1. OWNER IS RESPONSIBLE TO SURPLUS ANY ITEMS.

2. NON METALLIC SHEATHED CABLE IS PERMITTED WHERE LEGAL BY CODE AND ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

3. OWNERS MANUAL OR EQUIPMENT FABRICATOR WILL PROVIDE INSTRUCTIONS WHETHER OR NOT SPECIFIC INSTRUCTIONS ARE SHOWN ON DRAWINGS.

4. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.

5. ELECTRICAL SYSTEMS ARE TO BE INSTALLED COMPLETE AND FULLY OPERATIONAL WHETHER OR NOT EVERY INCIDENTAL COMPONENT IS SHOWN ON DRAWINGS.

6. CONTRACTOR IS TO MAINTAIN A SET OF AS-BUILT DRAWINGS ON THE PROJECT SITE. MAKE UPDATES TO AS-BUILT DRAWINGS ON PROJECT SITE AS CHANGES AND MODIFICATIONS ARE MADE TO THE ORIGINAL CONSTRUCTION PLAN. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT / ENGINEER UPON FINAL PROJECT COMPLETION.

7. COORDINATION OF ALL TRADES IS TO BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS AND AS PERMITTED WITH THE NATIONAL ELECTRICAL CODE, 2021 EDITION.

8. NORTH ARROWS ARE NOT REPRESENTATIVE OF TRUE NORTH AND ARE APPROXIMATIONS WHERE OPENINGS ARE LEFT AS A RESULT OF THIS WORK.

9. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND AS PERMITTED WITH THE NATIONAL ELECTRICAL CODE, 2021 EDITION.

10. CONTRACTOR IS TO MAINTAIN A SET OF AS-BUILT DRAWINGS ON THE PROJECT SITE. MAKE UPDATES TO AS-BUILT DRAWINGS ON PROJECT SITE AS CHANGES AND MODIFICATIONS ARE MADE TO THE ORIGINAL CONSTRUCTION PLAN. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT / ENGINEER UPON FINAL PROJECT COMPLETION.

11. CONTRACTOR IS TO MAINTAIN A SET OF AS-BUILT DRAWINGS ON THE PROJECT SITE. MAKE UPDATES TO AS-BUILT DRAWINGS ON PROJECT SITE AS CHANGES AND MODIFICATIONS ARE MADE TO THE ORIGINAL CONSTRUCTION PLAN. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT / ENGINEER UPON FINAL PROJECT COMPLETION.

12. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND AS PERMITTED WITH THE NATIONAL ELECTRICAL CODE, 2021 EDITION.

13. ALL ELECTRICAL WORK IS TO COME FROM A MAIN DISTRIBUTION PANEL WHICH IS RECOMMENDED TO BE LOCATED IN THE EXISTING MECHANICAL ROOM OR OTHER SUITABLE LOCATION.

14. ELECTRICAL CONTRACTOR IS TO MAKE SITE VISITS AS NEEDED TO BECOME FAMILIAR WITH THE BUILDING AND TO MAKE RECOMMENDATIONS AS NEEDED.

15. ELECTRICAL CONTRACTOR IS TO MAKE SITE VISITS AS NEEDED TO BECOME FAMILIAR WITH THE BUILDING AND TO MAKE RECOMMENDATIONS AS NEEDED.

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17. PRODUCT AND EQUIPMENT SUBMITTALS ARE TO BE MADE TO THE ARCHITECT / ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PRODUCT AND EQUIPMENT PURCHASES. ELECTRICAL CONTRACTOR IS TO MAKE SITE VISITS AS NEEDED TO BECOME FAMILIAR WITH THE BUILDING AND TO MAKE RECOMMENDATIONS AS NEEDED.

18. INFORMATION CONTAINED IN THESE DRAWINGS WAS OBTAINED THROUGH HISTORICAL REVIEW AND APPROVAL PRIOR TO PRODUCT AND EQUIPMENT PURCHASES. ELECTRICAL CONTRACTOR IS TO MAKE SITE VISITS AS NEEDED TO BECOME FAMILIAR WITH THE BUILDING AND TO MAKE RECOMMENDATIONS AS NEEDED.

