

2015 FRA Rail Program Delivery



NEW YORK
STATE OF
OPPORTUNITY.

ANDREW M. CUOMO
Governor

**Department of
Transportation**

MATTHEW J. DRISCOLL
Commissioner



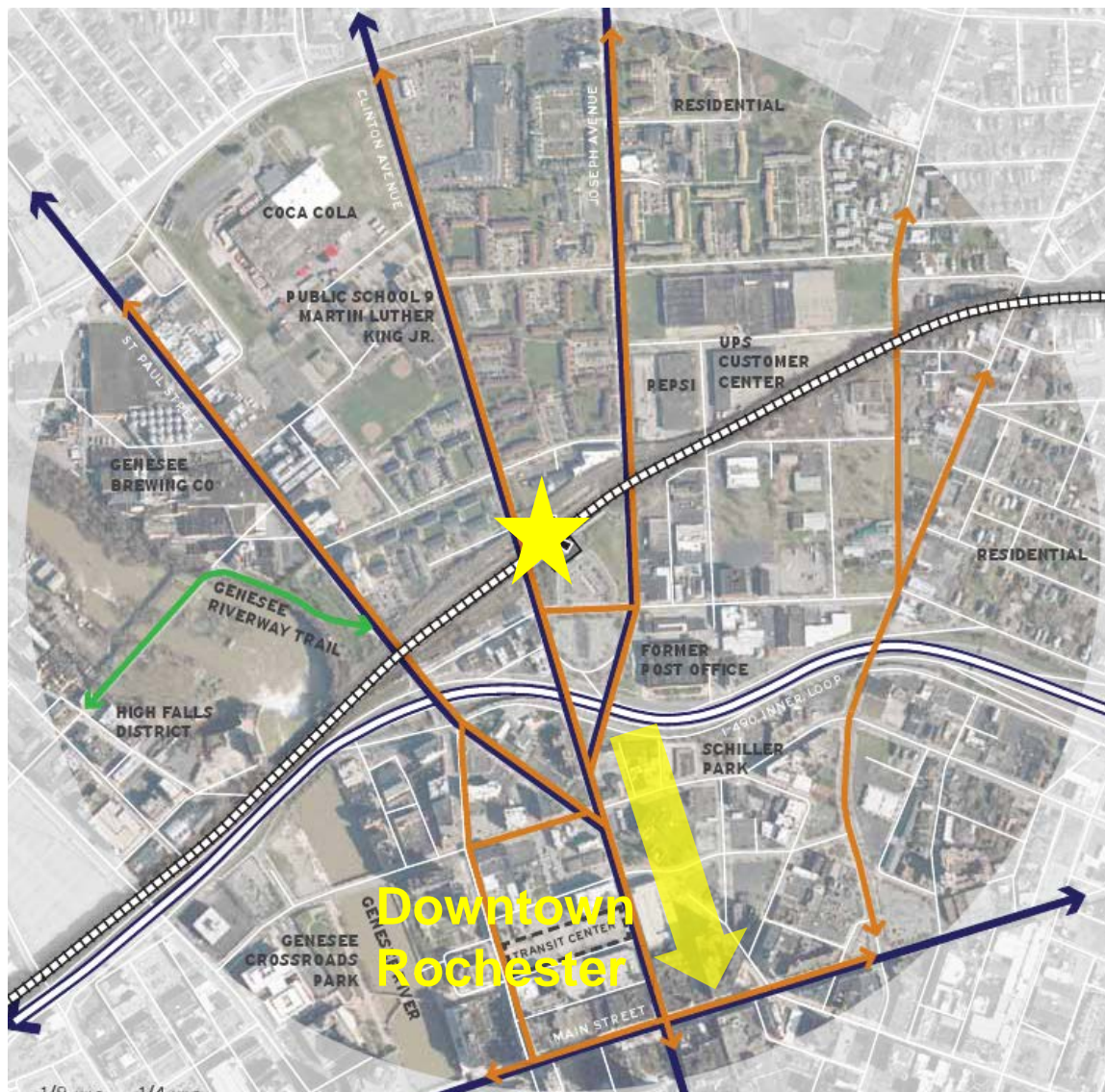
Case Study - Rochester Station – PE/NEPA

Location – Rochester, NY

- Empire Corridor
- 463 miles
- Niagara Falls to New York City
- Shared freight/passenger use



Close to Downtown



Existing Station



Existing Station - Exterior



Existing Station - Interior



Project Site



Purpose

- **Replace 36-year-old Amtrak station with modern intermodal facility promoting economic development**
- **Improve connectivity to downtown for transit, vehicles, pedestrians, and bicycles**
- **Improve passenger amenities, comfort and safety**
- **Full compliance with the Americans with Disabilities Act**
- **Improve Amtrak's operations, reduce delays with dedicated passenger tracks & double-edged, high-level platform**
- **Improve flow of baggage (*Rochester Station accommodates 40,000 pieces of checked baggage annually!*)**



Project Partners



U.S. Department of Transportation
Federal Railroad Administration



City of Rochester, NY

Preliminary Engineering and NEPA Important Steps

For a successful project

- **Scope Development**
- **Public Involvement**
- **Building Consensus**
- **Understanding implications of decisions**
- **Making key decisions**

