**Meeting Agenda**
**State College Borough Design Review Board**
**December 6, 2016**
**Room 241 / 10 a.m.**

I. **Call To Order**

II. **Roll Call**

III. **Approval Of Minutes**

IV. **Chair Report**

V. **Public Hour**

VI. **Sign**

A. New Signs, Hamilton Square Shopping Center, CP3 Zoning District, Applicant

VII. **Land Development Plan**

A. Final Plan For Proposed Improvements, Additions And Renovations To 243 South Pugh Street, Project Design By Michael C. Haluga, Inc., Registered Architect, Dean And Linda Spanos, Owners

B. Final Plan East Halls New Residential Dormitory, UPD Sub District 5 Zoning District, The Pennsylvania State University (PSU), Owner, Sweetland Engineering, Engineer, DLA Architecture, Architect

C. Final Plan 254 East Beaver Avenue, Replacement Building, Mixed-Use, Zoning District, RO With Overlay District, Highland Holding Group, Owner, Penn Terra, Engineering, OGP Architects, LLP, Architect

VIII. **Official Reports And Correspondence**

IX. **Upcoming Meeting**

X. **Adjournment**

*Documents:*

*Complete Design Review Board Agenda - December 6, 2016.pdf*

# Meeting Agenda
# State College Borough Design Review Board
# December 6, 2016
# Room 241 / 10 a.m.

## I. Call to Order

## II. Roll Call

Richard Bryant, Chair
Eric Boeldt, Chair of Historic Resources Commission (HRC)
Richard Devon
Bond Reinhardt

## III. Approval of Minutes – November 9, 2016 Design and Historic Review Board (DHRB) & November 15, 2016 (DRB)

## IV. Chair Report

## V. Public Hour - Hearing of Citizens

## VI. Sign

A. New Signs, Hamilton Square Shopping Center, CP3 Zoning District, Applicant

Attached to the agenda are the sign renderings for the new commercial spaces in the Hamilton Square Shopping Center.

The sign rendering is attached on **page 9** of the agenda.

Design Review Board Action: Provide feedback on the sign's design, placement and effectiveness. Because the property is in a planned commercial district, the DRB review is required before the permit can be issued. Authority for issuing the permit is vested with staff. A formal motion is required.

## VII. Land Development Plan

A. Final Plan for proposed Improvements, Additions and Renovations to 243 South Pugh Street, Project Design by Michael C. Haluga, Inc., Registered Architect, Dean and Linda Spanos, Owners.

This 3-story frame structure is permitted as a home. This structure at the corner of Orchard Alley and South Pugh Street is a rental property. The property is approximately .18 acres in the Commercial District.

The project proposes to add to the front of the building to create a total of four dwelling units. The parking lot configuration illustrates that 15 parking stalls exist and the proposal requires nine parking stalls.

The Historic Resources Commission (HRC) reviewed the proposal on November 15, 2016 and was appreciative of the modifications made to the south façade.

Attached to the agenda is an aerial view, a street view and the plan submission on **pages 10-17**.

Design Review Board Action**: Review the plan and offer any design suggestions deemed appropriate. This is a final plan. Recommendation to the Planning Department can be made to approve the plan.**

B. Final Plan East Halls New Residential Dormitory, UPD Sub District 5 Zoning District, The Pennsylvania State University (PSU), owner, Sweetland Engineering, Engineer, DLA Architecture, Architect

This project is in the southern portion of the East Halls complex. The proposal is to build a second Residence Hall and to renovate nine additional residence halls in the East Halls residence complex. In addition to the building work, the project will also involve reconfiguration of sidewalks, parking lots and the construction of a multi-sport court and volleyball court as well as landscaping.

An aerial view and the plan set are attached to the agenda on **pages 18-30**.

Design Review Board Action**: Review the plan and offer any design suggestions deemed appropriate. This is a final plan. Recommendation to the Planning Department can be made to approve the plan.**

C. Final Plan 254 East Beaver Avenue, Replacement Building, Mixed-use, Zoning District, RO with Overlay District, Highland Holding Group, Owner, Penn Terra, Engineering, OGP Architects, LLP, Architect

This project involves the demolition of the existing building and the construction of a new mixed-use building that will include first floor retail along Beaver Avenue, 40 apartment units (three inclusionary units and three bonus units) and top floor office space.

Attached to the agenda is an aerial view, renderings and select plan sheets on **pages 31-43**.

Design Review Board Action**: Review the plan and offer any design suggestions deemed appropriate. This is a final plan. Recommendation to the Planning Department can be made to approve the plan.**

## VIII. Official Reports and Correspondence

## IX. Upcoming Meeting

Tuesday, December 20, 2016 at 10 a.m.

## X. Adjournment

# Meeting Minutes
# State College Borough Design Review Board
# November 15, 2016

The State College Borough Design Review Board (DRB) met on Tuesday, November 15, 2016 in the State College Borough Municipal Building, 243 South Allen Street in Room 241. Vice-Chairman Reinhardt called the meeting to order at 10:00 a.m.

## Members Present

Rick Bryant, Chairman, Bond Reinhardt, Vice-Chairman, Richard Devon and Eric Boeldt.

## Others Present

Anne Messner, Planner/Zoning Officer; Jenna Wargo, Planner; Sarah Smith, Staff Assistant; Rich Francke, University Park Plaza Corporation(UPPC); and Tony Fruchtl, PennTerra Engineering(PTE).

## Approval of Minutes

A motion was made by Mr. Boeldt and seconded by Mr. Devon to approve the October 4, 2016 minutes as submitted. The vote was unanimously in favor.

## Chair Report

Vice-Chairman Reinhardt had nothing to report.

## Public Hour

No one in the audience wished to discuss items not on the agenda.

## Land Development Plan

<u>Final Plan, Hamilton Square Shopping Center, CP3 Zoning District, University Park Plaza Corporation, PennTerra Engineering, Inc. Engineer.</u>

The Final Plan proposed to demolish the existing structure that was formerly the PA Department of Health building and expand the parking lot for the Hamilton Square Shopping Center.

Mr. Francke's presentation included:

- There were not many changes from the Preliminary Plan.
- There were some parking stalls that were not permitted per ordinance so some of the existing stalls would remain.
- There would be restriping of the parking stalls and the stalls would be straight on instead of slanted parking due to the changes in the other parking areas.
- They were hoping to reseal from the parking entrance.

Boards' comments/questions included:

- Mr. Devon stated that he had reviewed the planting plan and noted that the Honey Locusts were remaining which had proven to do well there. He also noted that the English Yew was not a native plant, but he thought it would was a good choice. He stated that the

Summersweet was a nice choice because it was an indigenous shrub and it attracts birds and butterflies.

- Mr. Reinhardt inquired if the arborist had reviewed the planting plan. Ms. Messner responded that Mr. Sam had reviewed and approved it. Mr. Franke stated that Mr. Sam had only requested that the mature trees be protected during construction.
- Mr. Boeldt noted that there were not many bike racks at the property and that people just use the posts.
- Mr. Devon inquired if there were any further plans to upgrade the plaza. Mr. Franke stated that Bastian Tire façade would hopefully be done in 2016 and then they would be removing and repairing the parapet of the rest of the Center and echoing the design of Bastian.
- Mr. Boeldt inquired who were the tenants of the new section. Mr. Franke stated that some of them included Salon Beautiful, IQ Escape Room, and VK Financial Advisors.

A motion to approve this plan was made by Mr. Devon and seconded by Mr. Boeldt. The vote was unanimously in favor.

**Official Reports and Correspondence**

Borough Council (BC): Ms. Messner had been having work sessions to discuss the budget and there were several more upcoming meetings.

Planning Commission (PC): Ms. Messner reported that Planning Commission would be reviewing the same Final Plan for Hamilton Square Shopping Center later in the week. She stated that PC would also be discussing the Neighborhood Plan and the Downtown Master Plan. In addition, the Neighborhood Coalition would be attending the Planning Commission meeting to discuss how the Borough should be investing in the neighborhoods including using the Homestead Investment Program.

Ms. Messner noted that the she had items for each of the Design Review Board meetings that were scheduled to be held in December and she inquired if the Board would be available for both meetings. The Board members all answered that they were available for the dates.

Mr. Devon inquired if there were any patterns in what the neighborhood groups felt the Borough should be working on. Ms. Messner responded that there were some common themes, but some of them depended on the proximity to the downtown. She noted that rental properties in general were a concern and that there seemed to be an increase in rental properties some people were uninteresting in owning property in the Borough. Mr. Devon noted that some people could not afford to own properties. He also noted that it was not just students who caused problems in rental houses as he had previously had problems with professionals.

**Adjournment**

With no further business to discuss, Mr. Bryant adjourned the meeting at 10:16 a.m.

Respectfully submitted by:
Sarah E. Smith, Staff Assistant

# Meeting Minutes
# State College Borough
# Design Review Board and Historic Resources Commission
# November 9, 2016

The State College Borough Design Review Board (DRB) and the Historic Resources Commission (HRC) met for a joint meeting on Wednesday, November 9, 2016 in the State College Borough Municipal Building, 243 South Allen Street in Room 241. Ms. Messner called the meeting to order at 12:02 p.m.

## Members Present

Eric Boeldt, DRB Chair; Rick Bryant, HRC Chair; Richard Devon, Gary Patterson, Bond Reinhardt and Eric White

## Chair Reports

Chairman Boeldt had nothing to report.

Chairman Bryant had nothing to report.

## Public Hour

No one in the audience wished to discuss items not on the agenda.

Ms. Messner asked each of the members to introduce themselves and give a brief background.

## Community Planning

Overview of DRB and HRC Activities

Ms. Messner stated, earlier this year, Borough Council enacted an ordinance to combine the DRB and HRC.

Ms. Messner gave an overview of what the DRB's duties are:

- The DRB develops standards and policies for design for the entire community.
- They provide guidance of design to the Planning Commission (PC) and Borough Council (BC).
- They can have as many as five or ten plans per year to review and they are reviewed twice in the calendar year which is why there are two meetings per month.

Ms. Messner discussed the new project The Rise at corner of High Street and East College Avenue. She noted the DRB reviews the draft proposal for the façade and weighs in on materials and such then gives feedback to the developer.

Mr. Devon stated they review more than the façade such as street level views and landscaping and stormwater management.

Ms. Messner stated the group gives out an Ingrid P. Holtzman award every year. The DRB makes a recommendation to be forwarded to the Borough Manager. It is presented in a spring awards ceremony.

They also give a Focus on Appearance award focusing on a project within the community they feel needs recognized such as streetscape improvements, landscaping, improvements on sidewalks/crosswalks, etc.

Ms. Messner gave an overview of what the HRC's duties are:

- Ms. Messner stated the mission talks about historic inventory of properties.
- They develop information for the public, serve as a resource on historic preservation, serve as an advisory body, cooperate with to outside organizations for historic preservation initiatives, and assist DRB PC and BC when needed.
- She noted the PC could receive recommendations from DRB for review.
- She stated she is not anticipating that any items will be removed from either Work Plan.
- She noted each member will be contacted by someone in Administration to see if they want to continue their membership.

Ms. Messner discussed the HRC Annual Activities which included:

- The HRC reviews demolition in part or in whole of contributing buildings.
- The also work on preservation including the State of Preservation report that is updated every other year.
- Ms. Messner stated they are starting to work on developing a Historical Architectural Review Board (HARB) ordinance.
- She stated the HRC reports to BC and occasionally reviews land development plans.
- They review and approve house plaques requests.

Ms. Messner handed out a draft HARB for members to look over. She noted once the HARB is reviewed by the Pennsylvania Historic and Museum Commission (PHMC) then it would go to Council.

Mr. Devon asked what the importance a HARB would be to this newly combined board. Ms. Messner stated she wasn't sure.

Mr. Devon stated he thought that this board was being constructed because HRC was having trouble with keeping a quorum. He is confused as to why there is a new ordinance being proposed right at the same time as the merger.

Mr. Devon stated he thinks the DRB is being overtaken by the HRC.

Ms. Messner stated there is much discussion left regarding the HARB and there must be public participation. She noted it is a multi-step process.

Ms. Messner stated, at the time of the approval of the merger, there will be a six-month probationary period, so to speak.

Council will hear presentations from both chairs at their December 12 meeting.

She discussed College Heights and Holmes-Foster/Highlands historic district. She noted this does include the downtown.

She discussed the historic plaques. The owner requests it and it is reviewed by the DRB. Once approved the owner pays for it and then installs it.

Mr. Devon asked what the requirements are for changes in these districts. Ms. Messner stated our purview is the exterior only. She noted if they are adding or altering the exterior they must go through the HRC for review, one-time only. The owner may or may not take the suggestions of the HRC.

She also discussed the State of Preservation (SOP) and we track demolished homes. She noted there are a few outside the boundary and one crosses the boundary.

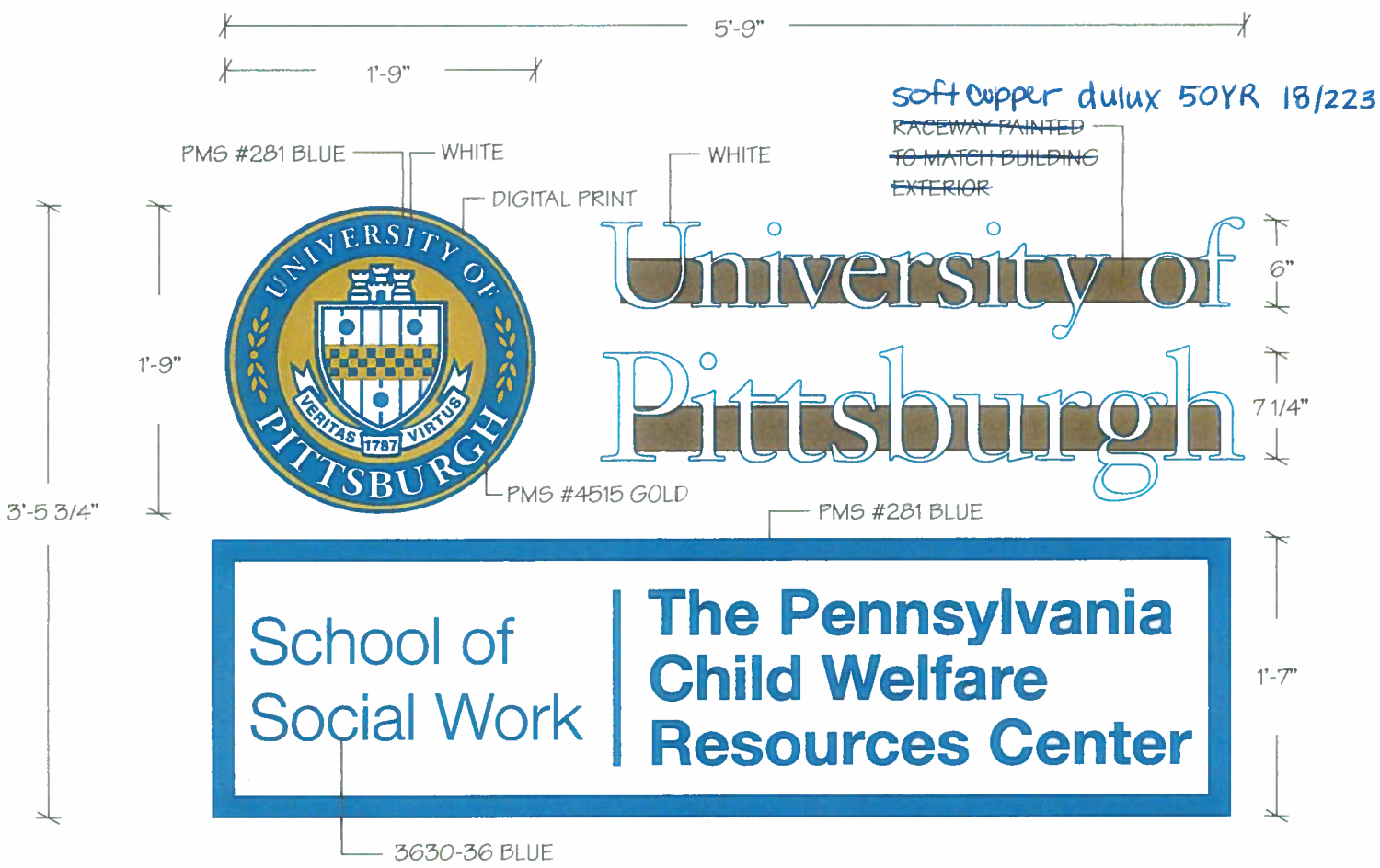
2017 Meeting Calendar

Ms. Messner presented a draft 2017 meeting calendar. She noted the proposed days and times are chosen to help land developers who are coming before the Planning Commission (PC) as well and takes into consideration those other meetings within surrounding municipalities.

A motion was made to accept this proposed calendar of meetings on the first and third Tuesdays of the month at 10 a.m. by Chairman Bryant and seconded by Mr. Devon. The vote was unanimously in favor.

**Adjournment**

With no further business to discuss, a motion was made to adjourn this meeting at 12:59 p.m. by Chairman Bryant and seconded by Mr. Reinhardt.




1'-9" DIAMETER INTERNALLY ILLUMINATED CHANNEL LOGO
WITH DIGITAL PRINT VINYL GRAPHICS
SET OF 6"H AND 7 1/4"H INDIVIDUALLY ILLUMINATED CHANNEL LETTERS
WITH BLUE TRIM CAP AND BLUE RETURNS TO MATCH PMS #281 BLUE
RACEWAY MOUNTED TO BUILDING EXTERIOR
1'-7"H X 5'-9"W SINGLE FACE INTERNALLY ILLUMINATED SIGN
FLAT WHITE ACRYLIC FACE WITH APPLIED VINYL GRAPHICS

TOTAL SQUARE FT. = 20.00

UNIVERSITY PARK PLAZA CORP
[HAMILTON SQUARE SHOPPING CENTER]
(STATE COLLEGE, PA)

NO. B-4317-16

DATE: 10-26-16

SCALE: 1" = 1'-0"

DRAWN BY: CK

REVISION: 11-10-16

FILE: UNIVERSITYPARK.PLT

CUSTOMER APPROVAL SIGNED: DATE:

UL LISTED
Location: #884808-001
File: #E155468
THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.

SEKULA SIGN corporation
811 South Brady Street
P.O. Box 395 DuBois, PA 15801
Phone: (814) 371-4650 Fax: (814) 371-8261
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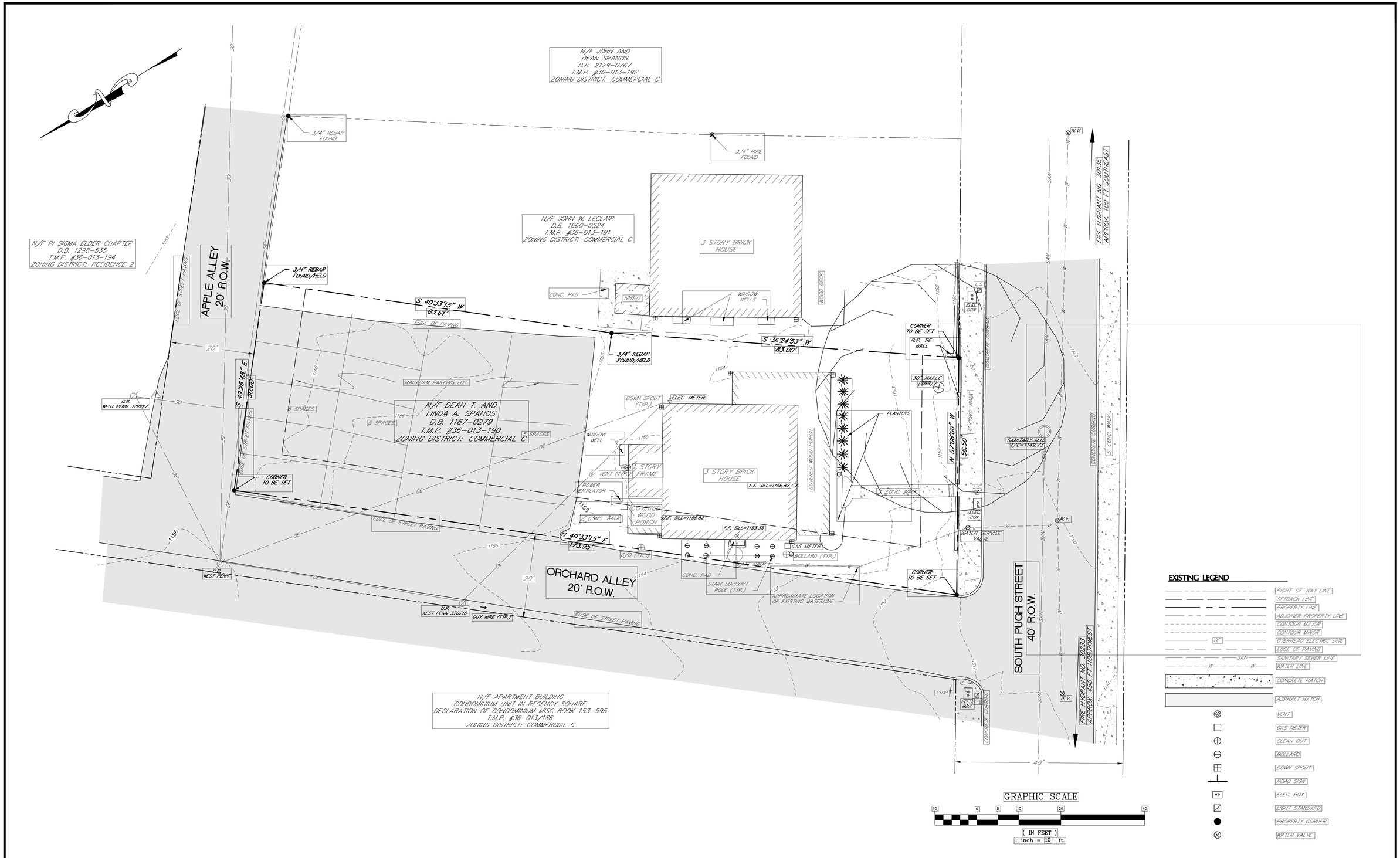
Aerial View of 243 South Pugh Street

243 South Pugh Street (Source: Google Maps)

243 South Pugh Street (Rear) (Source: Google Maps)

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| Date | Description | Chk. By | Rev. By |
|---|---|---|---|
| 8/31/16 | STATE COLLEGE BOROUGH COMMENTS | | |

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SHEET TITLE:

EXISTING CONDITIONS PLAN

PROJECT TITLE:

243 SOUTH PUGH STREET ADDITION

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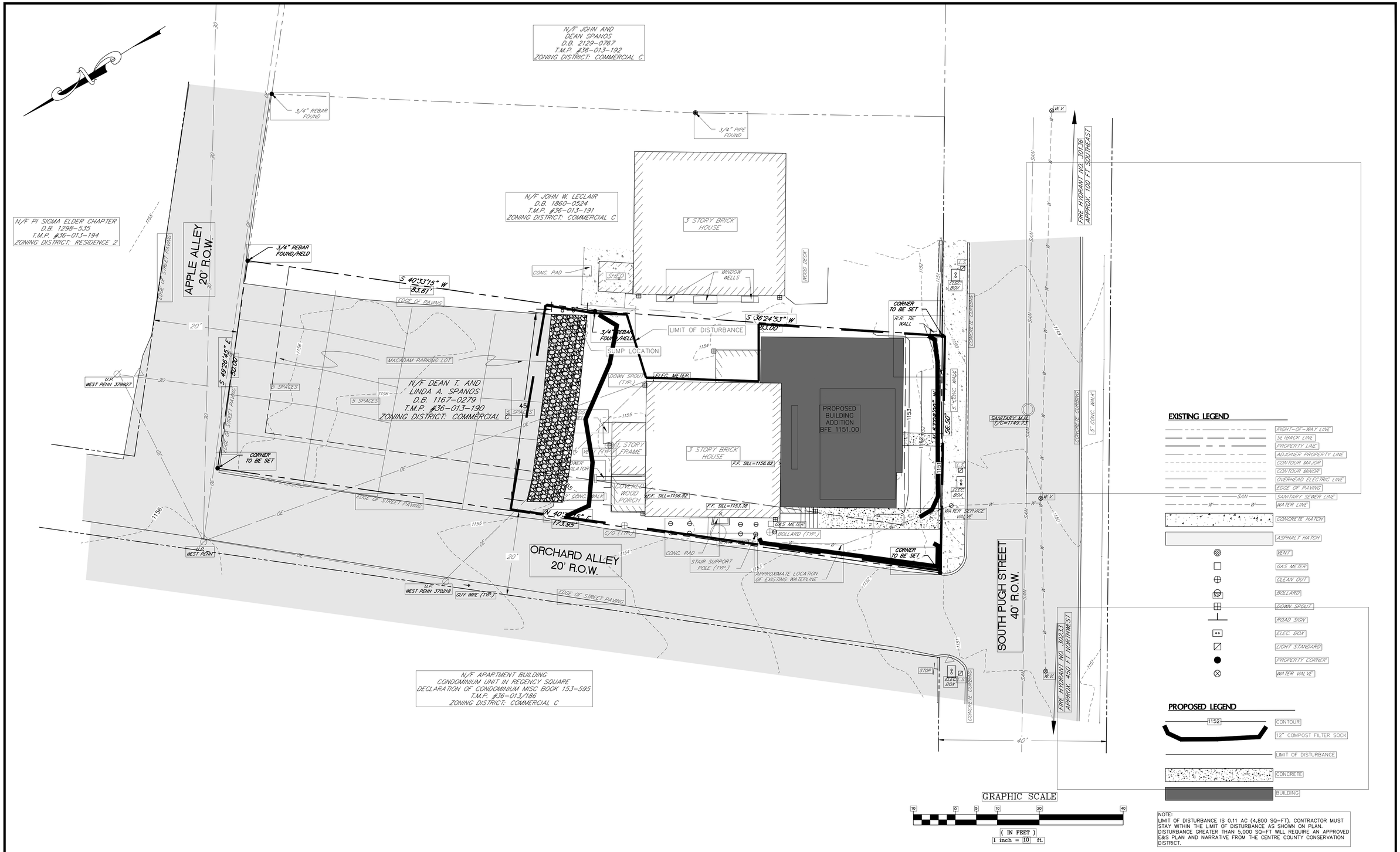
| | |
|---|---|
| CLIENT: | DEAN & LINDA SPANOS |
| SITE LOCATION: | STATE COLLEGE BOROUGH, CENTRE COUNTY |
| DRAWN BY: | CET |
| DESIGNED BY: | CET |
| CHECKED BY: | SMK |
| SCALE: | 1" = 10' |
| DATE: | 10/31/2016 |
| PROJECT NO. | 6267-A |
| DRAWING NO. | D-10767 |
| SHEET NO. | C2 |




NOTE:
LIMIT OF DISTURBANCE IS 0.11 AC (4,800 SQ-FT). CONTRACTOR MUST STAY WITHIN THE LIMIT OF DISTURBANCE AS SHOWN ON PLAN. DISTURBANCE GREATER THAN 5,000 SQ-FT WILL REQUIRE AN APPROVED E&S PLAN AND NARRATIVE FROM THE CENTRE COUNTY CONSERVATION DISTRICT.

