



E. 79th Street Red Line Rapid Station Reconstruction

May 14, 2019

Operational Planning & Infrastructure
Committee

Greater Cleveland Regional Transit Authority



Project History

- Purpose of this project is to rehabilitate this station and bring it into ADA compliance
- East 79th Street Red Line Station will be the last key station to become ADA compliant
- FTA deadline for compliance is July 26, 2020

Community Involvement

- GCRTA's Community Advisory Committee
- City of Cleveland
 - East Regional Design Review Advisory Committee
 - City Planning Commission
- Orlando Bakery



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Existing Condition



Existing Condition

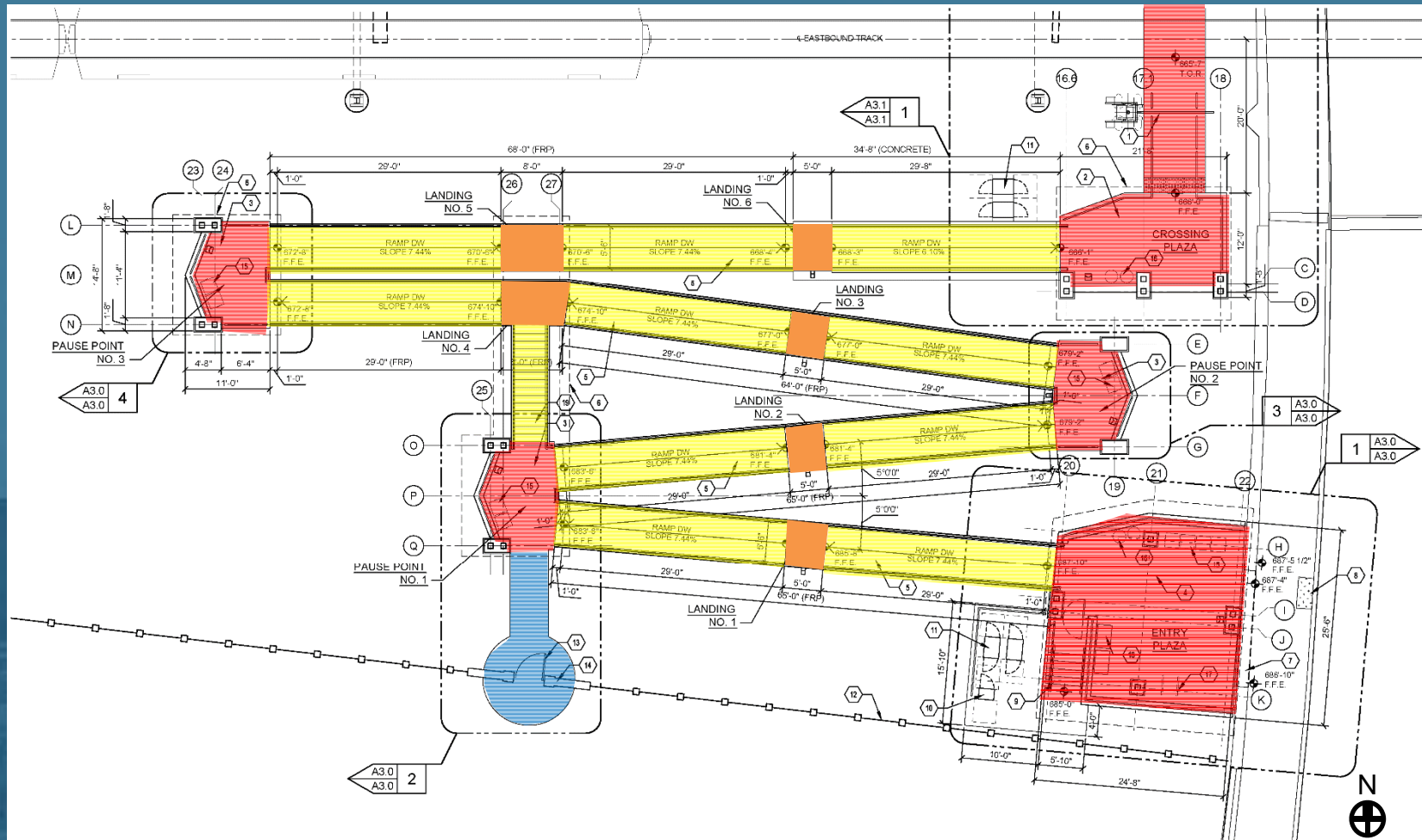


Project Overview

- Scope of Work

- Construction of new ADA compliant access to the E. 79th Street Station's platform
