERATURE TO BE 120 DEGREES F.



20/2 ELEVATIONS @ B.F. RESTROOM

SCALE: 1/4" = 1'-0"



N

PLUMBING PLAN

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

N

MECHANICAL PLAN

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

LEGEND

- NEW SWITCH
- NEW SUPPLY AIR DIFFUSER
- NEW RETURN AIR GRILLE
- RELOCATED THERMOSTAT

TENANT LAYOUT FOR TEAM REHAB

CENTRE VILLAGE SHOPPING CENTER
BUILDING 'B'
CANTON, MICHIGAN

DESCRIPTION	DATE	SHEET	JOB NO.
REV#1	8/31/09	2	9827 T-15
CD	7/14/09		