19. ALL ELECTRICAL WORK IS TO BE DONE IN A NEAT AND WORKMANLIKE MANNER.

20. ALL NEW AND REPLACEMENT 120V 15A AND 20A RECEPTACLES ARE TO BE TAMPER RESISTANT.

21. MODIFICATION TO THE FIRE ALARM SYSTEM ARE TO BE DESIGNED, SIGNED, AND SEALED, BY A FIRE ALARM DESIGN PROFESSIONAL, AND BE APPROVED BY THE LOCAL FIRE DEPARTMENT.

22. MODIFICATION TO THE FIRE ALARM SYSTEM ARE TO BE DESIGNED, SIGNED, AND SEALED, BY A FIRE ALARM DESIGN PROFESSIONAL, AND BE APPROVED BY THE LOCAL FIRE DEPARTMENT.
1. The IT supervisor must communicate issues associated with any server and computer equipment that might impact.

2. Owner is responsible to surplus any items.
EXISTING DIFFUSER AND FLEX DUCT IN ROOM 225B TO BE REMOVED-SEE SHEET M1.3

FIRE SPRINKLER MODIFICATIONS

1. INSTALLATION OF TWO UNI-SEX RESTROOMS
2. WILL UTILIZE EXISTING HVAC ZONE AND EXISTING TOILET EXHAUST SYSTEM-NEW DIFFUSERS FOR EACH. NEW ZONE CONTROLLER AND THERMOSTAT FOR EXISTING DUAL DUCT BOX SERVING THE RESTROOM.
3. CONTRACTOR WILL BALANCE NEW DIFFUSERS TO VALUES NOTED ON THE DRAWING
4. MODIFY LOCATIONS FOR FIRE SPRINKLERS TO MATCH EXISTING BUT WITH NEW TRIM TO MATCH HARD CEILING.
5. EXTEND SANITARY WASTE AND VENT FROM EXISTING RESTROOMS IN COMMON AREA TO PROVIDE NEW EXIT THROUGH ROOF.
6. EXTEND EXISTING HOT, COLD AND RECIRCULATED WATER LINES FROM ADJACENT EXISTING TO INCLUDE NEW CONDENSATE EXHAUST SYSTEM ONE REBAR PIPE AND DRAIN Fittings THERMOPLASTIC FLANGE.

GENERAL NOTES

1. INSTALL WATER STOP SEALANT BETWEEN NEW FIRE PIPE AND FLASHING AT BOOT
2. INSTALL WATER STOP SEALANT BETWEEN NEW FIRE PIPE AND FLASHING AT BOOT
3. INSTALL WATER STOP SEALANT BETWEEN NEW FIRE PIPE AND FLASHING AT BOOT
4. INSTALL WATER STOP SEALANT BETWEEN NEW FIRE PIPE AND FLASHING AT BOOT

PROJECT LOCATION

FILE: C:\Users\Steve\Documents\arculus\tricities\drawings\M1.0dwg.dwg  DATE: Apr/10/2023 9:36
SANITARY PIPING PLAN VIEW DETAILS

M2 PENETRATION REQUIREMENTS-FROM ORIGINAL STRUCTURAL DRAWINGS

M3 SANITARY PIPING ISOMETRIC DRAWING

M4 FIRE STOPPING DETAIL
SANITARY PIPING
UL CAJ-5146

PLUMBING - PIPING SYMBOLS

SANITARY NOTES

1. SANITARY PIPING DETAIL TO BE IN COMPLIANCE WITH ORIGINAL STRUCTURAL INSTRUCTIONS NOTED IN DRAWING.
2. SANITARY PIPING ISOMETRIC DETAIL TO BE IN COMPLIANCE WITH ORIGINAL STRUCTURAL INSTRUCTIONS NOTED IN DRAWING.
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FIRE STOP DETAIL:
1. SUSPENDED FLOOR MIN 4.5" THICK
2. IRON PIPE-CAST IRON 8" OR LESS
3. NOMINAL PIPE COVERING 1" OR LESS

FIRESTOP TREATMENT:
CAST IRON PIPE: ANNULAR SPACE 1/2" TO 1" MINIUM SEALANT APPLIED FLUSH WITH THE TOP OF THE FLOOR
COPPER PIPE:  ANNULAR SPACE 3/8" TO 1/2" MINIUM SEALANT APPLIED FLUSH WITH THE TOP OF THE FLOOR
4. TYPE A: MINIMUM 1/2" THICK SEALANT APPLIED FLUSH WITH THE TOP OF THE FLOOR
US GYPSUM PRODUCT #CAJ-5146 OR APPROVED EQUIVALENT UL RATED SYSTEM

