Stormwater Wastewater Facility

April 28, 2023

Building Design and Construction Division

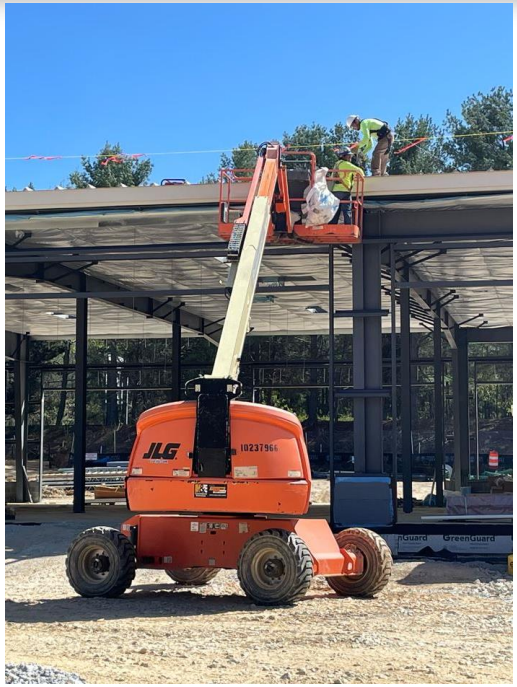
Agenda

1. Construction Progress Update
2. Milestone Schedule & Work
3. Site utilization - Phase 1 / Phase 2 Transition
4. User Requested Changes
5. Building 1 Highlights

Construction Activities - Phase 1

- Building 2 - Shops – Pouring stepped foundations and stems for retaining wall; installing damp proofing and foundation drains.
- Building 4 - Equipment Storage – Installing concrete masonry walls; erecting steel for roof frame.
- Building 6 – Enclosed parking– Continuing framing of the PEMB structure, install of PEMB envelope and masonry.
- Building 7 - Vehicle Wash - Pouring concrete walls of a Vehicle Wash; pouring exterior slab-on-grade, installing trench drain at Vactor Decant area
- Building 8 - Fuel Island – Installing manhole next to fuel station, running conduits.

Construction Activities



Notice-to-proceed issued: March 15, 2022

Look-Ahead:

- Phase 1:
  - Building 2 slab on grade, framing and envelope.
  - Building 4 and 5 roofing and structural steel.
  - Building 6 envelope.
  - Building 7 slab on grade.
- Phase 2:
  - Fill in of existing pond and E&S.
  - Building 1 & site features
- Phase 3:
  - Transition of existing WCD operations into Building 1
  - Demolition of Existing WCD building & remaining site/landscape work

Construction Progress Photos

BUILDING 2

Pouring a stepped foundation

BUILDING 4

Backfilling soil and complacting

BUILDING 6

Continue framing PEMB structure, cleaning the slab

BUILDING 7

Concrete walls framing around Vactor Decant area

BUILDING 7

Installing trench drain in Vactor decant

BUILDING 8

Installing manhole near a fuel Station

Construction Progress Photos

BUILDING 2

Damp proofing and foundation drains

BUILDING 4

CMU wall with supporting steel

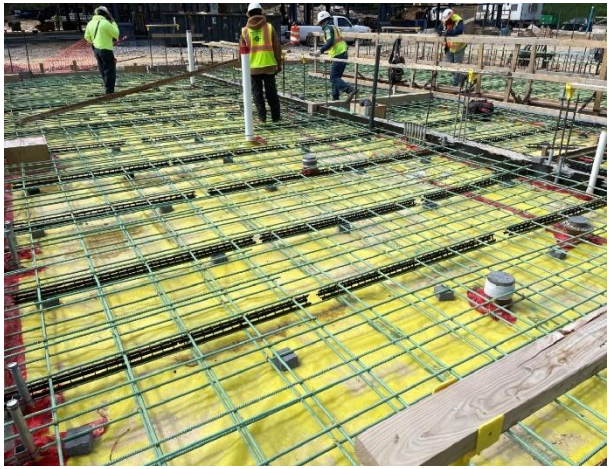
BUILDING 6

Exterior ground face CMU.

