

# WEST BRANCH - ROSE CITY AREA SCHOOLS

## SF1.5 - ROSE CITY ELEMENTARY SCHOOL DDC CONTROLS

### WEST BRANCH, MICHIGAN



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**PROJECT DESCRIPTION**

IN GENERAL, WORK OF THE CONTRACT INCLUDES:  
 1. REPLACEMENT OF EXISTING HVAC EQUIPMENT CONTROLS WITH NEW DDC CONTROLS.

**BUILDING DATA**

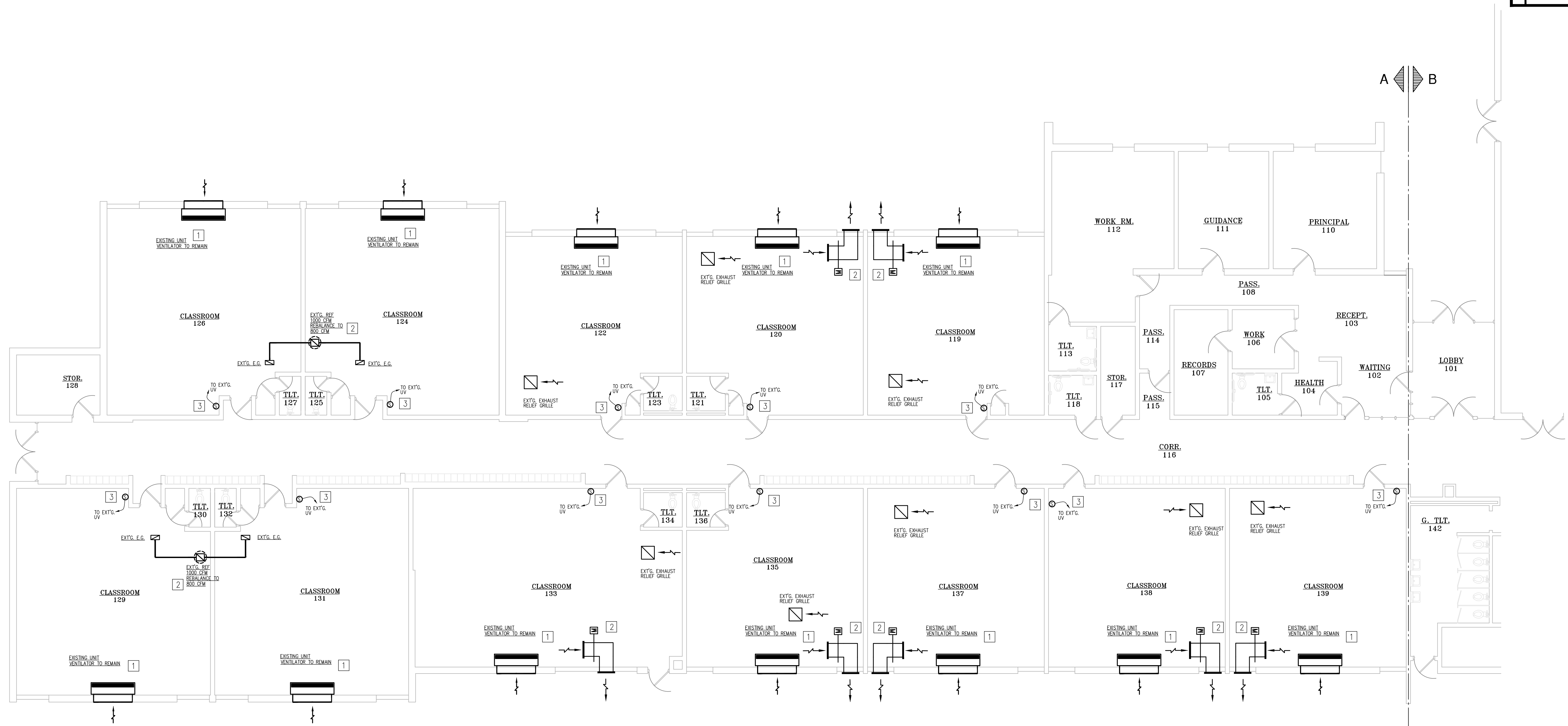
APPLICABLE CODES  
 2015 MICHIGAN CODE SERIES  
 2012 NFPA 101 LIFE SAFETY CODE  
 USE AND OCCUPANCY CLASSIFICATION  
 USE GROUP E - EDUCATIONAL  
 CONSTRUCTION TYPE  
 MBC CONSTRUCTION TYPE IIB  
 NFPA 101 CONSTRUCTION TYPE II(000)  
 BUILDING AREA  
 39,700sf  
 FIRE SUPPRESSION  
 NONE  
 OCCUPANT LOAD (ACTUAL)  
 STUDENTS: 160  
 STAFF: 35

**SHEET INDEX**

T TITLE SHEET / PROJECT INFORMATION  
 M1.1 FLOOR PLAN PART "A" - MECHANICAL  
 M1.2 FLOOR PLAN PART "B" - MECHANICAL

STATE OF MICHIGAN REGISTRATION	T

DRAWING TITLE	PROJECT TITLE	PROJECT NO.	DATE	SHEET
TITLE SHEET PROJECT INFORMATION	WEST BRANCH - ROSE CITY AREA SCHOOLS SF1.5 - ROSE CITY ELEMENTARY DDC CONTROLS WEST BRANCH, MICHIGAN	263-18M	DEC. 17, 2021	T



