The existing curriculum programmatic needs have outgrown the current facility. Spaces are too small as evidenced with equipment being too tightly packed in the current space. This makes for cramped environments for students and staff which poses potential safety hazards within the space.

Most of the existing systems are original to the building. They are inefficient from an energy perspective due to many factors: age of equipment, outdated lighting and lighting control, constant volume fan systems, steam control, diminished coil capacities, constant volume pumping systems, limited control flexibility and sequencing from existing pneumatic controls, etc.

Specifically, the HVAC system has surpassed its usable lifespan and is zoned incorrectly for the spaces and users. User comments were frequently made regarding smells, dust and thermal discomfort in the space.

The building structure appears to be in good condition, allowing for reuse. The windows may be contributing to the thermal discomfort experienced by the users of the building. The original building drawings indicate that the exterior walls show minimal wall insulation at the metal wall panel, which may also be contributing to the thermal discomfort of the users.
Existing Conditions

- Administration
- Building Support
- Classroom
- Construction Management
- EET
- Graphic Technology
- Metal Casting Center
- OFFICE
- Production Lab
- Student Spaces
- Technology Education
Concept and Program Fit

The current building footprint and volume of spaces do not align with the new program and space needs identified by the Executive Team and user groups.

The Production Lab spaces are growing by 78% which is larger than any existing high bay space in the existing structure. Additionally, this space needs a wide area to accommodate the necessary equipment for the curriculum.

In the adjacent floor plan diagram, the pink dashed outline shows an area of the building that could be removed to make way for high bay space for the new production labs. Creating new production lab space would allow the users to plan for future growth while aligning equipment electrical and ventilation needs with a more efficient space.