Scope Development

Scoping began working closely with the City of Rochester and Amtrak



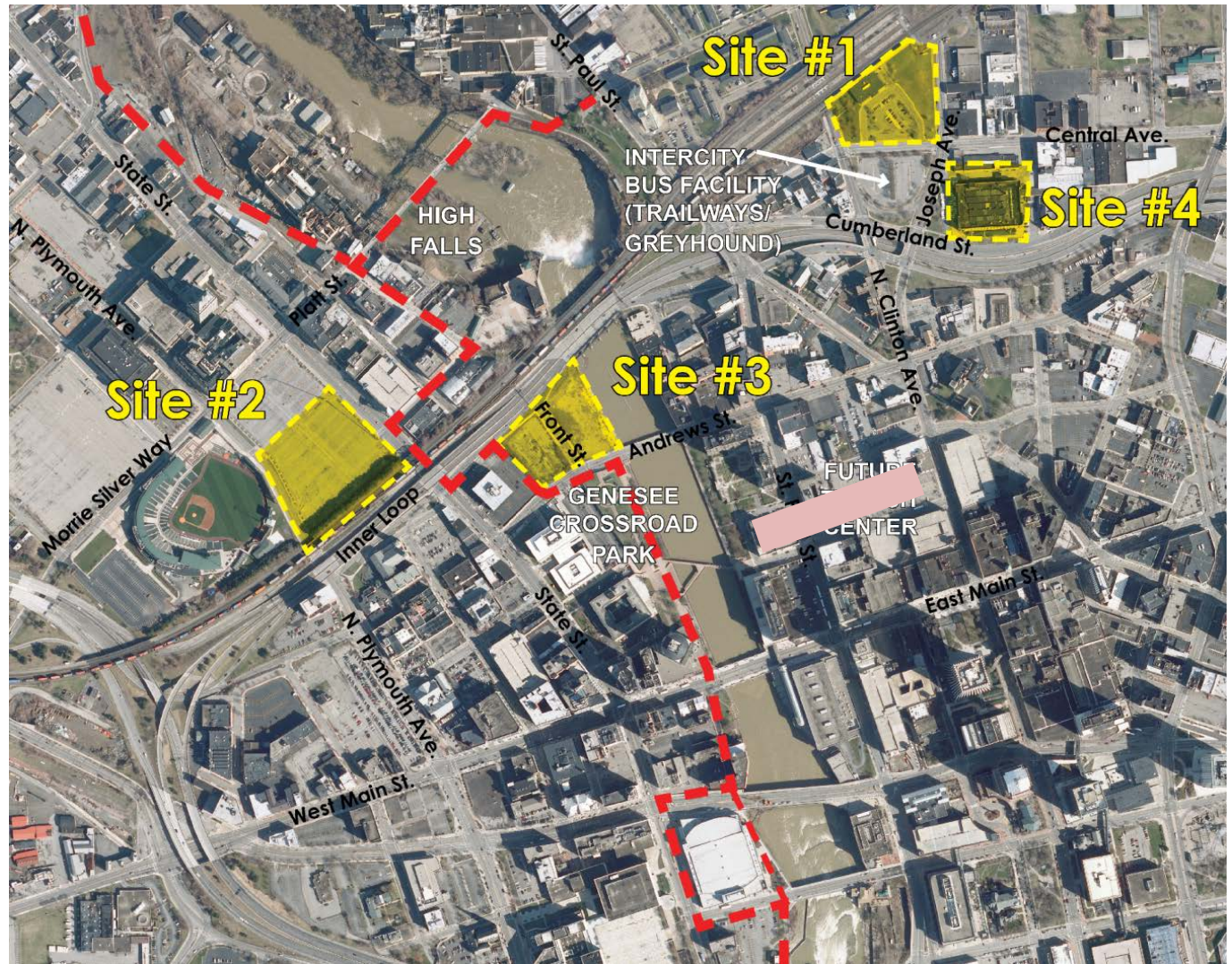
- **City of Rochester hosted several public outreach meetings and worked on the preliminary design for the site and facility**
- **Amtrak hosted “Day in the life of Amtrak Operations”**

Scope Development ...Details

- **Site Selection**
- **Public Involvement**
- **Station Configuration**
- **Station - Platform Access**
- **Track and Platform configuration**
- **Operations - Track and Platform**
- **ADA access/ Baggage transfer**

Site Selection

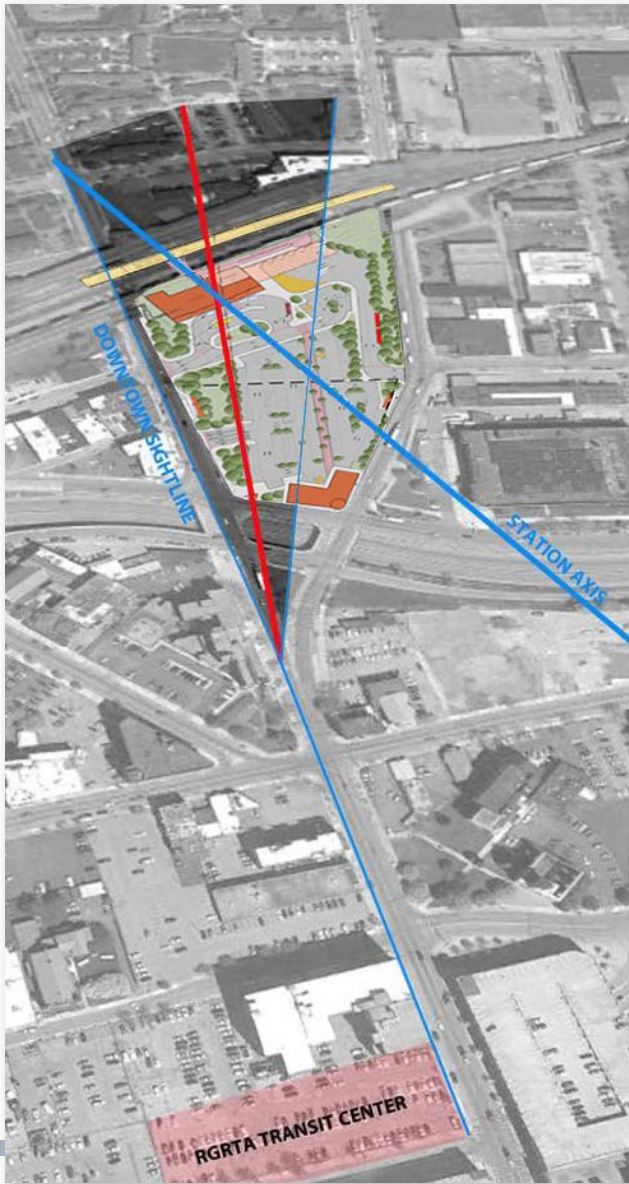
Several possible sites had been suggested in previous studies



Site Selection – Evaluation Criteria

- **Track configuration for passenger & freight operations**
- **ROW/Property availability**
- **Historic and Cultural resource considerations**
- **Constructability**
- **Cost and Schedule**
- **City goals – Smart Growth, bicycle friendly...**
- **Intermodal Connectivity**
- **Parking**
- **Potential infill development**

Site Selection - Ultimately the Existing Site was selected



Provides a clear site layout, organized with the following goals:

- New station to face and be visible to downtown Rochester to the South via North Clinton Avenue.
- Provide connectivity to the new RGRTA Transit Center and other downtown landmarks.
- Create a clear path of circulation into the site and through the station to the new high level passenger platform.
- Locate Station as close to tracks as possible for shortest passenger and baggage travel distance