BUILDING 7

Underground conduits and piping

Steel reinforcement and gravel at slab



Vapor barrier placement at slab

Construction Aerial Views

Proposed Construction Phasing

Proposed Schedule*

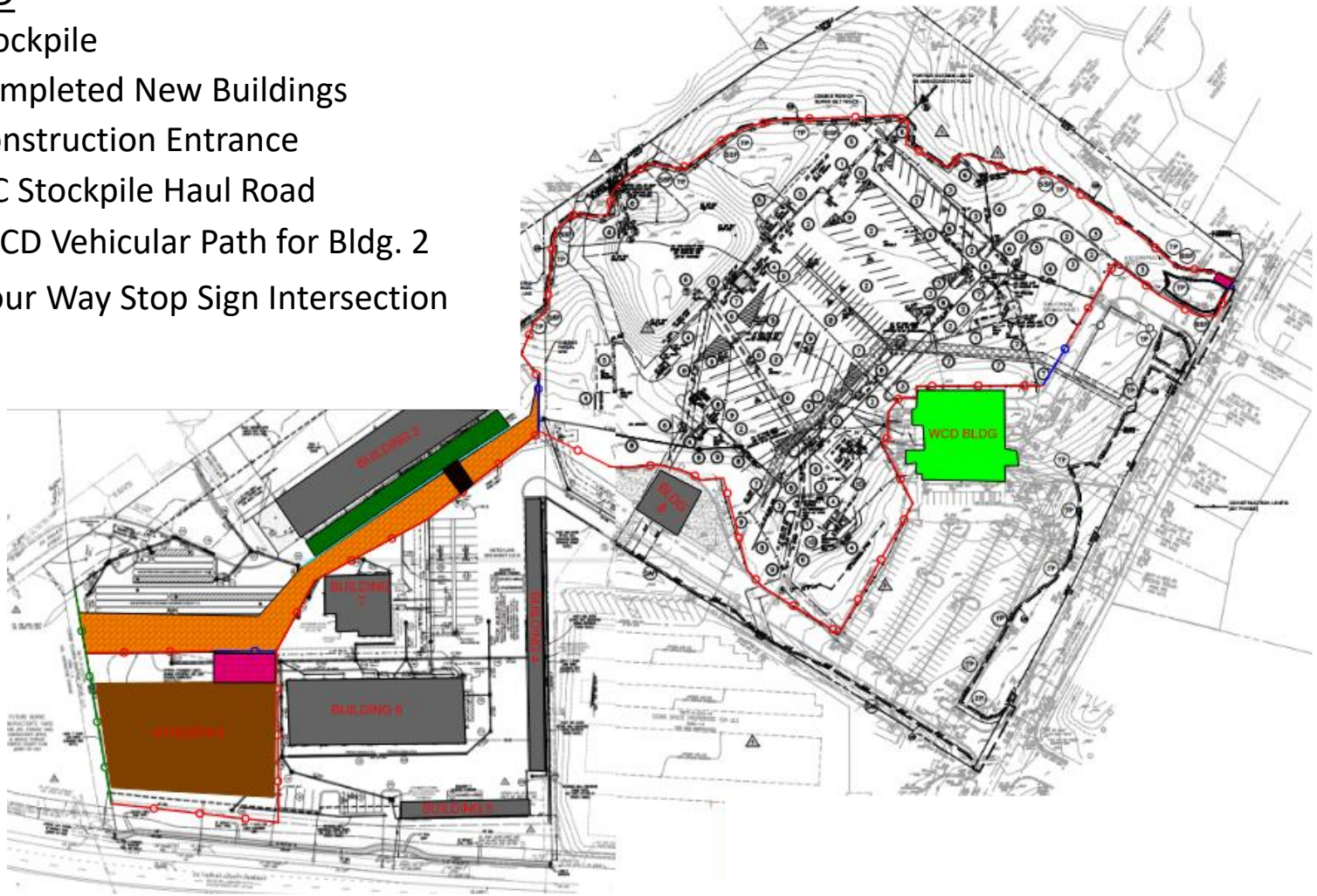
- **Start: March 2022**
- **Phase 1 End: Early 2024**
- **Phase 2 End: Fall 2025**
- **Phase 3 End: Spring 2026**
- **Completion: Summer 2026**

***Schedule may be impacted by unforeseen conditions including weather.**

PHASE 1 / PHASE 2 TRANSITION

LEGEND

- Stockpile
- Completed New Buildings
- Construction Entrance
- GC Stockpile Haul Road
- WCD Vehicular Path for Bldg. 2
- Four Way Stop Sign Intersection



Major User Requested Changes - Status

- Building 7 - Vactor decant area redesign
  - User authorized, design complete , construction underway
- Building 4 - additional GFCI outlet locations
  - design complete, Change Order under review
- Building 1 Changes:
  - Upper Lobby to office area wall soundproofing
  - Flagpole change
    - Issued request for proposal
- Landscaping modifications (mainly for Phase 2 Area) and SW enhancements
  - Under review by SWPD and additional verification by civil consultant
- Future EV infrastructure under consideration
- Items evaluated and no further action:
  - Building 1 - enclosed office for HR with windows in lieu of cubicles
  - Building 1- revisit the cafeteria layout, possible modification

