Carnegie Mellon University

Heinz College-Hamburg Hall Addition
Campus Town Hall Meeting

Agenda

1. Introductions
2. Heinz College Project Overview
3. Program & Design
4. Schedule
5. Impacts
6. Questions & Answers

December 3, 2014

Introductions

- Design Team: GBBN Architects
  Civil & Environmental Consultants, Inc - Civil Engineering
  Allen & Shariff - Mechanical, Electrical & Plumbing Engineering
  Buro Happold - Structural Engineering
  evolveEA - LEED Consultants

- Construction Management Firm: Mascaro Construction Company

- Heinz College and Campus Stakeholders

- Campus Design & Facility Development

Heinz College
Hamburg Hall Addition

Existing Courtyard

Heinz College
Hamburg Hall Addition

Existing Courtyard - Rotunda

Heinz College
Hamburg Hall Addition

Existing Courtyard - Smith Hall

Heinz College
Hamburg Hall Addition

Project Overview

Hamburg Hall Addition to focus on adding a new 150 seat Lecture Hall, group and individual study space, student project rooms and a cafe.

Phase 1 - Interior office renovations have been completed

Phase 2 - 150 seat Lecture Hall, Rotunda renovations, and building code and access upgrades

Phase 2.5 - Provide flexible classrooms to allow for innovative and progressive learning.

Phase 3 - Enclose courtyard with glass roof providing student space and a cafe for Heinz College students.

Phase 4 - Interior office renovations

Heinz College - Phase 2

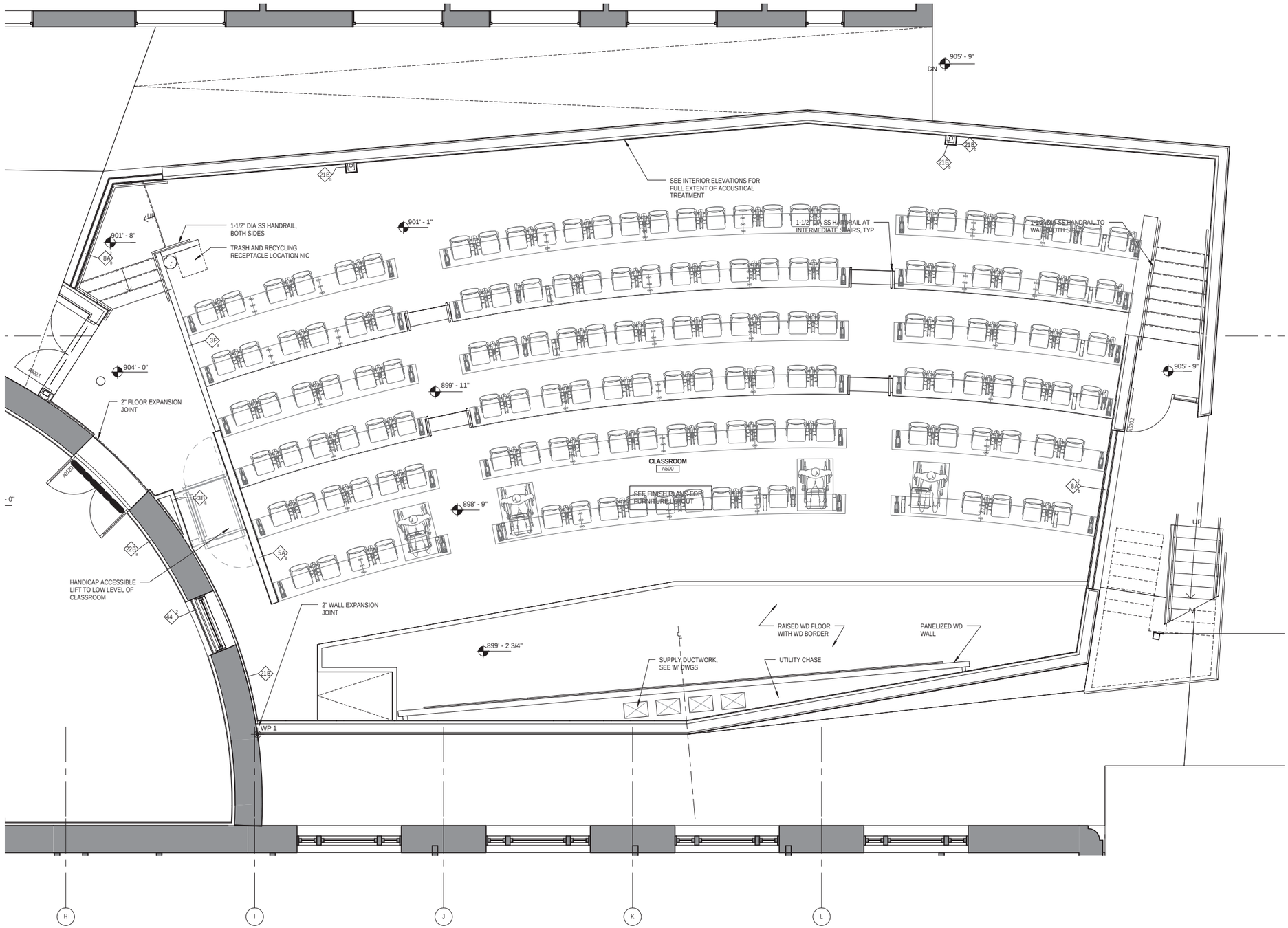
Begins December 15, 2014

Heinz College
A-LEVEL PLAN-Ph2

- 150 Seat Lecture Hall
- New Forbes Entrance
- Code & Corridor Upgrades

Heinz College
A-LEVEL PLAN-Ph2

- 150 Seat Lecture Hall
- Collaborative Seating



Big data leads to big answers
Professor to you, expert to the world
06.23.14
Stay Connected
APPLY
DONATE