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| Date | Description | Chk. By | Rev. By |
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| 8/31/16 | STATE COLLEGE BOROUGH COMMENTS | | |

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SHEET TITLE: E&S PLAN

PROJECT TITLE: 243 SOUTH PUGH STREET ADDITION

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| | |
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| CLIENT: | DEAN & LINDA SPANOS |
| SITE LOCATION: | STATE COLLEGE BOROUGH, CENTRE COUNTY |
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| DESIGNED BY: | CET |
| CHECKED BY: | SMK |
| SCALE: | 1" = 10' |
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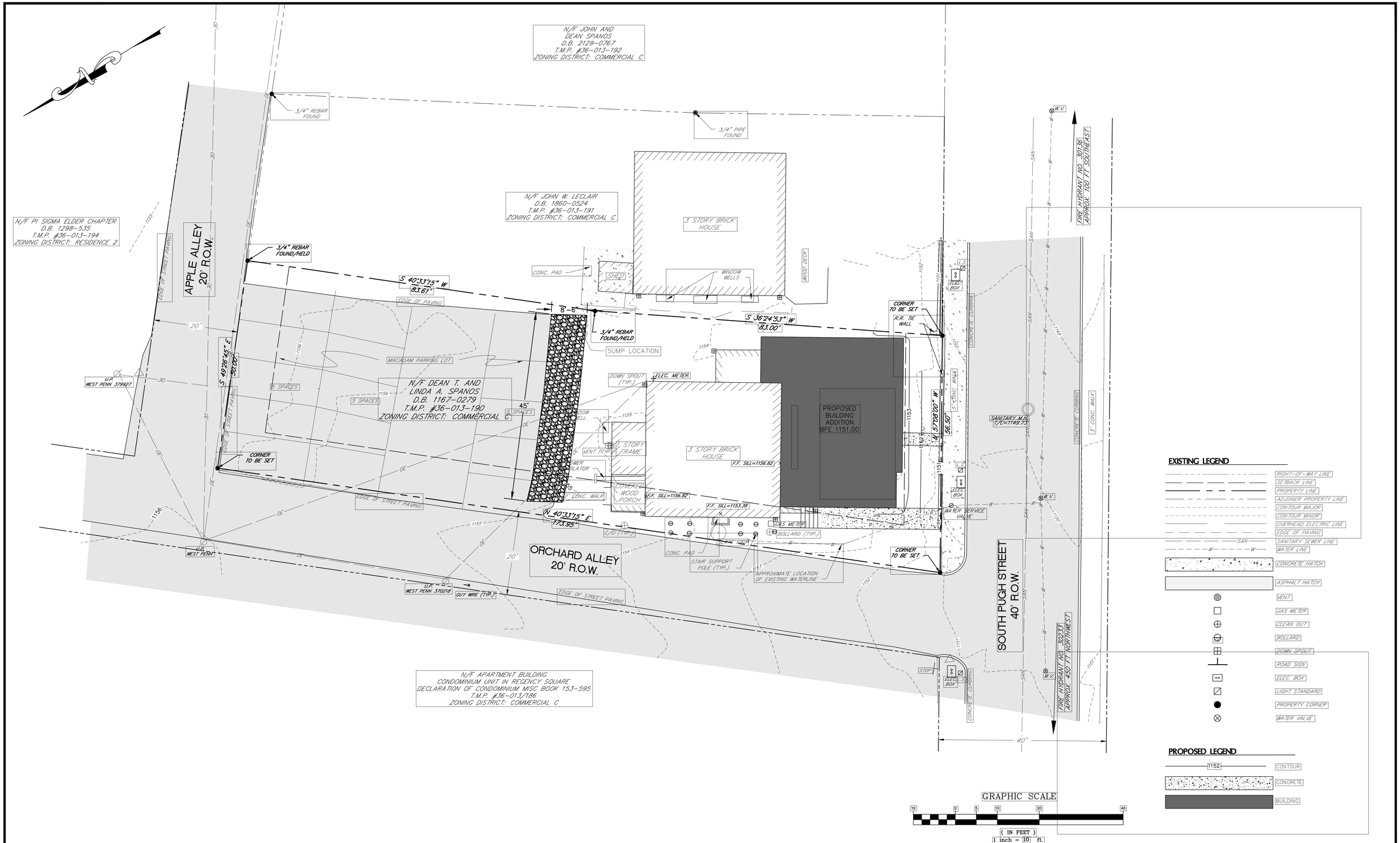
| PROJECT NO.: | 6267-A |
| DRAWING NO.: | D-10768 |
| SHEET NO.: | C3 |

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SHEET TITLE:
PROPOSED SITE & GRADING PLAN

PROJECT TITLE:
243 SOUTH PUGH STREET ADDITION

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| CLIENT: DEAN & LINDA SPANOS | SCALE: 1" = 10' |
| | DATE: 10/31/2016 |
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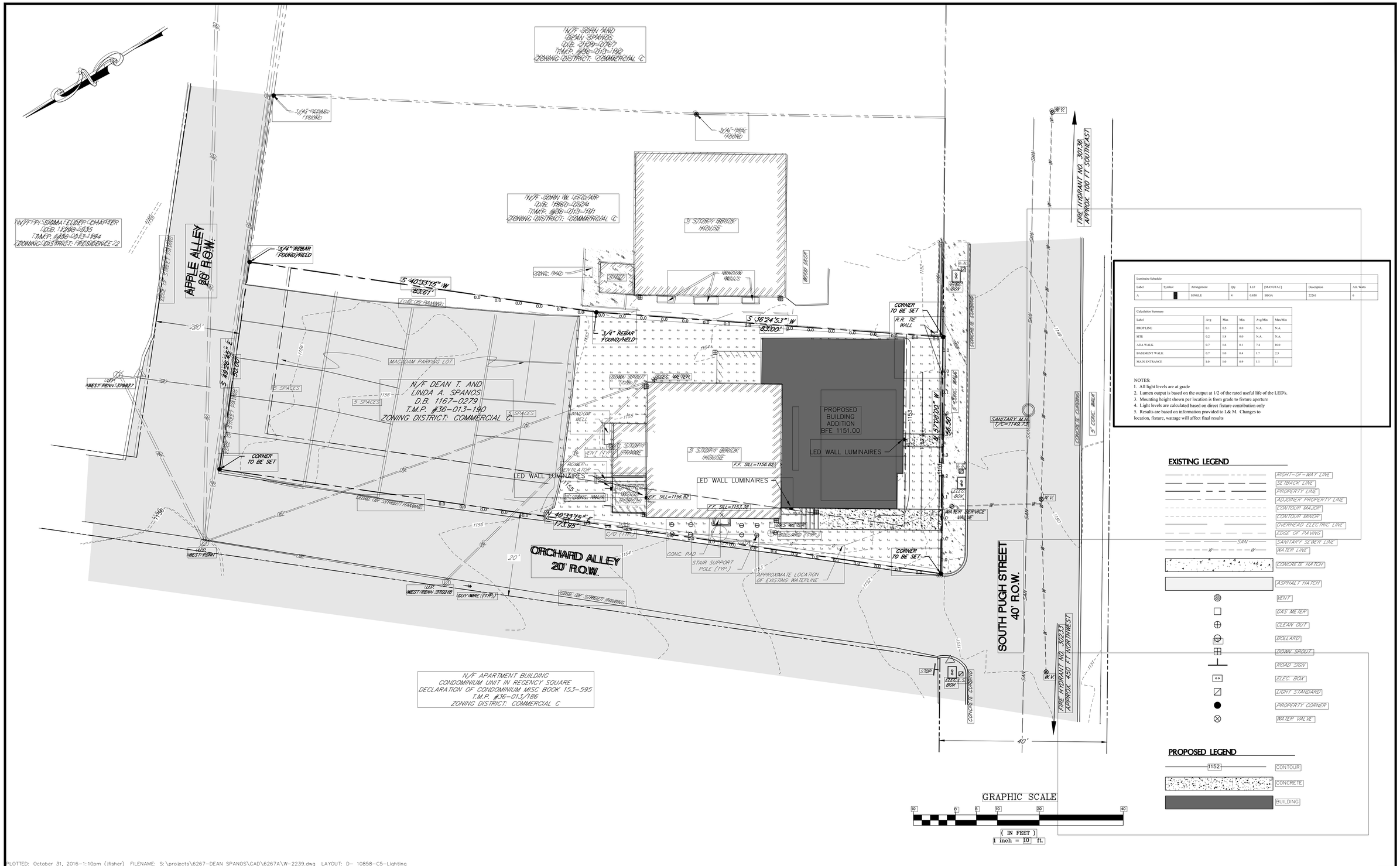
| DESIGNED BY: CET | |
| CHECKED BY: SMK | SHEET NO.: C4 |




| Luminaire Schedule | | | | | | | |
|---|---|---|---|---|---|---|---|
| Label | Symbol | Arrangement | Qty | LLF | [MANUFAC] | Description | Arr. Watts |
| A | | SINGLE | 4 | 0.930 | BEGA | 22261 | 6 |

| Calculation Summary | | | | | |
|---|---|---|---|---|---|
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| BASEMENT WALK | 0.7 | 1.0 | 0.4 | 1.7 | 2.5 |
| MAIN ENTRANCE | 1.0 | 1.0 | 0.9 | 1.1 | 1.1 |

NOTES:
1. All light levels are at grade
2. Lumen output is based on the output at 1/2 of the rated useful life of the LED's.
3. Mounting height shown per location is from grade to fixture aperture
4. Light levels are calculated based on direct fixture contribution only
5. Results are based on information provided to L& M. Changes to location, fixture, wattage will affect final results

## EXISTING LEGEND

- RIGHT-OF-WAY LINE
- SETBACK LINE
- PROPERTY LINE
- ADJOINER PROPERTY LINE
- CONTOUR MAJOR
- CONTOUR MINOR
- OVERHEAD ELECTRIC LINE
- EDGE OF PAVING
- SANITARY SEWER LINE
- WATER LINE
- CONCRETE HATCH
- ASPHALT HATCH
- VENT
- GAS METER
- CLEAN OUT
- BOLLARD
- DOWN SPOUT
- ROAD SIGN
- ELEC. BOX
- LIGHT STANDARD
- PROPERTY CORNER
- WATER VALVE

## PROPOSED LEGEND

- 1152 CONTOUR
- CONCRETE
- BUILDING

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| Date | Description | Chk. By | Rev. By |
|---|---|---|---|
| 8/31/16 | STATE COLLEGE BOROUGH COMMENTS | | |

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SHEET TITLE: LIGHTING PLAN

PROJECT TITLE: 243 SOUTH PUGH STREET ADDITION

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DESIGNED BY: CET
CHECKED BY: SMK
SCALE: 1" = 10'
DATE: 10/31/2016
PROJECT NO.: 6267-A
DRAWING NO.: D-10886
SHEET NO.: C5

S. PUGH STREET
**FRONT ELEVATION**
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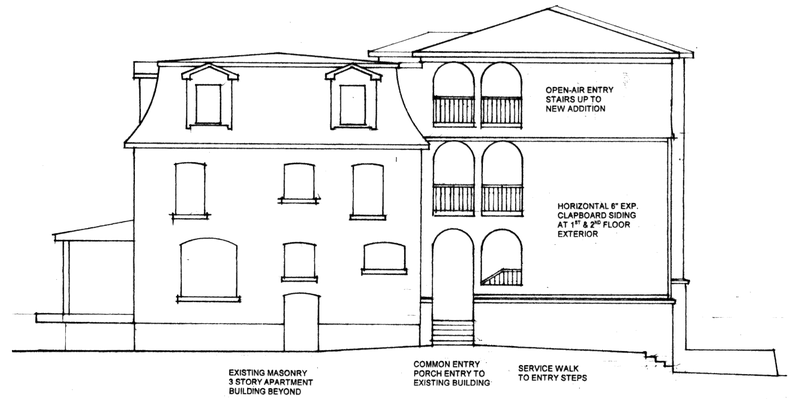


ORCHARD ALLEY
**LEFT END ELEVATION**
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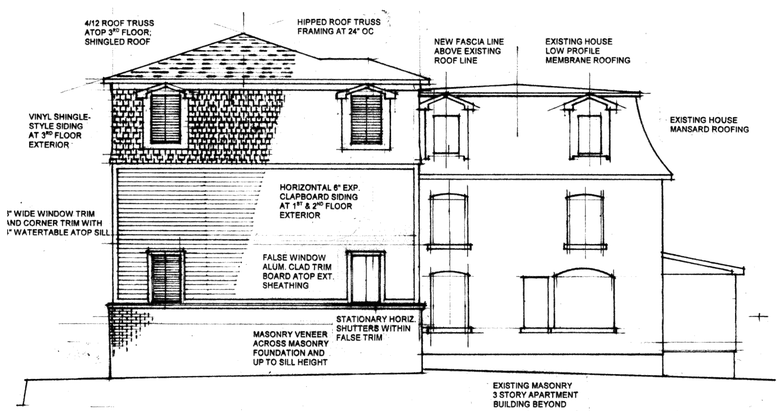


**RIGHT END ELEVATION**
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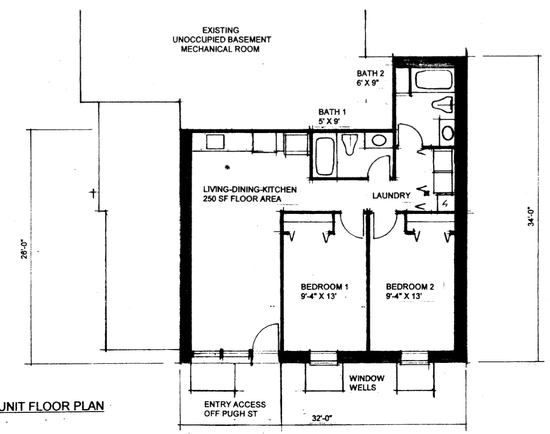
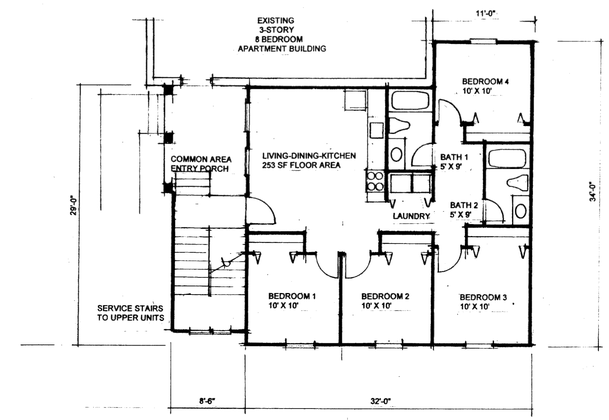
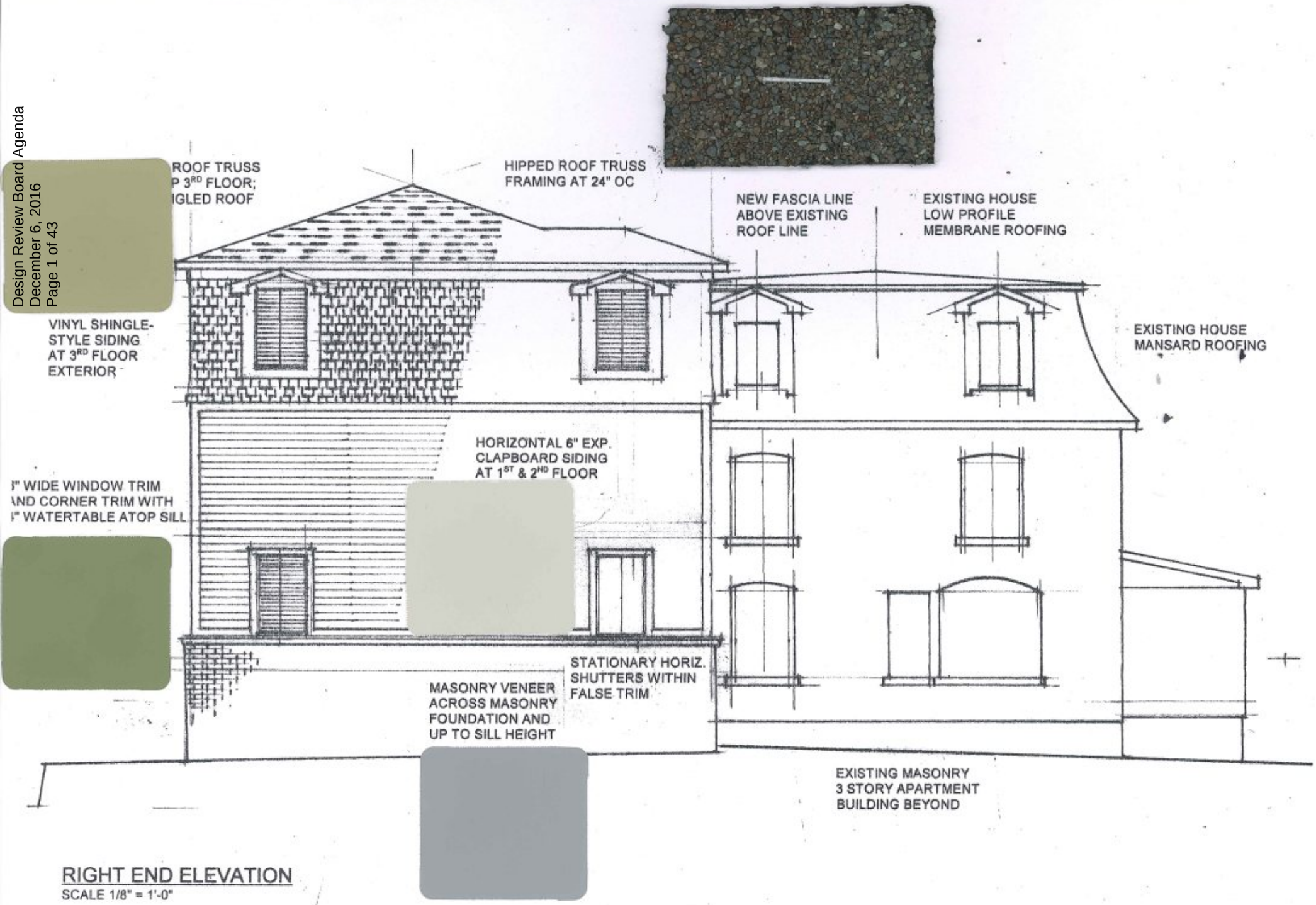


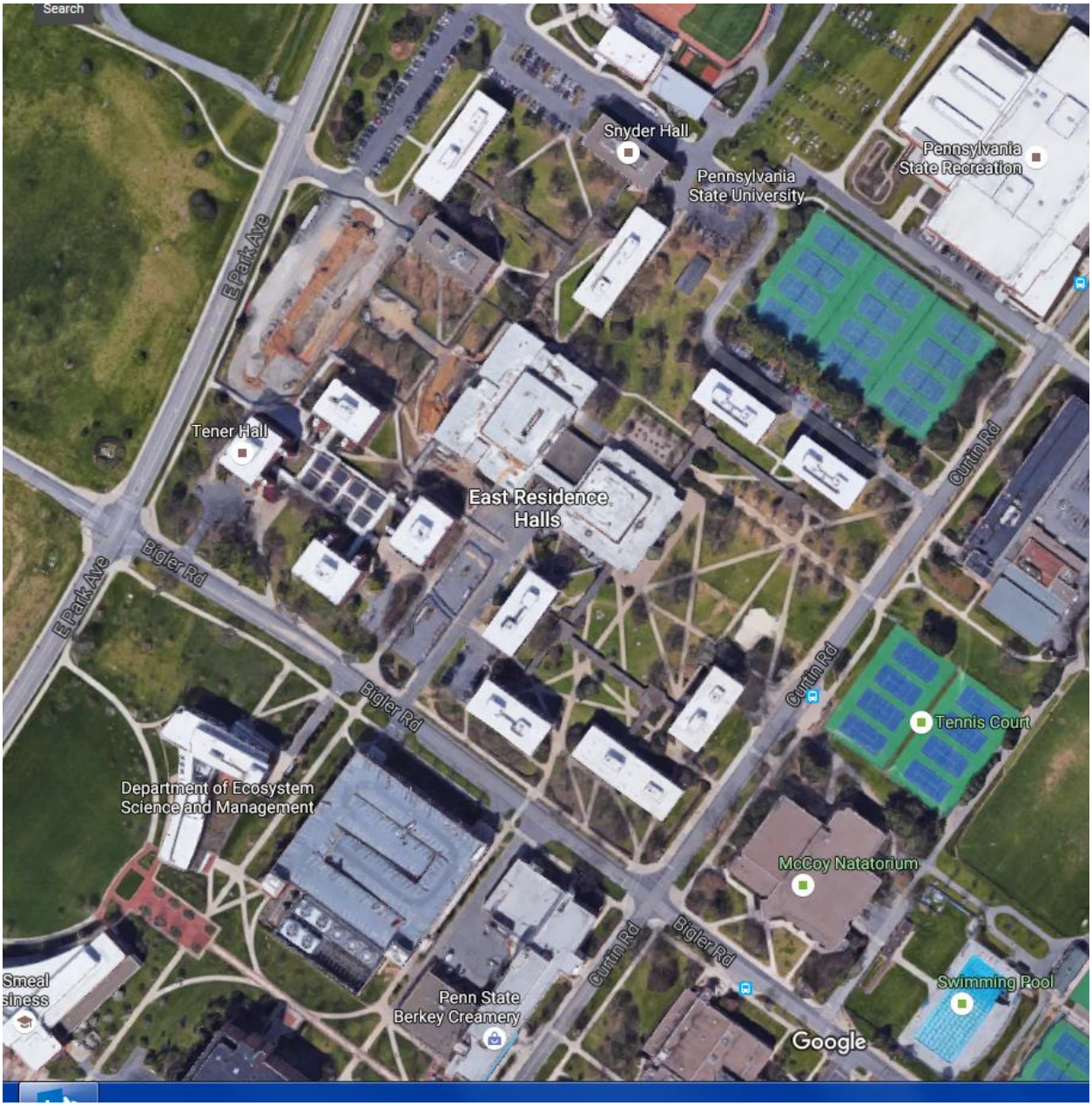

**BASEMENT UNIT FLOOR PLAN**
SCALE 1/8" = 1'-0"




**TYPICAL FLOOR PLAN**
FIRST, SECOND AND THIRD FLOORS
SCALE 1/8" = 1'-0"




RIGHT END ELEVATION
SCALE 1/8" = 1'-0"