**GENERAL MECHANICAL PLAN NOTES:**

1. VERIFY OPERATIONAL CONDITION OF EXISTING EXHAUST FANS/UNIT VENTILATORS AND NOTIFY THE G.C. OF ANY PROBLEMS AND SUGGESTED SOLUTION.
2. VERIFY OPERATIONAL CONDITION OF EXISTING MOTORIZED DAMPERS AND NOTIFY THE G.C. OF ANY PROBLEMS AND SUGGESTED SOLUTION.



**FLOOR PLAN PART "A" - MECHANICAL**

SCALE:  $\frac{1}{8}'' = 1'-0''$

**KEYED MECHANICAL PLAN NOTES:**

1. EXISTING UNIT VENTILATOR W/ YEAR 2000 TRI-CITY CONTROLS. INTEGRATE TO NEW DDC CONTROL SYSTEM, AS REQUIRED.
2. INTEGRATE EXISTING UNIT VENTILATOR W/ EXISTING ROOF MOUNTED EXHAUST FAN TO NEW DDC CONTROLS, AS REQUIRED. REBALANCE EXHAUST FAN CFM AS SHOWN.
3. REPLACE EXISTING THERMOSTAT WITH NEW WIRELESS ELECTRONIC SENSOR. CONNECT TO NEW TEMPERATURE CONTROL SYSTEM. CAP EXISTING PNEUMATIC PIPING IF APPLICABLE.
4. INTEGRATE EXISTING UNIT VENTILATOR W/ EXISTING MOTORIZED RELIEF DAMPER CONTROL AND THE NEW DDC CONTROL SYSTEM AS REQUIRED.

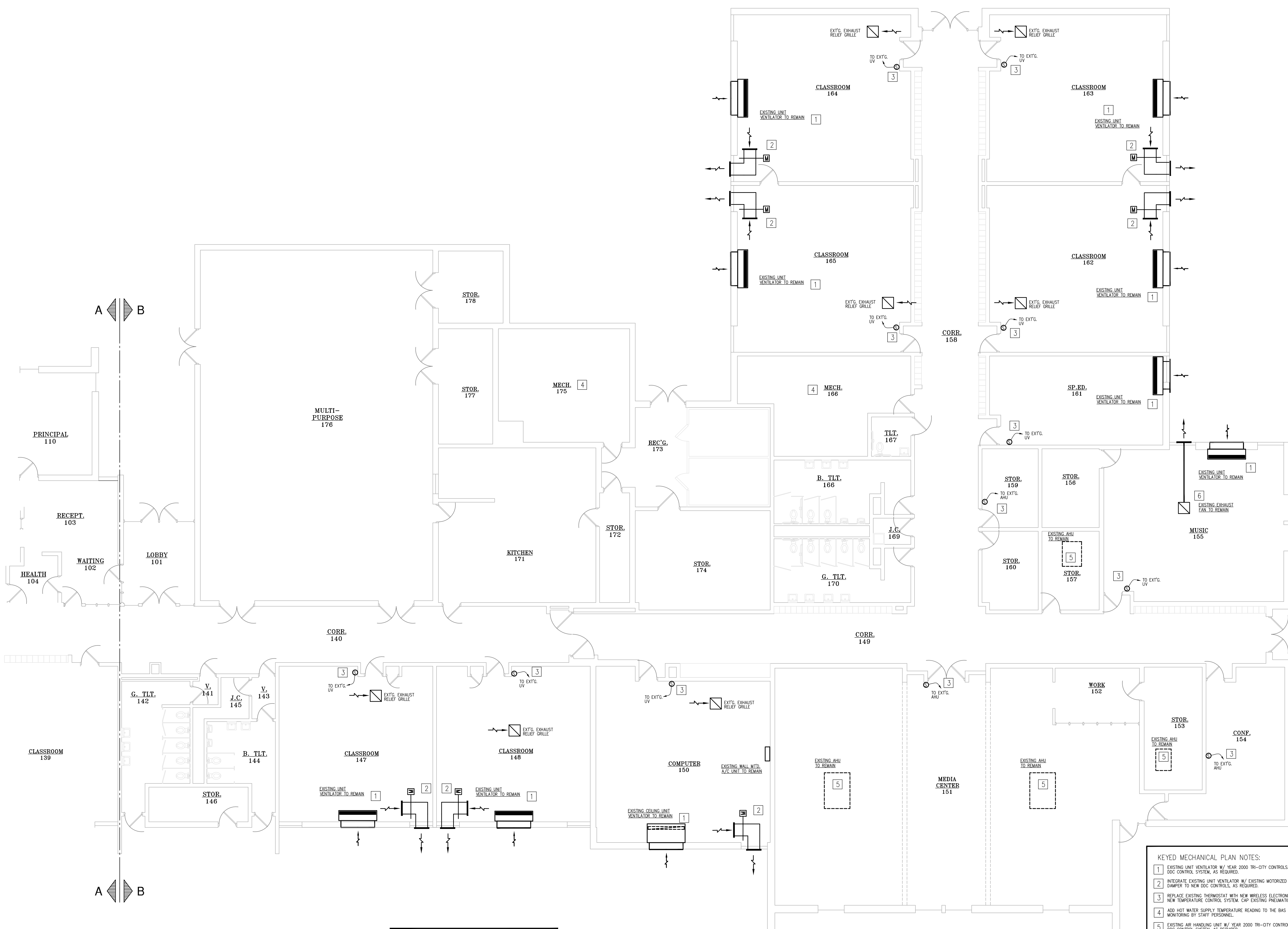
**BUILDING BAS SYSTEM:**  
 THE DIRECT DIGITAL CONTROL SYSTEM IS TO BE PROVIDED AND INSTALLED BY GATEWAY REFRIGERATION. GATEWAY HAS PROVIDED AND INSTALLED THE CARRIER L-VII BUILDING AUTOMATION SYSTEM UNDER A PREVIOUS CONTRACT. THIS PROJECT WILL BE USING THAT SYSTEM.

