



Erie County Technical School



HALLGREN, RESTIFO, LOOP & COUGHLIN

REGISTERED ARCHITECTS

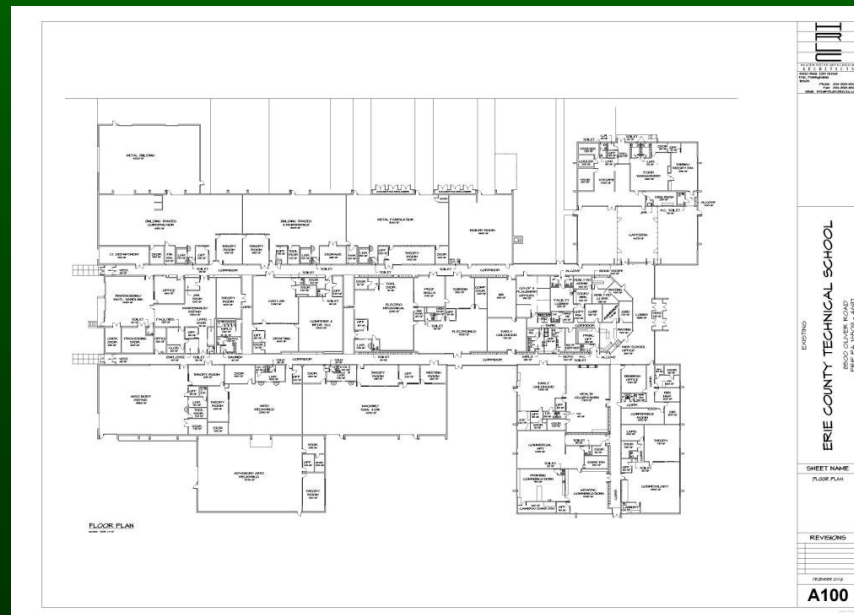
Chris Coughlin & Jessica Lemmon





NEED

- Space utilization at capacity
- Age & condition of infrastructure
- 1993 last renovation
- Enrollment should grow
- **Opportunity**
- Instructional areas for expanded/existing programs





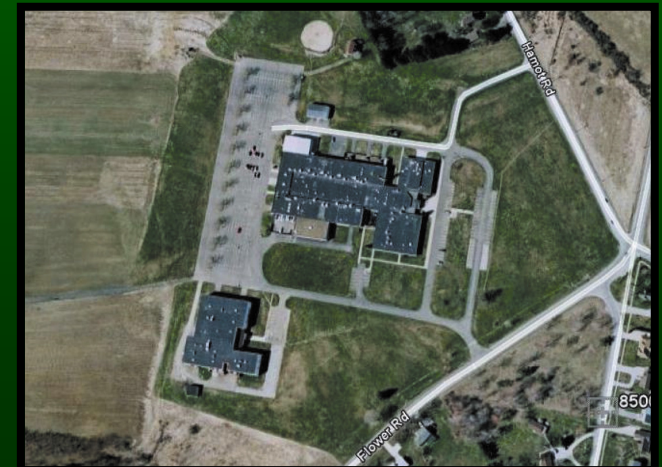
Current Facilities

- **Land**

- 146 acres

- **Buildings**

- Erie County Technical School
 - 110,000 sq. ft
 - 18 programs
 - Regional Skill Center
 - 43,000 sq. ft.





History

- **Erie County Technical School**

- 1968 - Built
- 1986 – Addition to Auto Mechanics
- 1992 – Renovation
- 1999 - HVAC Improvements
- 2010 – Lighting Upgrades