Administrative Offices & Support Area - Building 1

Building 1 – North Façade

Building 1 – North Façade Main Entrance

Building 1 – South Façade Front Elevation

Administrative Offices & Support Area - Building 1

Building 1 – South Façade - Warehouse

Building 1 – North Plaza

Building 1 – North Façade – Mian Entrance

Building 1- Interior Views

Lobby View Section

Upper Lobby View

Building 1- Interior Views

Main Lobby

Open Office Typical

Training Room Typical

Kitchen Seating Area

Sustainability and Educational Features


Photovoltaics Panels


Green Roof


Stormwater Cistern


Rainwater Harvesting


Green Wall


Pervious Pavement Types


Geothermal

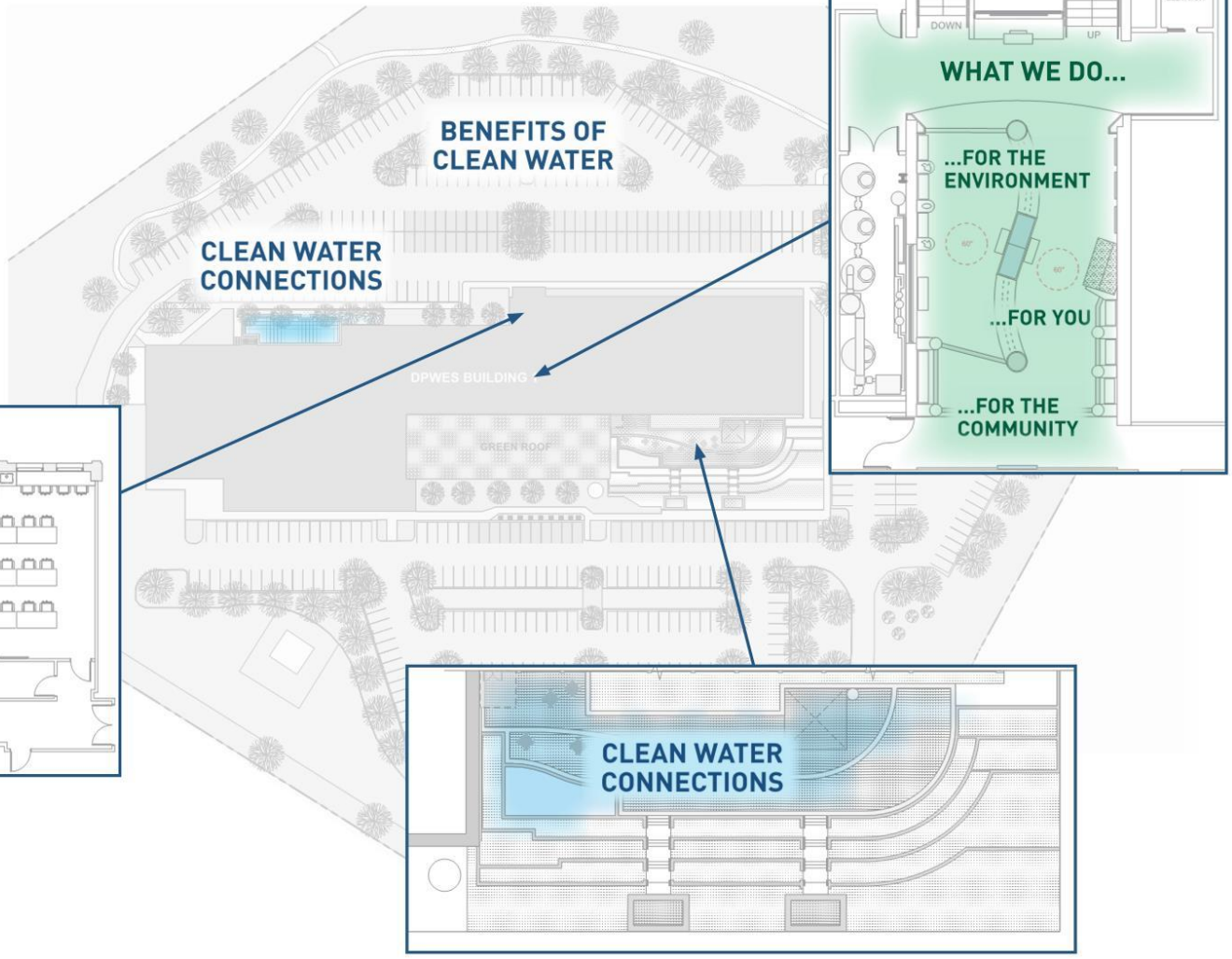
- Targeting LEED Gold Certification
- Green Roof
- Solar Ready-Photovoltaics Panels
- Electrical Vehicles Ready
- Geothermal
- Rainwater Harvesting
- Stormwater Cisterns
- Natural Landscaping
- Bioretention Facilities
- Pervious Pavement Types
- Green Wall
- Video Wall
- Education

