Site Plan Review
5-19-2021
City of Kalamazoo
1. The facility will be required non-stop of the air ventilation system to provide clean, dust-free, and odor-free environment for the facility. All air vents and hatches at the exterior and interior will be covered with a layer of activated carbon and HEPA filters to ensure an extra layer of protection. Any air expelled from the building will be filtered through activated carbon and HEPA filters. The air within the facility that odor is not detectable outside of the facility and causing a nuisance for the surrounding community. Air within the facility will be circulated throughout the building, passing through activated carbon and HEPA filters. The air will be filtered and recirculated to ensure a clean environment.

2. The facility will be equipped with a sophisticated ventilation and odor remediation system. A ventilation system will be tested annually by a qualified alarm vendor. The system shall provide coverage of all areas of the facility. All areas will be monitored by a UL listed burglar alarm panel. The system shall report to a UL listed central monitoring station. A test signal shall be transmitted to the central station every twenty-four (24) hours, and all means of notification shall be provided. The system shall be inspected and all devices shall be tested annually by a certified alarm vendor.

3. The facility will be designed to prevent any sort of nuisance or odors from the neighboring businesses and residents of Monroe Township that is compliant with the Monroe Township Ordinance, the MMFLA, and MRTMA. The facility shall be constructed to provide clean, dust-free, and odor-free environment for the facility. All air vents and hatches at the exterior and interior will be covered with a layer of activated carbon and HEPA filters to ensure an extra layer of protection. Any air expelled from the building will be filtered through activated carbon and HEPA filters. The air within the facility that odor is not detectable outside of the facility and causing a nuisance for the surrounding community. Air within the facility will be circulated throughout the building, passing through activated carbon and HEPA filters. The air will be filtered and recirculated to ensure a clean environment.

4. The facility will be equipped with a sophisticated ventilation and odor remediation system. A ventilation system will be tested annually by a qualified alarm vendor. The system shall provide coverage of all areas of the facility. All areas will be monitored by a UL listed burglar alarm panel. The system shall report to a UL listed central monitoring station. A test signal shall be transmitted to the central station every twenty-four (24) hours, and all means of notification shall be provided. The system shall be inspected and all devices shall be tested annually by a certified alarm vendor.
1. EXISTING BUILDING TO REMAIN ON THE EXISTING SITE
2. THE UTILITIES THAT ARE CURRENTLY CONNECTED TO THE BUILDING ARE TO REMAIN
3. CONTACT MISS DIG TO LOCATE ALL EXISTING UTILITIES BEFORE DOING ANY SITE WORK
4. PATCH EXISTING ASPHALT PARKING LOT AS REQUIRED
5. EXISTING VEGETATION TO REMAIN ON THE SITE, TRIM AS REQUIRED
6. REPLACE EXISTING SIGN WITH NEW SIGNAGE, TO BE IN COMPLIANCE WITH ALL LOCAL ORDINANCES
7. THERE ARE NO PROPOSED EXTERIOR RENOVATIONS OR SITE REVISE NATIONS AS PART OF THIS PROJECT. THIS PROJECT IS STRICTLY AN INTERIOR RENOVATION. THERE IS NO CHANGE IN USE OR ZONING REQUIRED FOR THIS PROJECT.
EXISTING PLANS ARE SHOWN FOR REFERENCE ONLY
As indicated:

1. REMOVE ALL DASHED WALLS, WINDOWS, AND DOORS COMPLETELY.
2. PATCH AND FILL ANY HOLES IN THE WALL CAUSED BY THE REMOVAL OF DOORS, WINDOWS, OR WALLS TO MATCH SURROUNDINGS.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURFACES NOT BEING REMODELED IN THE PROJECT AREA AND FOR THE CLEAN UP OF MATERIALS USED DURING REMODELING. THE CONTRACTOR MUST MAINTAIN THE AREA IN A CLEAN AND NEAT CONDITION FOR ACCESS TO ITS PRE-EXISTING CONDITION.
4. ANY RAMPS AND HANDRAILS ARE TO BE APPROVED BY A LICENSED PROFESSIONAL IN THE STATE OF MICHIGAN.
5. ALL SAFETY AND MISHANDLING OF MATERIALS MUST BE PERFORMED BY THE CONTRACTOR.
6. SEQUENCE DEMOLITION WITH STRUCTURAL WORK TO ASSURE SAFETY, PROVIDE SHORING AS REQUIRED TO ENSURE SAFE CONDITIONS EXIST.
7. ALL TRADES TO COORDINATE BETWEEN ONE ANOTHER TO AVOID CONFLICTS.
GFI LAB #1