- **Regional Skill Center**

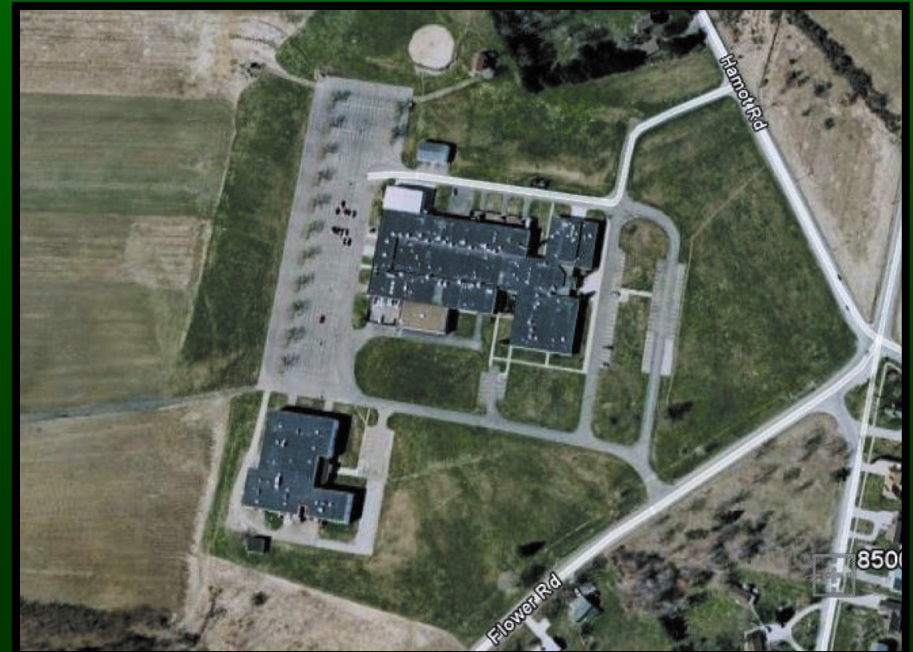
- 1976 – Built
- Minor Improvements over the years
- 2009 – Transition Center
- 2010 – Lighting Upgrades





Site

- **Separate car & bus traffic**
- **Parking – expand and/or relocate**
- **Parking – separate student, faculty/staff & public**
- **Replace sidewalks**
- **Install snowmelt at main entrances**
- **Address drainage**
- **School sign**
- **Aesthetics**





Structure, Roof & Walls

- **Good Condition**
 - Walls and structure
 - Roof – 90% out of warranty
 - Metal fascia and soffit – Poor condition
 - Windows & Doors
 - Single pane windows need replaced
 - Dual glazed – good condition
 - Seals failed
 - Entrances & Exits – Fair





Building Organization

- **Spatial organization - Fair**
 - Related activities need better grouping
 - Public areas require better supervision
 - Improve security & access
 - Typical Classroom improvements
 - HVAC
 - Ceilings & acoustics
 - Doors & hardware
 - Markerboards & smartboards
 - Painting & floor finishes





Code Compliance

- **Sprinklers**
- **Fire Separations**
- **Rated Walls**
- **PDE**
 - Recessed doors
 - Separation of cars and buses





ADA

- **Doors**
 - Width and hardware
- **Signage**
 - Height, location & Braille
- **Toilet Rooms**
 - Route, turning radius and grab bars



Engineering Review

- **HVAC - ECTS**

- Chiller – repair or replace
- HVAC - handle changing programs
- Decentralized systems for after hours
- Replace PTACS in Business Office
- Solar load in main entry

- ~~**HVAC - RSC**~~

- ~~• Replace entire system~~
- ~~• Digital controls to monitor both buildings~~
- ~~• Resolve overheating in Room 215~~



Engineering Review

- **Plumbing - ECTS**

- Fixtures – replace w/ADA compliant
- Wash basins in shops - replace
- Replace original 1967 lines as req'd
- Add fire sprinkler system
- Kitchen - add grease trap
- Cosmetology – add hair traps

- ~~**Plumbing - RSC**~~

- ~~• Fixtures – replace w/ADA compliant~~
- ~~• Replace original 1974 lines as req'd~~
- ~~• Add fire sprinkler system~~





Engineering Review

- **Power Distribution - ECTS**

- Replace branch distribution
- Separate switchboards from boilers
- Add sub-distribution points
- Replace secondary service feeders
 - Panels full