Heinz College

Accessibility & Landscape Plan

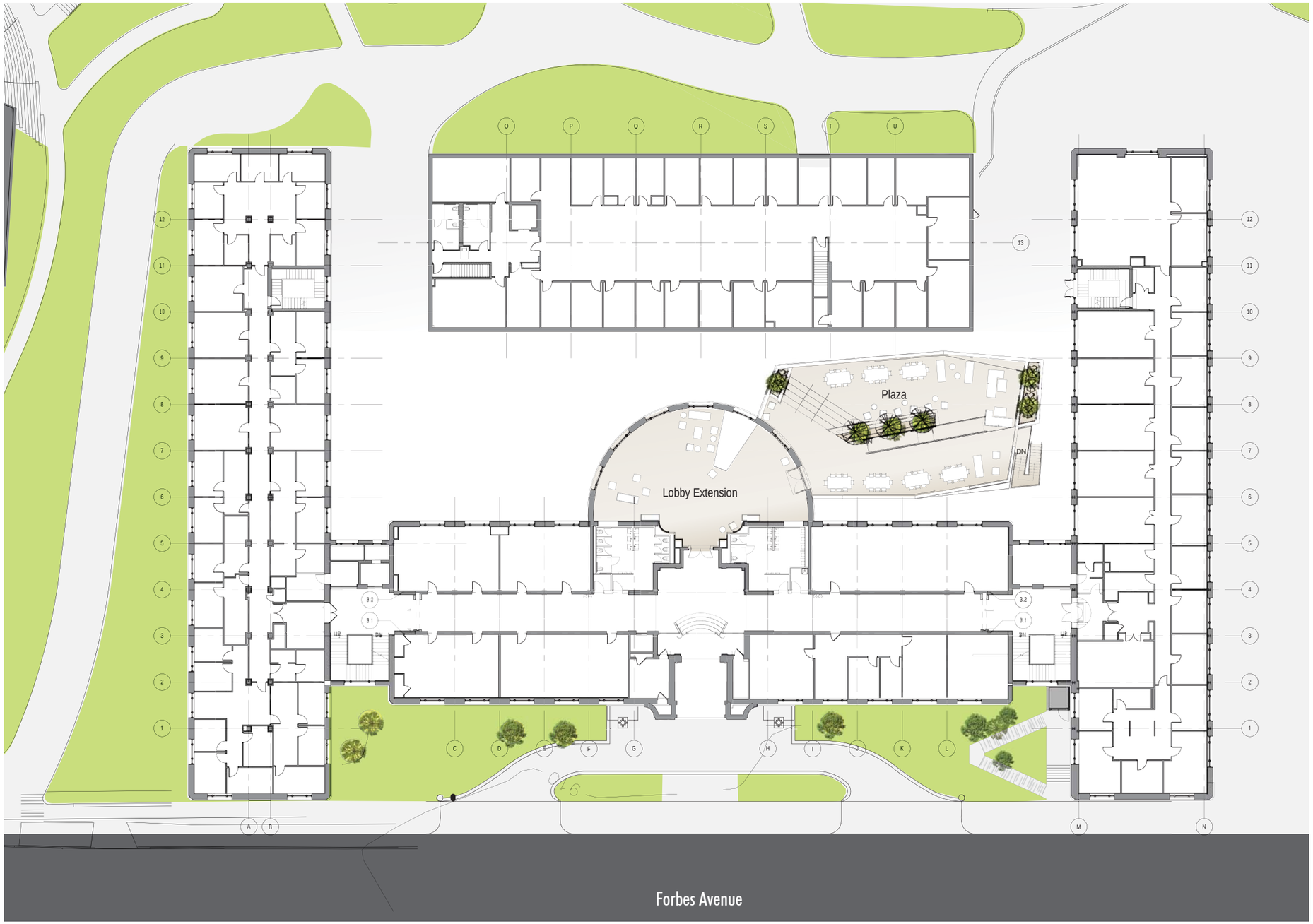
1 BUS STOP
2 PLANTER
3 LAWN
4 1:12 RAMP
5 CONCRETE STAIR/WALK
6 BENCHES
7 GLASS VESTIBULE
8 DROP-OFF