- Replacement of existing platforms with new Fiberglass Reinforced Plastic (FRP) platforms
- Upgraded security and lighting
- Replacement of existing track through platform

Proposed Hillside Walkway Plan



WALKWAY RAMPS:

Slope 1:14 or 7.14%

Length between landings, 30 feet

Rinse between landings, 26 inches

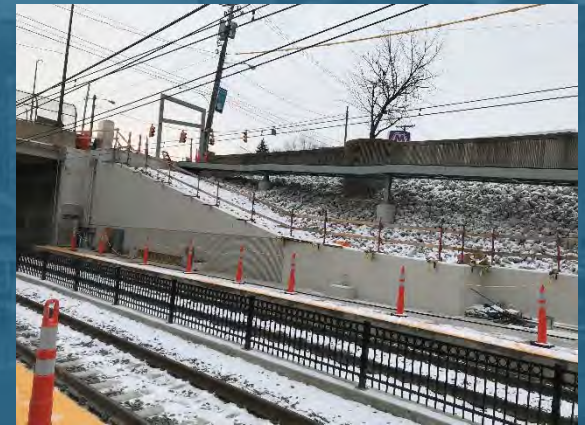
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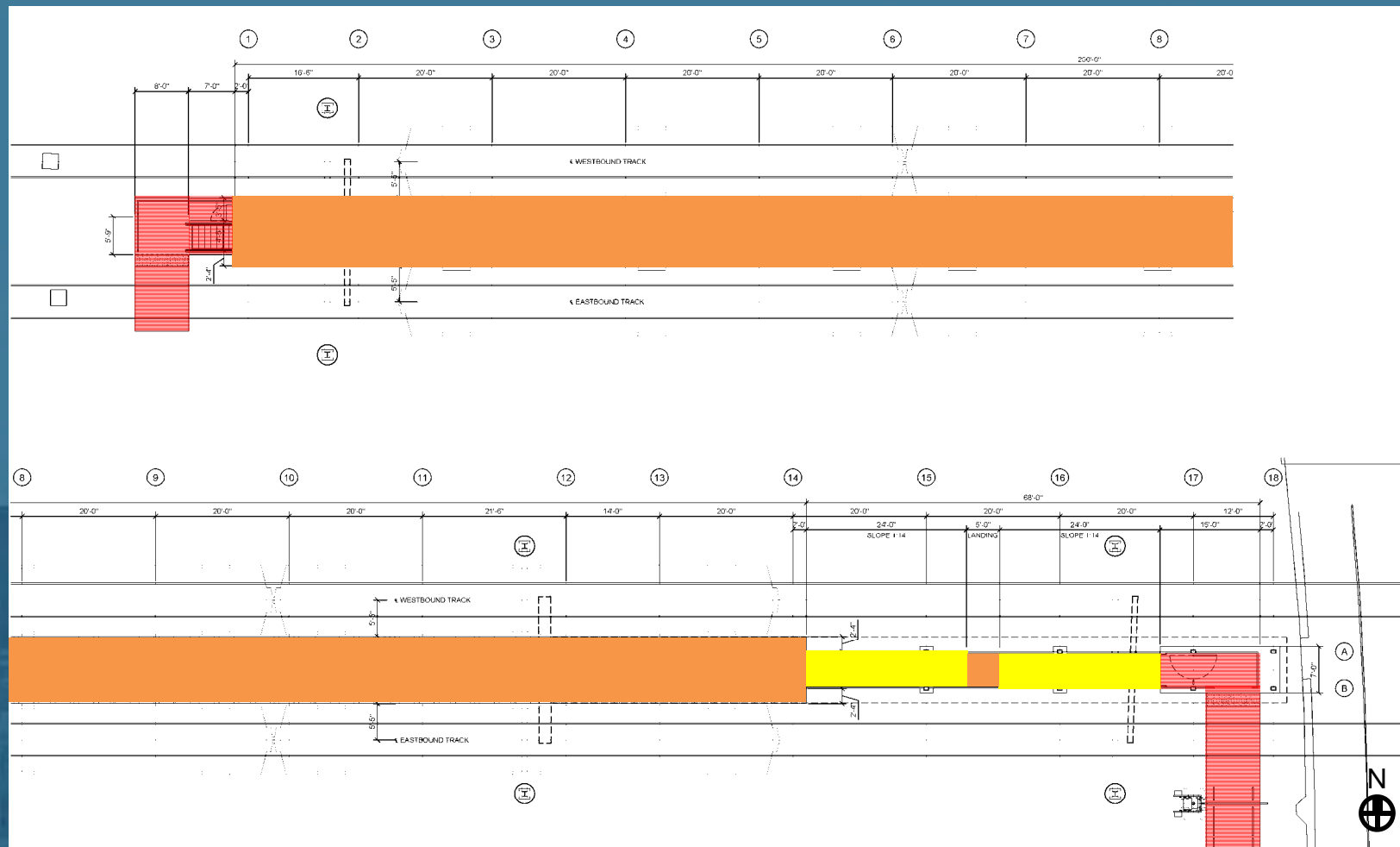
E. 34th St. Station - Crossing Gate