Aerial View (Source: Google Maps)

LOW-RISE RESIDENCE HALL

MID-RISE RESIDENCE HALL

NEW RESIDENCE HALL

TOWER RESIDENCE HALL

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING
**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE interior design
**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
F: 412 921 4312

MACKEY MITCHELL ARCHITECTS
**DESIGN ARCHITECT**
900 SPRUCE STREET #500
ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

LAND DEVELOPMENT
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

RESIDENCE HALL PERSPECTIVES

SEAL

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

DATE: 11.07.16

PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**DLA Proj# 2014065**

SHEET #

LD-A000

PACKAGE: LD 11.07.16

1 NEW RESIDENCE HALL - NORTH ELEVATION
SCALE: 1/8" = 1'-0"

2 NEW RESIDENCE HALL - EAST ELEVATION
SCALE: 1/8" = 1'-0"

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING
**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
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ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

LAND DEVELOPMENT
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

NEW RESIDENCE HALL ELEVATIONS

SEAL

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

DATE: 11.07.16

PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**DLA Proj# 2014065**

SHEET #

LD-A200

PACKAGE: LD 11.07.16

1 NEW RESIDENCE HALL - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

2 NEW RESIDENCE HALL - WEST ELEVATION
SCALE: 1/8" = 1'-0"

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING
**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE interior design
**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
F: 412 921 4312

MACKEY MITCHELL ARCHITECTS
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900 SPRUCE STREET #500
ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

LAND DEVELOPMENT
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

NEW RESIDENCE HALL ELEVATIONS

SEAL

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

DATE: 11.07.16

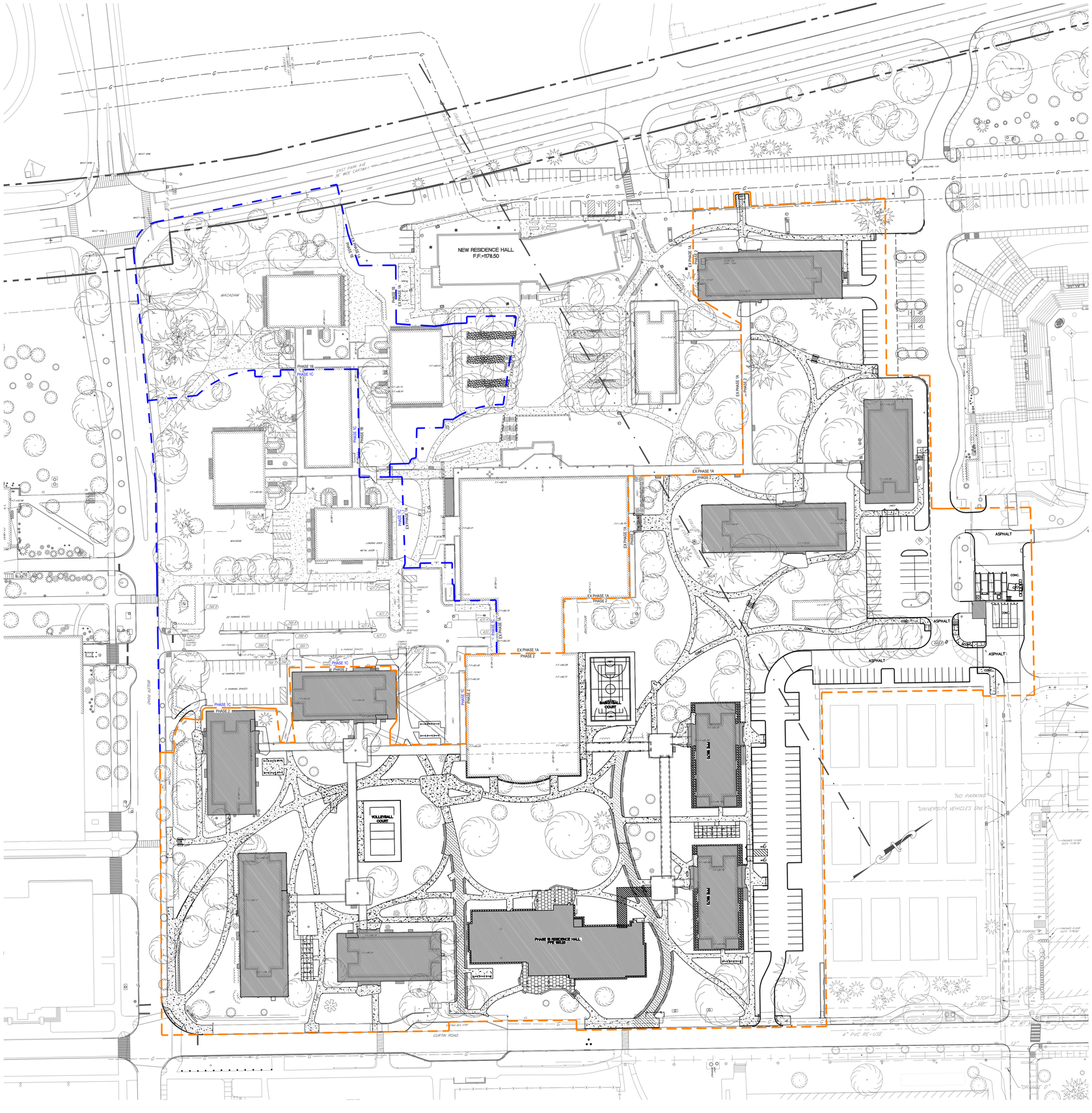
PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**DLA Proj# 2014065**

SHEET #

LD-A201

**PACKAGE: LD 11.07.16**




PHASING LINE LEGEND

PHASES 1B AND 1C

PHASE 2

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING

**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE interior design

**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
F: 412 921 4312

MACKEY MITCHELL ARCHITECTS

**DESIGN ARCHITECT**
900 SPRUCE STREET #500
ST. LOUIS, MO 63102
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F: 314 421 5206

SWEETLAND ENGINEERING & ASSOCIATES, INC.

**SWEETLAND ENGINEERING & ASSOC.**
CIVIL ENGINEER
600 SCIENCE PARK ROAD
STATE COLLEGE, PA 16803
P: 814 237 6518
F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

**SITE PHASING PLAN**

SEAL

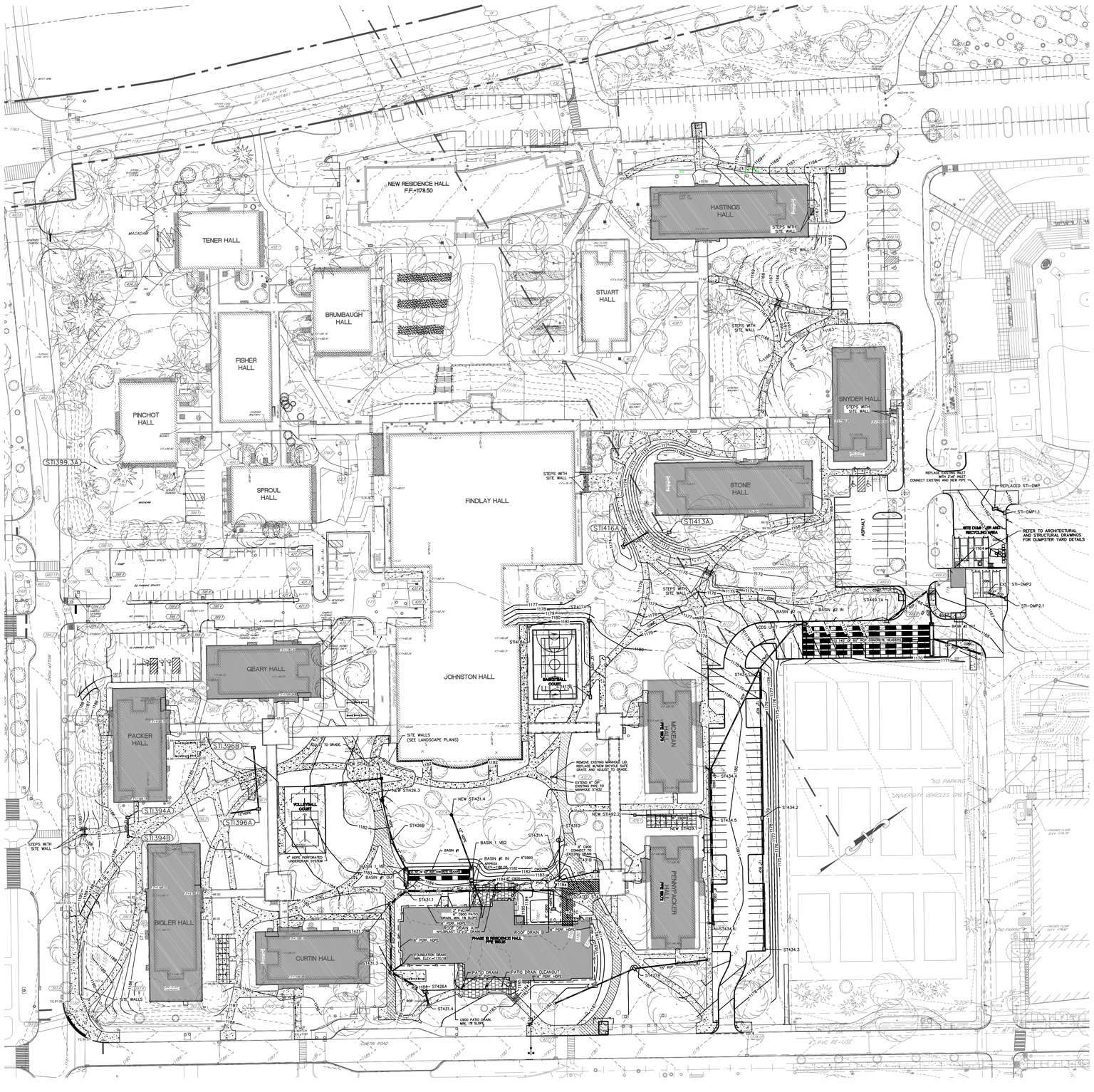
DATE: 11-07-16

PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #

LD4




## LEGEND

| | |
|---|---|
| ▬▬▬ | PROPOSED STORMWATER |
| (SD) | PROPOSED STORMWATER MANHOLE |
| ▩ | PROPOSED STORMWATER INLET |
| ○ C.O | PROPOSED CLEANOUT |
| ——— 1180 ——— | PROPOSED CONTOUR |
| - - - - 1179 - - - - | EXISTING CONTOUR |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING

**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
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DLA ARCHITECTURE interior design

**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
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P: 412 921 4300
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MACKEY MITCHELL ARCHITECTS

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CIVIL ENGINEER
600 SCIENCE PARK ROAD
STATE COLLEGE, PA 16803
P: 814 237 6518
F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

**SITE GRADING AND STORMWATER PLAN**

SEAL

DATE: 11-07-16

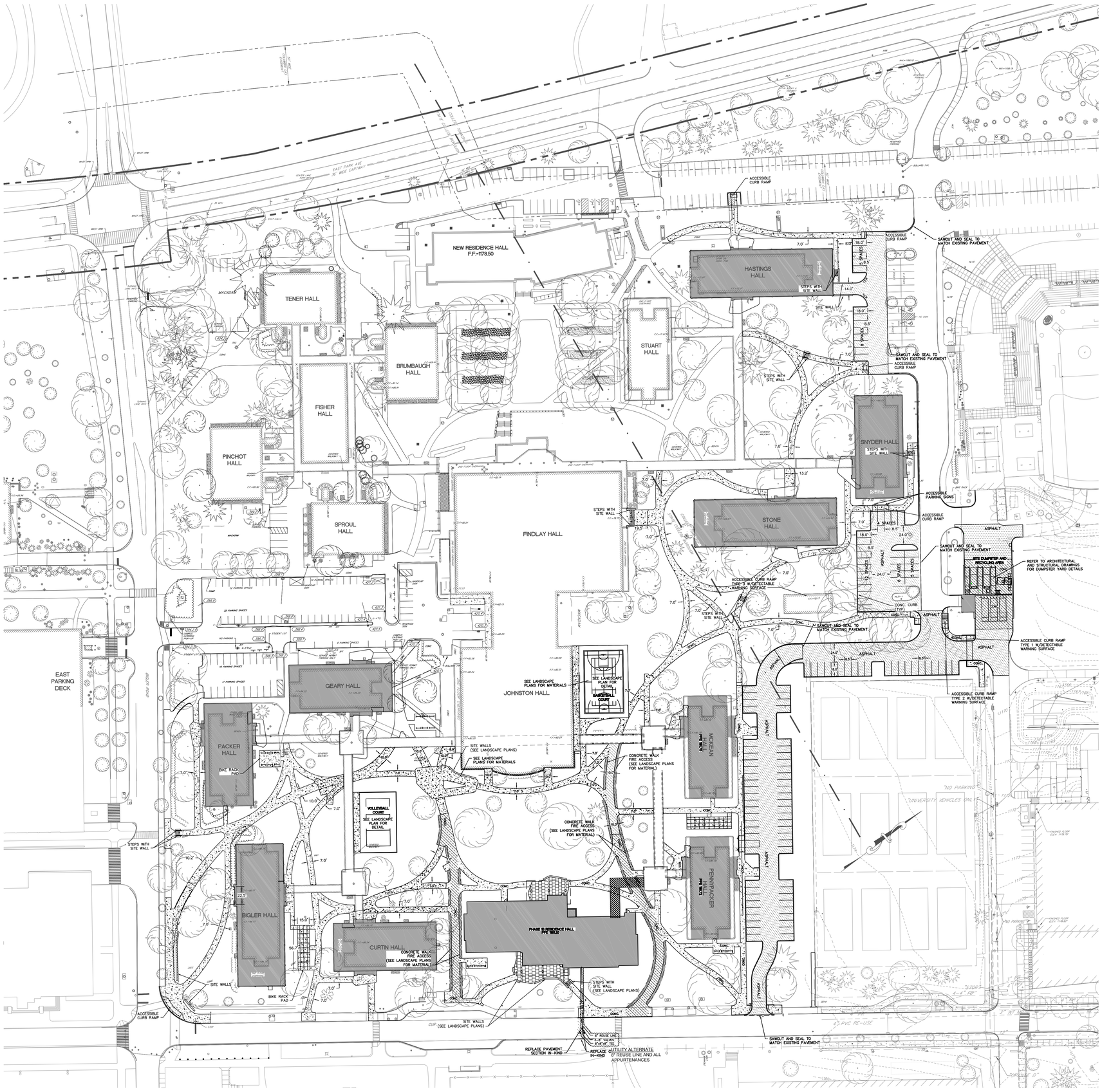
PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #

LD6

PLOTTED: November 04, 2016-8:44am (native) FILENAME: S:\projects\6028-East Halls Reno & New Residence Hall\CAD\6028K\W-2290_LD.dwg LAYOUT: LD6 E-6248 SITE GRADING




## LEGEND

- PROPOSED CONCRETE
- PROPOSED NEW RESIDENCE AND AREAS OF BUILDING RENOVATIONS
- NEW VEHICULAR CONCRETE
- STANDARD PAVEMENT

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING

**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE interior design

**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
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**DESIGN ARCHITECT**
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ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

SWEETLAND ENGINEERING & ASSOCIATES, INC.

**SWEETLAND ENGINEERING & ASSOC.**
CIVIL ENGINEER
600 SCIENCE PARK ROAD
STATE COLLEGE, PA 16803
P: 814 237 6518
F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

**SITE PLAN**

SEAL

DATE: 11-07-16

PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #

LD5

## LEGEND

| | |
|---|---|
| W | PROPOSED WATER LINE |
| G | PROPOSED GAS LINE |
| UE | PROPOSED UNDERGROUND ELECTRIC |
| UT | PROPOSED UNDERGROUND TELCOM |
| SAN | PROPOSED SANITARY LINE |
| LAT | PROPOSED SANITARY LATERAL |
| CWS | PROPOSED CHILLED WATER SERVICE |
| CWR | PROPOSED CHILLED WATER RETURN |
| | PROPOSED STORMWATER |
| 1180 | PROPOSED CONTOUR |
| 1179 | EXISTING CONTOUR |
| E | PROPOPSED ELECTRIC MANHOLE |
| S | PROPOSED SANITARY MANHOLE |
| D | PROPOSED STORMWATER MANHOLE |
| | PROPOSED STORMWATER INLET |

## EROSION CONTROL LEGEND

| | |
|---|---|
| CE | CONSTRUCTION ENTRANCE |
| | PROJECT BOUNDARY, NPDES PERMIT BOUNDARY, LIMIT OF DISTURBANCE |
| FS | 12" FILTER SOCK |
| IP | INLET PROTECTION |
| HuB / HaC | SOILS |
| | NPDES PERMIT BOUNDARY EAST HALLS RENOVATION AND ADDITION PERMIT NO. PAI041415017 |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING

**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
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P: 314 429 5100
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DLA ARCHITECTURE interior design

**ARCHITECT OF RECORD**
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MACKEY MITCHELL ARCHITECTS

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**SWEETLAND ENGINEERING & ASSOC.**
CIVIL ENGINEER
600 SCIENCE PARK ROAD
STATE COLLEGE, PA 16803
P: 814 237 6518
F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|
| | 10/31/16 | COCD COMMENTS |