Heinz College

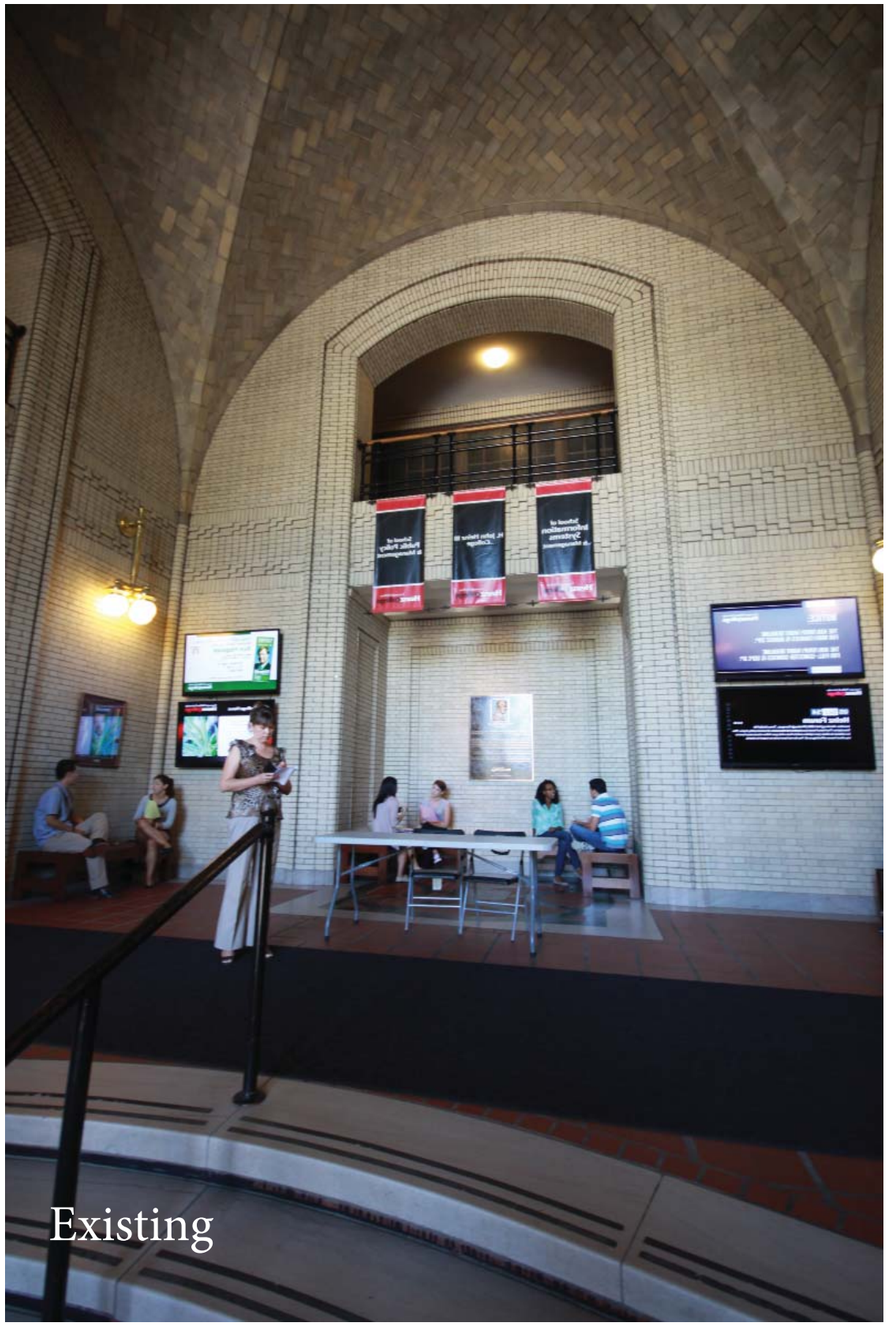
Forbes Ave - Accessible Entry

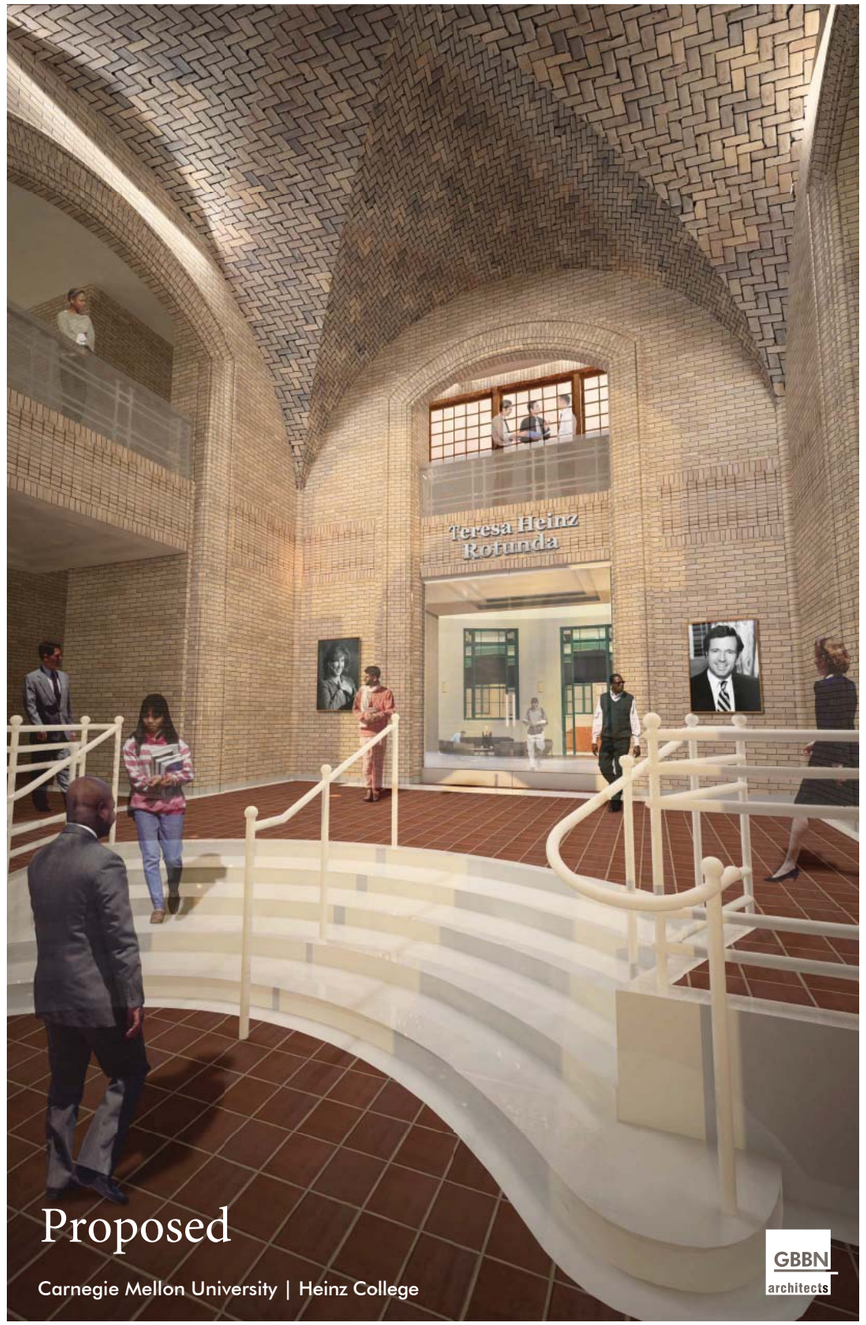
Heinz College
FIRST FLOOR PLAN-Ph2

- Rotunda Renovation
- Exterior Plaza



Heinz College
Main Lobby





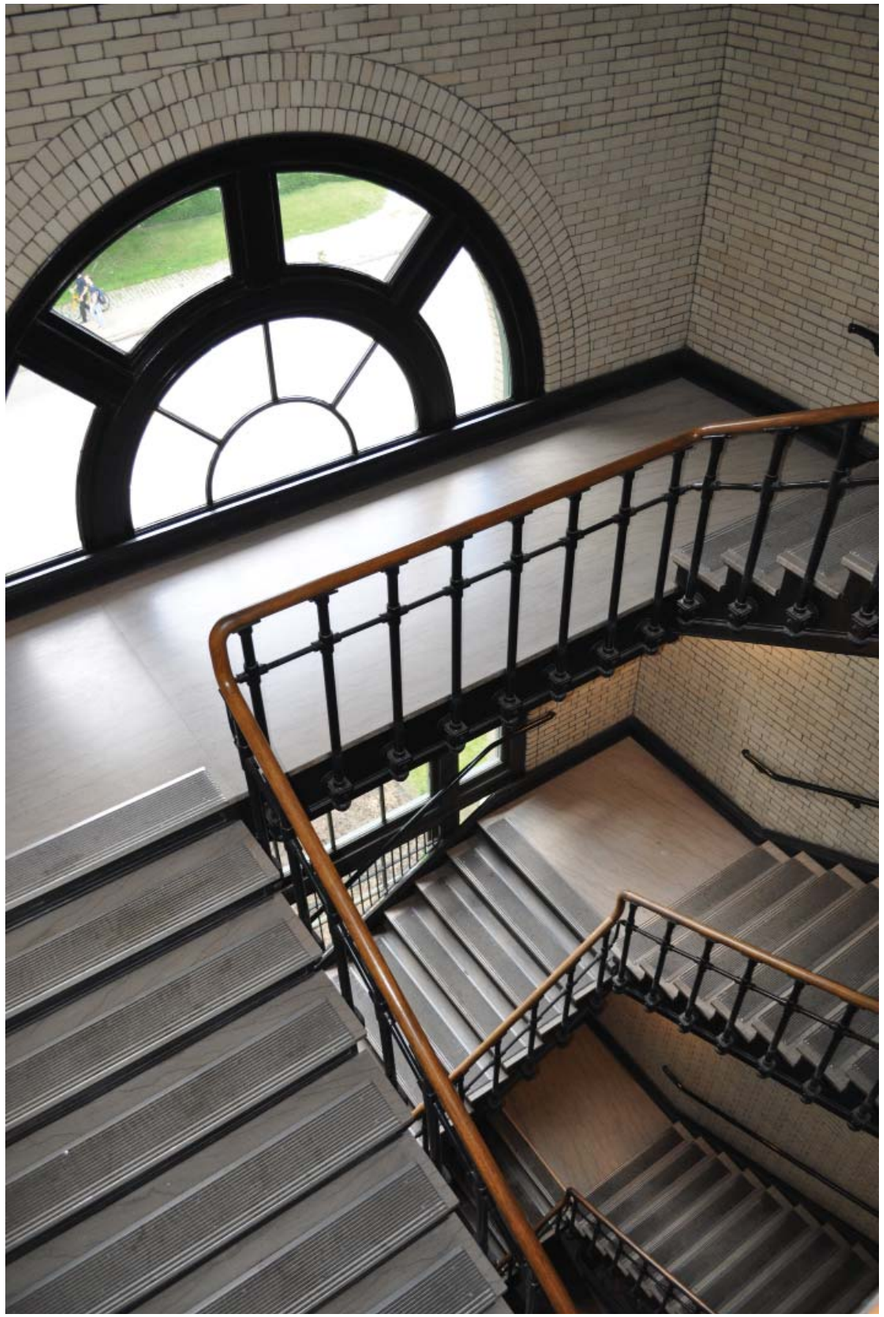
Carnegie Mellon University | Heinz College