E. 116th Street FRP Walkway



Proposed Platform Plan



PLATFORM RAMP:

Slope 1:14 or 7.14%

Length between landings, 24 feet

Rinse between landings, 20.5 inches

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Interim Design - Aerial View



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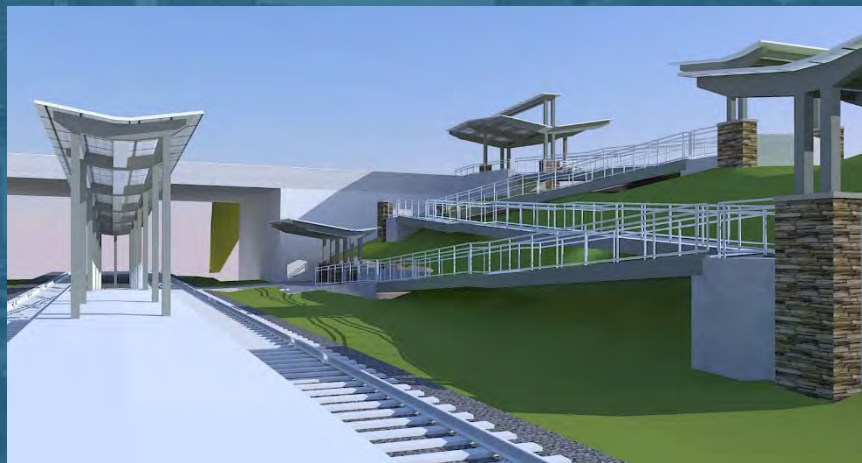
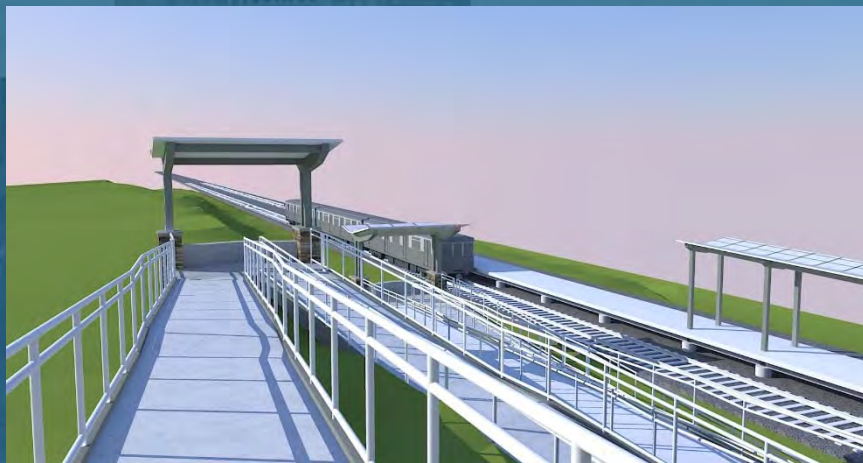
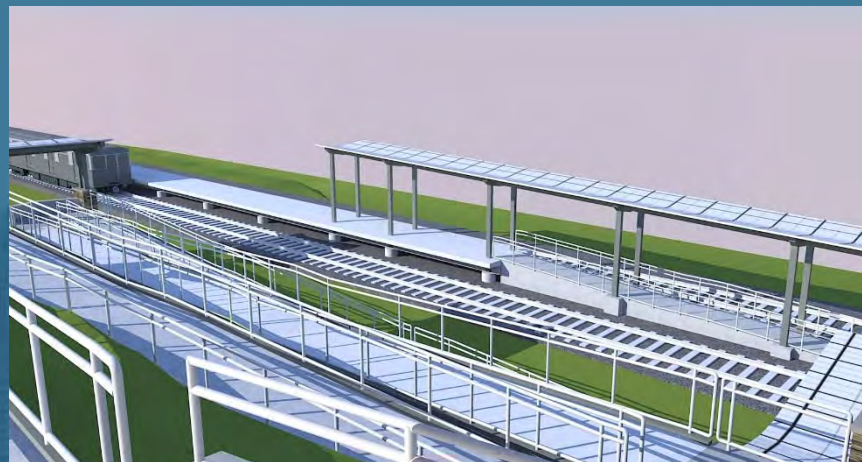
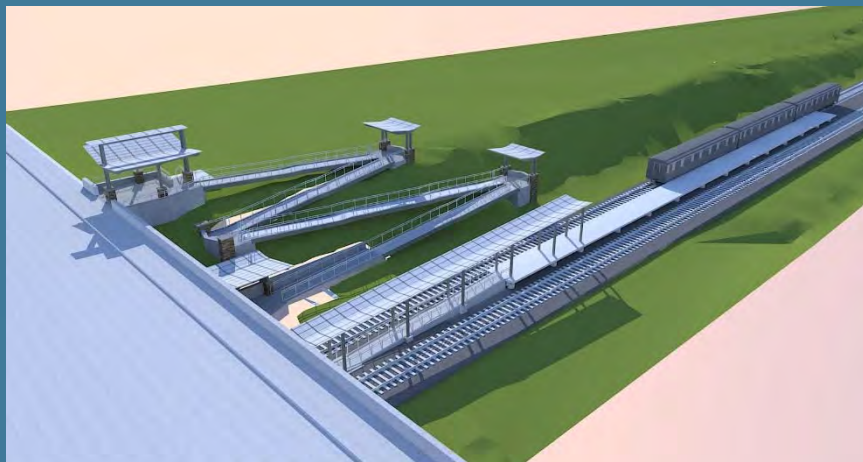
Interim Design - Entry View