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

**EROSION AND SEDIMENTATION CONTROL PLAN**

SEAL

DATE: 11-07-16

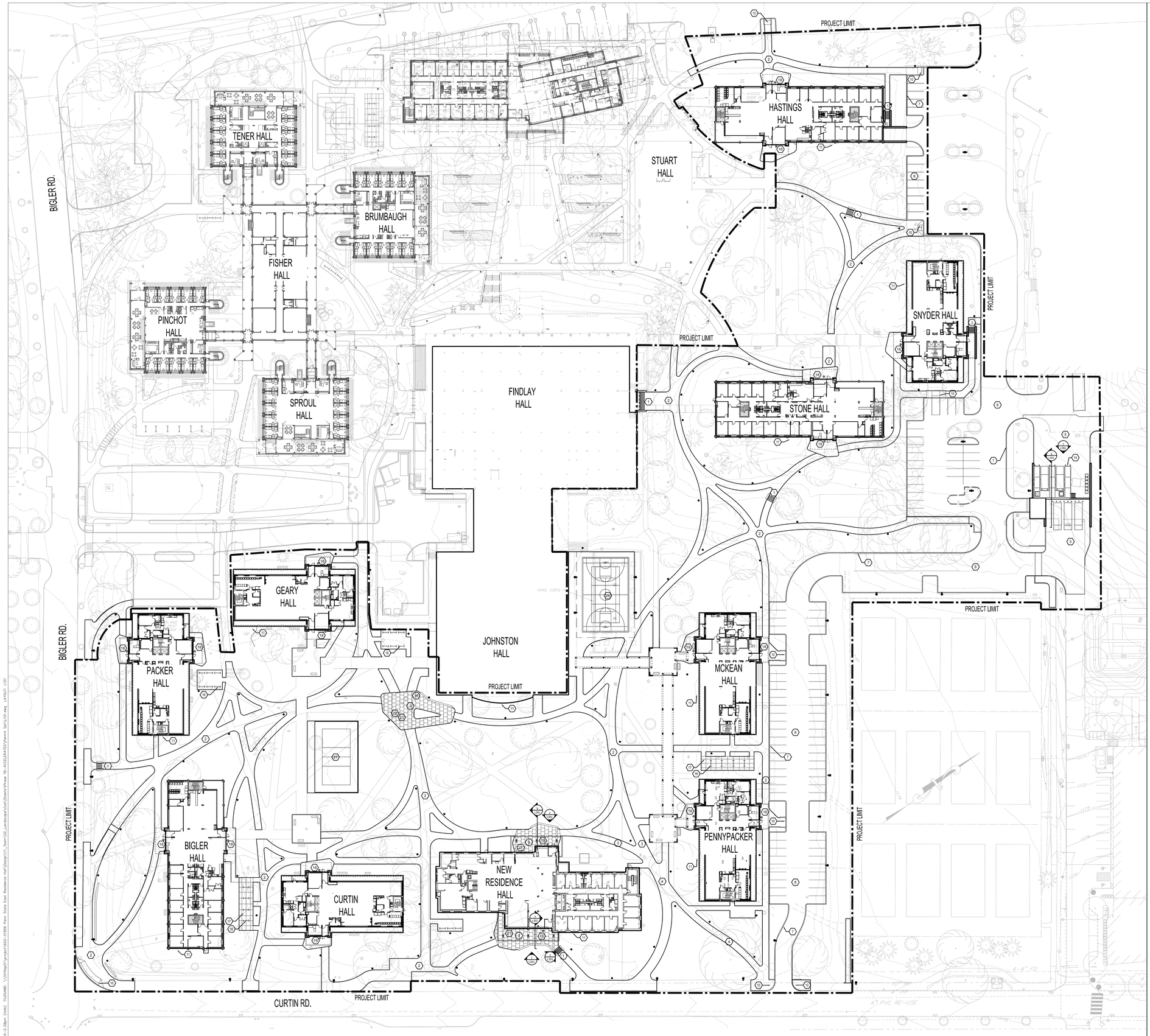
PROJECT #

**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #

ES2

E-5253




1 SITE LAYOUT PLAN
1" = 40'-0"

## GENERAL NOTES

1. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH ALL LAWS, CODE, ORDINANCES, RULES AND REGULATIONS OF ALL GOVERNING AGENCIES. OCCUPANTS ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY DURING CONSTRUCTION OF THE PROJECT.
2. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE LANDSCAPE ARCHITECT OF ANY AND ALL CONFLICTS WITH WORK RELATED TO THE HARDSCAPE AND LANDSCAPE FEATURES PRIOR TO INSTALLATION OF THE UTILITIES IN ORDER TO MAINTAIN THE HIGHEST LEVEL OF DESIGN INTENT OF THE HARDSCAPE AND LANDSCAPE FEATURES..
3. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT CONTRACT DOCUMENTS OR, WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES FOR SUCH PORTIONS OF THE WORK.
4. COORDINATE THE WORK WITH ALL REQUIREMENTS INDICATED IN THE PROJECT DOCUMENTS.
5. THE CONTRACTOR SHALL PROVIDE COMPLETE PROJECT SYSTEMS AND COMPONENTS AND COMPLY WITH ALL REQUIREMENTS INDICATED ON THE PROJECT DOCUMENTS.
6. THE CONTRACTOR SHALL COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS AND SYSTEMS PRESENT OR PROVIDED BY THE OWNER.
7. VERIFY LOCATIONS OF ALL BUILDINGS, WALLS, EXISTING STRUCTURES, PIPES, ELECTRICAL AND ALL ELEMENTS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND ENGINEERING DRAWINGS. INFORMATION IN LANDSCAPE ARCHITECTURE PACKAGE IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL AND ENGINEERING INFORMATION. ADDITIONAL UTILITIES AND SITE ELEMENTS MAY EXIST WHICH ARE NOT SHOWN HEREIN.
8. VERIFY LOCATION OF ALL ADJACENT AND BELOW-GRADE ELECTRICAL, PLUMBING, DATA, CONDUIT, PIPING, DRAINAGE STRUCTURES AND OTHER UTILITY CONNECTIONS WITH THE APPROPRIATE AS-BUILT OR ENGINEERING DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THIS VERIFICATION AND THE PROTECTION OF THESE ELEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE INCURRED DURING THE EXECUTION OF THE WORK.
9. THE CONTRACTOR SHALL HAVE ALL BELOW-GRADE UTILITY AND SLEEVING WORK INSPECTED AND APPROVED PRIOR TO BEGINNING HARDSCAPE LAYOUT/MARKING/STAKING AND CONSTRUCTION.
10. IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ANY SUBCONTRACTORS TO COORDINATE SERVICE ROUTING OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO WATER, GAS, TELEPHONE, ELECTRICAL, STORM, SEWER, AND IRRIGATION WITH THE OWNER AND TO AVOID CONFLICTS WITH HARDSCAPE AND LANDSCAPE FEATURES. ALL CONSTRUCTION MUST COMPLY WITH THE PROJECT SPECIFICATIONS AND NOT INTERFERE WITH BUILDING ELEMENTS TO BE PRESERVED.
11. ALL MATERIAL SHALL BE NEW, UNUSED AND TO THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED.
12. PERFORM THE WORK AT THE PROJECT SITE DURING HOURS SPECIFIED BY THE OWNER.
13. ANY DAMAGE INCURRED DURING THE EXECUTION OF CONSTRUCTION AND PLANTING TO EXISTING TREES OR STRUCTURES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ALL WALLS, PAVEMENTS, AND OTHER SURFACES PRIOR TO FINAL INSPECTION.
15. REFERENCE TO SCALE IS FOR FULL-SIZE DRAWINGS. DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE FROM DRAWINGS.
16. THE CONTRACTOR IS RESPONSIBLE FOR ACCURATE HORIZONTAL AND VERTICAL ALIGNMENT AND PREPARATION OF LAYOUT/MARKING/STAKING. THE CONTRACTOR IS REQUIRED TO PERFORM CONSTRUCTION LAYOUT/MARKING/STAKING AND SET ELEVATIONS FOR THE FORM WORK PRIOR TO INSPECTION BY THE ARCHITECT FOR APPROVAL.
17. ALL BUILDINGS, WALLS, COLUMNS, STRUCTURES, AND ANY VERTICAL ELEMENTS THAT ABUT CONCRETE PAVING ARE TO HAVE EXPANSION JOINT AS DETAILED HEREWITH.
18. ALL FORM WORK SHALL BE APPROVED FOR GEOMETRY AND GRADES BY THE ARCHITECT PRIOR TO INSTALLATION OF PAVEMENT, PLANTERS OR WALLS.
19. ALL ANGLES TO BE 90 DEGREES AND ALL LINES OF PAVING TO BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.
20. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEM SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION NOTES.
21. "SIMILAR" OR "SIM" INDICATES COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
22. "AS REQUIRED" INDICATES COMPONENTS REQUIRED TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS SHALL BE PROVIDED..
23. "ALIGN" INDICATES ACCURATELY PROVIDE FINISH OF FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS.
24. TAKE ALL DIMENSIONS FROM FACE OF FIXED OBJECTS, WALL, OR BUILDING OR TO CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED. ALL DIMENSIONS CALLED OUT AS "EQUAL" ARE EQUIDISTANT MEASUREMENTS TO DESIGNATED CENTERLINE(S).
25. ALL LANDSCAPE DIMENSIONS TAKEN TO CENTERLINE OF BUILDING COLUMN SHALL MEAN THE FIRST ROW OF COLUMNS CLOSEST TO THE FACE OF THE BUILDING. SEE ARCHITECTURAL AND AS-BUILT DRAWINGS FOR CORRESPONDING COLUMN LINES.
26. TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LIKE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE.
27. WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE ENGINEERING AND AS-BUILT DRAWINGS FOR COLUMN GRID, CENTERLINES, BUILDING FACES, AND BENCHMARKS.
28. SEE DRAWINGS FOR DIMENSION OF SITE ELEMENTS. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
29. IF DIMENSIONS VARY BY 1" OR MORE, CONTACT THE ARCHITECT FOR REVIEW AND CONFIRMATION PRIOR TO PROCEEDING WITH CONSTRUCTION.
30. FINISH ELEVATIONS ARE INDICATED TO THE FACE OF PAVEMENT OR FINISHED GRADE OF SOIL AS APPLICABLE, UNLESS OTHERWISE NOTED.
31. ALL NEW WORK TO MEET FLUSH WITH ALL EXISTING GRADES AND FINISH FLOOR ELEVATIONS AT DOORS, THRESHOLDS, STAIRWELLS, PAVEMENTS TO REMAIN, COLUMNS, AND BUILDING ELEMENTS EXCEPT AS NOTED HEREIN .
32. GRADES BETWEEN SPOT ELEVATIONS ARE INTENDED TO BE CONSTANT SLOPES.
33. NO FINISHED SLOPES SHALL BE LESS THAN ½ (HALF) PERCENT AND ALL SHALL HAVE A POSITIVE FLOW
34. THE CONTRACTOR SHALL PROVIDE PLANT MATERIAL QUANTITIES TO MATCH THE DRAWINGS AND TO PROVIDE TOTAL COVERAGE AT THE SPECIFIED SPACING.
35. THERE SHALL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT APPROVAL OF THE OWNER/ARCHITECT. THE OWNER/ARCHITECT ALONE SHALL DETERMINE EQUALITY BASED UPON COMPLETE INFORMATION SUBMITTED BY THE CONTRACTOR. SUBSTITUTIONS SHALL NOT BE MADE UNLESS DRAWINGS AND/OR WRITTEN REQUESTS ARE SUBMITTED TO THE OWNER/ARCHITECT FOR APPROVAL.

## SHEET NOTES

| ⬡ | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| 1. | CONCRETE STEPS | 14 | L401 |
| 2. | STANDARD CAMPUS CONCRETE WALK | 1 | L401 |
| 3. | CONCRETE WALK WITH SURFACE RETARDER | | |
| 4. | CAMPUS CONCRETE PAVEMENT OVER TREE ROOTS | 3 | L401 |
| 5. | HEAVY DUTY CONCRETE PAVEMENT | 8 | L401 |
| 6. | CONCRETE WALK OVER EXISTING TUNNEL | 6 | L401 |
| 7. | CONCRETE CURB | 10 | L401 |
| 8. | ASPHALT PAVEMENT | | |
| 9. | HEAVY DUTY ASPHALT PAVEMENT | | |
| 10. | CURB RAMP | 1,2,3,4 | L402 |
| 11. | GRAVEL MOW STRIP W/ METAL EDGING | 11,12 | L401 |
| 12. | STONE WALL - RETAINING | | |
| 13. | STONE WALL - FREESTANDING | | |
| 14. | GUARDRAIL | | |
| 15. | HANDRAIL | | |
| 16. | BICYCLE RACK | 5 | L403 |
| 17. | BICYCLE SHELTER | 9,10 | L403 |
| 18. | TRASH RECEPTACLE | | |
| 19. | QUARRY BLOCK BENCHES W/ CONCRETE FOOTING | | |
| 20. | QUARRY BLOCK BENCHES ON EXISTING SLAB | | |
| 21. | TABLE / CHAIRS - MOVEABLE | 7 | L403 |
| 22. | CHAIRS - MOVEABLE | | |
| 23. | SITE LIGHTING - VEHICULAR POLE | | |
| 24. | SITE LIGHTING - PEDESTRIAN POLE | | |
| 25. | SITE LIGHTING - BOLLARD | | |
| 26. | MULTI-SPORT COURT W/ 5" CONCRETE SLAB, 2 B-BALL HOOPS, EQUIPMENT | 11 | L403 |
| 27. | SAND VOLLEYBALL COURT W/ UNDER DRAINAGE, CONCRETE CURB WITH PROTECTION EDGE | 16, 17 | L402 |

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | BICYCLE RACK |
| | 15' PEDESTRIAN LIGHT POLE WITH FOOTING |
| | 30' ROADWAY LIGHT POLE WITH FOOTING |
| | TRASH RECEPTACLE |

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
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F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

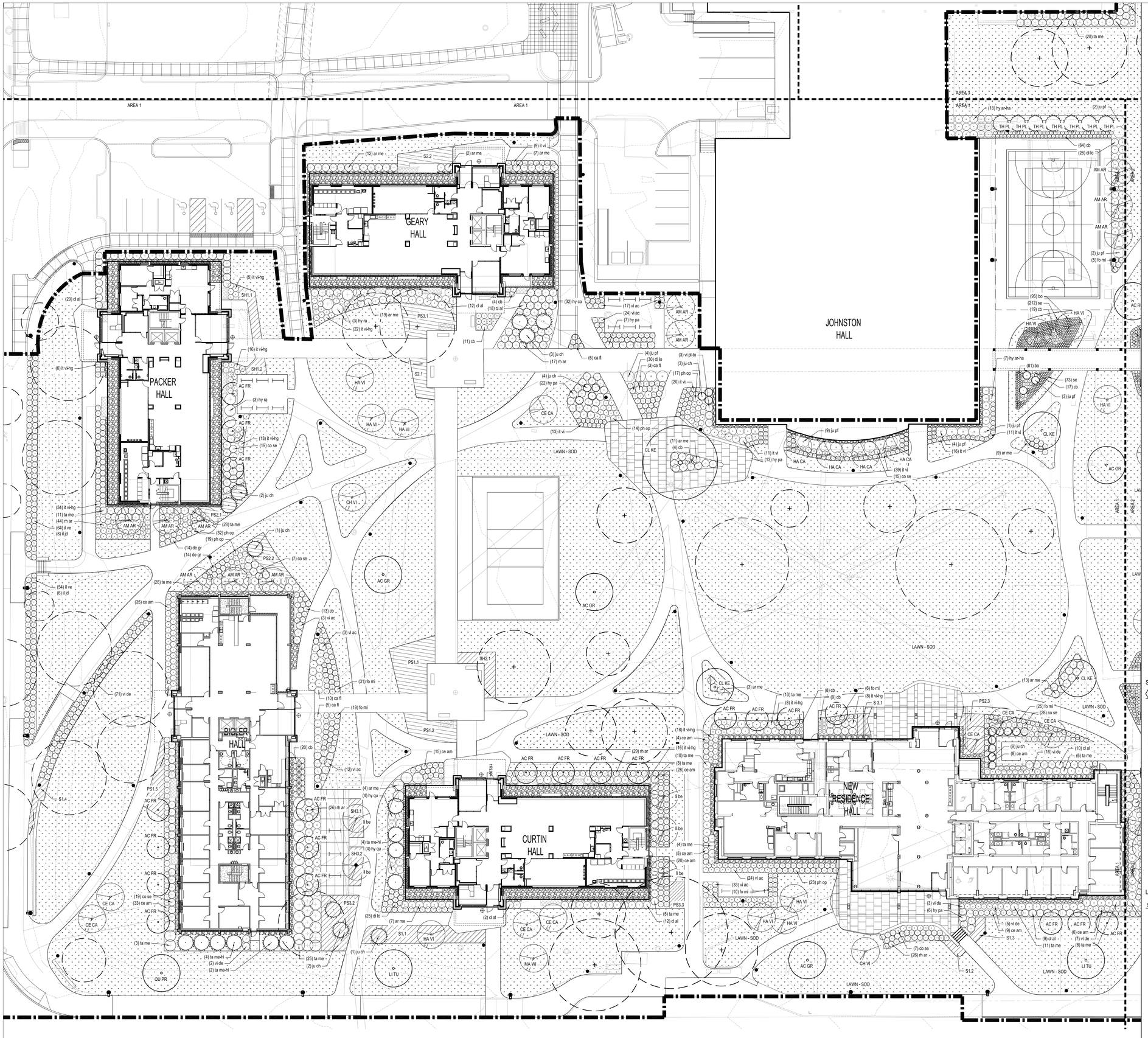
**SITE LAYOUT PLAN**

SEAL

DATE: 11-07-2016

PROJECT #
**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #
L101




1 PLANTING PLAN
1" = 20'-0"

0 10' 20' 40'

## SHEET NOTES

| | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| 1. | GRAVEL BED WITH METAL EDGING | 11/12 | L401 |
| 2. | SPADE CUT EDGE AT PLANTING BED | 9 | L701 |
| 3. | MIXED PLANTING ADJACENT NEW TREE | 10 | L701 |
| 4. | MIXED PLANTING ADJACENT EXISTING TREE | 11 | L701 |
| 5. | INTERMINGLED PERENNIAL/ GRASS/ BULB PLANTING | 12 | L701 |
| 6. | INTERMINGLED SHRUB/ PERENNIAL/ GRASS PLANTING | 13 | L701 |
| 7. | SHRUB PLANTING DEPTH ADJACENT TO EXISTING TREES | 14 | L701 |
| 8. | FIRE LANE | 13 | L401 |

## LEGEND

| SYMBOL | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| | ORNAMENTAL TREE | 1 | L701 |
| | EVERGREEN TREE | 2 | L701 |
| | CANOPY TREE | 1 | L701 |
| | EVERGREEN SHRUB | 5 | L701 |
| | DECIDUOUS SHRUB | 5 | L701 |
| | LAWN SOD | | |
| | MIXED PLANTING BED | | |

OWNER

PennState

DESIGN / BUILD TEAM

CLAYCO
THE ART & SCIENCE OF BUILDING
**DESIGN-BUILDER**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE INTERIOR DESIGN
**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
F: 412 921 4312

MACKEY MITCHELL ARCHITECTS
**DESIGN ARCHITECT**
900 SPRUCE STREET #500
ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

FORUM
**LANDSCAPE ARCHITECT**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**SITEWORK**
PENN STATE EAST HALLS - PHASE 1B
UNIVERSITY PARK, PA 16802

**PLANTNG PLAN AREA 1**

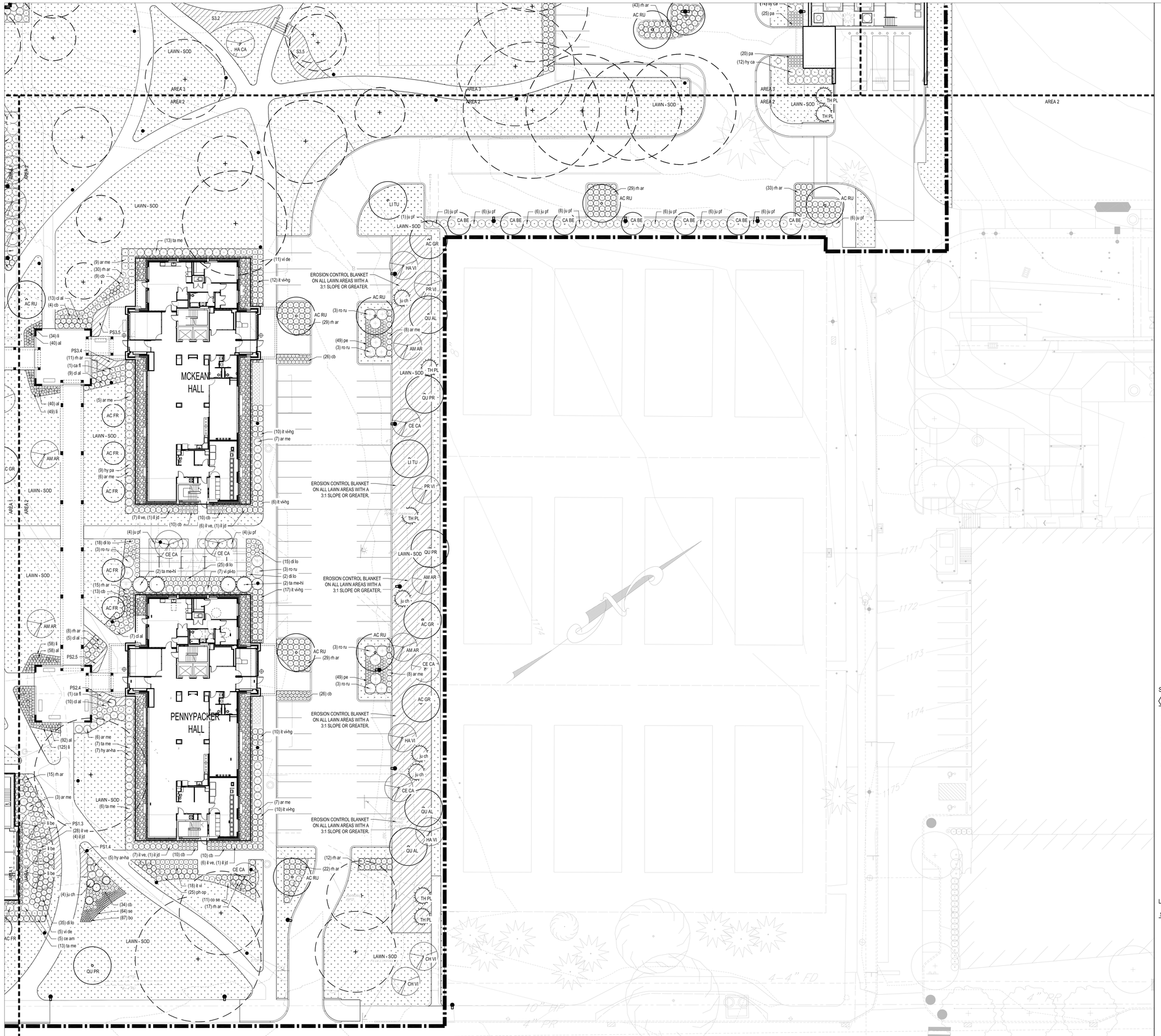
SEAL

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION
DATE: 0-00-0000

PROJECT #
**PSU# 00-04724.00**
**BLDG# 0000-0000**
**FORUM # 602-01856**

SHEET #
L601

50% CD SUBMISSION - 09-23-16




1 PLANTING PLAN
1" = 20'-0"

0 10' 20' 40'

SHEET NOTES

| | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| 1. | GRAVEL BED WITH METAL EDGING | 11/12 | L401 |
| 2. | SPADE CUT EDGE AT PLANTING BED | 9 | L701 |
| 3. | MIXED PLANTING ADJACENT NEW TREE | 10 | L701 |
| 4. | MIXED PLANTING ADJACENT EXISTING TREE | 11 | L701 |
| 5. | INTERMINGLED PERENNIAL/ GRASS/ BULB PLANTING | 12 | L701 |
| 6. | INTERMINGLED SHRUB/ PERENNIAL/ GRASS PLANTING | 13 | L701 |
| 7. | SHRUB PLANTING DEPTH ADJACENT TO EXISTING TREES | 14 | L701 |
| 8. | FIRE LANE | 13 | L401 |

LEGEND

| SYMBOL | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| | ORNAMENTAL TREE | 1 | L701 |
| | EVERGREEN TREE | 2 | L701 |
| | CANOPY TREE | 1 | L701 |
| | EVERGREEN SHRUB | 5 | L701 |
| | DECIDUOUS SHRUB | 5 | L701 |
| | LAWN SOD | | |
| | MIXED PLANTING BED | | |

OWNER
PennState

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P: 314 429 5100
F: 314 429 3137

DLA ARCHITECTURE INTERIOR DESIGN
**ARCHITECT OF RECORD**
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PITTSBURGH, PA 15220
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MACKEY MITCHELL ARCHITECTS
**DESIGN ARCHITECT**
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ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

FORUM
**LANDSCAPE ARCHITECT**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

| REV | DATE | DESCRIPTION |
|---|---|---|

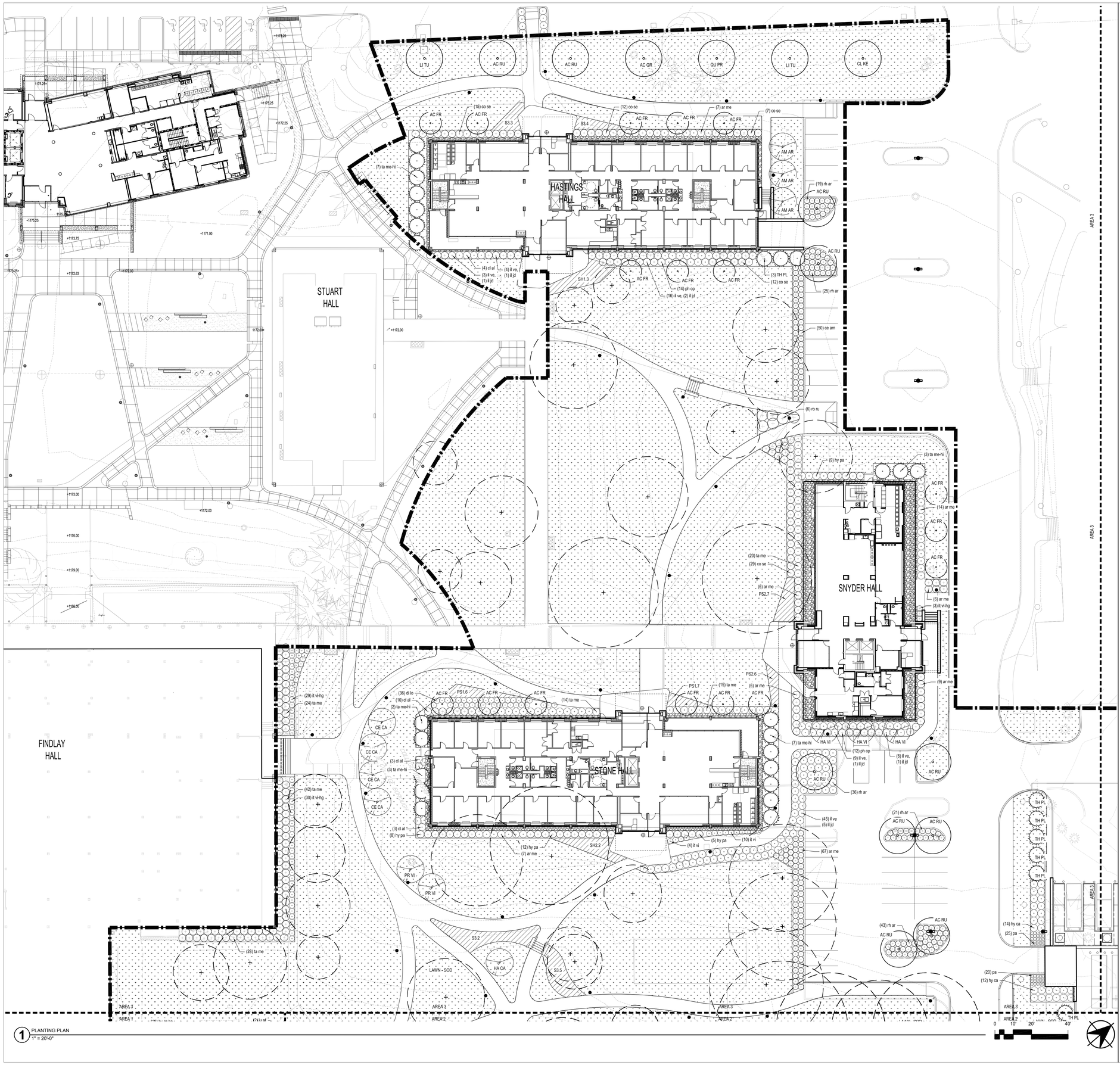
PROJECT & SHEET TITLE
**SITEWORK**
PENN STATE EAST HALLS - PHASE 1B
UNIVERSITY PARK, PA 16802
**PLANTNG PLAN AREA 2**