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PLUMBING-WATER PIPING

PLANS HIGHLIGHTS

WSU TRICITIES CIC BUILDING  NEW RESTROOM

GENERAL NOTES

WATER PIPING ISOMETRIC RISER DIAGRAM-

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

CONSTRUCTION NOTES

1. WATER PIPING CONNECTIONS FOR HOT COLD AND HOT WATER RETURN SERVICES TO BE TIED IN WITHIN EXISTING RESTROOM PLUMBING CHASE ON THE SECOND FLOOR. ROUTING OF PIPING TO BE WITHIN THE CEILING OF THE SECOND FLOOR AND PENETRATE INTO THE PERIMETER WALLS OF THE NEW RESTROOM ON THE 2ND FLOOR.

2. POINT OF CONNECTION FOR EACH SERVICE TO INCLUDE ISOLATION BALL VALVE AND DRAIN VALVE WITH VISE FITTING AND BRASS CAP.

3. KEELY 1 4 TURN ANGLE STOP WITH INTEGRAL WATER HAMMER ARRESTOR, REMOVABLE KEY HANDLE, CHROME PLATED-OATLY-, SOUIX CHIEF, BRASS CRAFT.

4. FIELD VERIFY CW, HW AND HWR SERVICES AND CONFIRM WITH WSU CONSTRUCTION COORDINATOR PRIOR TO CONNECTION WITH EXISTING UTILITIES. PROVIDE NOTIFICATION OF SHUT DOWN FOR TIE IN 48 HOURS PRIOR TO CONNECTIONS.

5. ELECTRICAL CONNECTIONS TO BE MADE ACCORDING TO PLAN.
**DUCT WORK CONSTRUCTION NOTES**

- **NEW SUPPLY** @ 115" X 18" WITH INTERNAL BALANCE DAMPER 
  - DUCT DIA 6" WITH 1/2" RIGID STEEL HOSE ADAPTOR 
  - SUPPLY VOLUME OF 70 CFM 
  - DUCT REGULATED TO 415" DUCT SIZING

- **NEW TOILET EXHAUST** @ 100" WITH INTERNAL BALANCE DAMPER 
  - DUCT DIA 6" WITH 1/2" RIGID STEEL HOSE ADAPTOR 
  - SUPPLY VOLUME OF 70 CFM

- **EXISTING DUAL DUCT BOX** FOR ROOM 225A TO REMAIN IN EXISTING LOCATION - PROVIDE NEW SIEMENS P1 DXR2-T12 MIXING BOX CONTROLLER AND THERMOSTAT IN LOCATIONS SHOWN. BALANCE AIR FLOWS ACCORDING TO CHART PROVIDED - SEE DETAIL M-6 ON THIS SHEET

- **ALL NEW SUPPLY DUCT TO BE INSULATED WITH 4" OF EXTERNAL DUCT WRAP WITH ALL PURPOSE JACKET AND TAPPED SEAMS. SEE SPECIFICATIONS FOR R-VALUES**

- **SPIRAL DUCTWORK** DUCT CONNECTIONS TO BE DONE WITH FERRULED SLEEVES AND RIVETS WITH HIGH PRESSURE LIQUID DUCT SEALANT AT ALL JOINTS

- **DUCT SUPPORTS** TO BE DONE PER DETAIL M-2 THIS PAGE

**Hvac Symbols**

- **Flexible Equipment Connection for Ductwork**
- **Diffuser in Ceiling (Existing)**
- **Exhaust Grille in Ceiling - Ducted - New**
- **Flex Duct Connections to Diffusers**
- **Dual Duct Main Box - Existing**

**Diffuser Detail - Grille with Damper**

**Air Balance Values**

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**Demolition Notes**

- **Existing Ductwork and Exhaust in Room 225D to be Removed.**
- **Existing Supply Ducts to be Relocated with Proper Zoning**
- **Existing Box Tec Controller and Thermostat to Remain**

**Replacement Control for Existing Tec**

**Duct Changes Room 225D**

**Ductwork Demolition Room 225D**