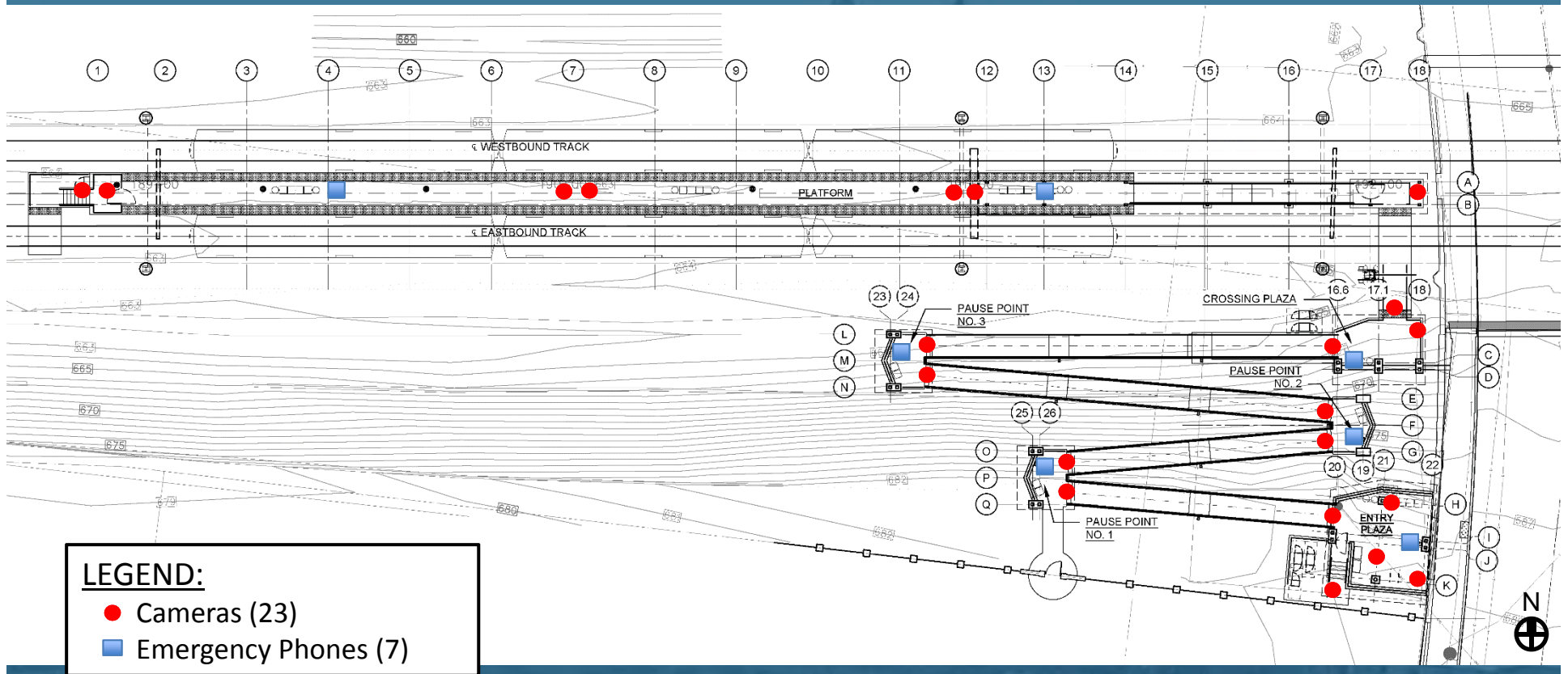
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Interim Design



Crime Prevention Through Environmental Design (CPTED)