SEAL
PRELIMINARY DESIGN
NOT FOR CONSTRUCTION
DATE: 0-00-0000

PROJECT #
**PSU# 00-04724.00**
**BLDG# 0000-0000**
**FORUM # 602-01856**

SHEET #
L602

50% CD SUBMISSION - 09-23-16




1 PLANTING PLAN
1" = 20'-0"

SHEET NOTES

| | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| 1. | GRAVEL BED WITH METAL EDGING | 11/12 | L401 |
| 2. | SPADE CUT EDGE AT PLANTING BED | 9 | L701 |
| 3. | MIXED PLANTING ADJACENT NEW TREE | 10 | L701 |
| 4. | MIXED PLANTING ADJACENT EXISTING TREE | 11 | L701 |
| 5. | INTERMINGLED PERENNIAL/ GRASS/ BULB PLANTING | 12 | L701 |
| 6. | INTERMINGLED SHRUB/ PERENNIAL/ GRASS PLANTING | 13 | L701 |
| 7. | SHRUB PLANTING DEPTH ADJACENT TO EXISTING TREES | 14 | L701 |
| 8. | FIRE LANE | 13 | L401 |

LEGEND

| SYMBOL | DESCRIPTION | DETAIL(S) | SHEET |
|---|---|---|---|
| | ORNAMENTAL TREE | 1 | L701 |
| | EVERGREEN TREE | 2 | L701 |
| | CANOPY TREE | 1 | L701 |
| | EVERGREEN SHRUB | 5 | L701 |
| | DECIDUOUS SHRUB | 5 | L701 |
| | LAWN SOD | | |
| | MIXED PLANTING BED | | |

OWNER

PennState

DESIGN / BUILD TEAM

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**DESIGN-BUILDER**
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ST. LOUIS, MO 63114
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DLA ARCHITECTURE INTERIORS DESIGN
**ARCHITECT OF RECORD**
FOSTER PLAZA 9 #200
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PITTSBURGH, PA 15220
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MACKEY MITCHELL ARCHITECTS
**DESIGN ARCHITECT**
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F: 314 421 5206

FORUM
**LANDSCAPE ARCHITECT**
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**SITEWORK**
PENN STATE EAST HALLS - PHASE 1B
UNIVERSITY PARK, PA 16802

**PLANTNG PLAN AREA 3**

SEAL

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION
DATE: 0-00-0000

PROJECT #
**PSU# 00-04724.00**
**BLDG# 0000-0000**
**FORUM # 602-01856**

SHEET #
L603

50% CD SUBMISSION - 09-23-16

# PLANT SCHEDULE

## DECIDUOUS TREES

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | MATURE HEIGHT | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| AC FR | 43 | Acer x freemanii | Armstrong | Freeman Maple | 2.5" Cal. | B & B | 45' + | 1/L610 | |
| AC GR | 8 | Acer griseum | | Paperbark Maple | 2.5" Cal. | B & B | 20'-30' | 1/L610 | |
| AC RU | 18 | Acer rubrum | October Glory | Red Maple | 2.5" Cal. | B & B | 45'+ | 1/L610 | |
| CA BE | 7 | Carpinus betulus | Fastigiata | Columnar Hornbeam | 2.5" Cal. | B & B | 30' - 40' | 1/L610 | |
| CL KE | 5 | Cladrastis kentukea | | Yellowwood | 2.5" Cal. | B & B | 30' - 50' | 1/L610 | |
| LI TU | 6 | Liriodendron tulipifera | | Tulip Tree | 2.5" Cal. | B & B | 45'+ | 1/L610 | |
| QU AL | 3 | Quercus alba | | White Oak | 2.5" Cal. | B & B | 45'+ | 1/L610 | |
| QU PR | 5 | Quercus prinus | | Chestnut Oak | 2.5" Cal. | B & B | 45'+ | 1/L610 | |

## DECIDUOUS UNDERSTORY TREES

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | MATURE HEIGHT | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| AM AR | 19 | Amelanchier arborea | | Downy Serviceberry | 8-10' Ht. | B & B | 25' - 30' | 1/L610 | Multi-Stemmed, 3 stems |
| CE CA | 18 | Cercis canadensis | Hearts of Gold | Eastern Redbud | 2.5" Cal. | B & B | 20' - 30' | 1/L610 | Single Stem |
| CH VI | 4 | Chionanthus virginicus | | Fringetree | 2.5" Cal. | B & B | 12' - 20' | 1/L610 | |
| HA CA | 5 | Halesia carolina | | Carolina Silverbell | 2.5" Cal. | B & B | 15' - 25' | 1/L610 | |
| HA VI | 17 | Hamamelis virginiana | | Common Witchhazel | 8-10' Ht. | B & B | 15' - 25' | 1/L610 | Multi-Stemmed |
| MA WI | 1 | Malus | Winter Gold | Crabapple | 2.5" Cal. | B & B | 15' - 20' | 1/L610 | |
| PR VI | 4 | Prunus virginiana | Canada Red | Chokecherry | 2.5" Cal. | B & B | 20' - 30' | 1/L610 | |

## EVERGREEN TREES

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | MATURE HEIGHT | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| TH PL | 21 | Thuja plicata SPRING GROVE | Grovepli | Western Redcedar | 8-10' Ht. | B & B | 20'-30' | 2/L610 | |

## EVERGREEN SHRUBS

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| ju ch | 33 | Juniperus chinensis | Spartan | Chinese Juniper | 6-8' Ht. | Container | 48" O.C. | 5/L610 | |
| ju pf | 81 | Juniperus x pfitzeriana | Sea Green | Chinese Juniper | 24-30" Ht. | Container | 48" O.C. | 5/L610 | |
| ta me | 340 | Taxus media | Densiformis | Yew | 18-24" Ht. | Container | 48" O.C. | 5/L610 | |
| ta me-hi | 36 | Taxus media | Hicksii | Yew | 24-30" Ht. | Container | 48" O.C. | 5/L610 | |

## DECIDUOUS SHRUBS

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| ar me | 260 | Aronia melanocarpa | Morton 'IROQUOIS BEAUTY' | Black Chokeberry | 18-24" Ht. | Container | 48" O.C. | 5/L610 | |
| ca aa | 1 | Calycanthus floridus | Athens | Sweetshrub | 36-42" Ht. | Container | 8' O.C. | 5/L610 | |
| ca fl | 26 | Calycanthus floridus | Aphrodite | Sweetshrub | 18-24" Ht. | Container | 48" O.C. | 5/L610 | |
| ce am | 218 | Ceanothus americanus | | New Jersey Tea | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| cl al | 149 | Clethra alnifolia | Hummingbird | Sweet Pepperbush | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| co se | 181 | Cornus sericea | 'Farrow' Arctic Fire | Sweetshrub | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| de gr | 28 | Deutzia gracilis | Nikko | Dwark Nikko Deutzia | 12-18" Ht. | Container | 36" O.C. | 5/L610 | |
| di lo | 196 | Diervilla lonicera | Cooper | Low Bush-Honeysuckle | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| fo mi | 98 | Fothergilla minor | | Dwarf fothergilla | 18-24" Ht. | Container | 30" O.C. | 5/L610 | |
| hy ar-ha | 47 | Hydrangea arborescense | Hayes Starburst | Wild Hydrangea | 24-30" Ht. | Container | 36" O.C. | 5/L610 | |
| hy ca | 58 | Hypericum calycinum | | St. Johnswort | 12-18" Ht. | Container | 24" O.C. | 5/L610 | |
| hy pa | 86 | Hydrangea paniculata | Little Lime | Panicle Hydrangea | 24-30" Ht. | Container | 48" O.C. | 5/L610 | |
| hy qu | 8 | Hydrangea quercifolia | | Maple-Leaf Hydrangea | 24-30" Ht. | Container | 48" O.C. | 5/L610 | |
| hy ra | 6 | Hydrangea radiata PINKY WINKY | Samantha | Silver-Leaf Hydrangea | 24-30" Ht. | Container | 60" O.C. | 5/L610 | |
| il jd | 33 | Ilex verticillata | Jim Dandy | Winterberry | 18-24" Ht. | Container | 48" O.C. | 5/L610 | Provide 1 male per every 9 females in each grouping |
| il ve | 257 | Ilex verticillata | Berry Poppins | Winterberry | 18-24" Ht. | Container | 48" O.C. | 5/L610 | Provide 1 male per every 9 females in each grouping |
| it vi | 151 | Itea virginica | Little Henry | Virginia Sweetspire | 18-24" Ht. | Container | 30" O.C. | 5/L610 | |
| it vi-hg | 250 | Itea virginica | Henry's Garnet | Virginia Sweetspire | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| li be | 8 | Lindera benzoin | | Spicebush | 6' Ht. | Container | SEE PLAN | 5/L610 | |
| ph op | 163 | Physocarpus opulifolius | Little Devil | Ninebark | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| rh ar | 536 | Rhus aromatica | Gro-Low | Gro-Low Sumac | 12-18" Ht. | Container | 36" O.C. | 5/L610 | |
| ro ru | 24 | Rosa rugosa | Blanc double de Coubert | Rose | 24-36" Ht. | Container | 7' O.C. | 5/L610 | |
| vi ac | 116 | Viburnum acerifolium | | Mapleleaf Viburnum | 18-24" Ht. | Container | 36" O.C. | 5/L610 | |
| vi de | 131 | Viburnum dentatum | Christom Blue Muffin | Arrowwood Viburnum | 30-36" Ht. | Container | 36" O.C. | 5/L610 | |
| vi pl-to | 12 | Viburnum plicatum tomentosum | Summer Snowflake | Doublefile Viburnum | 24-30" Ht. | Container | 48" O.C. | 5/L610 | |

## ORNAMENTAL GRASSES & SEDGES

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| bo | 294 | Bouteloua gracilis | Blonde Ambition | Blue Grama | 1 Quart | Container | 12" O.C. | 6/L610 | |
| ca | 853 | Carex appalachica | | Appalachian Sedge | 1 Quart | Container | 12" O.C. | 6/L610 | |
| cb | 330 | Calamagrostis brachytricha | | Korean Feather Reed Grass | 1 Quart | Container | 36" O.C. | 6/L610 | |
| ce | 59 | Carex oshimensis | Everillo | Everillo Sedge | 1 Quart | Container | 24" O.C. | 6/L610 | |
| cf | 114 | Carex flacca | Blue Zinger | Glaucous Sedge | 1 Quart | Container | 18" O.C. | 6/L610 | |
| cp | 366 | Carex pensylvanica | | Pensylvania Sedge | 1 Quart | Container | 12" O.C. | 6/L610 | |
| cx | 7 | Calamagrostis x acutiflora | Karl foerster | Feather Reed Grass | 1 Quart | Container | 12" O.C. | 6/L610 | |
| de | 22 | Deschampsia cespitosa | Goldtau | Tufted Hairgrass | 1 Quart | Container | 12" O.C. | 6/L610 | |
| pa | 49 | Panicum virgatum | Northwind | Switch Grass | 1 Quart | Container | 30" O.C. | 6/L610 | |
| ph | 98 | Pennisetum alopecuroides | Hameln | Dwarf Fountain Grass | 1 Quart | Container | 18" O.C. | 6/L610 | |
| pv | 28 | Panicum virgatum | Sheandoah | Switch Grass | 1 Quart | Container | 18" O.C. | 6/L610 | |
| se | 1059 | Sesleria autumnalis | | Autumn Moor Grass | 1 Quart | Container | 12" O.C. | 6/L610 | |
| sp | 39 | Sporobolus heterolepis | | Prairie Dropseed | 1 Quart | Container | 24" O.C. | 6/L610 | |

## HERBACEOUS PERENNIALS (FORBS)

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| ac | 7 | Actea racemosa | | Black Cohosh | 1 Quart | Container | 36" O.C. | 6/L610 | |
| ae | 51 | Aster ericoides | Snow Flurry | Heath Aster | 1 Quart | Container | 18" O.C. | 6/L610 | |
| ag | 31 | Agastache | Blue Fortune | Giant Hyssop | 1 Quart | Container | 18" O.C. | 6/L610 | |
| ah | 41 | Amsonia hubrichtii | | Blue star | 1 Quart | Container | 24" O.C. | 6/L610 | |
| al | 250 | Allium anglosum | Summer Beauty | Ornamental Onion | 1 Quart | Container | 18" O.C. | 6/L610 | |
| am | 5 | Amsonia illustris | | Shining Blue Star | 1 Quart | Container | 24" O.C. | 6/L610 | |
| ao | 6 | Aster oblongifolius | | Aromatic Aster | 1 Quart | Container | 30" O.C. | 6/L610 | |
| ap | 27 | Astilbe chinensis var. taquetti | Purpurkerze | Chinese Astilbe | 1 Quart | Container | 24" O.C. | 6/L610 | |
| aq | 85 | Aquilegia canadensis | | Wild Columbine | 1 Quart | Container | 12" O.C. | 6/L610 | |
| at | 18 | Asclepias tuberosa | | Butterfly Weed | 1 Quart | Container | 18" O.C. | 6/L610 | |
| av | 19 | Anemone virginiana | | Tall Thimbleweed | 1 Quart | Container | 12" O.C. | 6/L610 | |
| ba | 6 | Baptisia | Purple Smoke | Wild Indigo | 1 Quart | Container | 36" O.C. | 6/L610 | |
| cl | 51 | Calamintha nepeta subsp. Nepeta | | Calamint | 1 Quart | Container | 18" O.C. | 6/L610 | |
| co | 27 | Coreopsis verticillata | Zagreb | Whorled Tickseed | 1 Quart | Container | 18" O.C. | 6/L610 | |
| ec | 49 | Echinacea purpurea | Kim's Knee High | Purple Coneflower | 1 Quart | Container | 18" O.C. | 6/L610 | |
| eb | 12 | Eupatorim maculatum | Bartered Bride | Purple Coneflower | 1 Quart | Container | 24" O.C. | 6/L610 | |
| eh | 60 | Euphorbia corollata | | Flowering Spurge | 1 Quart | Container | 12" O.C. | 6/L610 | |
| er | 37 | Erigeron pulchellus var. pulchellus | Lynnhaven Carpet | Robin's Plantain | 1 Quart | Container | 18" O.C. | 6/L610 | |
| eu | 30 | Eurybia divaricata | | White Wood Aster | 1 Quart | Container | 24" O.C. | 6/L610 | |
| ge | 92 | Geranium maculatum | | Spotted Geranium | 1 Quart | Container | 12" O.C. | 6/L610 | |
| hh | 8 | Hemerocallis | Happy Returns | Daylily | 1 Quart | Container | 18" O.C. | 6/L610 | |
| ho | 16 | Hosta | Guacomole | Plantain Lily | 1 Quart | Container | 48" O.C. | 6/L610 | |
| hv | 158 | Heuchera villosa | Autumn Bride | Hairy Alumroot | 1 Quart | Container | 30" O.C. | 6/L610 | |
| li | 266 | Liriope muscari | | Lily Turf | 1 Quart | Container | 18" O.C. | 6/L610 | |
| me | 27 | Mertensia virginica* | | Virginia Bluebells | 1 Quart | Container | 12" O.C. | 6/L610 | |
| mo | 36 | Monarda bradburiana | | Bee balm | 1 Quart | Container | 18" O.C. | 6/L610 | |
| ne | 21 | Nepeta racemosa | Cat's Meow | Catmint | 1 Quart | Container | 18" O.C. | 6/L610 | |
| pd | 32 | Penstemon digitalis | Husker Red | Beardtongue | 1 Quart | Container | 18" O.C. | 6/L610 | |
| pe | 12 | Perovskia atriplicifolia | Little Spire | Russian Sage | 1 Quart | Container | 24" O.C. | 6/L610 | |
| po | 66 | Polygonatum biflorum | | Solomon's seal | 1 Quart | Container | 12" O.C. | 6/L610 | |
| py | 23 | Pycanthemum tenuifolium | | Slender Mountain Mint | 1 Quart | Container | 24" O.C. | 6/L610 | |
| ru | 35 | Rudbeckia subtomentosa | | Sweet Black-eyed Susan | 1 Quart | Container | 18" O.C. | 6/L610 | |
| sa | 28 | Salvia nemorosa | Blauhugel | Salvia | 1 Quart | Container | 18" O.C. | 6/L610 | |
| sg | 105 | Spigelia marilandica | | Indian Pink | 1 Quart | Container | 12" O.C. | 6/L610 | |
| si | 62 | Scutelleria incana | | Hoary Skullcap | 1 Quart | Container | 18" O.C. | 6/L610 | |
| sm | 21 | Smilacina racemosa | | Falso Solomon's Seal | 1 Quart | Container | 18" O.C. | 6/L610 | |
| so | 124 | Solidago flexicaulis | | Zig Zag Goldenrod | 1 Quart | Container | 24" O.C. | 6/L610 | |
| sr | 12 | Solidago rugosa | Fireworks | Rough-leaved Goldenrod | 1 Quart | Container | 30" O.C. | 6/L610 | |
| st | 13 | Stachys officinalis | Hummelo | Betony | 1 Quart | Container | 18" O.C. | 6/L610 | |
| sv | 318 | Senecio obovatus | | Round-leaved Ragwort | 1 Quart | Container | 12" O.C. | 6/L610 | |
| zi | 39 | Zizia aurea | | Golden Alexander | 1 Quart | Container | 18" O.C. | 6/L610 | |

## GROUNDCOVER

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| aa | 62 | Asarum canadense | | Wild Ginger | 1 Quart | Container | 12" O.C. | 6/L610 | |
| ep | 28 | Epimedium x versicolor | Sulphureum | Bishop's Hat | 1 Quart | Container | 12" O.C. | 6/L610 | |
| mc | 21 | Meehania cordata | | Meehan's Mint | 1 Quart | Container | 12" O.C. | 6/L610 | |

## FERNS

| SYM | QTY | BOTANICAL NAME | CULTIVAR | COMMON NAME | SIZE | METHOD | SPACING | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| dr | 20 | Dryopteris marginalis | | Evergreen Shield Fern | 1 Quart | Container | 18" O.C. | 6/L610 | |

*Refer to Planting Plan for Location. Provide 2 bulbs per symbol. All plantings to be installed in a random, naturalistic pattern. Install bulbs at a rate of 5 or 7 per grouping. Mix three bulb types randomly yet equally throughout the designated area to be planted.

### S1

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Baptisia 'Purple Smoke' | Panicum Virgatum 'Northwind' | Fothergilla 'Mt. Airy' | | | Nepeta faassenii 'Cat's Meow' | Echinacea purpurea 'Kim's Knee High' | Agastache 'Blue Fortune' | Allium anglosum 'Summer Beauty' | Calamintha nepeta subsp. Nepeta | Sesleria autumnalis | Carex flacca 'Blue Zinger' | | | | Coreopsis verticillata 'Zagreb' | | | | |
| Flowering / Interest | | SP-SU | SU-W | SP | | | SP-SU | SU | SU-F | SU | SU-F | SP-W | SU-FA | | | | SU-F | | | | |
| % Mix by Plant | | 45% | 30% | 25% | | | 20% | 25% | 15% | 25% | 15% | 70% | 30% | | | | 100% | | | | |
| Spacing | | 36 | 36 | 48 | | | 18 | 18 | 24 | 12 | 18 | 12 | 18 | | | | 18 | | | | |
| # / SF | | 0.11 | 0.11 | 0.06 | #N/A | #N/A | 0.44 | 0.44 | 0.25 | 1 | 0.44 | 1 | 0.44 | #N/A | #N/A | #N/A | 0.44 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| S1.1 | 562 | 4 | 3 | 1 | - | - | 15 | 19 | 6 | 42 | 11 | 197 | 37 | - | - | - | 12 | - | - | - | - |
| S1.2 | 52 | 0 | 0 | 0 | - | - | 1 | 2 | 1 | 4 | 1 | 18 | 3 | - | - | - | 1 | - | - | - | - |
| S1.3 | 71 | 1 | 0 | 0 | - | - | 2 | 2 | 1 | 5 | 1 | 25 | 5 | - | - | - | 2 | - | - | - | - |
| S1.4 | 117 | 1 | 1 | 0 | - | - | 3 | 4 | 1 | 9 | 2 | 41 | 8 | - | - | - | 3 | - | - | - | - |
| TOTAL | | Baptisia 'Purple Smoke' | Panicum Virgatum 'Northwind' | Fothergilla 'Mt. Airy' | 0 | 0 | Nepeta faassenii 'Cat's Meow' | Echinacea purpurea 'Kim's Knee High' | Agastache 'Blue Fortune' | Allium anglosum 'Summer Beauty' | Calamintha nepeta subsp. Nepeta | Sesleria autumnalis | Carex flacca 'Blue Zinger' | 0 | 0 | 0 | Coreopsis verticillata 'Zagreb' | 0 | 0 | 0 | 0 |
| | | 6 | 4 | 2 | 0 | 0 | 21 | 26 | 9 | 60 | 16 | 281 | 53 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 |

### S2

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Calamagrostis 'Karl Foerster' | Calycanthus floridus 'Athens' | Viburnum plicatum 'Summer Snowflake' | | | Monarda bradburiana | Amsonia illustrus | Stachys officinalis 'Hummelo' | Hemerocalis 'Happy Returns' | Aster oblongifolium 'October Skies' | Sesleria autumnalis | Carex flacca 'Blue Zinger' | | | | Coreopsis verticillata 'Zagreb' | | | | |
| Flowering / Interest | | SP-W | SU-F | SP | | | SP | SP | SU | SU | F | SP-W | SU-FA | | | | SU-F | | | | |
| % Mix by Plant | | 45% | 25% | 30% | | | 25% | 15% | 25% | 15% | 20% | 70% | 30% | | | | 100% | | | | |
| Spacing | | 24 | 60 | 36 | | | 18 | 24 | 18 | 18 | 24 | 18 | 18 | | | | 18 | | | | |
| # / SF | | 0.25 | 0.04 | 0.11 | #N/A | #N/A | 0.44 | 0.25 | 0.44 | 0.44 | 0.25 | 0.44 | 0.44 | #N/A | #N/A | #N/A | 0.44 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| S2.1 | 188 | 3 | 0 | 1 | - | - | 6 | 2 | 6 | 4 | 3 | 29 | 12 | - | - | - | 4 | - | - | - | - |
| S2.2 | 220 | 4 | 0 | 1 | - | - | 7 | 2 | 7 | 4 | 3 | 34 | 14 | - | - | - | 5 | - | - | - | - |
| TOTAL | | Calamagrostis 'Karl Foerster' | Calycanthus floridus 'Athens' | Viburnum plicatum 'Summer Snowflake' | 0 | 0 | Monarda bradburiana | Amsonia illustrus | Stachys officinalis 'Hummelo' | Hemerocalis 'Happy Returns' | Aster oblongifolium 'October Skies' | Sesleria autumnalis | Carex flacca 'Blue Zinger' | 0 | 0 | 0 | Coreopsis verticillata 'Zagreb' | 0 | 0 | 0 | 0 |
| | | 7 | 1 | 2 | 0 | 0 | 13 | 5 | 13 | 8 | 6 | 63 | 27 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |

### S3

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Bouteloua gracilis 'Blonde Ambition' | Panicum 'Shenandoah' | Physocarpus 'Summer Wine' | | | Salvia nemorosa 'Blauhugel (Blue Hill)' | Rudbeckia subtomentosa | Perovskia atriplicifolia 'Little Spire' | Calamintha nepeta subsp. Nepeta | Solidago rugosa 'Fireworks' | Sporobolus heterolepis | Sesleria autumnalis | | | | Aquilegia canadensis | | | | |
| Flowering / Interest | | SU-FA | SU-FA | SP | | | SP | SU | SU-F | SU-F | LSU-F | SU-FA | SP-W | | | | SP-SU | | | | |
| % Mix by Plant | | 20% | 40% | 40% | | | 20% | 25% | 15% | 25% | 15% | 30% | 70% | | | | 100% | | | | |
| Spacing | | 12 | 18 | 36 | | | 18 | 18 | 24 | 18 | 30 | 24 | 12 | | | | 18 | | | | |
| # / SF | | 1 | 0.44 | 0.11 | #N/A | #N/A | 0.44 | 0.44 | 0.25 | 0.44 | 0.16 | 0.25 | 1 | #N/A | #N/A | #N/A | 0.44 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| S3.1 | 69 | 2 | 2 | 0 | - | - | 2 | 2 | 1 | 2 | 0 | 3 | 24 | - | - | - | 2 | - | - | - | - |
| S3.2 | 430 | 13 | 11 | 3 | - | - | 11 | 14 | 5 | 14 | 3 | 16 | 150 | - | - | - | 9 | - | - | - | - |
| S3.3 | 134 | 4 | 4 | 1 | - | - | 4 | 4 | 2 | 4 | 1 | 5 | 47 | - | - | - | 3 | - | - | - | - |
| S3.4 | 124 | 4 | 3 | 1 | - | - | 3 | 4 | 1 | 4 | 1 | 5 | 43 | - | - | - | 3 | - | - | - | - |
| S3.5 | 289 | 9 | 8 | 2 | - | - | 8 | 10 | 3 | 10 | 2 | 11 | 101 | - | - | - | 6 | - | - | - | - |
| TOTAL | | Bouteloua gracilis 'Blonde Ambition' | Panicum 'Shenandoah' | Physocarpus 'Summer Wine' | 0 | 0 | Salvia nemorosa 'Blauhugel (Blue Hill)' | Rudbeckia subtomentosa | Perovskia atriplicifolia 'Little Spire' | Calamintha nepeta subsp. Nepeta | Solidago rugosa 'Fireworks' | Sporobolus heterolepis | Sesleria autumnalis | 0 | 0 | 0 | Aquilegia canadensis | 0 | 0 | 0 | 0 |
| | | 31 | 28 | 7 | 0 | 0 | 28 | 35 | 12 | 35 | 8 | 39 | 366 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 |

### PS1

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Viburnum dentatum 'Blue Muffin' | Calamagrostis brachytricha | Eupatorium maculatum 'Bartered Bride' | | | Monarda bradburiana | Amsonia hubrichtii | Echinacea purpurea 'Kim's Knee High' | Pycnanthemum tenuifolium | Solidago flexicaulis | Carex appalachia | Carex pennsylvanica | Carex flacca 'Blue Zinger' | Heuchera villosa 'Autumn Bride' | Aster ericoides 'Snow Flurry' | Aquilegia canadensis | | | | |
| Flowering / Interest | | SP-FA | SP-FA | SU-W | | | SP | SP | SU | SU | LSU-F | SP-FA | SP-FA | SP-FA | LSU-FA | FA | SP-SU | | | | |
| % Mix by Plant | | 45% | 35% | 20% | | | 20% | 20% | 25% | 20% | 15% | 40% | 15% | 10% | 20% | 15% | 100% | | | | |
| Spacing | | 48 | 36 | 24 | | | 18 | 24 | 18 | 18 | 12 | 12 | 12 | 18 | 18 | 18 | 18 | | | | |
| # / SF | | 0.06 | 0.11 | 0.25 | #N/A | #N/A | #REF! | 0.44 | #REF! | 0.25 | 1 | 1 | 1 | 0.44 | 0.44 | 0.44 | 0.44 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| PS1.1 | 548 | 2 | 3 | 4 | - | - | - | 14 | - | 8 | 25 | 110 | 41 | 12 | 24 | 18 | 12 | - | - | - | - |
| PS1.2 | 326 | 1 | 2 | 2 | - | - | - | 9 | - | 5 | 15 | 65 | 24 | 7 | 14 | 11 | 7 | - | - | - | - |
| PS1.3 | 100 | 0 | 1 | 1 | - | - | - | 3 | - | 2 | 5 | 20 | 8 | 2 | 4 | 3 | 2 | - | - | - | - |
| PS1.4 | 58 | 0 | 0 | 0 | - | - | - | 2 | - | 1 | 3 | 12 | 4 | 1 | 3 | 2 | 1 | - | - | - | - |
| PS1.5 | 247 | 1 | 1 | 2 | - | - | - | 7 | - | 4 | 11 | 49 | 19 | 5 | 11 | 8 | 5 | - | - | - | - |
| PS1.6 | 174 | 1 | 1 | 1 | - | - | - | 5 | - | 3 | 8 | 35 | 13 | 4 | 8 | 6 | 4 | - | - | - | - |
| PS1.7 | 97 | 0 | 1 | 1 | - | - | - | 3 | - | 1 | 4 | 19 | 7 | 2 | 4 | 3 | 2 | - | - | - | - |
| TOTAL | | Viburnum dentatum 'Blue Muffin' | Calamagrostis brachytricha | Eupatorium maculatum 'Bartered Bride' | 0 | 0 | #REF! | Monarda bradburiana | #REF! | Amsonia hubrichtii | Solidago flexicaulis | Carex appalachia | Carex pennsylvanica | Carex flacca 'Blue Zinger' | Heuchera villosa 'Autumn Bride' | Aster ericoides 'Snow Flurry' | Aquilegia canadensis | 0 | 0 | 0 | 0 |
| | | 6 | 9 | 12 | 0 | 0 | 0 | 41 | 0 | 23 | 70 | 310 | 116 | 34 | 68 | 51 | 34 | 0 | 0 | 0 | 0 |

### PS2

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Lindera benzoin | Descampsia cesoitosa 'Goldtau' | Ilex verticillata 'Berry Heavy' | | | Mertensia virginica | Zizia aurea | Agastache 'Blue Fortune' | Ascelpias tuberosa | Eurybia divaricata | Carex appalachia | Carex pennsylvanica | Geranium maculatum | Heuchera villosa 'Autumn Bride' | Carex oshimensis 'Everillo' | Spigelia marilandica | | | | |
| Flowering / Interest | | SP | SU-FA | FA | | | SP | SP-SU | SU-F | SU | LSU-F | SP-FA | SP-FA | SP-SU | LSU-FA | SP-FA | SP | | | | |
| % Mix by Plant | | 20% | 50% | 30% | | | 15% | 25% | 25% | 20% | 15% | 35% | 15% | 15% | 25% | 10% | 100% | | | | |
| Spacing | | 60 | 24 | 60 | | | 24 | 18 | 24 | 24 | 18 | 12 | 12 | 18 | 18 | 12 | 12 | | | | |
| # / SF | | 0.04 | 0.25 | 0.04 | #N/A | #N/A | 0.25 | 0.44 | 0.25 | 0.25 | 0.44 | 1 | 1 | 0.44 | 0.44 | 1 | 1 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| PS2.1 | 228 | 0 | 4 | 0 | - | - | 3 | 8 | 4 | 3 | 5 | 40 | 17 | 8 | 13 | 11 | 11 | - | - | - | - |
| PS2.2 | 276 | 0 | 5 | 0 | - | - | 3 | 9 | 5 | 4 | 5 | 48 | 21 | 9 | 15 | 14 | 14 | - | - | - | - |
| PS2.3 | 261 | 0 | 5 | 0 | - | - | 3 | 9 | 5 | 4 | 5 | 46 | 20 | 9 | 14 | 13 | 13 | - | - | - | - |
| PS2.4 | 61 | 0 | 1 | 0 | - | - | 1 | 2 | 1 | 1 | 1 | 11 | 5 | 2 | 3 | 3 | 3 | - | - | - | - |
| PS2.5 | 53 | 0 | 1 | 0 | - | - | 1 | 2 | 1 | 1 | 1 | 9 | 4 | 2 | 3 | 3 | 3 | - | - | - | - |
| PS2.6 | 107 | 0 | 2 | 0 | - | - | 1 | 4 | 2 | 2 | 2 | 19 | 8 | 4 | 6 | 5 | 5 | - | - | - | - |
| PS2.7 | 191 | 0 | 4 | 0 | - | - | 2 | 6 | 4 | 3 | 4 | 33 | 14 | 6 | 10 | 10 | 10 | - | - | - | - |
| TOTAL | | Lindera benzoin | Descampsia cesoitosa 'Goldtau' | Ilex verticillata 'Berry Heavy' | 0 | 0 | Mertensia virginica | Zizia aurea | Agastache 'Blue Fortune' | Ascelpias tuberosa | Eurybia divaricata | Carex appalachia | Carex pennsylvanica | Geranium maculatum | Heuchera villosa 'Autumn Bride' | Carex oshimensis 'Everillo' | Spigelia marilandica | 0 | 0 | 0 | 0 |
| | | 1 | 22 | 2 | 0 | 0 | 13 | 39 | 22 | 18 | 23 | 206 | 88 | 39 | 65 | 59 | 59 | 0 | 0 | 0 | 0 |

### PS3

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 50% | | | | | 5% | | | | |
| Botanical Name | | Itea virginica 'Henry Garnet' | Hydrangea arborescens 'Hayes starbusrt' | Calamagrostis brachytricha | | | Mertensia virginica | Penstemon digitalis 'Husker Red' | Astilbe chinensis var. taquetii 'Purpurkerze' | Scutelleria incana | Solidago flexicaulis | Senecio obovatus | Carex appalachia | Carex pennsylvanica | Geranium maculatum | Aster ericoides 'Snow Flurry' | Euphorbia corollata | | | | |
| Flowering / Interest | | SP-SU | SU | SP-FA | | | SP | SP-SU | SU | SU | LSU-F | SP | SP-FA | SP-FA | SP-SU | FA | SU | | | | |
| % Mix by Plant | | 30% | 50% | 20% | | | 15% | 20% | 30% | 20% | 15% | 45% | 20% | 15% | 20% | | 100% | | | | |
| Spacing | | 36 | 36 | 36 | | | 24 | 18 | 24 | 18 | 12 | 12 | 12 | 12 | 18 | 18 | 12 | | | | |
| # / SF | | 0.11 | 0.11 | 0.11 | #N/A | #N/A | 0.25 | 0.44 | 0.25 | 0.44 | 1 | 1 | 1 | 1 | 0.44 | 0.44 | 1 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| PS3.1 | 415 | 2 | 3 | 1 | - | - | 5 | 11 | 9 | 11 | 19 | 93 | 41 | 31 | 18 | 0 | 21 | - | - | - | - |
| PS3.2 | 512 | 3 | 4 | 2 | - | - | 6 | 14 | 12 | 14 | 23 | 115 | 51 | 38 | 23 | 0 | 26 | - | - | - | - |
| PS3.3 | 116 | 1 | 1 | 0 | - | - | 1 | 3 | 3 | 3 | 5 | 26 | 12 | 9 | 5 | 0 | 6 | - | - | - | - |
| PS3.4 | 81 | 0 | 1 | 0 | - | - | 1 | 2 | 2 | 2 | 4 | 18 | 8 | 6 | 4 | 0 | 4 | - | - | - | - |
| PS3.5 | 85 | 0 | 1 | 0 | - | - | 1 | 2 | 2 | 2 | 4 | 19 | 9 | 6 | 4 | 0 | 4 | - | - | - | - |
| TOTAL | | Itea virginica 'Henry Garnet' | Hydrangea arborescens 'Hayes starbusrt' | Calamagrostis brachytricha | 0 | 0 | Mertensia virginica | Penstemon digitalis 'Husker Red' | Astilbe chinensis var. taquetii 'Purpurkerze' | Scutelleria incana | Solidago flexicaulis | Senecio obovatus | Carex appalachia | Carex pennsylvanica | Geranium maculatum | Aster ericoides 'Snow Flurry' | Euphorbia corollata | 0 | 0 | 0 | 0 |
| | | 6 | 10 | 4 | 0 | 0 | 14 | 32 | 27 | 32 | 54 | 272 | 121 | 91 | 53 | 0 | 60 | 0 | 0 | 0 | 0 |

### SH1

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 45% | | | | | 10% | | | | |
| Botanical Name | | Hamamelis x intermedia 'Arnold Promise' | Viburnum dentatum 'Blue Muffin' | | | | Polygonatum biflorum | Hosta 'Gaucomole' | Heuchera villosa 'Autmun Bride' | Eurybia divaricata | Solidago rugosa | Erigeron pulchellus var. pulchellus 'Lynnhaven Carpet' | Carex appalachia | Dryopteris marginalis | Asarum canadense | Senecio obovatus | Aquilegia canadensis | Spigelia marilandica | | | |
| Flowering / Interest | | W-F | SP-FA | | | | | | | | FA | | | | | | SP-SU | SP | | | |
| % Mix by Plant | | 40% | 60% | | | | 20% | 25% | 35% | 10% | 10% | 15% | 40% | 10% | 25% | 10% | 60% | 40% | | | |
| Spacing | | 60 | 36 | | | | 12 | 24 | 18 | 18 | | 18 | 12 | 18 | 12 | 12 | 18 | 12 | | | |
| # / SF | | 0.04 | 0.11 | #N/A | #N/A | #N/A | 1 | 0.25 | 0.44 | 0.44 | #N/A | 0.44 | 1 | 0.44 | 1 | 1 | 0.44 | 1 | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| SH1.1 | 160 | 0 | 2 | - | - | - | 10 | 3 | 7 | 2 | - | 5 | 29 | 3 | 18 | 7 | 4 | 6 | - | - | - |
| SH1.2 | 80 | 0 | 1 | - | - | - | 5 | 1 | 4 | 1 | - | 2 | 14 | 2 | 9 | 4 | 2 | 3 | - | - | - |
| SH1.3 | 309 | 1 | 3 | - | - | - | 19 | 6 | 14 | 4 | - | 9 | 56 | 6 | 35 | 14 | 8 | 12 | - | - | - |
| TOTAL | | Hamamelis x intermedia 'Arnold Promise' | Viburnum dentatum 'Blue Muffin' | 0 | 0 | 0 | Polygonatum biflorum | Hosta 'Gaucomole' | Heuchera villosa 'Autmun Bride' | Eurybia divaricata | Solidago rugosa | Erigeron pulchellus var. pulchellus 'Lynnhaven Carpet' | Carex appalachia | Dryopteris marginalis | Asarum canadense | Senecio obovatus | Aquilegia canadensis | Spigelia marilandica | 0 | 0 | 0 |
| | | 1 | 5 | 0 | 0 | 0 | 33 | 10 | 25 | 7 | 0 | 16 | 99 | 11 | 62 | 25 | 14 | 22 | 0 | 0 | 0 |

### SH2

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 35% | | | | | 45% | | | | | 5% | | | | |
| Botanical Name | | Viburnum dentatum 'Blue Muffin' | Diervilla lonicera | | | | Smilacina racemosa | Scutelleria incana | Actae racemosa | Hosta 'Gaucomole' | Solidago rugosa | Carex pennsylvanica | Carex appalachia | Dryopteris marginalis | Lamiastrum galeobdolon | Erigeron pulchellus var. pulchellus 'Lynnhaven Carpet' | Spigelia marilandica | | | | |
| Flowering / Interest | | SP-FA | SU | | | | | | | | FA | | | | | | SP | | | | |
| % Mix by Plant | | 70% | 30% | | | | 20% | 30% | 25% | 15% | 10% | 20% | 35% | 10% | 25% | 10% | 100% | | | | |
| Spacing | | 36 | 36 | | | | 18 | 18 | 30 | 24 | 24 | 12 | 12 | 18 | | 12 | 12 | | | | |
| # / SF | | 0.11 | 0.11 | #N/A | #N/A | #N/A | 0.44 | 0.44 | 0.16 | 0.25 | 0.25 | 1 | 1 | 0.44 | #N/A | 1 | 1 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| SH2.1 | 233 | 3 | 1 | - | - | - | 7 | 11 | 3 | 3 | 2 | 21 | 37 | 5 | - | 10 | 12 | - | - | - | - |
| SH2.2 | 242 | 3 | 1 | - | - | - | 7 | 11 | 3 | 3 | 2 | 22 | 38 | 5 | - | 11 | 12 | - | - | - | - |
| TOTAL | | Viburnum dentatum 'Blue Muffin' | Diervilla lonicera | 0 | 0 | 0 | Smilacina racemosa | Scutelleria incana | Actae racemosa | Hosta 'Gaucomole' | Solidago rugosa | Carex pennsylvanica | Carex appalachia | Dryopteris marginalis | Lamiastrum galeobdolon | Erigeron pulchellus var. pulchellus 'Lynnhaven Carpet' | Spigelia marilandica | 0 | 0 | 0 | 0 |
| | | 5 | 2 | 0 | 0 | 0 | 15 | 22 | 7 | 6 | 4 | 43 | 75 | 9 | 0 | 21 | 24 | 0 | 0 | 0 | 0 |

### SH3

Design Layers / Functional Layers

| | | Structural Plants (10-15%) | | | | | Seasonal Theme Plants (25-40%) | | | | | Ground Cover Plants (50%) | | | | | Filler Plants (5-10%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Mix by Category | | 15% | | | | | 30% | | | | | 45% | | | | | 10% | | | | |
| Botanical Name | | Lindera benzoin | Viburnum dentatum 'Blue Muffin' | | | | Smilacina racemosa | Polygonatum biflorum | Scutelleria incana | Anemone virginiana | Solidago rugosa | Carex pennsylvanica | Carex appalachia | Meehania cordata | Epimedium x versicolor 'Sulphureum' | Senecio obovatus | Aquilegia canadensis | | | | |
| Flowering / Interest | | | | | | | | | | | FA | | | | | | SP-SU | | | | |
| % Mix by Plant | | 60% | 40% | | | | 15% | 35% | 20% | 20% | 10% | 20% | 30% | 15% | 20% | 15% | 100% | | | | |
| Spacing | | 60 | 36 | | | | 18 | 12 | 18 | 12 | | 12 | 12 | 12 | 12 | 12 | 18 | | | | |
| # / SF | | 0.04 | 0.11 | #N/A | #N/A | #N/A | 0.44 | 1 | 0.44 | 1 | #N/A | 1 | 1 | 1 | 1 | 1 | 0.44 | #N/A | #N/A | #N/A | #N/A |
| AREA | SF | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
| SH3.1 | 159 | 1 | 1 | - | - | - | 3 | 17 | 4 | 10 | - | 14 | 21 | 11 | 14 | 11 | 7 | - | - | - | - |
| SH3.2 | 153 | 1 | 1 | - | - | - | 3 | 16 | 4 | 9 | - | 14 | 21 | 10 | 14 | 10 | 7 | - | - | - | - |
| TOTAL | | Lindera benzoin | Viburnum dentatum 'Blue Muffin' | 0 | 0 | 0 | Smilacina racemosa | Polygonatum biflorum | Scutelleria incana | Anemone virginiana | Solidago rugosa | Carex pennsylvanica | Carex appalachia | Meehania cordata | Epimedium x versicolor 'Sulphureum' | Senecio obovatus | Aquilegia canadensis | 0 | 0 | 0 | 0 |
| | | 1 | 2 | 0 | 0 | 0 | 6 | 33 | 8 | 19 | 0 | 28 | 42 | 21 | 28 | 21 | 14 | 0 | 0 | 0 | 0 |

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DESIGN-BUILDER
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ST. LOUIS, MO 63114
P: 314 429 5100
F: 314 429 3137

DLA+ ARCHITECTURE interior design
ARCHITECT OF RECORD
FOSTER PLAZA 9 #200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220
P: 412 921 4300
F: 412 921 4312

MACKEY MITCHELL ARCHITECTS
DESIGN ARCHITECT
900 SPRUCE STREET #500
ST. LOUIS, MO 63102
P: 314 421 1815
F: 314 421 5206

SWEETLAND ENGINEERING & ASSOCIATES, INC.
SWEETLAND ENGINEERING & ASSOC.
CIVIL ENGINEER
600 SCIENCE PARK ROAD
STATE COLLEGE, PA 16803
P: 814 237 6518
F: 814 237 1488

| REV | DATE | DESCRIPTION |
|---|---|---|

PROJECT & SHEET TITLE

**LAND DEVELOPMENT**
PENN STATE EAST HALLS - PHASE 2
UNIVERSITY PARK, PA 16802

**PLANTING SCHEDULE**

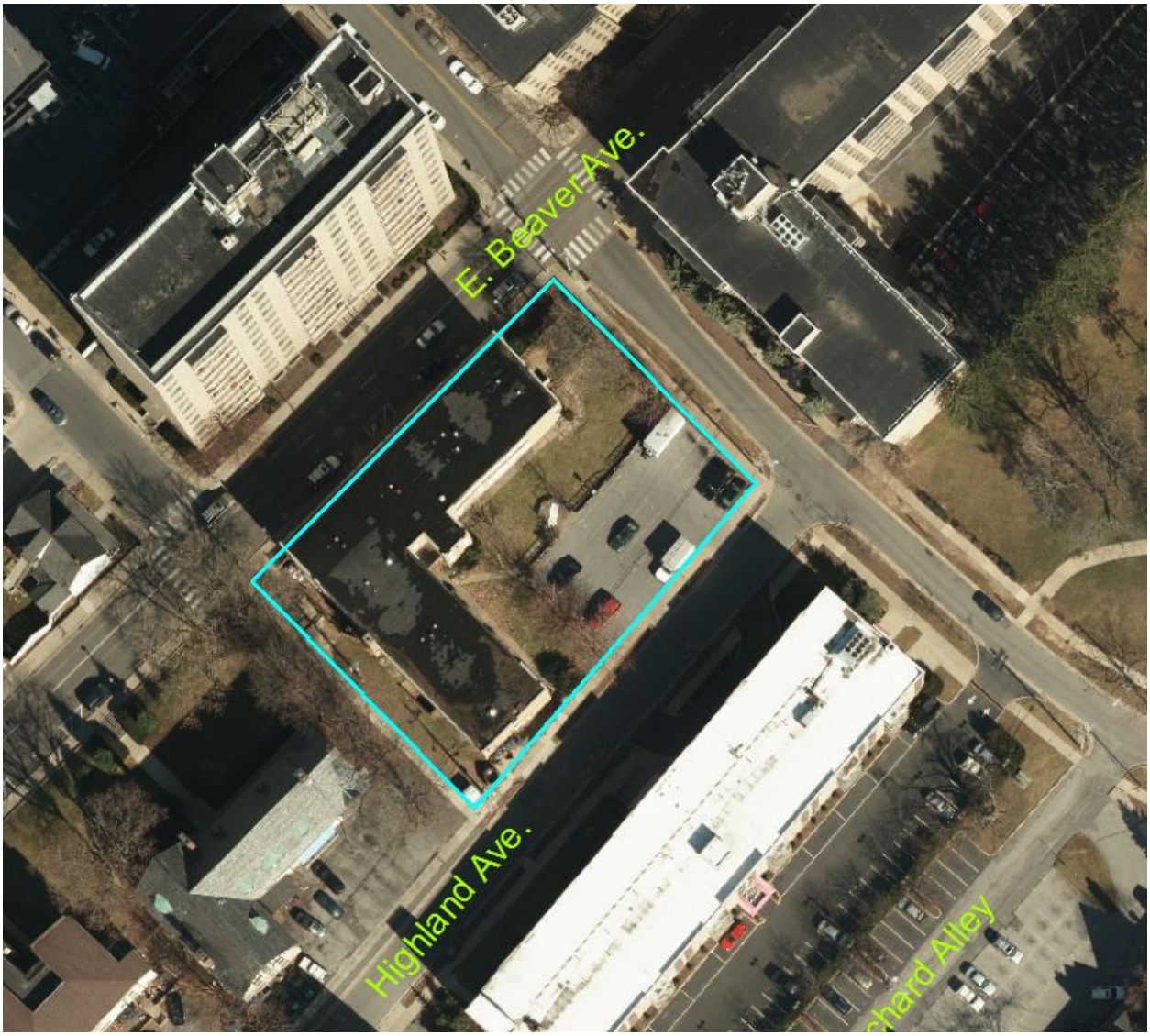
SEAL

DATE: 11-07-2016

PROJECT #
**PSU Proj# 00-04724.00**
**PSU Bldg# 0000-000**
**SEA Proj# 6028K**

SHEET #
L702

PLOTTED: November 03, 2016-3:10pm (listb) FILENAME: \\Stlfilep01\project\602-01856 Penn State East Residence Hall\Design\11_Team\02_Landscape\Cad\Sheets\Phase 1B-ACCELERATED\Permit Set\L701.dwg LAYOUT: L702