- ~~• **Power Distribution - RSC**~~

- ~~• Replace branch distribution~~
- ~~• Separate switchboards from water heaters~~
- ~~• Add receptacles to Classrooms~~
- ~~• Replace secondary service feeders~~



Engineering Review

- **Emergency Lighting & Power - ECTS**

- Relocate emergency generator – NFPA 110
- Increase size of emergency generator
- Heating

- ~~**Emergency Lighting & Power - RSC**~~

- ~~• Convert unit battery to central inverter~~
- ~~• Replace exit signs w/IBC compliant~~
- ~~• Add emergency generator?~~



Engineering Review

• **Lighting, F/A, Intercom & Clock - ECTS**

- Lighting replaced
- Add lighting controls to meet IECC
- Replace fire alarm system
 - No expansion
- Upgrade intercom & clock

~~• **Lighting, F/A, Intercom & Clock - RSC**~~

- ~~• Add lighting controls to meet IECC~~
- ~~• Replace fire alarm system~~
- ~~• Upgrade intercom & clock~~
- ~~• Tie intercom & clock to ECTS~~



Educational Consultant Review

- **Input**

- Superintendents, Faculty & Administration

- ~~Provide connection between ECTS & RSC~~

- **Questions**

- ~~Establishing a Community College~~

- ~~Logical location~~

- Getting started

- Add new programs

- Sharing rooms – eliminate programs

- Adding Academic programs (Potential)

