



# Erie County Technical School



**HALLGREN, RESTIFO, LOOP & COUGHLIN**  
**REGISTERED ARCHITECTS**

Chris Coughlin





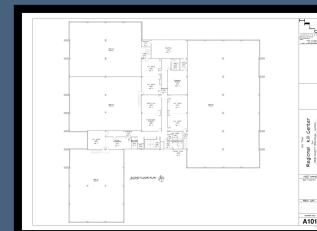
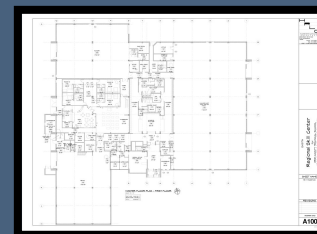
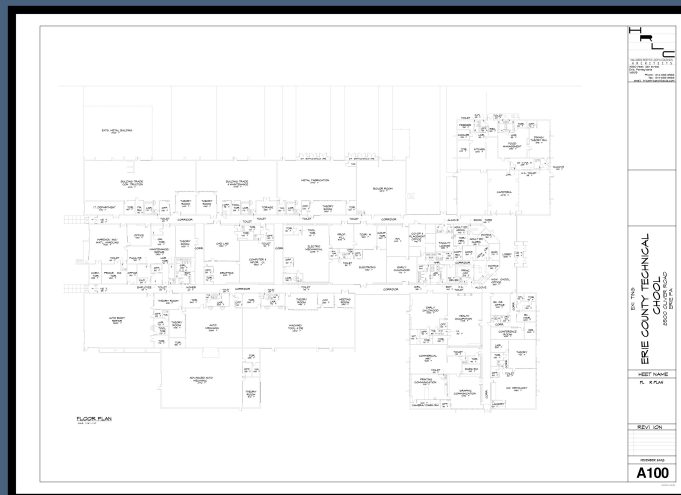
# Building Survey and Feasibility Study

- **Executive Summary**
- **HRL & C Review**
- **Tower Engineering Review**
- **Superintendent's, Faculty & Admin. Input**
- **Paul Abramson – Ed Consultant**
- Site Plans, Floor Plans and Photos
- Spatial Needs, Proposed Plans & Estimated Costs



# Executive Summary

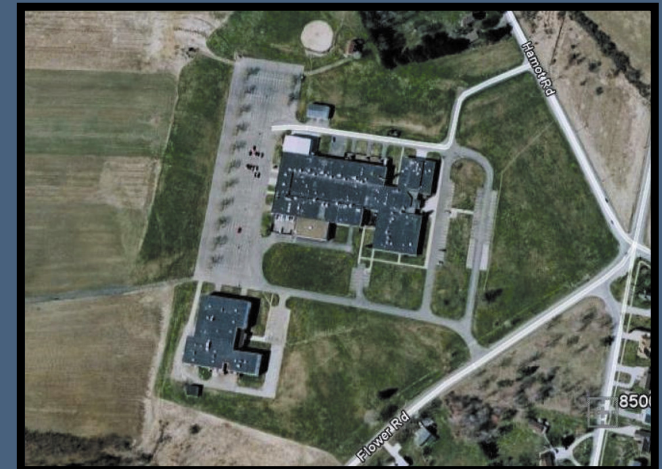
- **Need**
  - Space utilization at capacity
  - Age & condition of infrastructure
    - 1993 last renovation
  - Enrollment should grow
- **Opportunity**
  - Instructional areas for new programs





# 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

- **Regional Skill Center**

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

# 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
    - Lighting & 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





# Tower 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



# Tower 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



# Tower 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



# Tower Engineering Review

- **Emergency Lighting & Power - ECTS**
  - Relocate emergency generator – NFPA 110
  - Increase size of emergency generator
- **Emergency Lighting & Power - RSC**
  - Convert unit battery to central inverter
  - Replace exit signs w/IBC compliant
  - Add emergency generator?



# Tower Engineering Review

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

- Replace T12s with T8s or T5s
- Add lighting controls to meet IECC
- Replace fire alarm system
- 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



# Ed Consultant Review

- **Input**
  - Superintendents, Faculty & Administration
- **Provide connection between ECTS & RSC**
- **Questions**
  - Establishing a Community College
    - Logical location
  - Getting started
    - Expand programs – move admin. Out
    - Sharing rooms – eliminate programs
  - Adding Academic programs
    - Full day at ECTS
    - Potential side effects