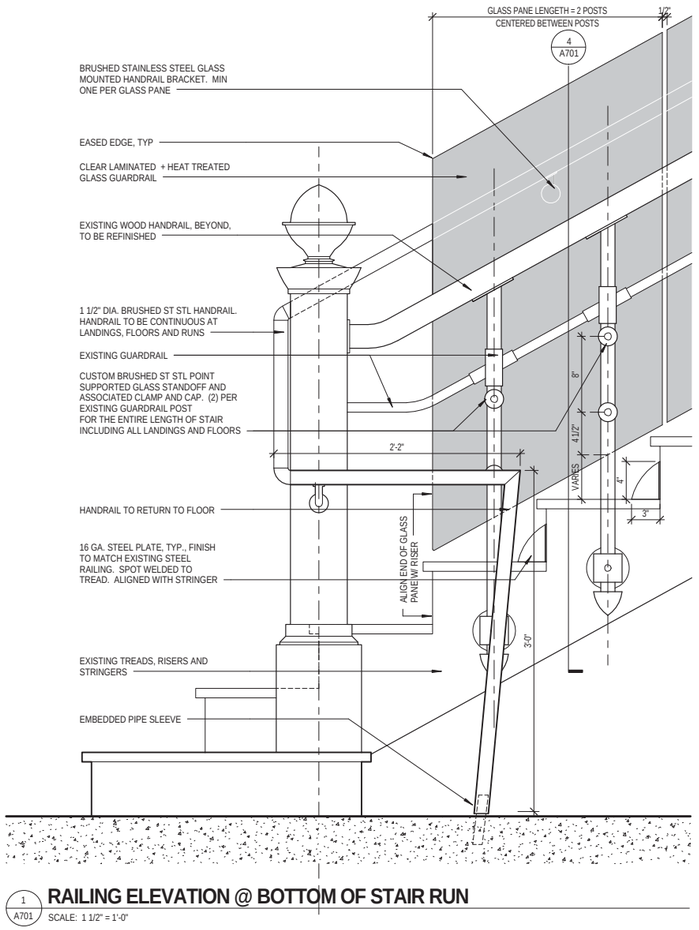
GBBN architects

Carnegie Mellon University | Heinz College

GBBN architects

Carnegie Mellon University





1 A701 **RAILING ELEVATION @ BOTTOM OF STAIR RUN**

SCALE: 1 1/2" = 1'-0"

Heinz College

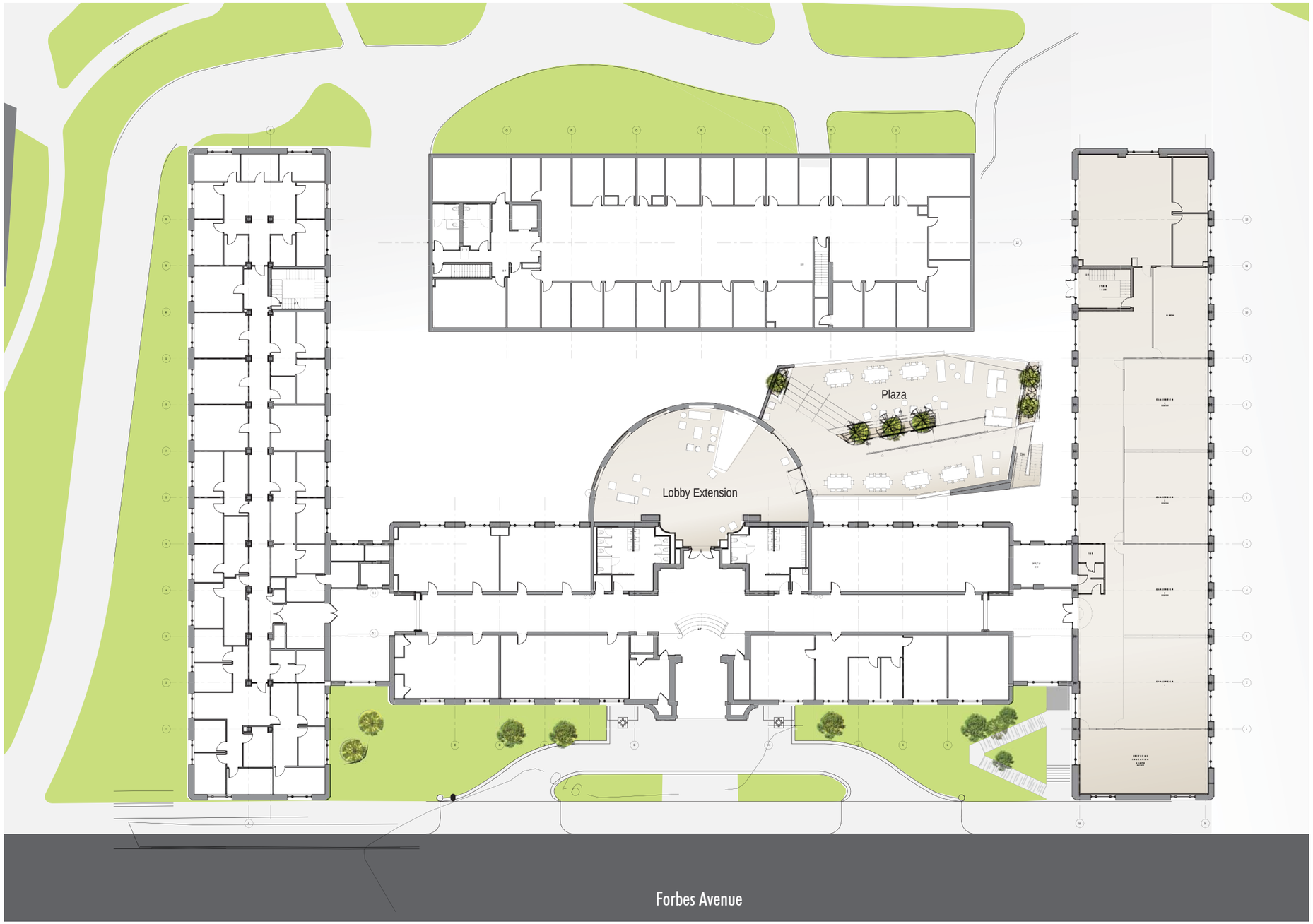
Code Upgrades

- Fire Suppression
- Keep Aesthetic of Existing Handrails
- New Glass Guardrails
- Stainless Steel Handrails

Heinz College - Phase 2.5

Will commence after Scott Hall is completed

Heinz College
FIRST FLOOR PLAN-Ph2.5



- 4 Flex Classrooms
- Executive Education Classroom
- 2nd Floor West Wing Faculty & PhD Offices

Heinz College - Phases 3 & 4

Not yet funded --- Still in the planning phase

Heinz College
A-LEVEL PLAN

- Student Social Space
- Cafe
- 150 Seat Lecture Hall
- Group Study
- Project Rooms
- Corridor Upgrades
- Cistern
- Bio-retention
- New Forbes Entrance

Carnegie Mellon University | Heinz College

GBBN architects

Carnegie Mellon University

Carnegie Mellon University | Heinz College

GBBN architects

The project embodies fundament principles of sustainable design.