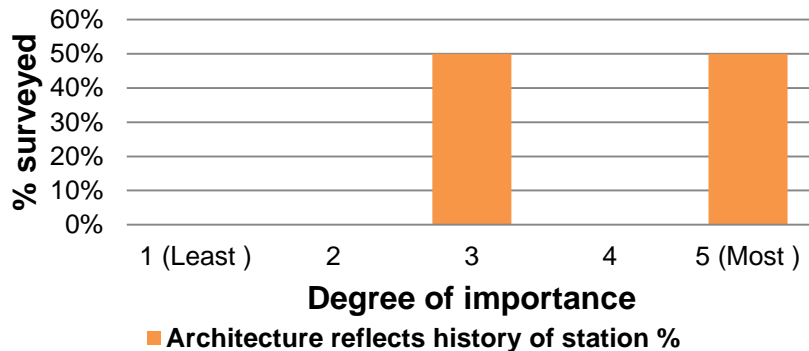
Public Involvement

- **Two Public Information Meetings**
- **Several outreach meetings with key stakeholders including**
 - **Council for People with Disabilities**
 - **Reconnect Rochester**
 - **Rochester Cycling Association**
 - **Rochester area museums**
 - **Colleges and Universities**



Input from Public Involvement

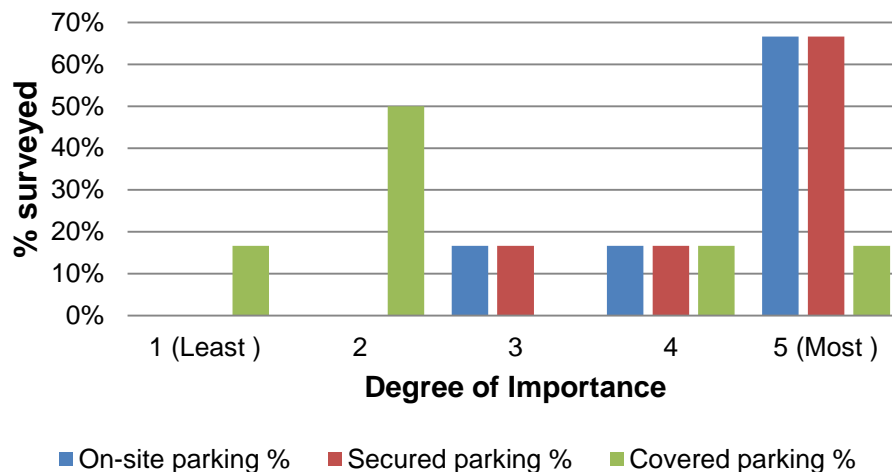
Architecture reflects history of station



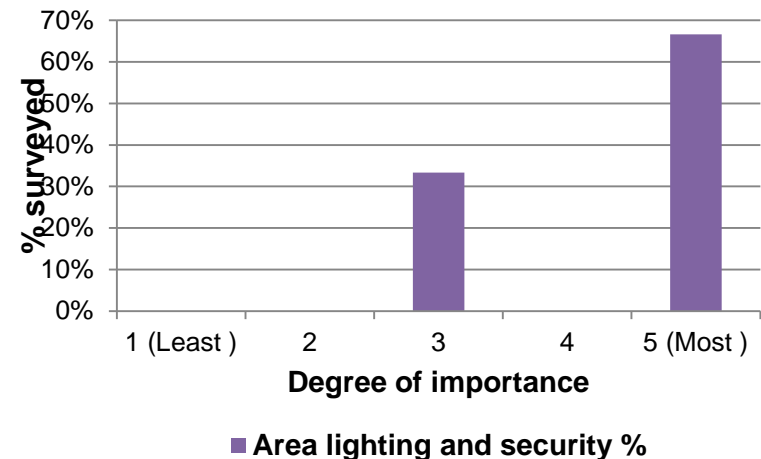
Unique aspects reflecting Rochester's character