GFI LAB #2

GFI LAB #3

GFI LAB #4

CANNIBAS VAULT
TEMPERATURE CONTROLLED STORAGE RACK/BINS

REFRIG/FREEZER

HOOD/SINK/DISHWASHER
LAB BENCH W/ DRAWERS, CABINETS, & SHELF

SAMPLE INTAKE LAB
- BASIC PREPARATION WORKSPACE
- HIGH-CAMERA WORKSPACE
- ANALYTICAL BALANCES
- GLASSWARE CLEANING

LC LAB
- BENCH X
- (E) QUAD MS (MAX 4)
- BENCH Y
- (D) GC-MS (MAX 4)
- BENCH Z
- PREPARATION WORKSPACE

MICRO LAB
- CLEAN/SENSITIVE OPERATIONS
- (A) ARIAMX FOR PCR
- (B) AUTOCLAVE
- (C) BSL OR LAF HOOD
- (D) INCUBATORS

GC/ICP LAB & WATER TESTING
- BENCH A
- (2) ICP MS (MAX 2)
- BENCH B
- (2) GC-GQG
- BENCH C
- PREPARATION WORKSPACE
- (G) MOISTURE ANALYZER

STORAGE RACKS

WATER TESTING
GENERAL NOTES

1. All light fixtures to be LED. Trouble and hatch are shown schematically.
2. If ceiling heights are not called out, then no ceiling is assumed or shall be exposed to the existing structure above.
3. Coordinate light fixtures (mechanical, electrical, plumbing) along with any other internal or external lighting to not interfere with one another.
4. All light fixtures are to be centered in all rooms, clouds, or between required to not interfere with one another.
5. All light switches shall be silent type, 20 amp, white color with white cover plates.

ELECTRICAL SYMBOLS

- LITONI 2 LIGHT PLASTIC LED WHITE; https://lithonia.acuitybrands.com/products/LHQMLED2LAMPSLQ82724/quantum.html
- CDC LED STRIP LIGHT; https://lithonia.acuitybrands.com/products/CDCLEDSTRIPLIGHT/product.html
- CPX LED FLAT PANEL; https://www.acuitybrands.com/products/CPXLEDFLATPANEL/product.html
- BROAN EXHAUST FAN WITH LED LIGHT; https://www.broan.com/BathVent/Fans/MODEL\%20690.html
- EXIT SIGN; https://lithonia.acuitybrands.com/products/EXITSIGNPRODUCTS/product.html
- WAY SWITCH - LAMPS/FLEX SERIES
- LIGHTING UNIT - QUADRUPLEX OUTLET - GROUNDED FAULT INTERCEPTOR OUTLET - THREE WAY SWITCH - QUADRUPLEX OUTLET - GROUNDED FAULT INTERCEPTOR OUTLET
- GFI - QUADRUPLEX OUTLET - GROUNDED FAULT INTERCEPTOR OUTLET - THREE WAY SWITCH - QUADRUPLEX OUTLET - GROUNDED FAULT INTERCEPTOR OUTLET

All ceilings are to remain unless noted otherwise. Replace any ceiling tiles in ceilings that are to remain. Other elements or equally spaced unless noted otherwise.

All light fixtures and HVAC shall be centered in all rooms, clouds, or between required to not interfere with one another.

GENERAL NOTES
EXTERIOR ELEVATIONS ARE SHOWN FOR REFERENCE ONLY

WEST ELEVATION

SOUTH ELEVATION

NORTH ELEVATION

EAST ELEVATION
GENERAL MECHANICAL NOTES

1. PROVIDE ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM THE PROJECT COMPLETION.

2. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.

3. PROVIDE REQUIRED CFM'S.

4. FIELD VERIFY CONDITIONS OF EXHAUST FANS, MODIFY OR CHANGE AS NECESSARY TO PROVIDE REQUIRED CFM.

5. PROVIDE A GAS SHUTOFF VALVE, COMPLETE WITH DIRT LEG AT EACH PIECE OF GAS FIELD WALL WHERE APPLICABLE. PAINT TO MATCH WHEN EXPOSED.

6. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. RUN IN BULKHEADS OR EMBEDDED IN ADDITIONS REQUIRED TO THE SYSTEM SHOULD AN "OR EQUAL" MANUFACTURER BE SELECTED. MANUFACTURER OR PRODUCT. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COST BASIS OF DESIGN. THE CONTRACTOR MAY AT HIS OPTION PROVIDE AN "OR EQUAL" MANUFACTURER OR PRODUCT.

7. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.

8. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.

9. ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM THE PROJECT COMPLETION.

10. PROVIDE EXPOSED SPIRAL UNINSULATED DUCT IN ALL CONDITIONED SPACES.

11. INSTALL DIFFUSERS WITH AIR TIGHT CONNECTIONS.

12. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.

13. INSTALL ALL DUCTWORK PER SMACNA STANDARDS. USING METAL DUCT ADEQUATELY SUPPORTED TO AVOID DEFLECTION IN DUCT. WRAP ALL SUPPLY DUCTWORK WITH 1 1/2", 3/4 " CODY DENSITY GLASS INSULATION WITH VAPOR BARRIER. TAPE & SEAL ALL SEAMS, CUT SUPPORTED TO AVOID DEFLECTION IN DUCT.