Stormwater management via bio-retention areas and gray water cistern collection and reuse.

Renovated toilet rooms will utilize low-flow fixtures and gray water from the cistern.

Demand control ventilation within new Lecture Hall as well as the use of energy recovery units on new mechanical systems

Use of locally manufactured materials

Low-emitting construction materials

Glass atrium roof will provide ample daylight. Glass to be selected with proper shading coefficient to relieve excess strain on mechanical systems.

Enhanced commissioning of project

Radiant cooling slab. The floor of the atrium will contain piping with a refrigerant which will absorb and remove heat from the space.

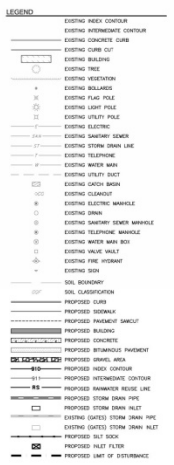
The Lecture Hall will achieve LEED Silver Certification while the atrium and remainder of Hamburg Hall will be built to fundamental standards of sustainable design.

Site Logistics Planning

Mobilization

December 15, 2014 through January 2, 2015

- Shut down courtyard
- Protect windows with insulation and plywood
- Install site fencing
- Set-up construction trailers
- Re-locate temporary generator to south end of west wing
- Re-locate bike racks to CIC (north end)



Limits of Work (Phase 2)

REFERENCE

1. PLAN NORTH IS BASED UPON PENNSYLVANIA STATE PLANE SOUTH ZONE, AS DETERMINED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC., USING SURVEY GRADE GPS MEASUREMENTS AND OPUS POST-PROCESSING.
2. VERTICAL DATUM IS BASED UPON NAVD88, AS DETERMINED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC., USING SURVEY GRADE GPS MEASUREMENTS AND OPUS POST-PROCESSING.
3. UTILITIES TAKEN FROM THE RESULTS OF A PA ONE CALL, SURFICIAL EVIDENCE AND PLANS PROVIDED BY OTHERS.
4. FIELD SURVEY BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 6/5/2014.
5. EXISTING STORMWATER STRUCTURES TAKEN FROM A SURVEY BY CIVIL & ENVIRONMENTAL, DATED TRIDENT DRAWING NO. 3DMS DATED 9/09 AND CARNEGIE MELLON UNIVERSITY GATES CENTER FOR COMPUTER SCIENCE DESIGN DRAWINGS BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 5/10/2011. FILE NAME: 050824-XR-SWM.dwg

SCALE IN FEET
0 20 40

CEC PROJECT # 130-174
DRAWN BY: KG
CHECKED BY: AMB
APPROVED BY: AMB* SIGNATURE ON FILE

Architect:
GBBN Architects Inc.
5411 Penn Avenue Pittsburgh, PA 15206
v 412.345.5005 f 412.345.5006
http://www.gbbn.com

Consultants:

Mechanical, Electrical, Pluming
Allen & Shariff Engineering, LLC
700 River Avenue, Suite 909
Pittsburgh, PA 15212
v 412.322.9280

Structural
Buro Happold Consulting Engineers
140 Geary Street, 8th Floor
San Francisco, CA 94108
v 415.778.2797

Civil
Civil & Environmental Consultants, Inc.
333 Baldwin Road
Pittsburgh, PA 15205
v 724.327.5200

LEED Consultant
evolveEA 5530 Penn Avenue Pittsburgh, PA 15206 v 412.362.2100

Seal:
PRELIMINARY NOT FOR CONSTRUCTION

PHASE 2:
98% PRICING SET

No.	Date	Description
	10/31/14	98% PRICING SET

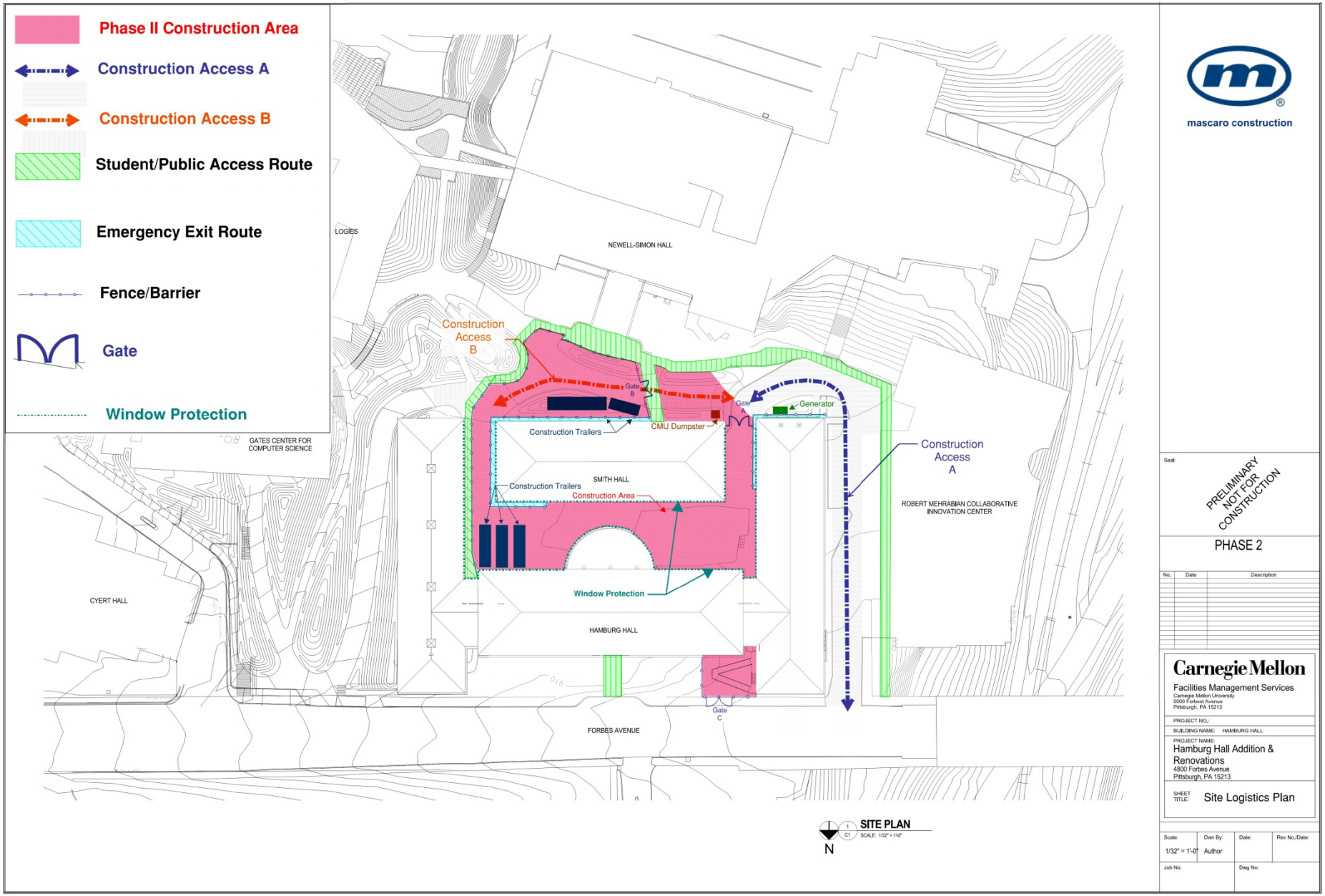
Carnegie Mellon
Facilities Management Services
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213

