# 1 STEM Building (1 Slide)

Hagerstown Community College 11400 Robinwood Drive Hagerstown, MD 21742

### 2 Introduction (1 slide)

- Ocraig Owsiany
- ●Option
- •Age
- Hometown
- •

### 3 Presentation Outline (3 slides)

- Building Overview
- - Structural Breadth
  - VE
  - Constructability
- - Mechanical Breadth
  - Critical Industry Issue
  - VF
- Analysis III: Curtain Wall Redesign
  - Schedule Acceleration
  - Constructability
- Conclusion
- Acknowledgements
- •Questions?

## 4 Building Overview (3 slides)

- Size:
- Price:
- Ouration:
- Ousage:
- Elevations
- Typical Floor Plan

## 5 Analysis I: Mat Slab Redesign (2 slides)

- Background
  - Over excavation from blasting and non-competent rock

### 6 Analysis I: Mat Slab Redesign (3 slides)

- •Goal
  - Present three possible solutions
  - Include takeoffs and select best option

# 7 Analysis I: Mat Slab Redesign (2 slides)

- ●Goal
  - Dead and live load calculations

# 8 Analysis I: Mat Slab Redesign (2 slides)

Schedule/Sequencing Impacts (minimal)

#### 9 Analysis I: Mat Slab Redesign (2 slides)

Goal

Cost Impact

### 10 Analysis II: Green Roof Redesign (3 slides)

Background

• Eliminate architectural feature (green roof not meant to be accessible area)

### 11 Analysis II: Green Roof Redesign (2 slides)

Goal

• Replace current design with high profile (intensive) green roof

### 12 Analysis II: Green Roof Redesign (2 slides)

•Goal

Heating/Cooling Load Reduction

#### 13 Analysis II: Green Roof Redesign (3 slides)

Structural Load Impact

#### 14 Analysis II: Green Roof Redesign (3 slides)

Goal

Structural Load Impact

#### 15 Analysis III: Curtain Wall Redesign (3 slides)

Background

Original stick built design

### 16 Analysis III: Curtain Wall Redesign (2 slides)

Goal

Redesign curtain wall to a unitized system

### 17 Analysis III: Curtain Wall Redesign (3 slides)

Goa

Scheduling/Sequencing Impact

### 18 Analysis III: Curtain Wall Redesign (3 slides)

•Goal

Cost Impact

### 19 Conclusion/Recommendation (3 slides)

•Mat slab will support increased load from extended foundation walls

Schedule and sequencing will be unaffected

Ocost savings compared to other 2 options

Significant schedule reduction in curtain wall redesign

### 20 Acknowledgements (1 slide)

•HESS Project Team

Ohris Johnson, Keast & Hood

- ●Jake, Hetzer
- ●Lee Goldhammer, CitiRoof
- **⊙**Tony Valente, HCC
- Dana LeCompte, Accent Metals
- 21 Questions (1 slide)
- 22 48 Total Slides