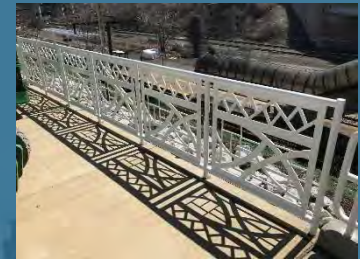


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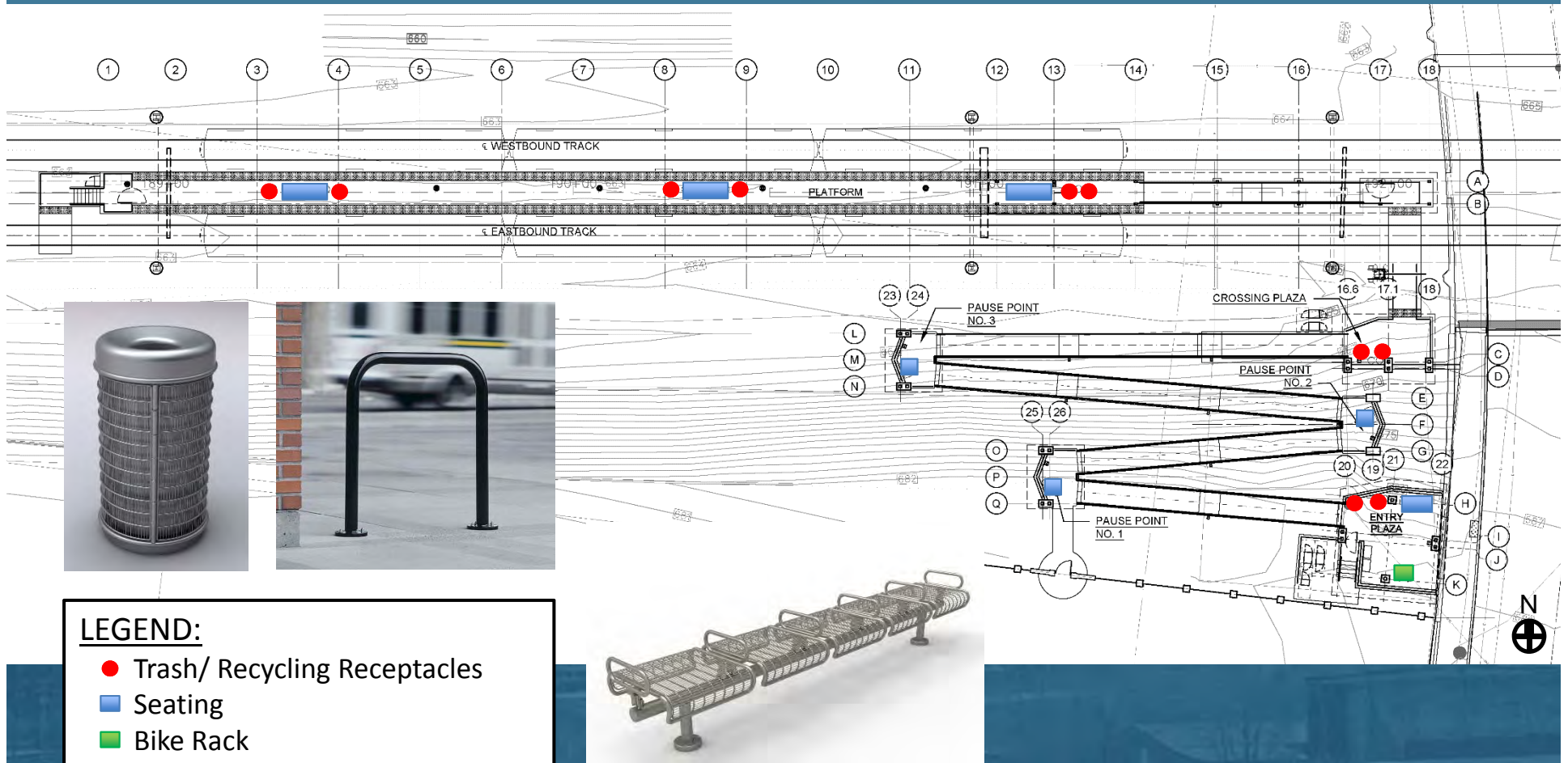