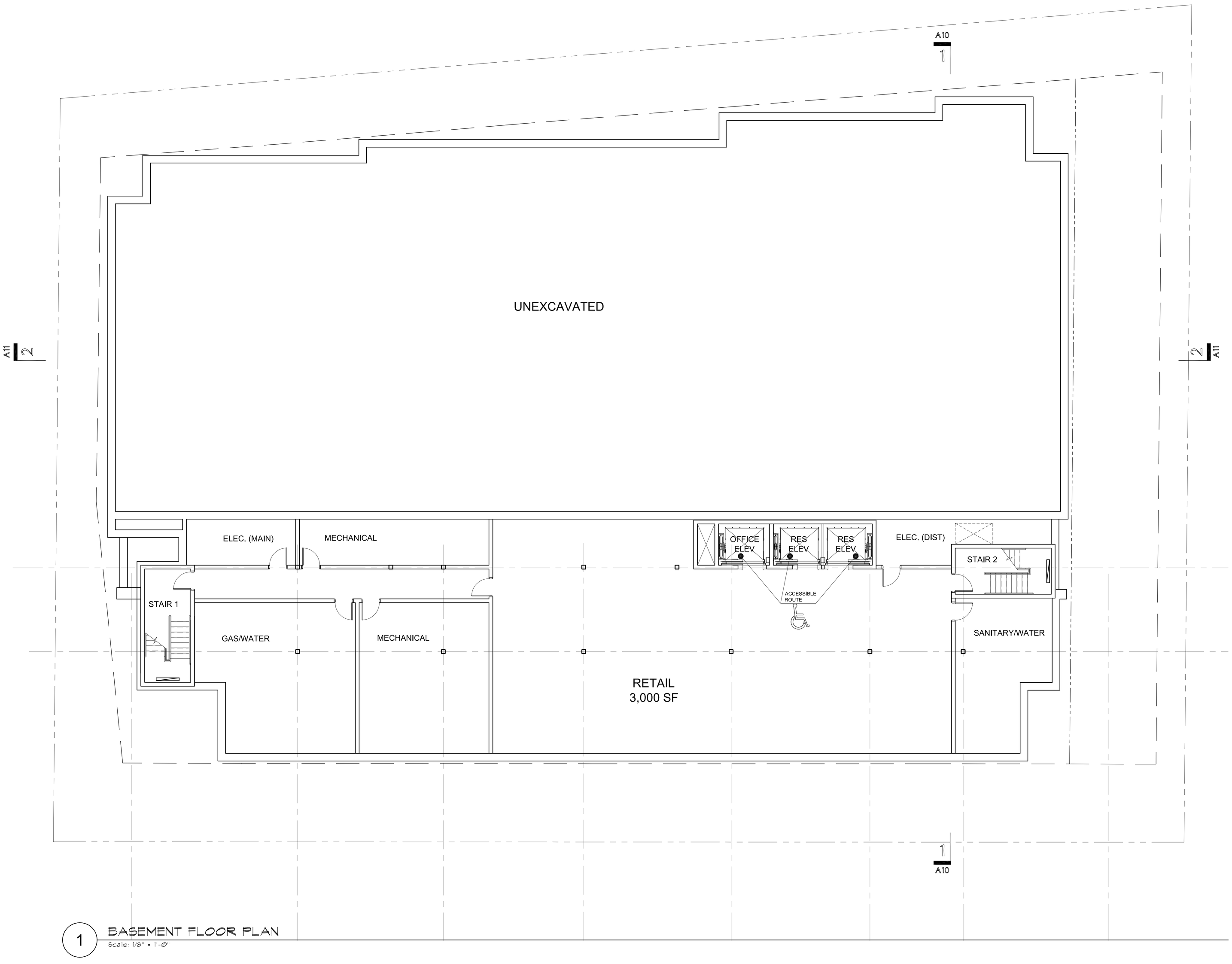



Aerial View – 254 East Beaver Avenue

View 1 – East Bound Beaver Avenue

View 2 – Corner of Locust Lane and East Beaver Avenue

View 3 – Corner of Highland Avenue and Locust Lane




1 BASEMENT FLOOR PLAN
Scale: 1/8" = 1'-0"

OGP Architects, LLP

TOTAL BASEMENT AREA:
6,637 SF

PARKING USE (S-2):
0 SF

RETAIL USE (M):
3,000 SF

RESIDENTIAL USE (R-2):
0 SF

OFFICES USE (B):
0 SF

COMMON STAIRS/
SHAFTS/MECH
(MIXED USE):
3,637 SF

Proposed:
MIXED USE
BUILDING
254 East Beaver Ave
State College, PA

Developed By
Highland Holding
Group
270 Walker Drive
State College, PA 16801

| Revision No. | Date |
|---|---|

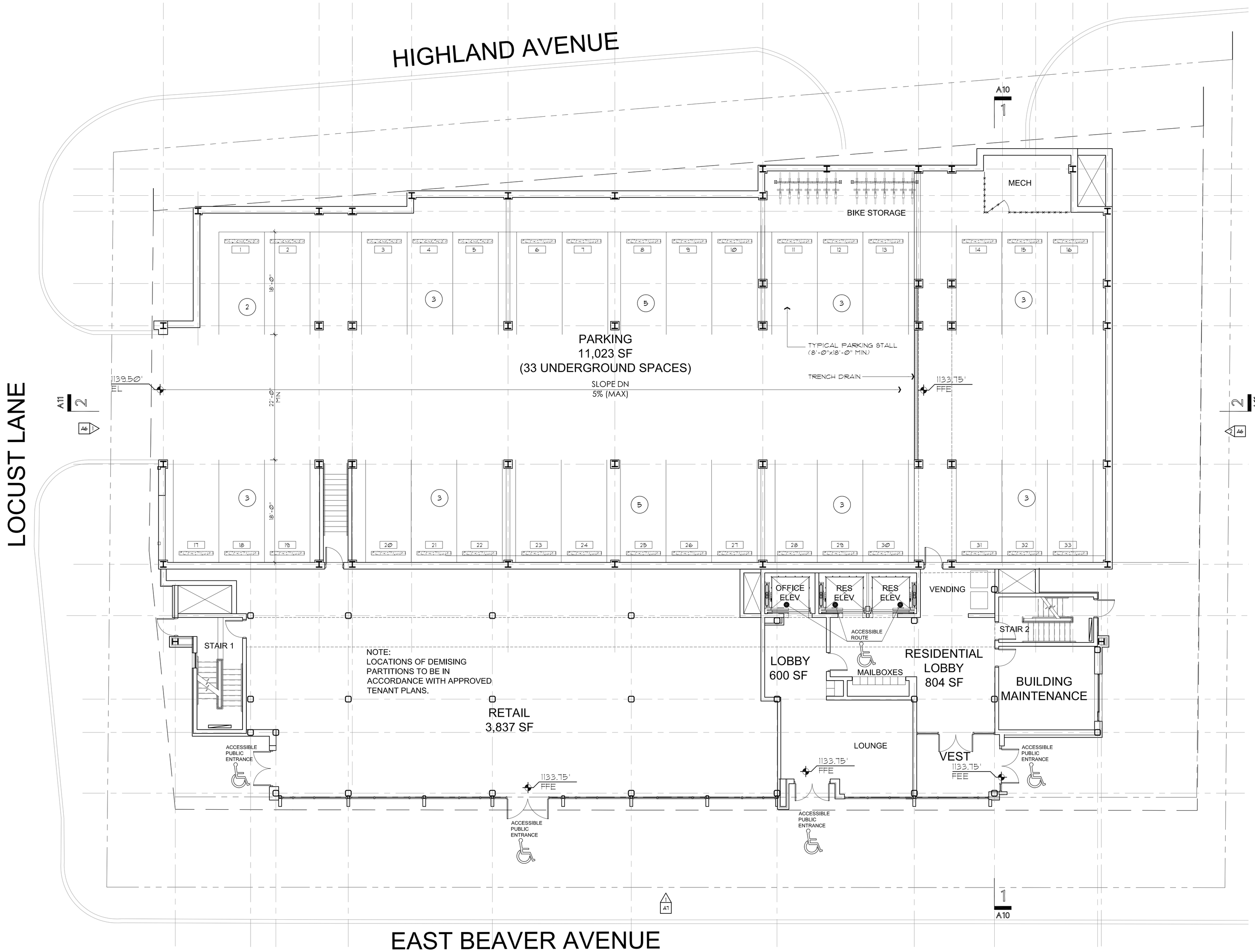
102 North Main Street
Hightstown, NJ 08520
p: 609.448.3888 f: 448.0777
www.ogp-architects.com

Barry Scott Gordon, AIA No. 8979

Project. No: 16515
Scale:
Date: 11/4/2016

BASEMENT FLOOR
PLAN

A1




1 FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

OGP
OGP Architects, LLP

TOTAL 1ST FLOOR AREA:
17,202 SF

PARKING USE (S-2):
11,023 SF

RETAIL USE (M):
3,837 SF

RESIDENTIAL USE (R-2):
804 SF

OFFICES USE (B):
600 SF

COMMON STAIRS/SHAFTS
(MIXED USE):
938 SF

LEGEND
ACCESSIBLE PUBLIC ENTRANCE (100% OF PUBLIC ENTRANCES THIS LEVEL)

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BUILDING
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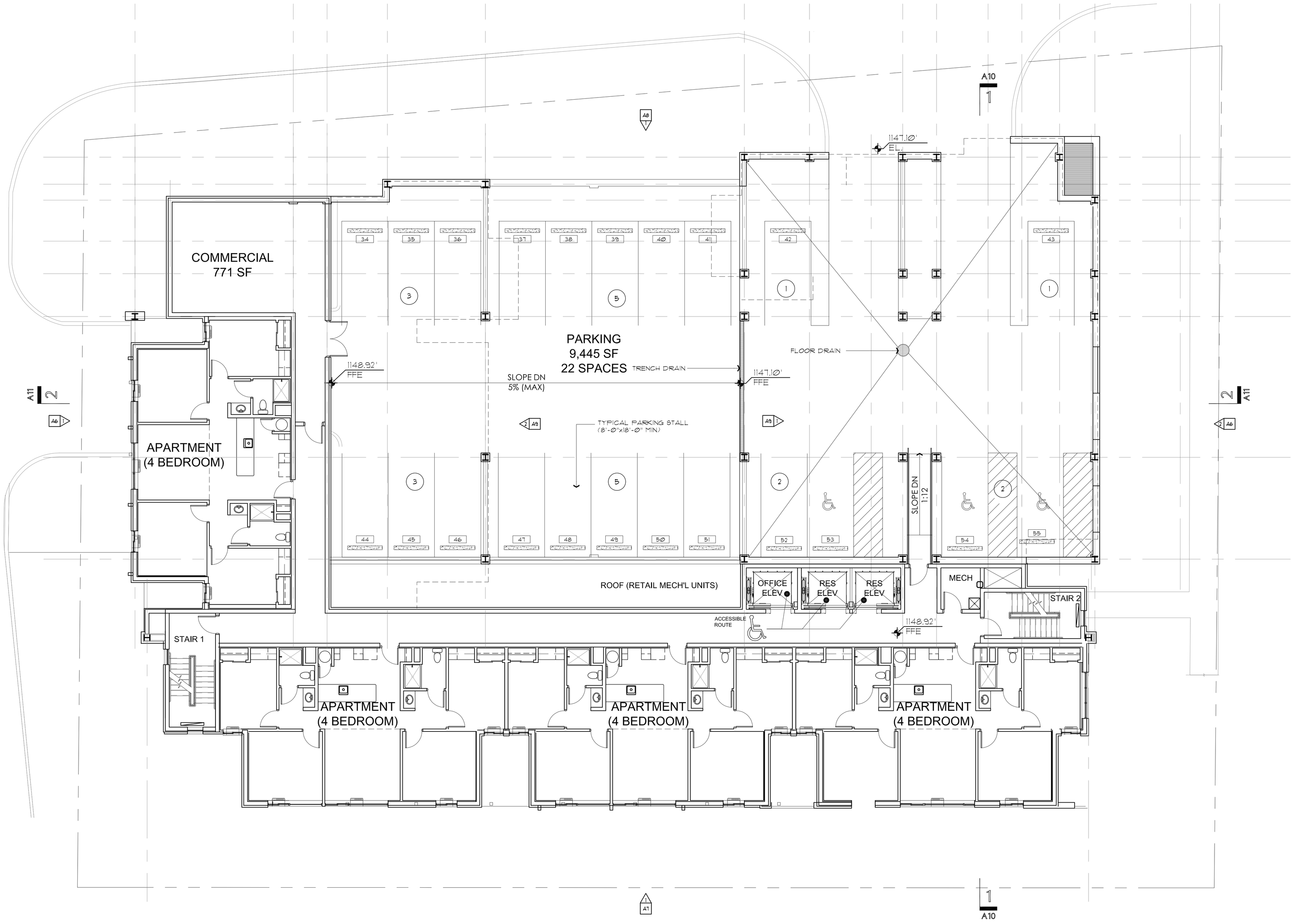
Project. No: 16515 Date:
Scale: 11/4/2016

FIRST FLOOR
PLAN

A2




1 SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

OGP
OGP Architects, LLP

TOTAL 2ND FLOOR AREA:
7,698 SF

PARKING USE (S-2):
0 SF (9,828 SF AT GRADE)

RETAIL USE (M):
0 SF

RESIDENTIAL USE (R-2):
6,201SF

OFFICES USE (B):
0 SF

COMMON STAIRS/SHAFTS
(MIXED USE):
1,497 SF

Proposed:
MIXED USE
BUILDING
254 East Beaver Ave
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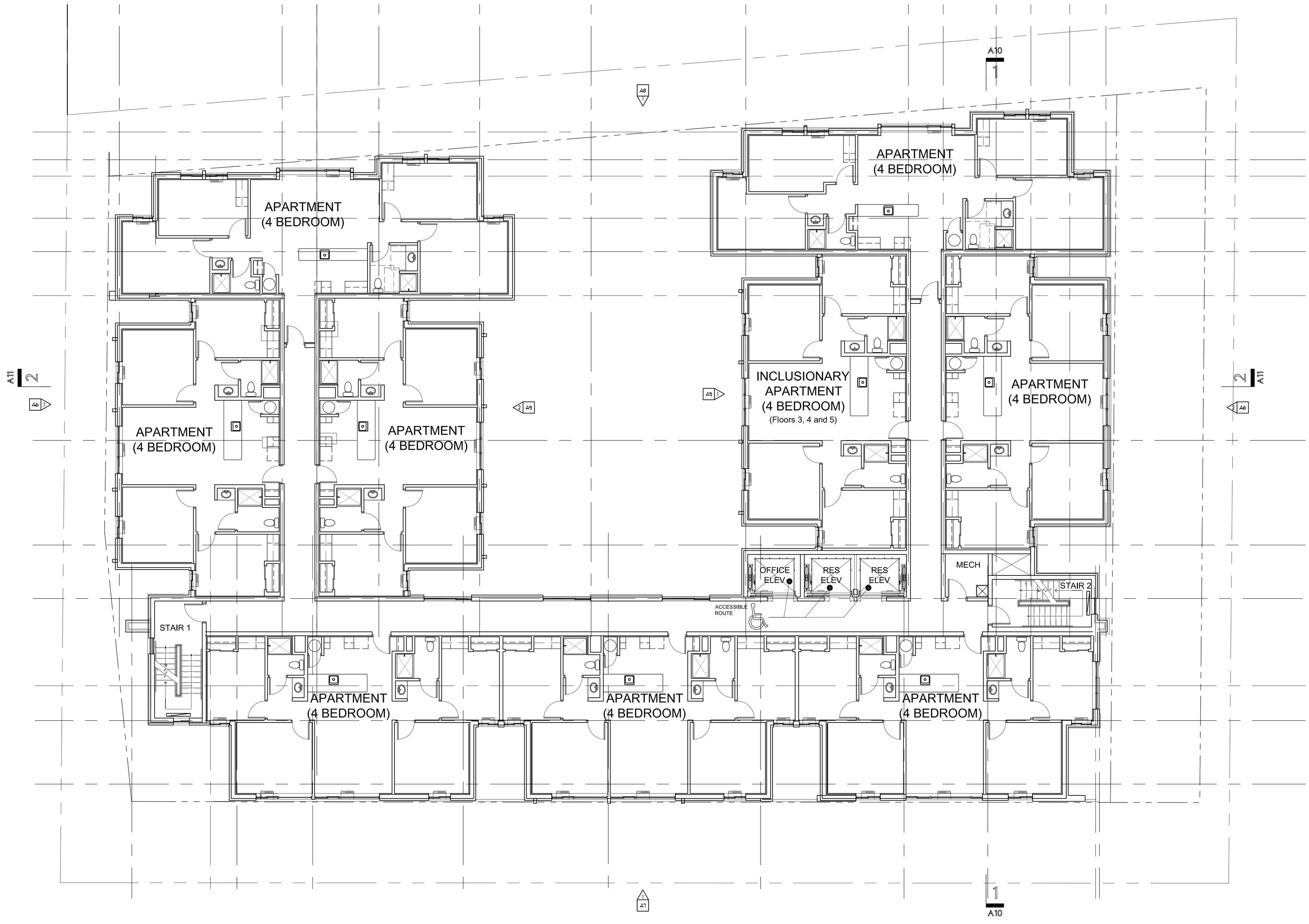
Project. No: 16515 Date:
Scale: 11/4/2016

SECOND FLOOR
PLAN

A3




1 FLOOR PLANS 3-6
Scale: 1/8" = 1'-0"

OGP
OGP Architects, LLP

TOTAL FLOOR AREA
(TYPICAL 3RD THRU 6TH):
13,889 SF

PARKING USE (S-2):
0 SF

RETAIL USE (M):
0 SF

RESIDENTIAL USE (R-2):
13,163 SF

OFFICES USE (B):
0 SF

COMMON STAIRS/SHAFTS
(MIXED USE):
726 SF

Proposed:
MIXED USE
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REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
BARRY SCOTT GORDON
No. 8979

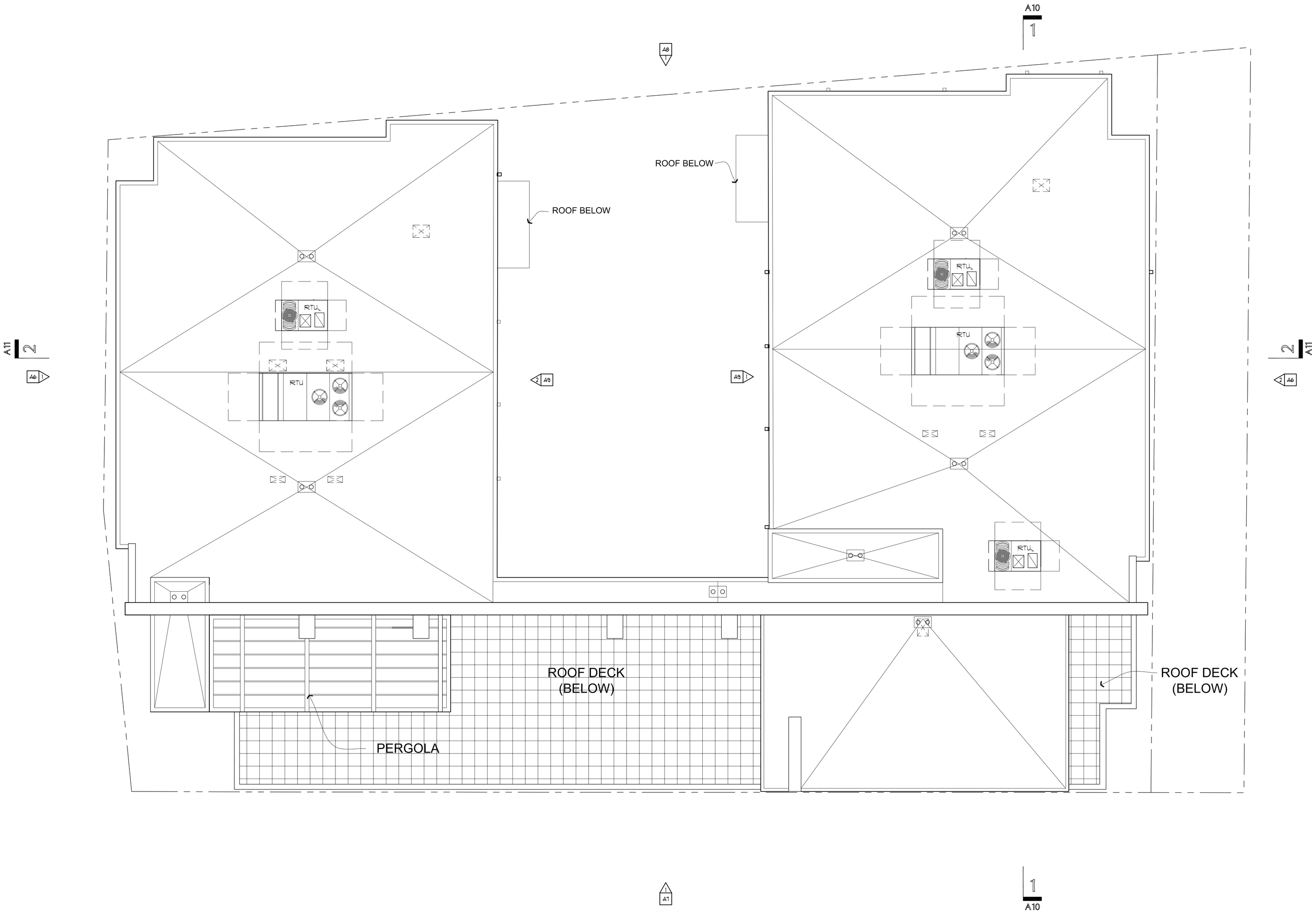
Barry Scott Gordon, AIA No. 8979

Project. No: 16515
Scale:
Date: 11/4/2016

FLOOR PLANS
3-6

A4

OGP Architects, LLP




1 ROOF PLAN
Scale: 1/8" = 1'-0"

Proposed:
MIXED USE BUILDING
254 East Beaver Ave
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State College, PA 16801