PROJECT NO.: 27431
BUILDING NAME: HAMBURG HALL
PROJECT NAME:
Hamburg Hall Addition & Renovations
4800 Forbes Avenue
Pittsburgh, PA 15213

SHEET TITLE: EROSION & SEDIMENTATION CONTROL PLAN

Scale:	Dwn By:	Date:	Rev No./Date:
1" = 20'	PAB/KJG	10/31/2014	

Job No: 13284.01
Dwg No: C900



mascaro construction

Seal:

PRELIMINARY NOT FOR CONSTRUCTION

PHASE 2

No.	Date	Description

Carnegie Mellon

Facilities Management Services

Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213

PROJECT NO.:

BUILDING NAME: HAMBURG HALL

PROJECT NAME:
Hamburg Hall Addition & Renovations
4800 Forbes Avenue
Pittsburgh, PA 15213

SHEET TITLE: Site Logistics Plan

Scale:	Dwn By:	Date:	Rev No./Date:
1/32" = 1'-0"	Author		

Job No:

Dwg No:

Excavation and Selected Demolition

January 2, 2015 through March 30, 2015

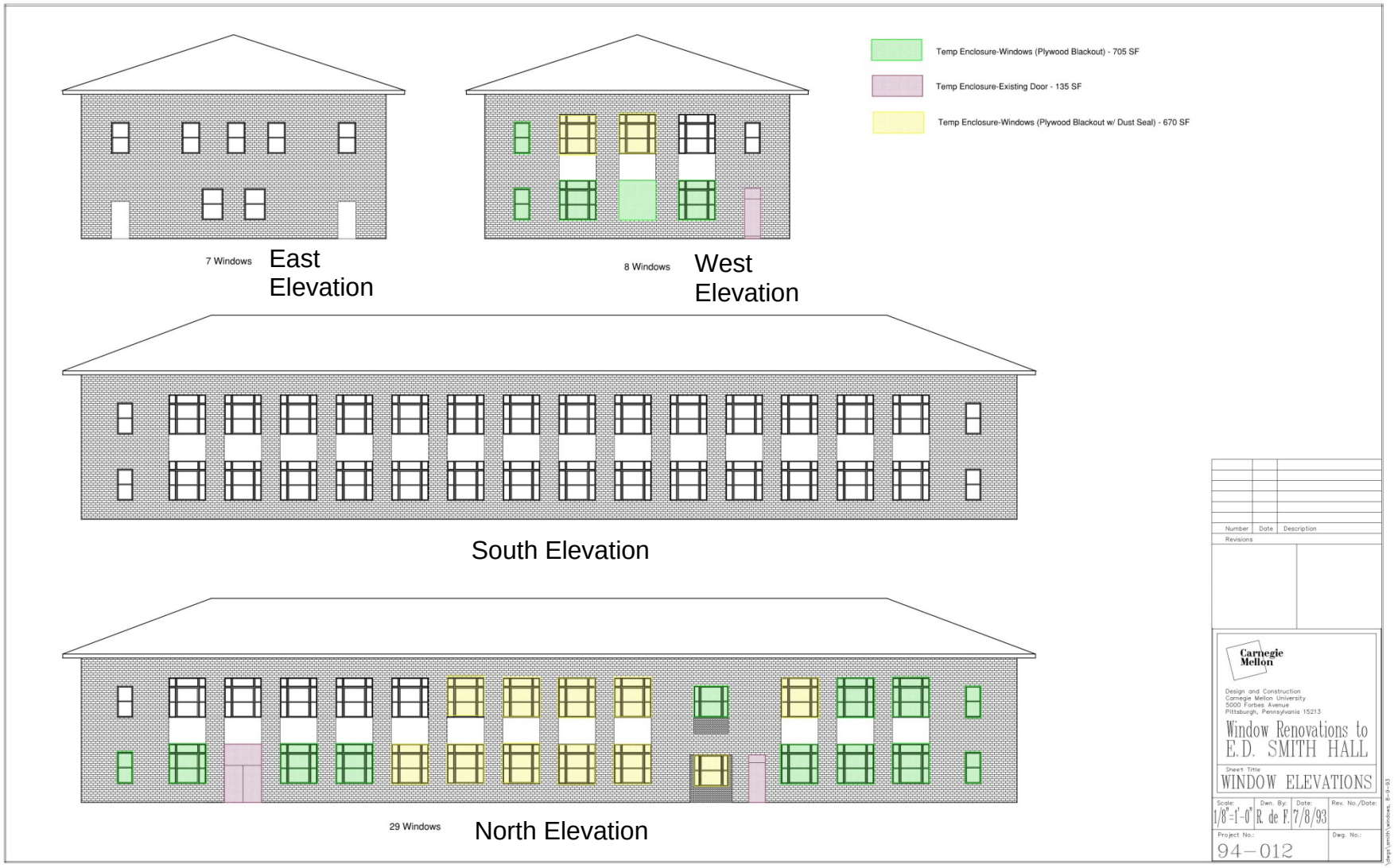
- Excavate the classroom building foundations within the courtyard
- Excavate trenches for the site utilities within the courtyard and between Smith Hall and Newell Simon Hall
- Excavate for cistern and piping within the courtyard
- Excavate trenches for electrical ductbank inside A-Level of Hamburg Hall at the rear entrance (west end)
- Demolish Floor 1 nook (west end) to create new mechanical room for the new classroom building