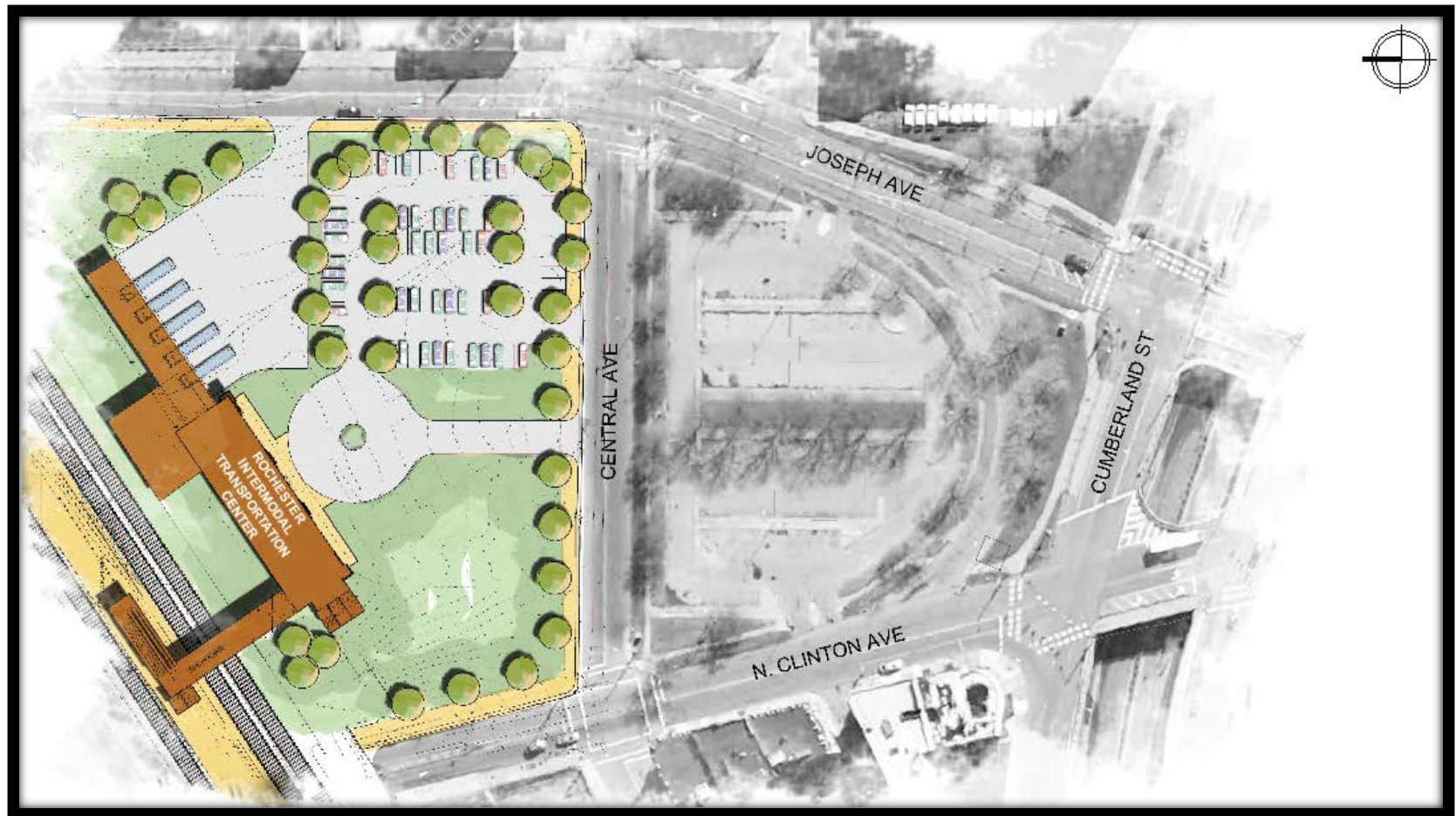
Parking



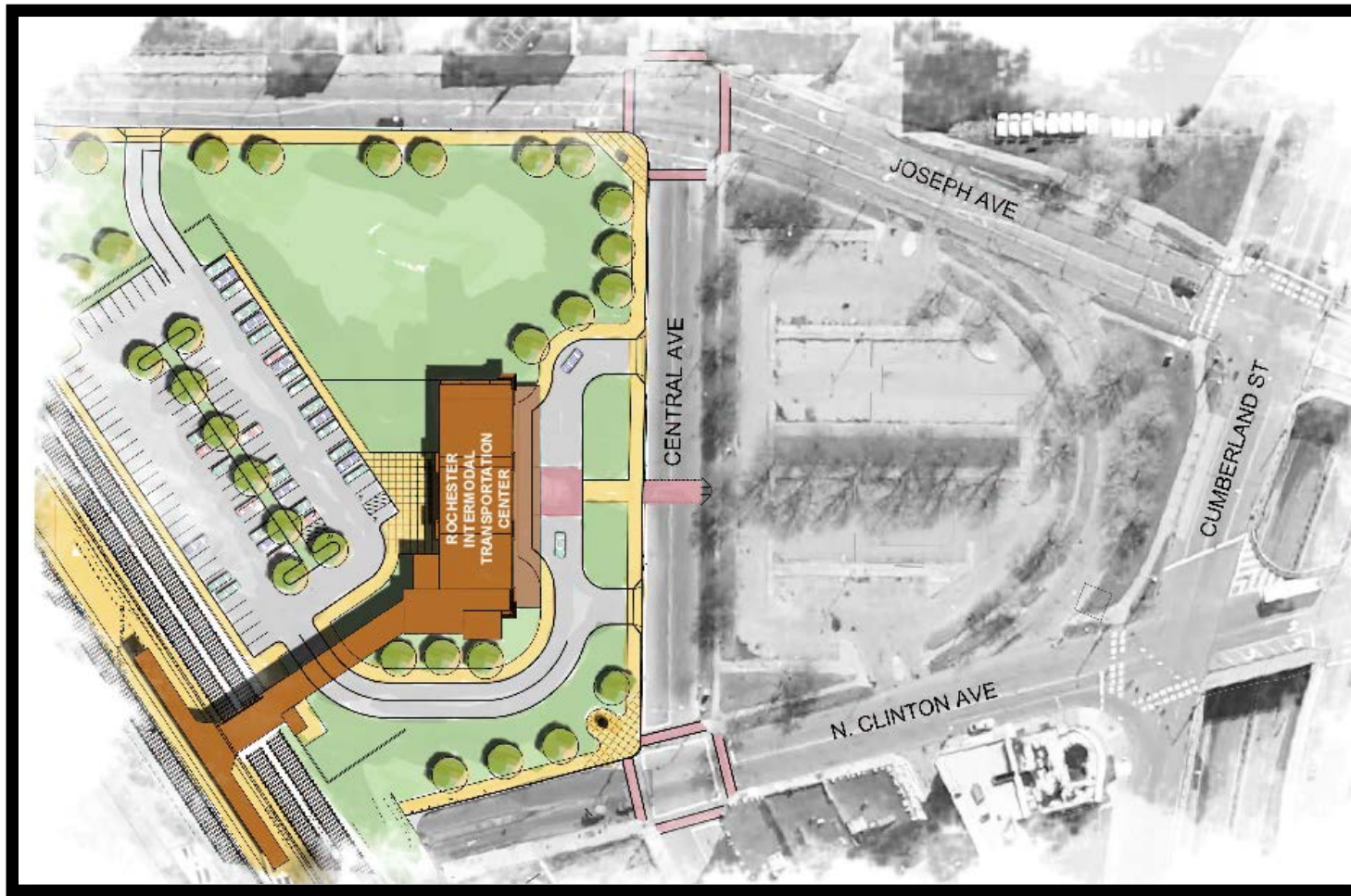
Area lighting and security



Station Configuration – Trackside



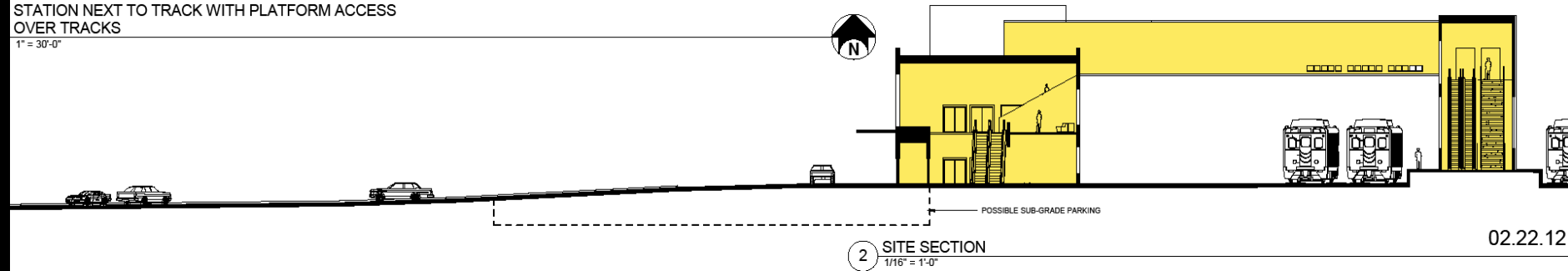
Station Configuration – Streetside