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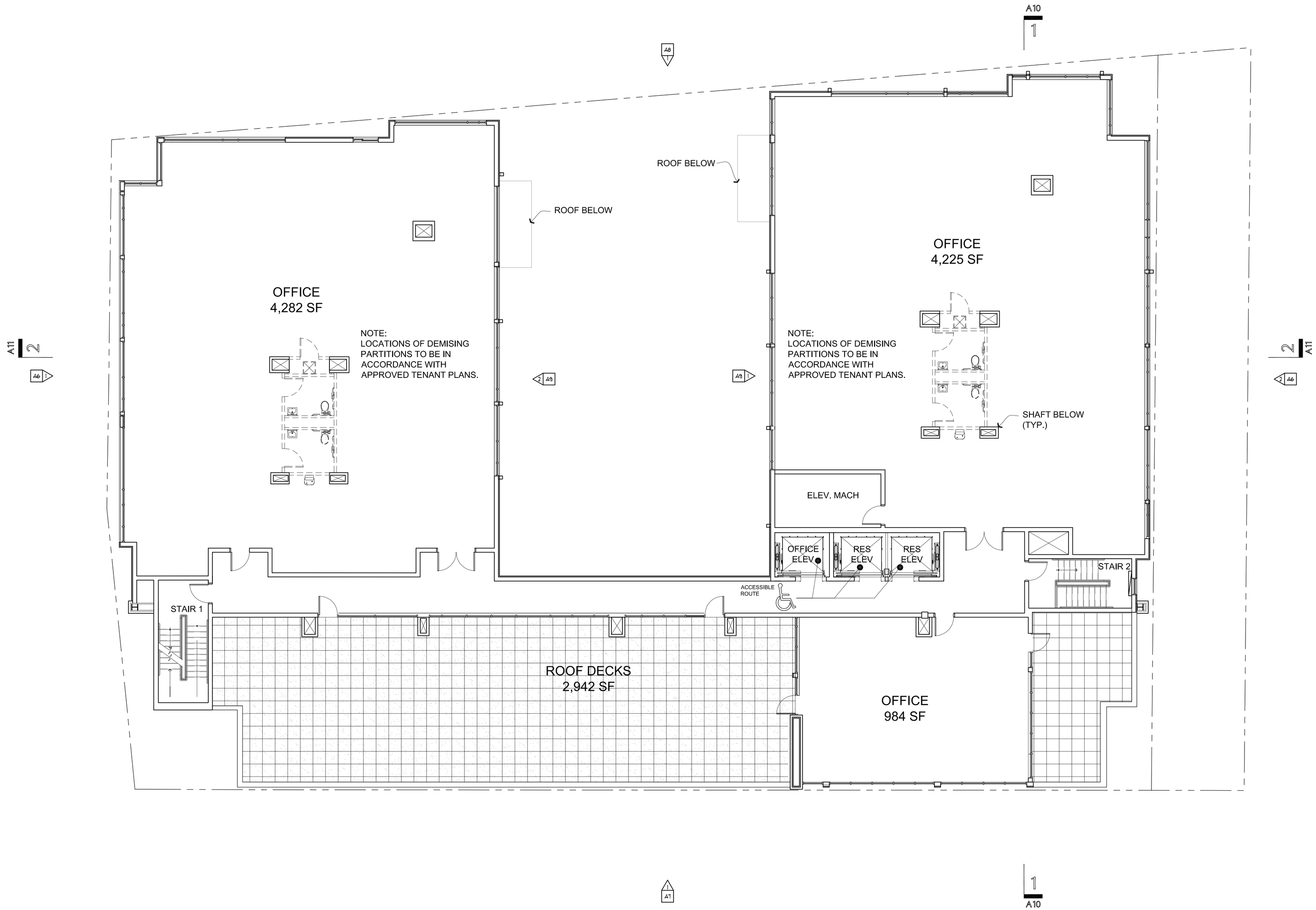
Barry Scott Gordon, AIA No. 8979

Project. No: 1615 Date: 11/4/2016
Scale:

ROOF PLAN

A5.1




1 SEVENTH FLOOR PLAN
Scale: 1/8" = 1'-0"

OGP
OGP Architects, LLP

TOTAL 7TH FLOOR AREA:
11,485 SF

PARKING USE (S-2):
0 SF

RETAIL USE (M):
0 SF

RESIDENTIAL USE (R-2):
0 SF

OFFICES USE (B):
10,583 SF (EXCLUDES
ROOF DECKS)

COMMON STAIRS/SHAFTS
(MIXED USE):
902 SF

Proposed:
MIXED USE
BUILDING
254 East Beaver Ave
State College, PA

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Group
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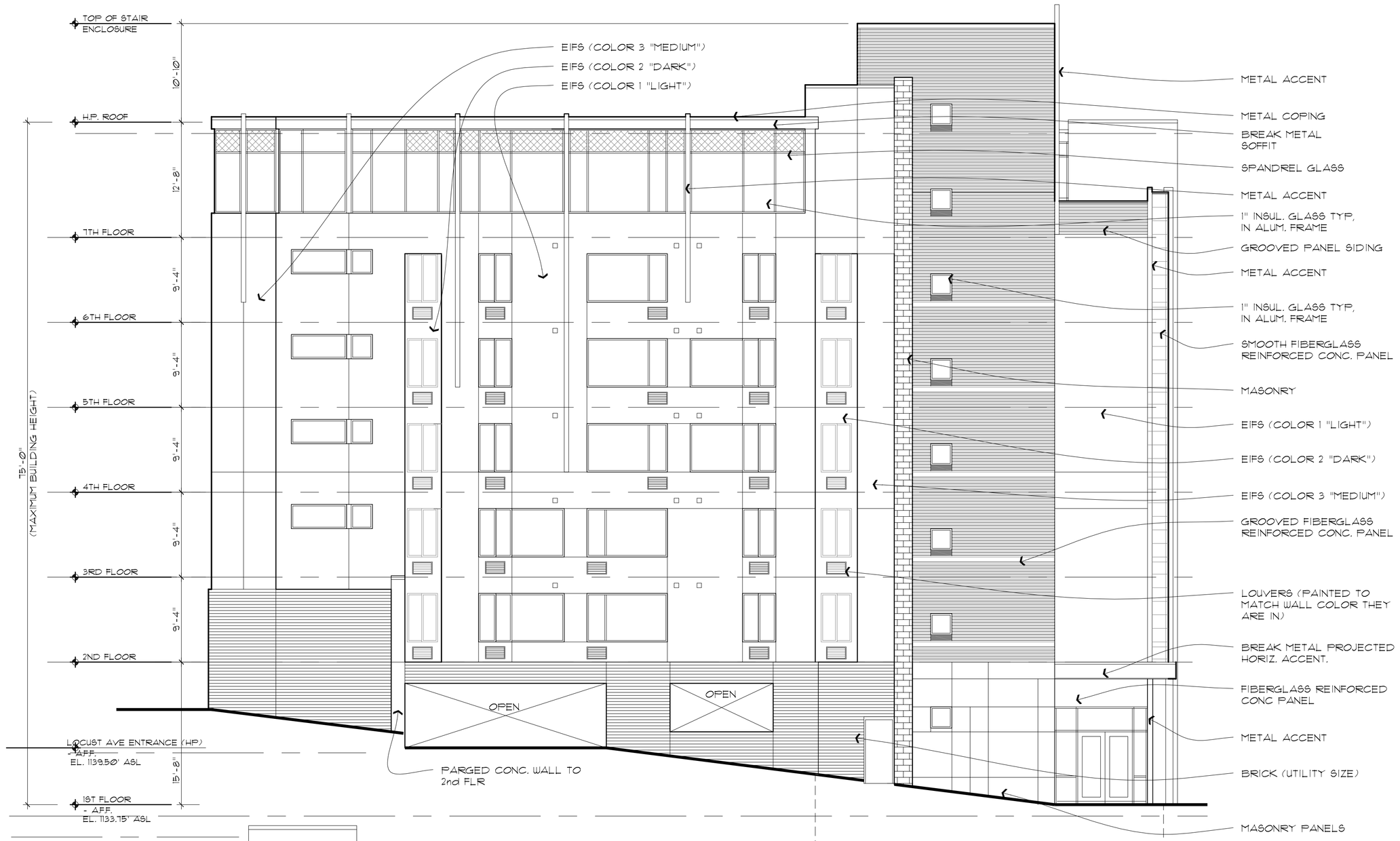
REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
BARRY SCOTT GORDON
No. 8979

Barry Scott Gordon, AIA No. 8979

Project. No: 1615
Scale:
Date: 11/4/2016

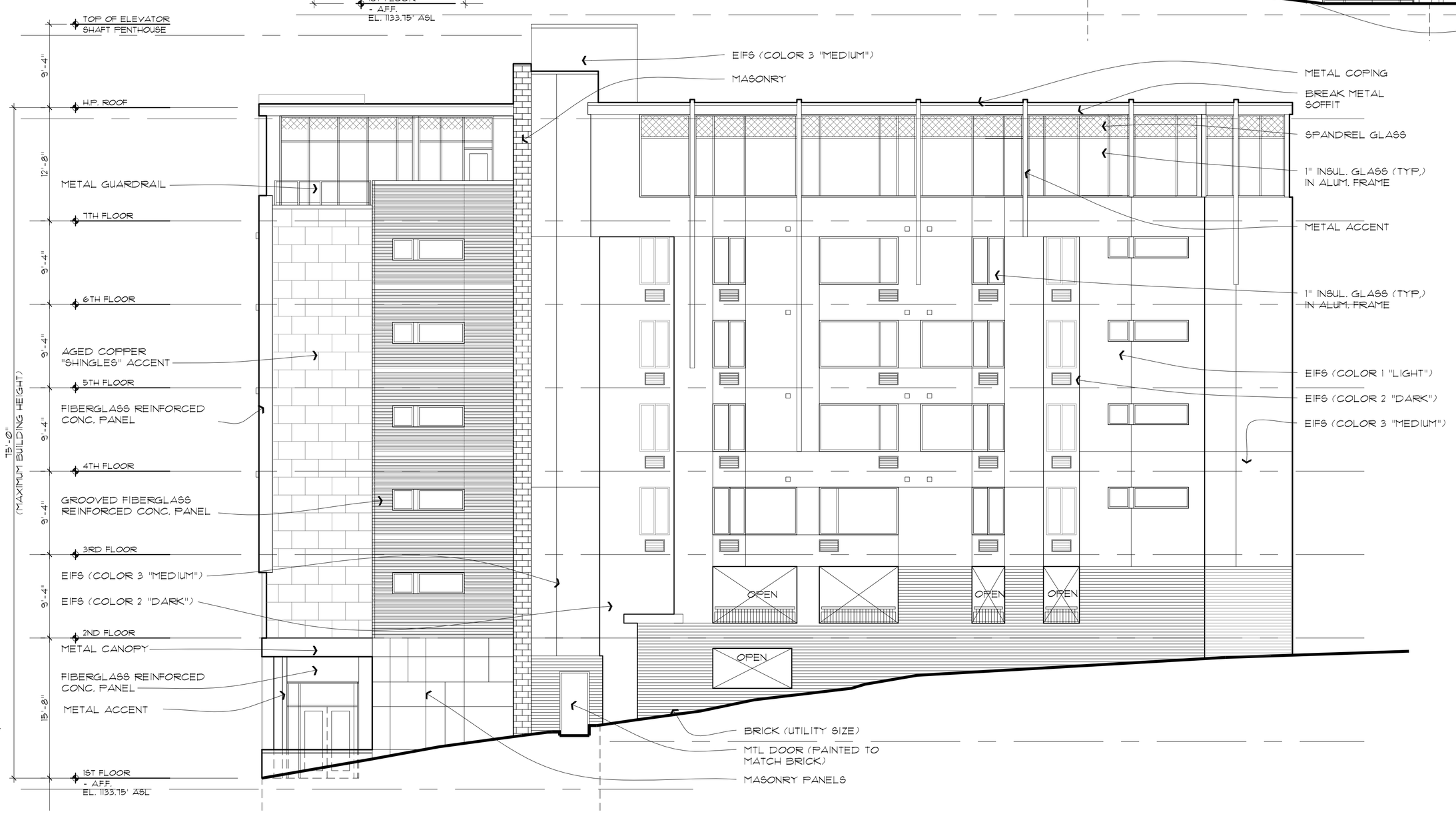
SEVENTH
FLOOR PLAN

A5




1 NORTH ELEVATION - LOCUST AVENUE

Scale: 1/8" = 1'-0"




2 SOUTH ELEVATION

Scale: 1/8" = 1'-0"

OGP Architects, LLP

Proposed:

# MIXED USE BUILDING

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Barry Scott Gordon, AIA No. 8979

Project. No: 16515 Date: 11/4/2016
Scale:

BUILDING ELEVATIONS

A6

1 WEST ELEVATION - EAST BEAVER AVENUE

Scale: 1/8" = 1'-0"

OGP Architects, LLP

Proposed:

MIXED USE BUILDING

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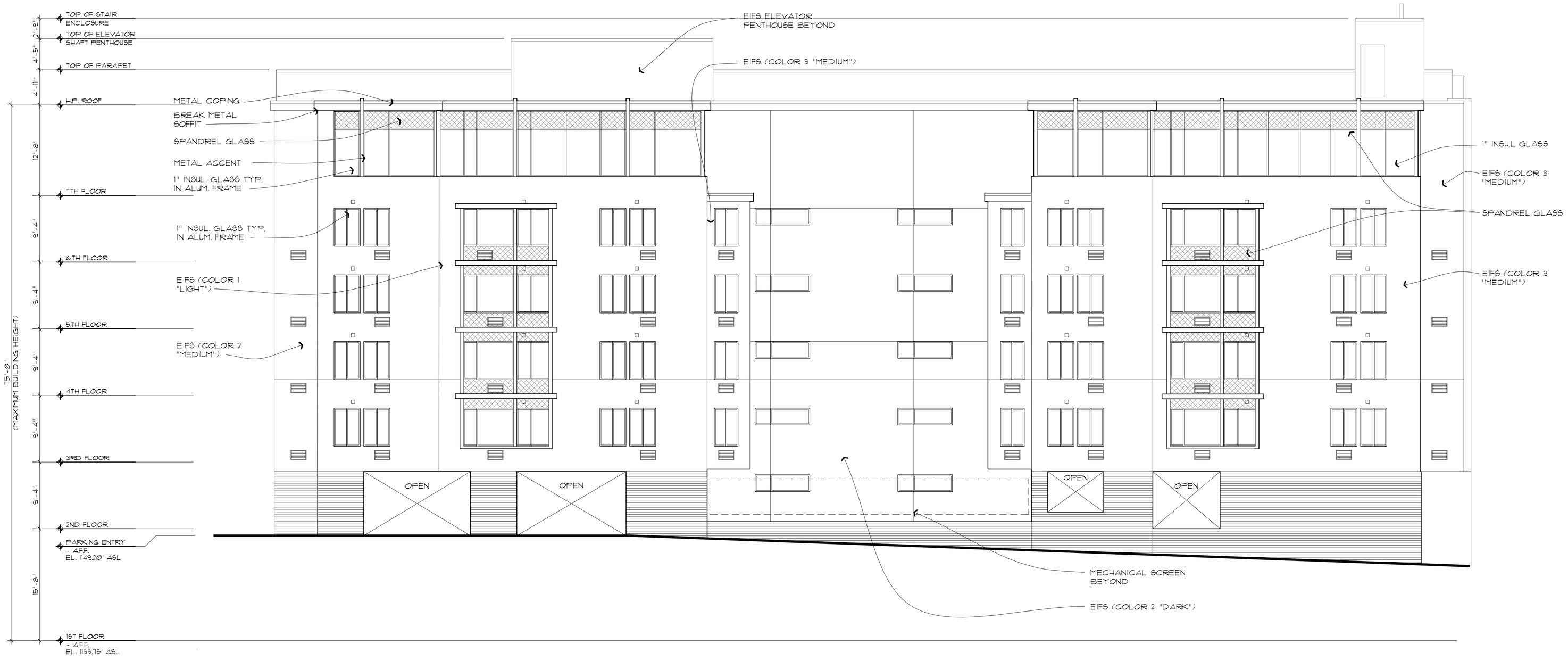
Project. No: 16515 Date:
Scale: 11/4/2016

BUILDING ELEVATIONS

A7

OGP Architects, LLP




1 EAST ELEVATION - HIGHLAND AVENUE

Scale: 1/8" = 1'-0"

Proposed:

MIXED USE BUILDING

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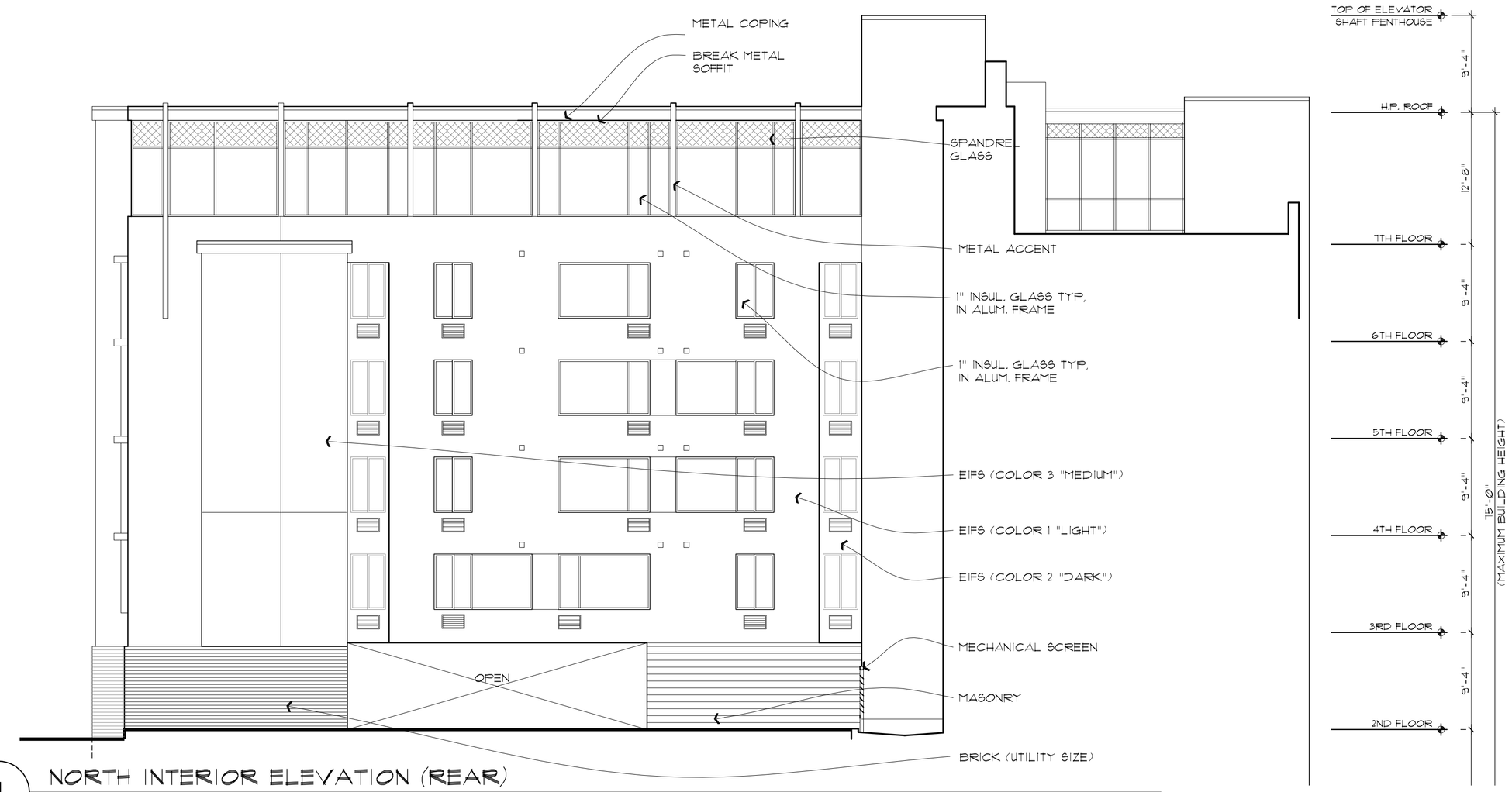
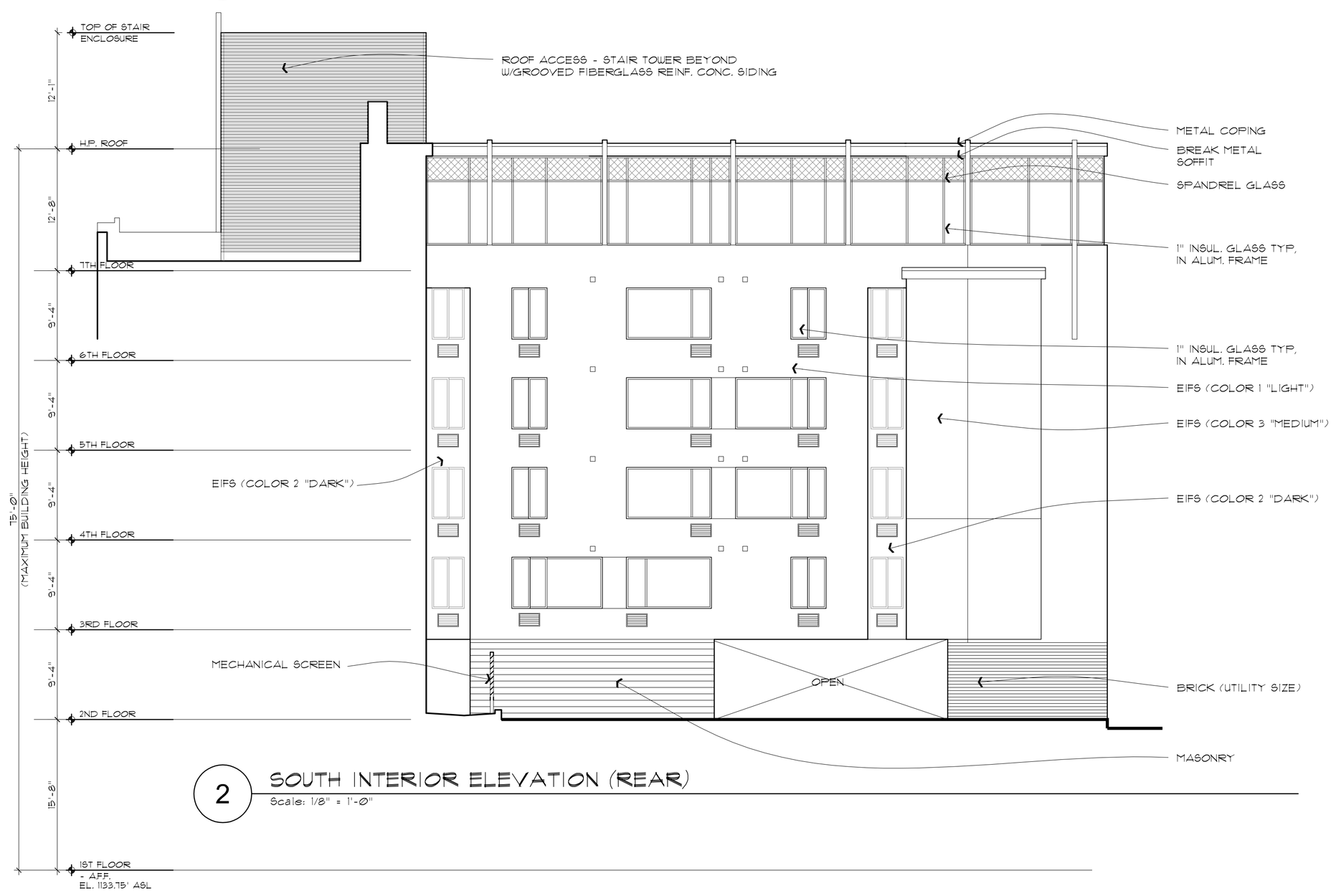
Scale:
Date: 11/4/2016

BUILDING ELEVATIONS

A8




1 NORTH INTERIOR ELEVATION (REAR)
Scale: 1/8" = 1'-0"




2 SOUTH INTERIOR ELEVATION (REAR)
Scale: 1/8" = 1'-0"

OGP Architects, LLP

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Project. No: 16515
Scale:
Date: 11/4/2016

BUILDING ELEVATIONS

A9