Effects of Early Phases of Construction

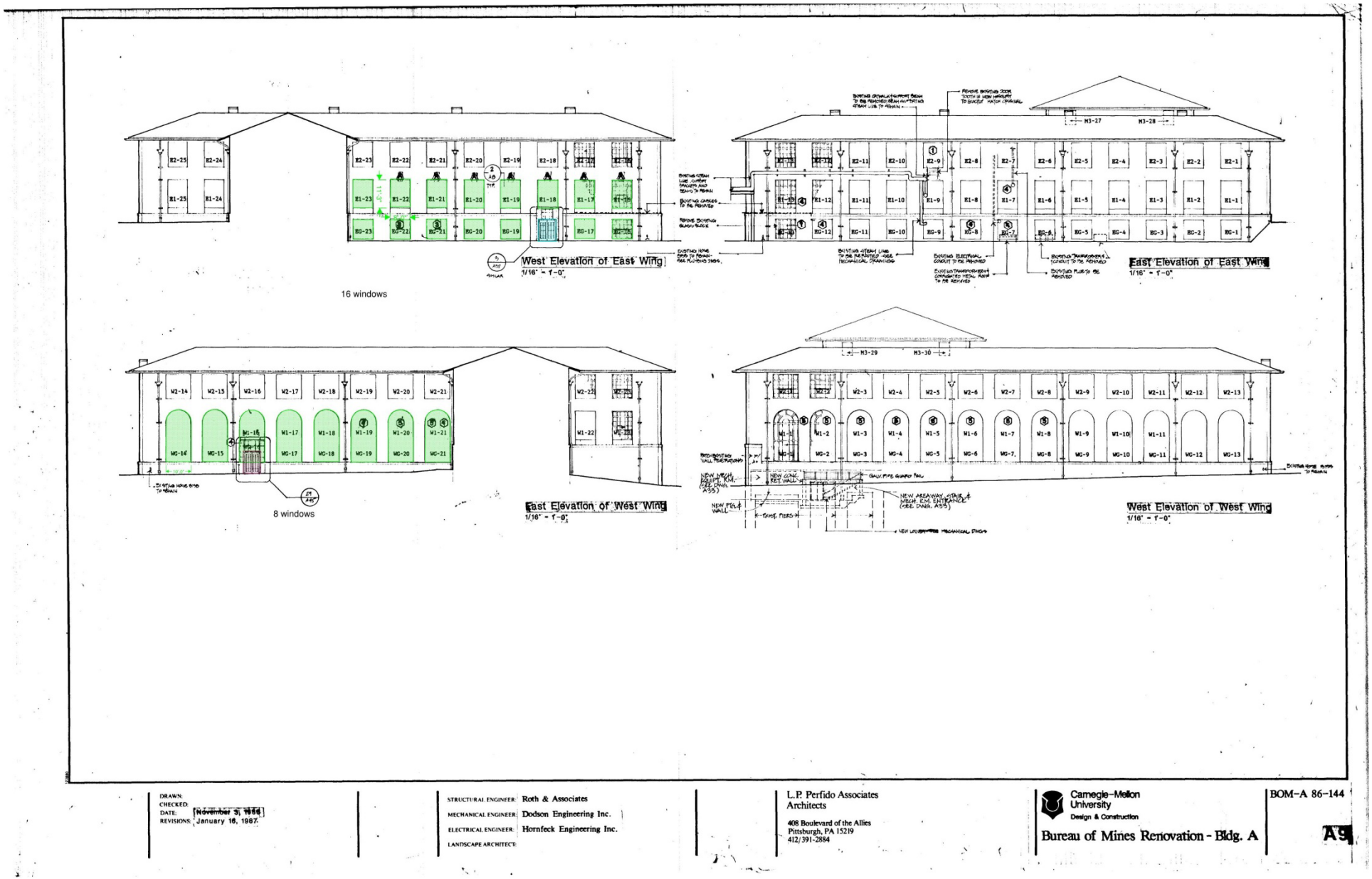
- The geotechnical analysis shows that all excavation will be through rock
- Heavy equipment will be used for rock excavation, causing loud noise, vibration, and dust
- Diesel-powered tri-axle trucks and loaders will be utilized for the removal of excavation spoils
- Interior hallways will be disrupted with utility trenching

Interruption Mitigation Measures

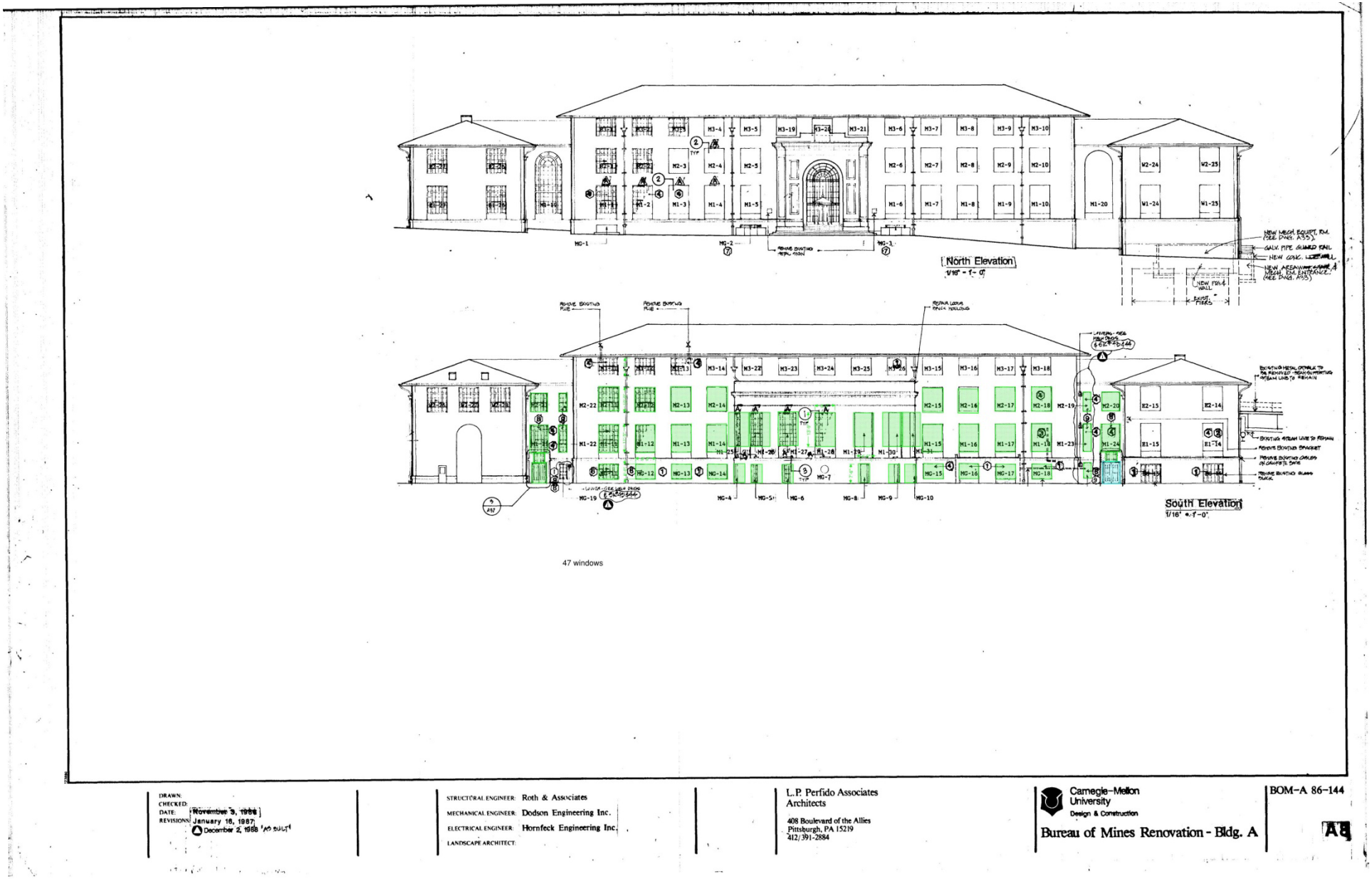
- Excavation work will be scheduled from 10PM to 8:30AM
- The windows of Hamburg Hall and Smith Hall directly adjacent to the classroom foundation work will be covered with sound insulation and plywood
- Other selected windows will be covered with 6 mil plastic for dust protection
- Install filter fabric on building air intakes
- Trenches will be backfilled or plated to allow access after 8:30AM