# Program Space Needs

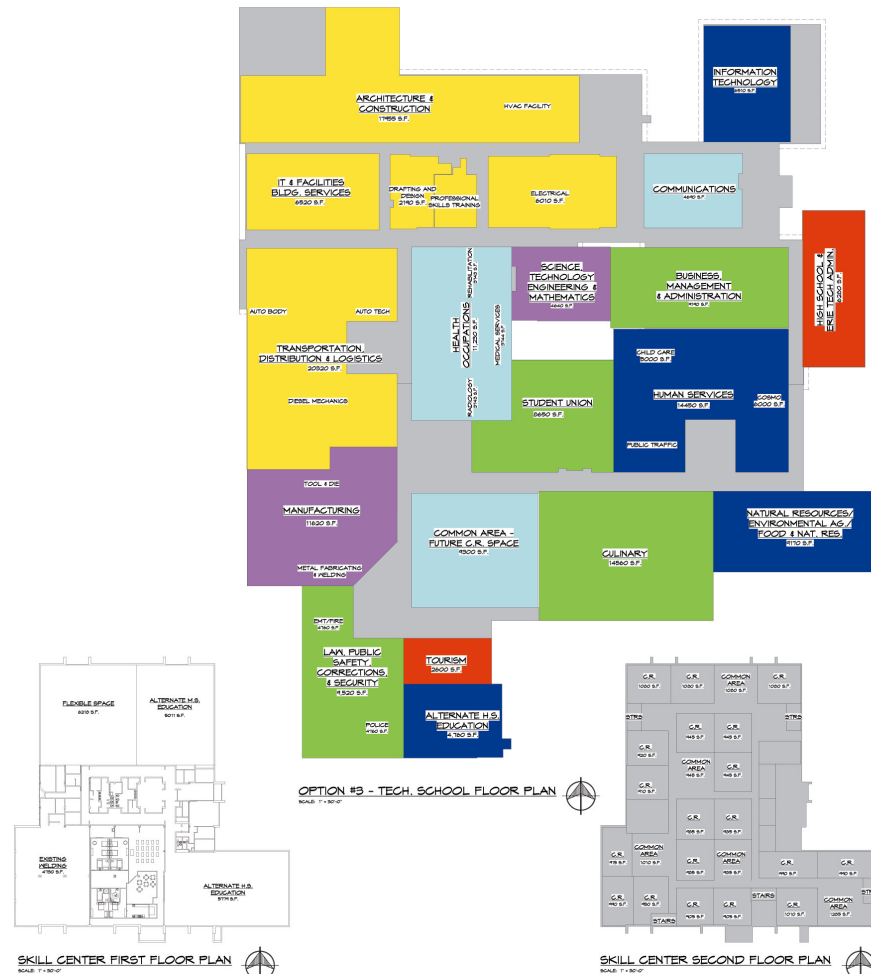
- **Program**
  - Culinary, Early Childhood, Cosmetology, Health Occupations, HS Admin., ECTS Admin., Tourism, Electronics & Electro Mechanics
- **Cluster: Manufacturing**
  - Machine Tool & Die, Metal Fabrication, **Adult Welding**, Drafting & Design, Alt. Ed. MS, Alt. Ed. HS
- **Cluster: Transportation**
  - Auto Mechanics, Auto Body & **Diesel**
- **Cluster: Construction**
  - Building Trades, Building Trade Maintenance & **HVAC**
- **Cluster: Bus Mgt. & Info Tech**
  - **Web Design**, Computer Info System, Networking, **Clerical & Marketing Mgt.**
- **Cluster: Communication**
  - Commercial Art & Graphic Communications
- **Cluster: Engineering**
- **Cluster: Law & Public Safety**
  - **EMT/Fire & Police**