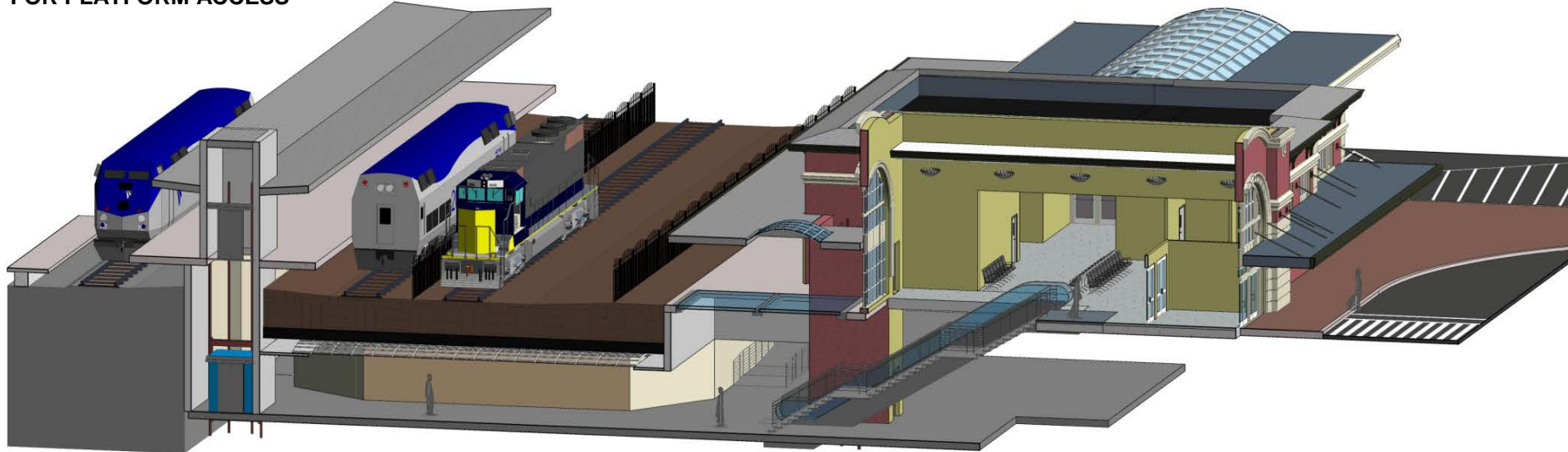
Station – Platform – Access - Trackside

STATION NEXT TO TRACK WITH PLATFORM ACCESS
OVER TRACKS

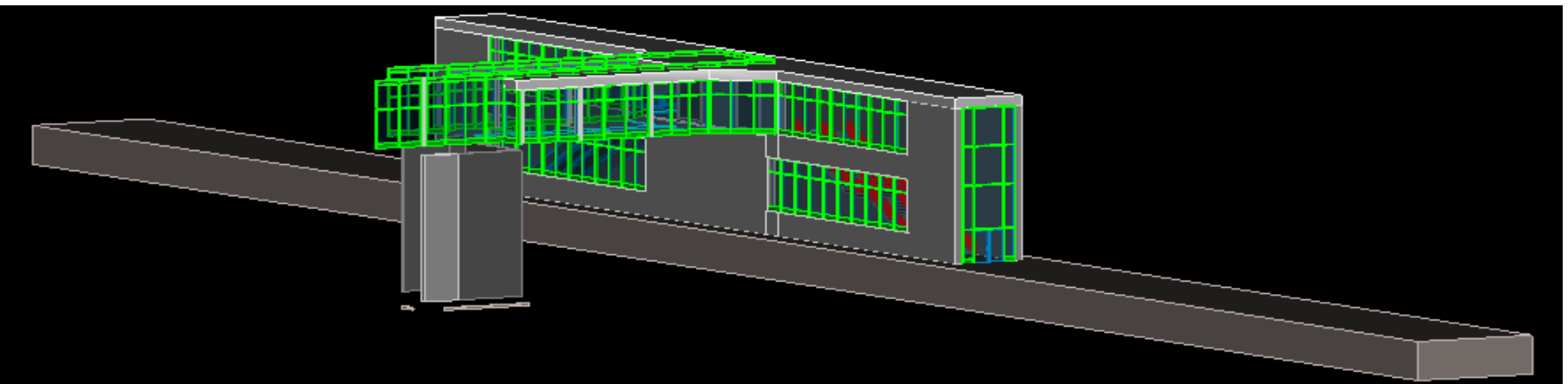
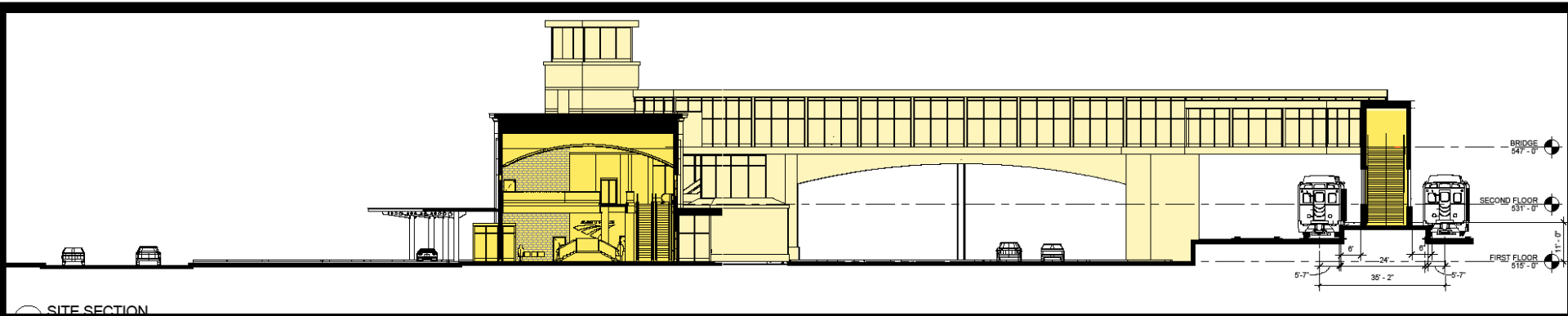
1" = 30'-0"