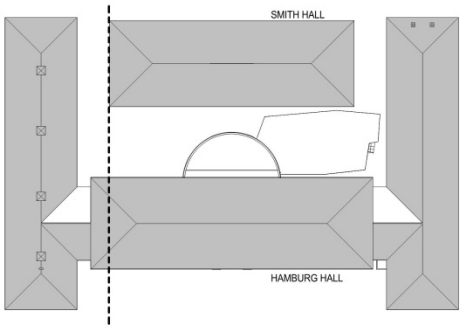
Window Protection at Smith Hall



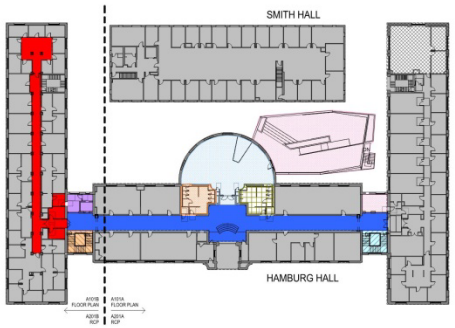
Window Protection at Hamburg Hall (East/West)



Window Protection at Hamburg Hall (South)



ROOF PLAN - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"



FIRST FLOOR - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"

DRAWING LEGEND

NO ARCHITECTURAL WORK

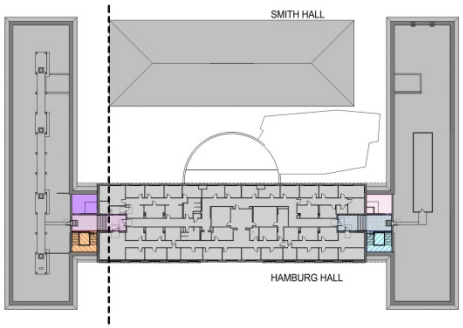
INSTALL SPRINKLER HEADS AND ACTIVATE FIRE SUPPRESSION SYSTEM INSTALLED DURING PREVIOUS WORK

HAMBURG: PATCH CEILING TO PROVIDE CONTINUOUS 1HR C/U ASSEMBLY BETWEEN ATTIC & OCCUPIED SPACES

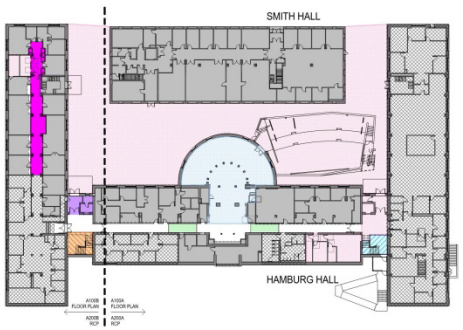
SMITH: PROV 1HR SPRAY FIREPROOFING AT ROOF TRUSSES AND SECONDARY FRAMING MEMBERS

GENERAL NOTES - KEY PLANS

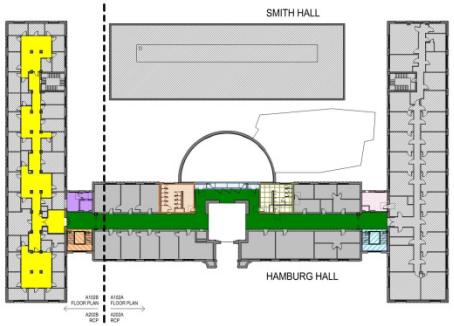
A. KEYED WHITE AREAS WILL BE EQUIPPED WITH LIMITED AREA FIRE SUPPRESSION PER IBC 2006 AND NFPA 13.



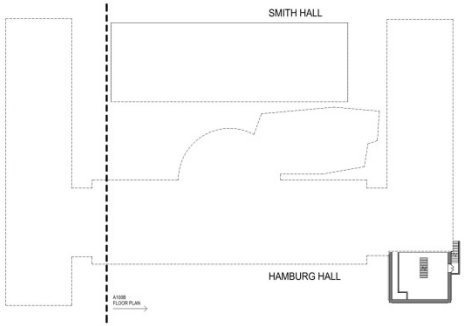
THIRD FLOOR - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"



A-LEVEL - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"



SECOND FLOOR - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"



SUB-BASEMENT - PHASE 2 - KEY PLAN
SCALE: 1" = 30'-0"

N

GBBN ARCHITECTS
Architect:
GBBN Architects Inc.
5411 Penn Avenue Pittsburgh, PA 15206
v 412.345.5005 f 412.345.5006
http://www.gbbn.com
Consultants:
Mechanical, Electrical, Pluming
Allen & Shariff Engineering, LLC
700 River Avenue, Suite 600
Pittsburgh, PA 15212
v 412.322.9280
Structural
Buro Happold Consulting Engineers
140 Geary Street, 8th Floor
San Francisco, CA 94108
v 415.778.2797
Civil
Civil & Environmental Consultants, Inc.
333 Baldwin Road
Pittsburgh, PA 15205
v 724.327.5200
LEED Consultant
evolveEA 5530 Penn Avenue Pittsburgh, PA 15206 v 412.362.2100

NOT FOR CONSTRUCTION

Seal:

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA No. RA-017917

PHASE 2:
98% PRICING SET

No.	Date	Description

Carnegie Mellon
Facilities Management Services
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213

PROJECT NO.: 27431
BUILDING NAME: HAMBURG HALL
PROJECT NAME:
Hamburg Hall Addition & Renovations
4800 Forbes Avenue
Pittsburgh, PA 15213

SHEET TITLE: LIMIT OF WORK - KEY PLANS

Scale:	Dwn By:	Date:	Rev No./Date:
As indicated	Author	10/31/14	

Job No: 13284.01
Dwg No: KP

C:\Revit.cad\13284.01_Hamburg_RA_drawing.rvt
10/31/2014 4:43:25 PM

Continued Renovations

- The new classroom building is scheduled to be completed for the fall of 2015
- Interior renovations of the Rotunda (A-Level and Floor 1), corridor upgrades, building life safety improvements (including fire alarms, sprinklers, and stairwell fire enclosures), new bathrooms, and new ADA entrance off of Forbes Avenue are scheduled to be executed between May, 2015 and February, 2016

Continued Communication

- A website will be brought online for the project in the next couple of weeks in order to keep the campus community informed of happenings on the project:

  http://www.cmu.edu/cdfd/heinz-hamburg-hall/

- Updates will be provided on a regular basis and shutdowns / service interruptions will be scheduled with adequate advance notice

Questions & Answers