ALCOSAN East Headworks Facility

3300 Preble Avenue
Planning Commission Briefing
DCP-ZDR-2020-09488
March 23, 2021
Existing Use
- Gravel Surface Lot
- Woods Run Wastewater Treatment Plant (3300 Preble Avenue)
- WWTP is a US Homeland Security Nationally-critical site

Proposed Use
- 2-story Treatment Building
- Increase preliminary treatment capacity

Context
- Marshall-Shadeland neighborhood
- RCO: Brightwood Civic Group
- RIV-GI zoning district
- Industrial area
- Water-dependent use

Regulatory Review Status
- Design Review complete.
- RCO DAM meeting complete 3/2/2021
- No anticipated variances.
Site Master Plan

- Expand Pumping, Headworks and Primary Capacity to 480 then to 600 MGD
- Create an additional 305 MGD of Secondary Treatment Bypass Capacity
- Increase Plant Secondary Treatment Capacity from 250 to 295 MGD
Site Context

Existing site of proposed East Headworks Building
Site Context – northeast and southeast views

View looking northeast toward existing lab building

View looking northeast toward existing administration building

View looking southeast toward main access drive

View looking south toward existing O&M Building
Site Context – west, northwest and northeast views

View looking west toward odor control and west headworks

View looking northwest toward secondary treatment

View looking northwest toward secondary treatment

View looking northeast toward secondary treatment
Site Elevations and Materials

East Elevation

1. Integrated Louver Wall System
2. Ultra High Performance Concrete Panels
3. Cast-in-Place Concrete
4. Insulated Metal Wall Panels
5. Insulated Channel Glass

EL 726.00’
EL 732.00’
EL 754.00’
EL 768.00’
EL 776.00’
Site Elevations and Materials

West Elevation

1. Integrated Louver Wall System
2. Ultra High Performance Concrete Panels
3. Cast-in-Place Concrete
4. Insulated Metal Wall Panels
5. Insulated Channel Glass
Site Elevations and Materials

North Elevation

1. Integrated Louver Wall System
2. Ultra High Performance Concrete Panels
3. Cast-in-Place Concrete
4. Insulated Metal Wall Panels
5. Insulated Channel Glass
Site Elevations and Materials

South Elevation

1. Integrated Louver Wall System
2. Ultra High Performance Concrete Panels
3. Cast-in-Place Concrete
4. Insulated Metal Wall Panels
5. Insulated Channel Glass
Aerial Context View
Southeast View
Northeast View
Landscaping Plan

- STAR MAGNOLIA
  - Magnolia stellata

- REDBUD
  - Cercis canadensis

- COMMON SMOKETREE
  - Cotinus coggyria

- REDBUD
  - Cercis canadensis

- REDBUD
  - Cercis canadensis

- STAR MAGNOLIA
  - Magnolia stellata
Sustainability and Stormwater Management

Highlights
• Cool Roof
• Daylight Harvesting
• LED Lighting
• Energy Recovery HVAC
• Lighting and HVAC Controls
• Low Maintenance Native Plantings
• Bike Parking and accessibility
• The East Headworks project is part of the Stormwater Management Plan was approved in 2018 by the City of Pittsburgh and the Allegheny County Conservation District for the entire Plant Expansion.

Cool roof and daylight harvesting wall

Accessibility and bike parking
# Community Process Summary

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<td>February 8, 2021</td>
<td>Urban Design Targets Review/Approval</td>
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<td>March 2, 2021</td>
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