14. INSTALL DIFFUSERS WITH AIR TIGHT CONNECTIONS.

15. REVIEW AT PROJECT COMPLETION.

16. TEST AND BALANCE ALL MECHANICAL SYSTEMS.

17. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.

18. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.

19. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.

20. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.
GENERAL PLUMBING NOTES

1. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
2. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE FITTINGS, DOWELS, ETC., AS NEEDED TO PROVIDE COMPLETE SYSTEMS. ADEQUATE ACCESS FOR INSPECTION OR REPAIR PURPOSES, INCLUDING ALL RECESS FOR ACCESS TO VALVES, JOINTS, OR CONNECTED EQUIPMENT.
3. PROVIDE PROJECT MANAGEMENT OR ON-SITE SUPERVISION. ACHIEVE THE PROPER CONSTRUCTION OF THE PLUMBING SYSTEM.
4. ADEQUATE ACCESS FOR INSPECTION OR REPAIR PURPOSES, INCLUDING ALL RECESS FOR ACCESS TO VALVES, JOINTS, OR CONNECTED EQUIPMENT.
5. PROVIDE APPROPRIATE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE "OPEN" SIDE OF THE WATER CLOSET STALL.
6. INSTALL CHICAGO FAUCET MODEL 897 MOP BASIN: ONE PIECE MOLDED IN STONE.
7. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
8. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
9. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
10. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
11. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
12. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
13. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
14. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
15. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
16. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
17. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
18. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
19. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
20. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
21. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
22. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
23. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
24. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
25. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
26. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
27. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
28. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
29. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
30. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
31. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
32. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
33. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
34. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
35. INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE SYSTEMS, AND FLUSH VALVES. CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER INSTALLATIONS, ETC.
36. PROVIDE WATER CLOSETS (FLOOR MOUNTED): BARRIER FREE, TANK TYPE, VITREOUS CHINA, SIPHON JET, -TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
37. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
38. PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
39. PROVIDE DIAPHRAGM FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FREE OPERATION OF SYSTEM.
FIRE SUPPRESSION NOTES

1. FIRE SUPPRESSION PROVIDER TO PROVIDE A COMPLETELY SPRINKLDED BUILDING (LIGHT HAZARD). THE FIRE SUPPRESSION SYSTEM TO BE DESIGNED PER THF #13, STATE FIRE MARSHAL, AND REQUIREMENTS OF THE LOCAL JURISDICTION.

2. THE REVISED SYSTEM IS TO BE A WET SYSTEM.

3. SPRINKLER HEADS TO BE QUICK RESPONSE.

4. ALL SPRINKLER HEADS TO BE CONCEALED WITH CHROME COVER PLANTS, 1/2" ORIFICE, 155 DEGREES.

5. EXPOSED AREAS TO HAVE BRASS UPRIGHT HEADS.

6. SPRINKLER HEADS TO BE CONCEALED WITH CHROME COVER PLANTS, 1/2" ORIFICE, 155 DEGREES.

7. COORDINATE FIRE SUPPRESSION LINES WITH LIGHTS, DUCTS, CEILINGS, BULKHEADS, ETC.

8. REVIEW FIRE PROTECTION REQUIREMENTS WITH INSURANCE COMPANY.

9. FIRE PROTECTION REQUIREMENTS WILL BE INSPECTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT.

10. SHOP DRAWINGS ARE TO BE PROVIDED TO THE ARCHITECT AND LOCAL JURISDICTION FOR REVIEW BEFORE PURCHASING AND INSTALLING EQUIPMENT.

1/16" = 1'-0"

FIRE SUPPRESSION/ALARM LEGEND

- FIRE SUPPRESSION PROVIDER TO PROVIDE A COMPLETELY SPRINKLDED BUILDING (LIGHT HAZARD). THE FIRE SUPPRESSION SYSTEM TO BE DESIGNED PER THF #13, STATE FIRE MARSHAL, AND REQUIREMENTS OF THE LOCAL JURISDICTION.

- THE REVISED SYSTEM IS TO BE A WET SYSTEM.

- SPRINKLER HEADS TO BE QUICK RESPONSE.

- ALL SPRINKLER HEADS TO BE CONCEALED WITH CHROME COVER PLANTS, 1/2" ORIFICE, 155 DEGREES.

- EXPOSED AREAS TO HAVE BRASS UPRIGHT HEADS.

- SPRINKLER HEADS TO BE CONCEALED WITH CHROME COVER PLANTS, 1/2" ORIFICE, 155 DEGREES.

- COORDINATE FIRE SUPPRESSION LINES WITH LIGHTS, DUCTS, CEILINGS, BULKHEADS, ETC.

- REVIEW FIRE PROTECTION REQUIREMENTS WITH INSURANCE COMPANY.

- FIRE PROTECTION REQUIREMENTS WILL BE INSPECTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT.

- SHOP DRAWINGS ARE TO BE PROVIDED TO THE ARCHITECT AND LOCAL JURISDICTION FOR REVIEW BEFORE PURCHASING AND INSTALLING EQUIPMENT.

1/16" = 1'-0"