CHANGES TO PLANS AND SPECIFICATIONS  
 IN THIS DRAWING SHALL BE MADE ONLY BY THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE. THE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY CHANGES TO BE MADE TO THIS DRAWING. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION PROVIDED TO HIM BY THE OWNER OR OTHER PARTY. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF INFORMATION PROVIDED TO HIM BY THE OWNER OR OTHER PARTY. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF INFORMATION PROVIDED TO HIM BY THE OWNER OR OTHER PARTY. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF INFORMATION PROVIDED TO HIM BY THE OWNER OR OTHER PARTY.

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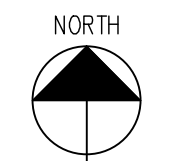
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DRAWING TITLE	FLOOR PLAN - PART "A" MECHANICAL
PROJECT TITLE	WEST BRANCH - ROSE CITY AREA SCHOOLS SF1.5 - ROSE CITY ELEMENTARY DDC CONTROLS WEST BRANCH, MICHIGAN
PROJECT NO.	263-18M
DATE	12/17/21
SHEET	<b>M1.1</b>



**GENERAL MECHANICAL PLAN NOTES:**

1. VERIFY OPERATIONAL CONDITION OF EXISTING EXHAUST FANS AND NOTIFY THE G.C. OF ANY PROBLEMS AND SUGGESTED SOLUTION.
2. VERIFY OPERATIONAL CONDITION OF EXISTING MOTORIZED DAMPERS AND NOTIFY THE G.C. OF ANY PROBLEMS AND SUGGESTED SOLUTION.



**FLOOR PLAN PART "B" - MECHANICAL**

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

**BUILDING BAS SYSTEM:**  
THE DIRECT DIGITAL CONTROL SYSTEM IS TO BE PROVIDED AND INSTALLED BY GATEWAY REFRIGERATION GATEWAY HAS PROVIDED AND INSTALLED THE CARRIER I-VU BUILDING AUTOMATION SYSTEM UNDER A PREVIOUS CONTRACT. THIS PROJECT WILL BE USING THAT SYSTEM.

**KEYED MECHANICAL PLAN NOTES:**

1. EXISTING UNIT VENTILATOR W/ YEAR 2000 TRI-CITY CONTROLS. INTEGRATE TO NEW DDC CONTROL SYSTEM, AS REQUIRED.
2. INTEGRATE EXISTING UNIT VENTILATOR W/ EXISTING MOTORIZED RELIEF AIR CONTROL DAMPER TO NEW DDC CONTROLS, AS REQUIRED.
3. REPLACE EXISTING THERMOSTAT WITH NEW WIRELESS ELECTRONIC SENSOR. CONNECT TO NEW TEMPERATURE CONTROL SYSTEM. CAP EXISTING PNEUMATIC PIPING IF APPLICABLE.
4. ADD HOT WATER SUPPLY TEMPERATURE READING TO THE BAS SYSTEM FOR REMOTE MONITORING BY STAFF PERSONNEL.
5. EXISTING AIR HANDLING UNIT W/ YEAR 2000 TRI-CITY CONTROLS. INTEGRATE TO NEW DDC CONTROL SYSTEM, AS REQUIRED.
6. INTEGRATE EXISTING UNIT VENTILATOR W/ EXISTING EXHAUST FAN TO NEW DDC CONTROLS, AS REQUIRED.

CHANGES TO PLANS AND SPECIFICATIONS

BY THE ARCHITECT OR ENGINEER OR BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

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PROJECT NO. 2109-02

DRAWING TITLE	FLOOR PLAN - PART "B" MECHANICAL		
PROJECT TITLE	WEST BRANCH - ROSE CITY AREA SCHOOLS SF1.5 - ROSE CITY ELEMENTARY DDC CONTROLS WEST BRANCH, MICHIGAN		
PROJECT NO.	263-18M	SHEET	M1.2
DATE	12/17/21		