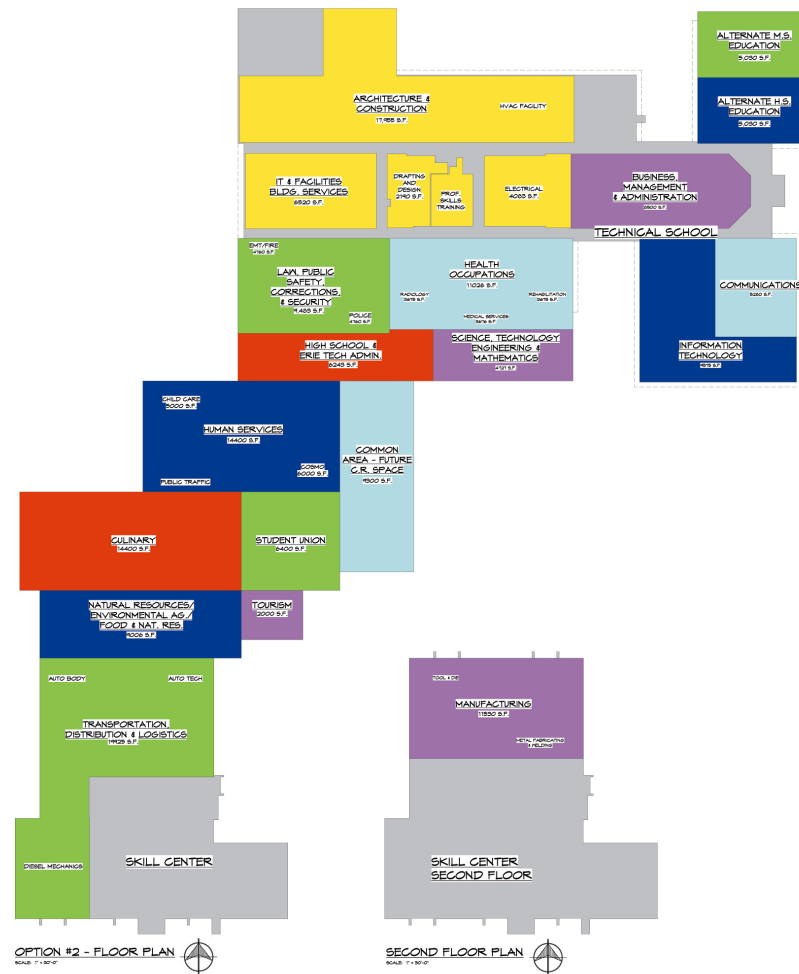


MARCH 2009

**SP1**



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| <p>EXISTING</p> <p><b>ERIE COUNTY TECHNICAL<br/>SCHOOL</b></p> <p>8500 OLIVER ROAD<br/>ERIE PA 16504</p>                                                                                                                                                                                                                   |  |
| SHEET NAME                                                                                                                                                                                                                                                                                                                 |  |
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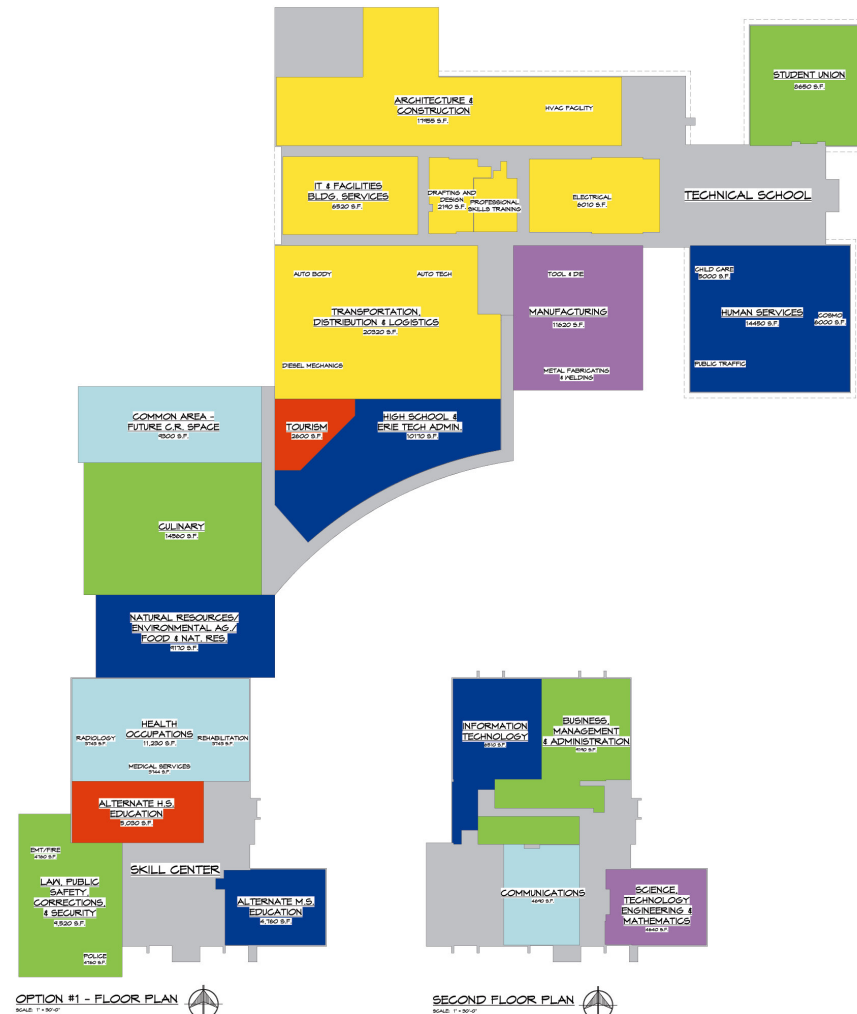
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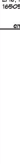
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MARCH 2009

**S2**



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|  <p>HILLGREEN ENGINEERING<br/>4300 WEST 128th STREET<br/>BRIAR, MINNESOTA 55305<br/>PHONE: 214-432-4556<br/>FAX: 214-432-4555<br/>EMAIL: <a href="mailto:info@hgeinc.com">info@hgeinc.com</a></p>                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>EXISTING</p> <p><b>ERIE COUNTY TECHNICAL<br/>SCHOOL</b></p> <p>2800 OLIVER ROAD<br/>BRIAR, PA 15504</p>                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>SHEET NAME</p> <p>SCENAR 0 #5</p>                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <p>WARCH 2000</p> <p><b>S3</b></p>                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



# Next Step

- **Considerations**

- Maintain status quo
- Alterations
- Additions
- Additions & alterations
- New construction

- **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 thru F: \$ 2.8 million