STATION NEXT TO TRACKS WITH TUNNEL/CONCOURSE
FOR PLATFORM ACCESS



Station – Platform – Access - Streetside



Building Consensus - Working with Amtrak

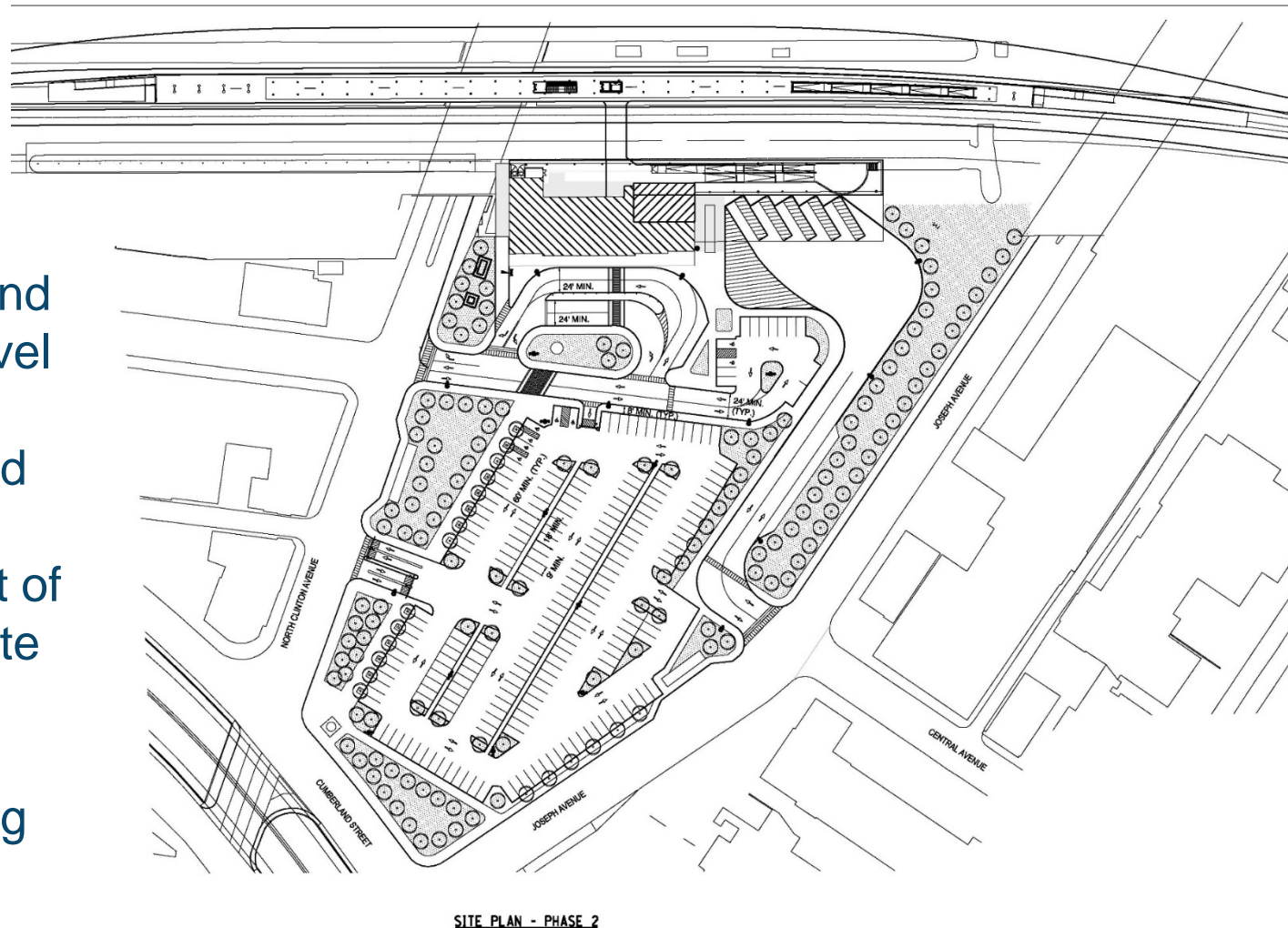
- **Could** accept **streetside** station if a convenient waiting area with restrooms.
- Amount of square footage for proposed station and operation needs.
- Redundant egress routes (stairs, escalators and elevators) recommended.
- Parking spaces to be greater than 90 and with security.
- Prefers Traditional style building.



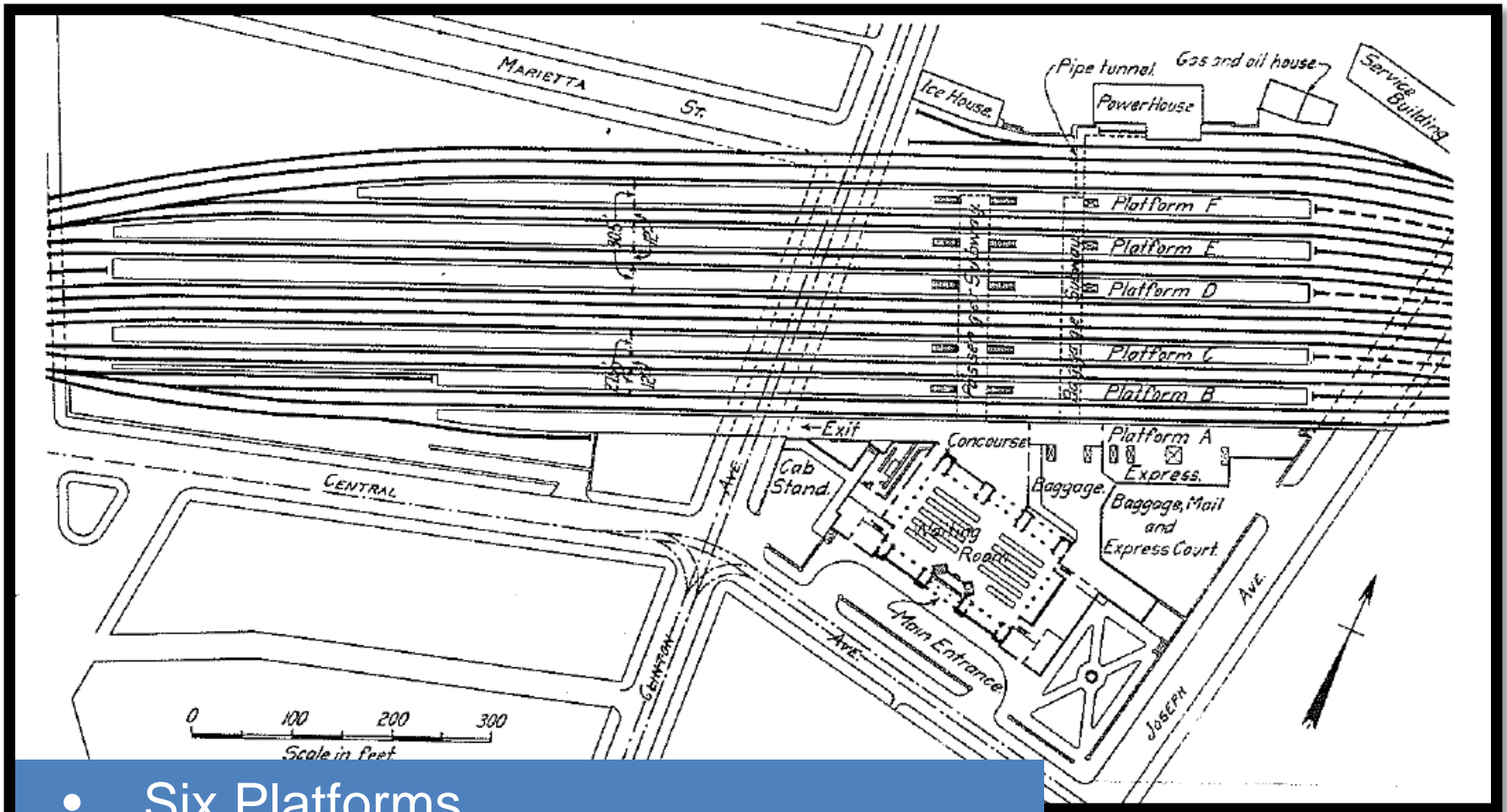
Trackside station was selected

Station close to tracks allowed

- shortest passenger and baggage travel distance
- Best provided for future development of adjacent State owned lot
- Provided for future parking needs