Proposed Materials

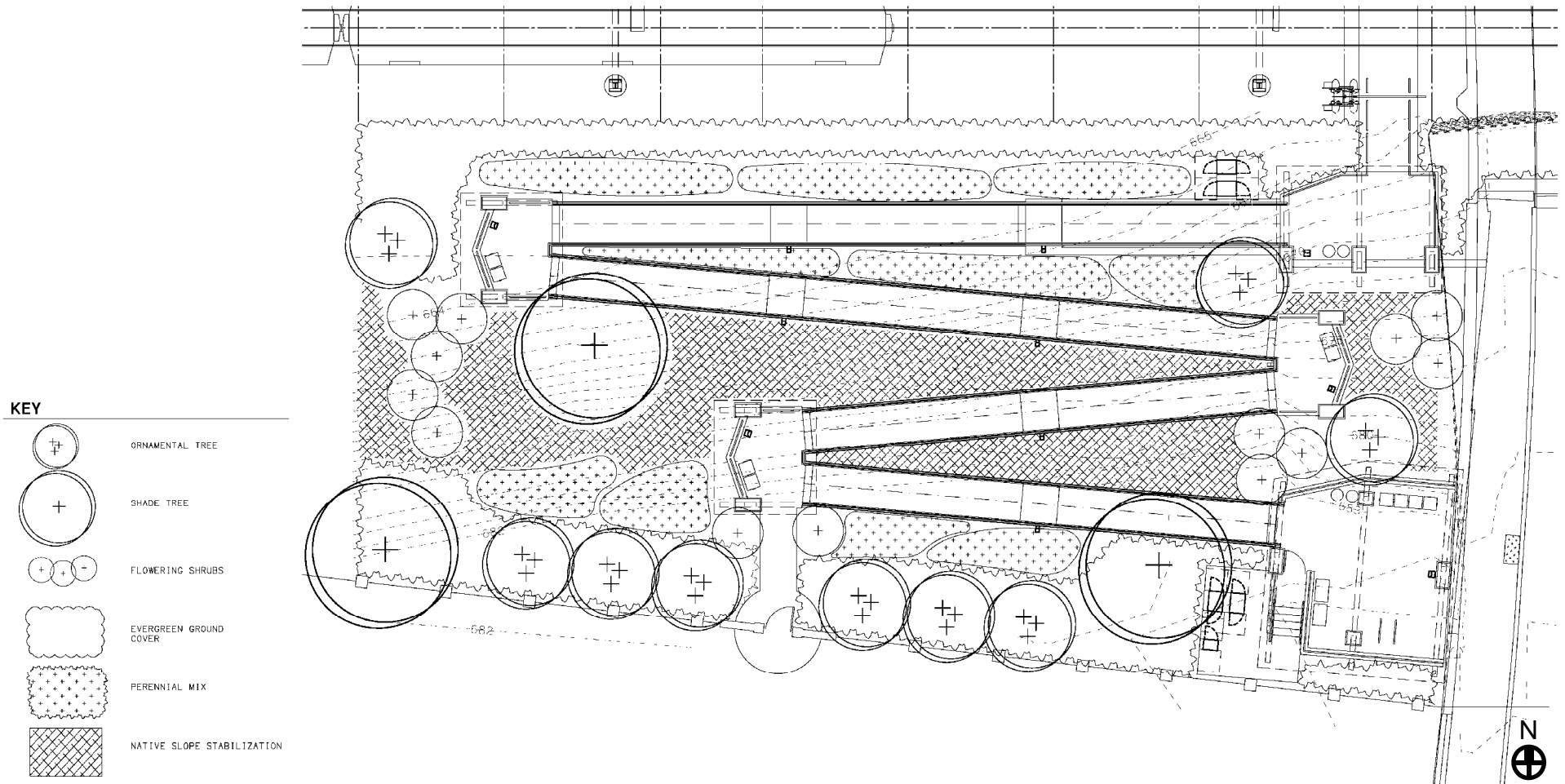
- Cast-in-Place Concrete
- Stone Veneer
- Tube Steel Framing
- Kalwall Canopies
- Thermoplastic Railings
- LED Lighting
- Fiber Reinforced Plastic (FRP) Walkways & Platform