Building 1 – Exhibit Design

OVERALL INTERPRETIVE FRAMEWORK

THE BIG IDEA

Clean water is vital to our lives and connects us all. The work done by the DPWES, along with your actions at home, ensures clean water for a healthy community and resilient natural environment.



SECTION ICONS

Icons may be tied to each of these themes to help visitors understand where they are in the overall narrative. Although the specifics of the icon designs will be determined in the Design Development phase, initial ideas include the DPWES logo for *Who We Are*, a water droplet for *What We Do*, a pipe for *Clean Water Connections*, and a tree for *Benefits of Clean Water*.

Building 1 – Sample Exhibit Design

PLAN VIEW - NORTH LOBBY EXHIBIT SPACE

INTERPRETIVE GOALS

How does the work done here impact my life at home and in my community?

Why is clean water important to the natural environment?

Who works at DPWES and what services do they provide?

What can I do in my own home to help?

KEY

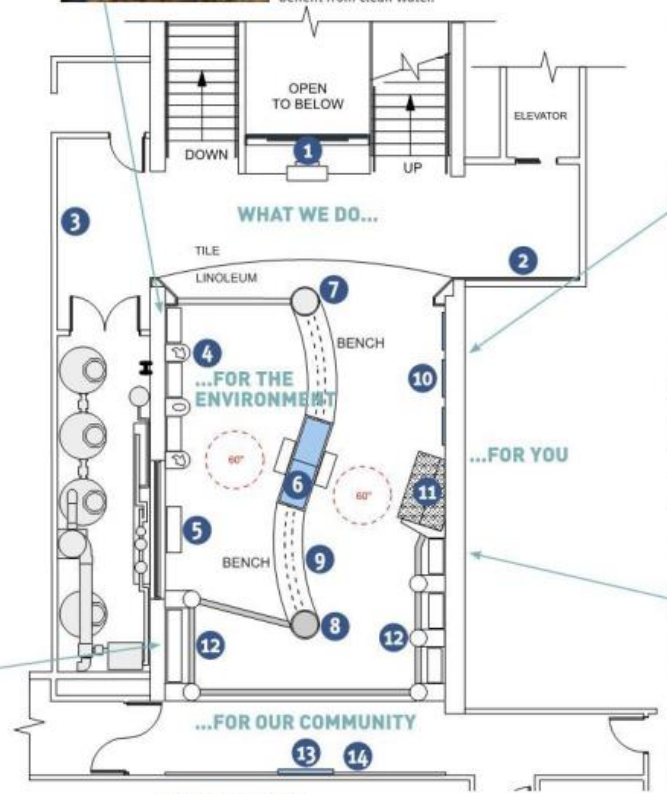
1. Dynamic Balcony Display
2. Wall Mural
3. Image Panels
4. Environment Interactive Wall
5. Rain Collection Reader Rail
6. Fish Tank
7. What Is Stormwater?
8. What Is Wastewater?
9. Bench
10. AV Interactive
11. Interactive House
12. Wastewater Treatment Process
13. AV Screen of Employees
14. Mural of Disciplines and Roles

BENCH

FISH TANK

WASTEWATER TREATMENT PROCESS

NATURE WALL
This interactive wall blends tactile models and mechanical interactives to highlight the waterways, fish, animals, benthics, and natural environment that benefit from clean water.



DPWES WORKERS
The back wall features a looping video monitor displaying workers talking about their careers. A

DYNAMIC BALCONY DISPLAY
A large logo on a glass wall sits atop the balcony overlooking the lower lobby. Edge lighting, subtle movement effects, or faint videos of workers bring the piece to life and draw attention to the upper balcony. Please click this link to learn more about this technique

AV INTERACTIVE
Three multi-touch monitors along the wall enable visitors to build an eco-friendly community. This activit can be completed individually or as a group. An attract screen will flow across all three screens to create a serene environment.

HOUSE MODEL

1 FLOOR PLAN - Upper Lobby Exhibit Area
Scale: 3/32" = 1'-0" 0 1 2 3 4 FT