Track and Platform Configuration - Historic

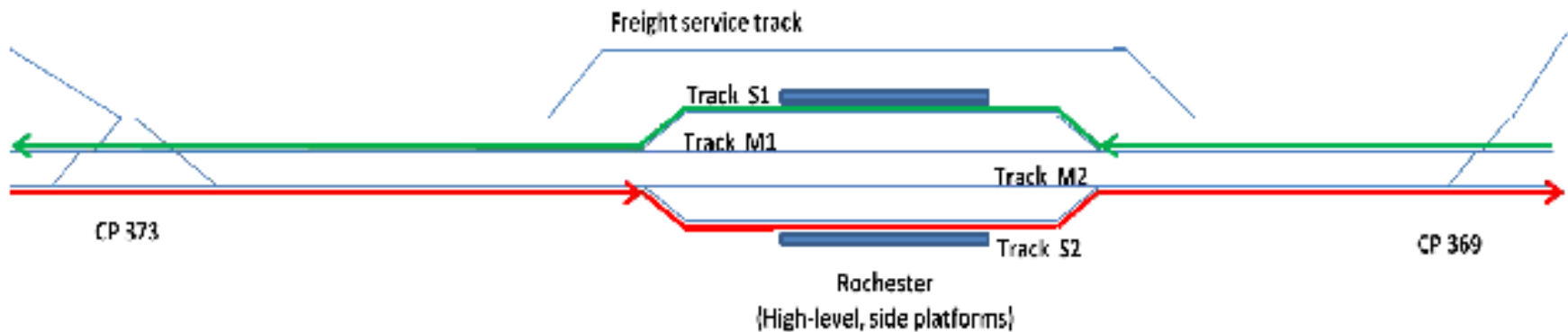


- Six Platforms
- Eleven Platform Tracks
- Two Through Passenger Tracks
- Two Through Freight Tracks

Operations – Track and Platform

Option 1

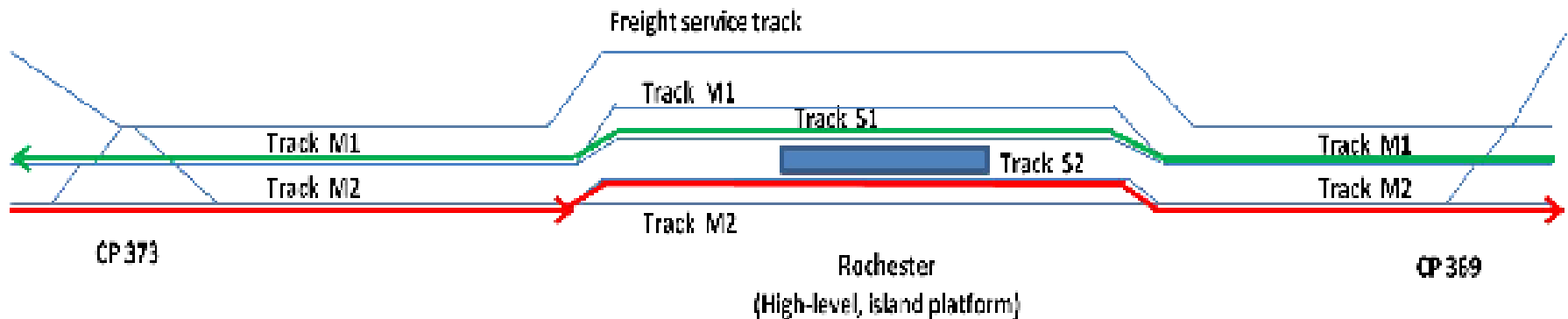
- One of the two options favorable for FRA, Amtrak & CSX movement
- Two high level platforms with one serviceable edge each
- Passenger tracks are located on either side of the two mainline tracks
- Total of four additional switches to be maintained.



Operations – Track and Platform

Option 3

- One of the two options favorable for FRA, Amtrak and CSX movement
- Single platform with two platform edges
- Passenger tracks is located inside of the two mainline tracks
- Total of four additional switches to be maintained.



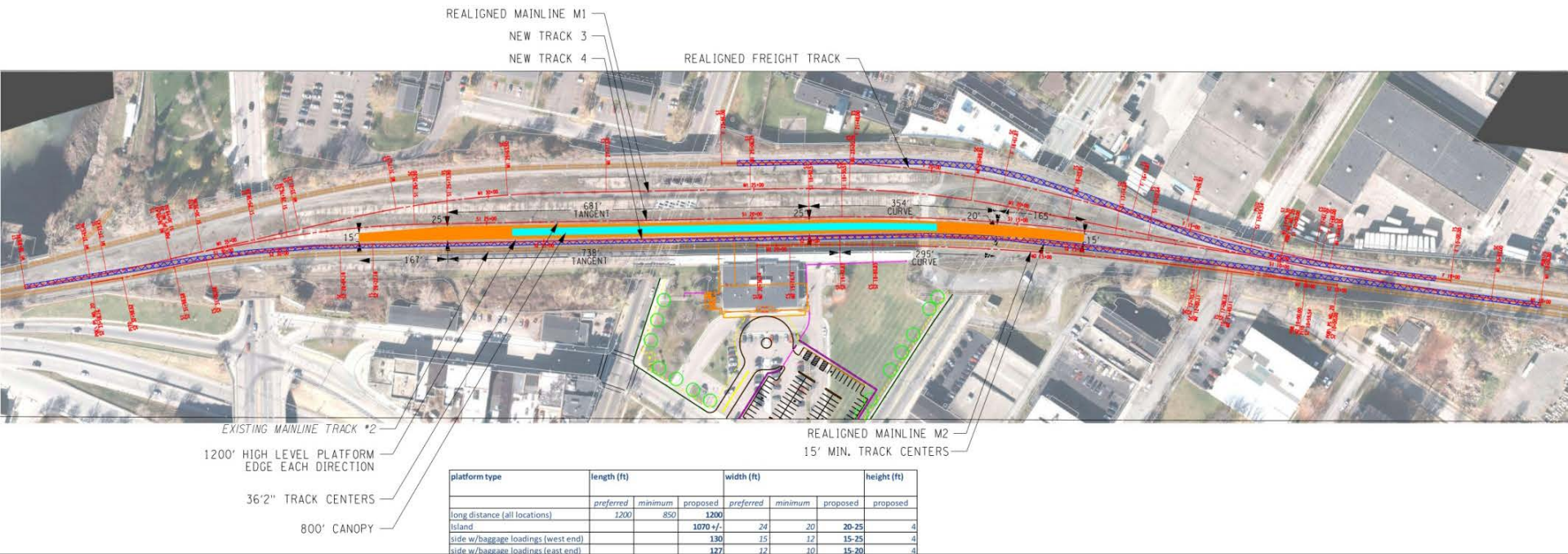
ADA Access/Baggage Transfer - Considerations