Proposed Site Furnishings



Landscaping



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Sustainability

- SITES

- Program is administered by the Green Building Certification Institute (GBCI)

- Used at Tri-C –
Campus District
Station

CERTIFICATION LEVEL	POINTS
CERTIFIED	70-84
SILVER	85-99
GOLD	100-134
PLATINUM	135+

AREAS	POINTS
1: SITE CONTEXT	13
2: PRE-DESIGN ASSESSMENT + PLANNING	3
3: SITE DESIGN – WATER	23
4: SITE DESIGN – SOIL + VEGETATION	40
5: SITE DESIGN – MATERIALS SELECTION	41
6: SITE DESIGN – HUMAN HEALTH AND WELL-BEING	30
7: CONSTRUCTION	17
8: OPERATIONS + MAINTENANCE	22
9: EDUCATION + PERFORMANCE MONITORING	11
10: INNOVATION OR EXEMPLARY PERFORMANCE	9

Project Schedule

- Environmental Clearance: September 2019
- Construction Bid Documents: Nov. 2019
- Construction Notice to Proceed: March 2020
- Construction Complete: August 2021
 - Station closed during construction

Construction Phase Estimate

- Project Construction Phase: \$10.0 Million
 - Construction: \$8.0 Million
 - Force Account: \$0.5 Million
 - 3rd Party Services: \$0.3 Million
 - Contingency: \$1.2 Million

Project Design Team

- Design being produced by GCRTA Staff
- Consultant Support
 - Surveying: On-call Task
 - Subsurface Investigation: On-call Task
 - Estimating and Scheduling: On-call Task
 - Landscaping and Site Sustainability: On-call Task
 - Safety and Security Certification: RFP
 - Signal System Design: RFP

Signal Engineering Services for the E. 79th Street Station

- GCRTA has no Signal Engineer on staff
- Consultant to provide Signal Engineering Design Services for:
 - Pedestrian Track Crossing Gate
 - Relocation of Junction Box for Impedance Bond

Signal Engineering Services for the E. 79th Street Station

- RFP issued February 4, 2019
- Accessed on the GCRTA web site by thirteen (13) interested parties, including potential sub-consultants
- Three (3) firms proposed
- Three (3) firms were interviewed

Signal Engineering Services for the E. 79th Street Station

- Evaluation Panel Members:
 - Engineering & Project Development
 - Project Support
 - Safety Department
 - Operations
 - Office of Management & Budget
 - Procurement
 - Office of Business Development

Signal Engineering Services for the E. 79th Street Station

- Evaluation Criteria:
 - Project Manager
 - Assigned Staff
 - Past Performance
 - Project Approach
 - Location of the Majority of the Work
 - DBE Participation

Signal Engineering Services for the E. 79th Street Station

- Recommended Vendor:
 - Mott MacDonald, LLC, Cleveland, Ohio
 - 7% DBE Goal will be met by utilizing:
 - Raul V. Bravo + Associates, Inc.
 - Denise's Flagging and Construction Services, Inc.

Signal Engineering Services for the E. 79th Street Station

- Firm Experience:
 - Mott MacDonald, LLC has successfully completed projects for GCRTA, WMATA, CTA, Port Authority of Allegheny County, among others
 - Established in 1902 and supported by approximately 2,300 employees in North America and over 16,000 employees worldwide
 - Experienced/qualified staff with strong technical expertise in rail transit signaling

Signal Engineering Services for the E. 79th Street Station

- Recommendation:
 - Staff requests that the Operational Planning & Infrastructure Committee recommend to the Board of Trustees award to Mott MacDonald, LLC for the Signal Engineering Services for the E. 79th Street Station. The base contract is not to exceed \$194,118.00.

Questions/Comments



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