- Full day at ECTS

- ~~Potential side effects~~



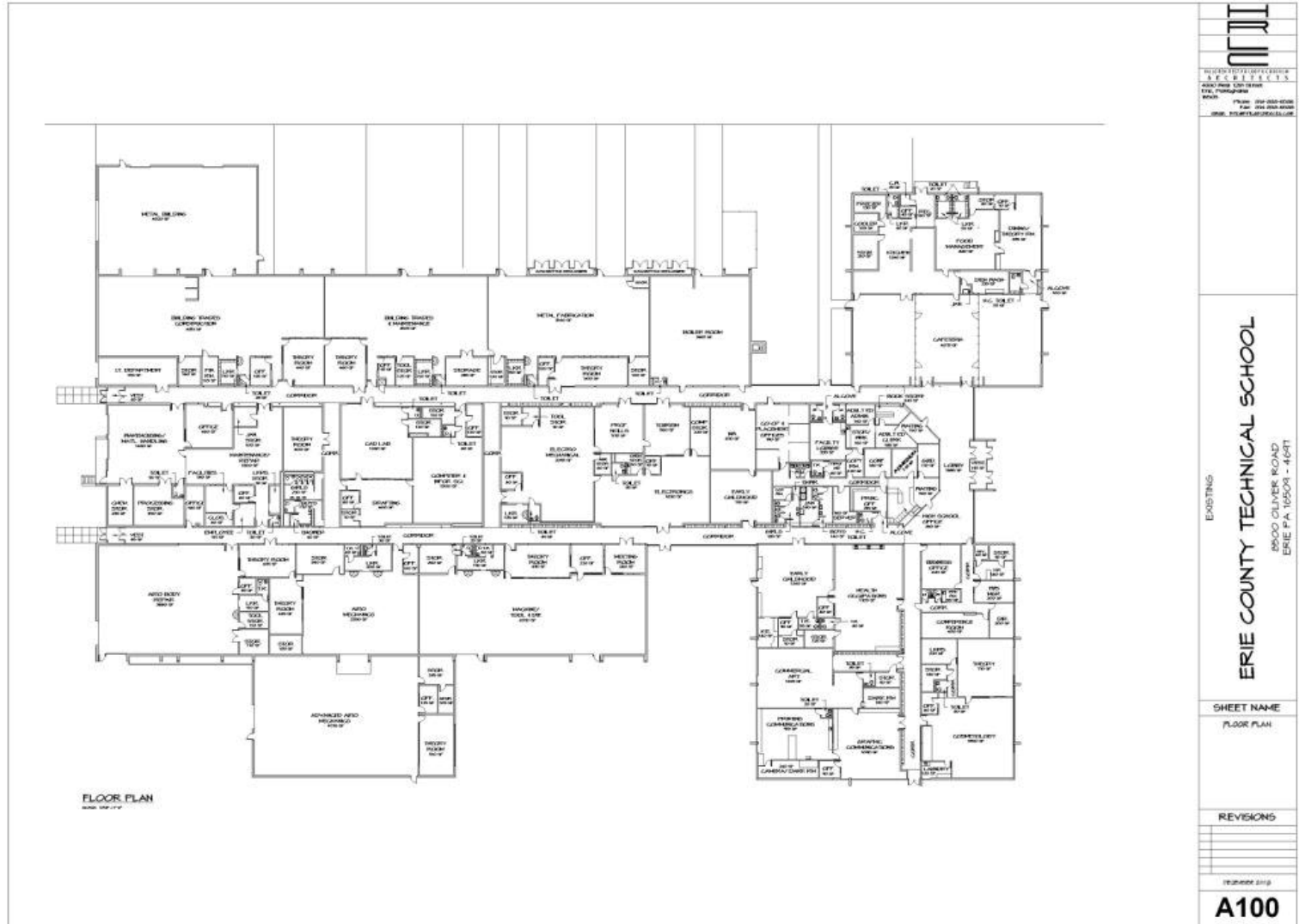
Program Space Needs

- **Cluster: Human Services**
 - Cosmetology, Culinary Arts, Early Childhood Education, Health Assistant, Tourism & Hospitality Management
- **Cluster: Manufacturing**
 - Electrical Engineering, Electronics, Metal Fabrication, Tool & Die and **Adult Welding**
- **Cluster: Transportation**
 - Auto Body Repair, Automotive Technologies and **Diesel**
- **Cluster: Construction**
 - Construction Trades, Facility Maintenance Technologies and **HVAC**
- **Cluster: Communications**
 - Art & Design for Business, Computer Information Systems, Drafting & Design, Graphic Communications, Networking Technologies, **Web Design, Clerical & Marketing Management**
- **Cluster: Engineering**
- **Cluster: Law & Public Safety**
 - **EMT/Fire & Police**

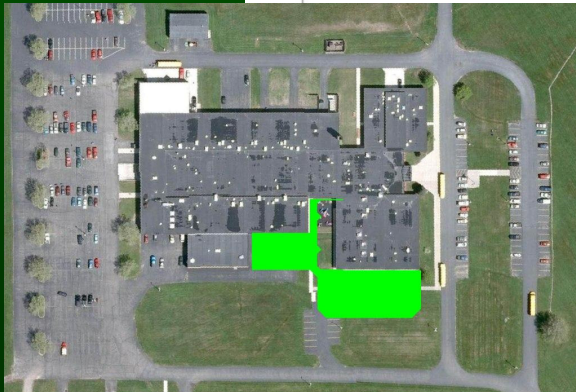




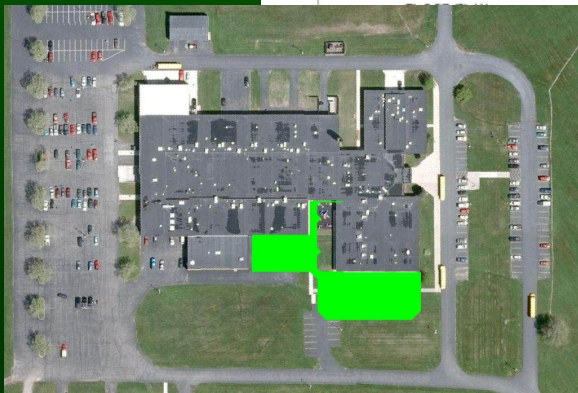
Floor Plan



Option 1



Option 2





Next Step

- **Considerations**

- Maintain status quo
- Additions & Alterations

- **Begin PlanCon Process**

- Submit PlanCON Part A & B
 - Project Justification
 - Proposed project & justification of need
 - Schematic Design
 - Conceptual Drawings
 - Site Plan
 - Educational specifications
- Design/Engineering fees A & B: \$ 180,000