- **In addition to looking at the rail operations, ADA and Emergency access and Baggage movements were considered.**
- **A matrix was developed to compare –**
 - Passenger/Baggage routing and conflicts
 - Vertical movements and safety/ease for all concerned
 - Existing vs new tunnel
 - Structural
 - Maintenance
 - Constructability
 - Cost

And ultimately ...

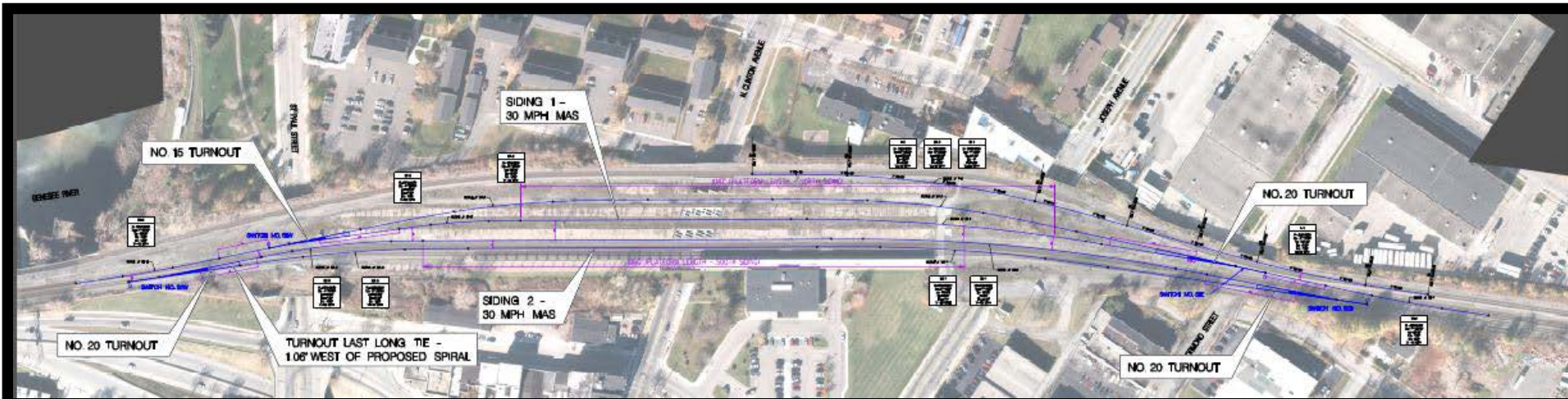


Ultimately Track Option 3 was selected (Center Island Platform)



Track and Platform Configuration

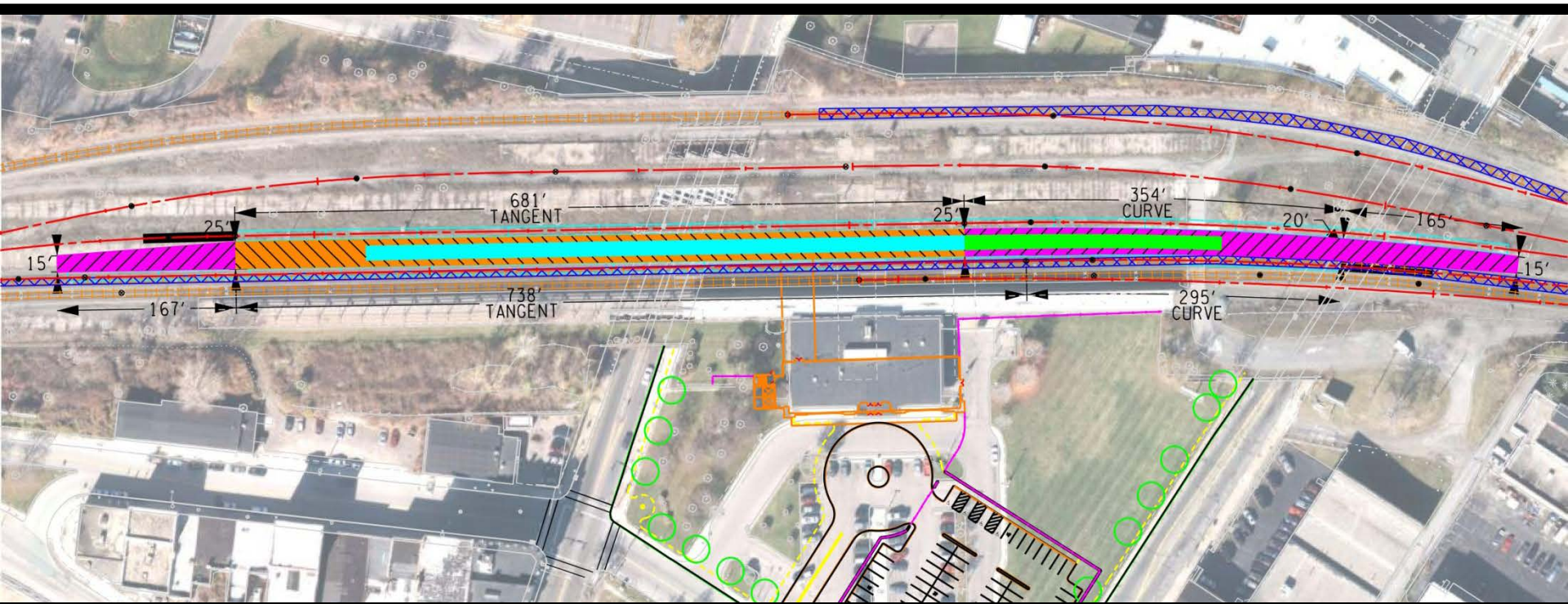
Bridge Constraints



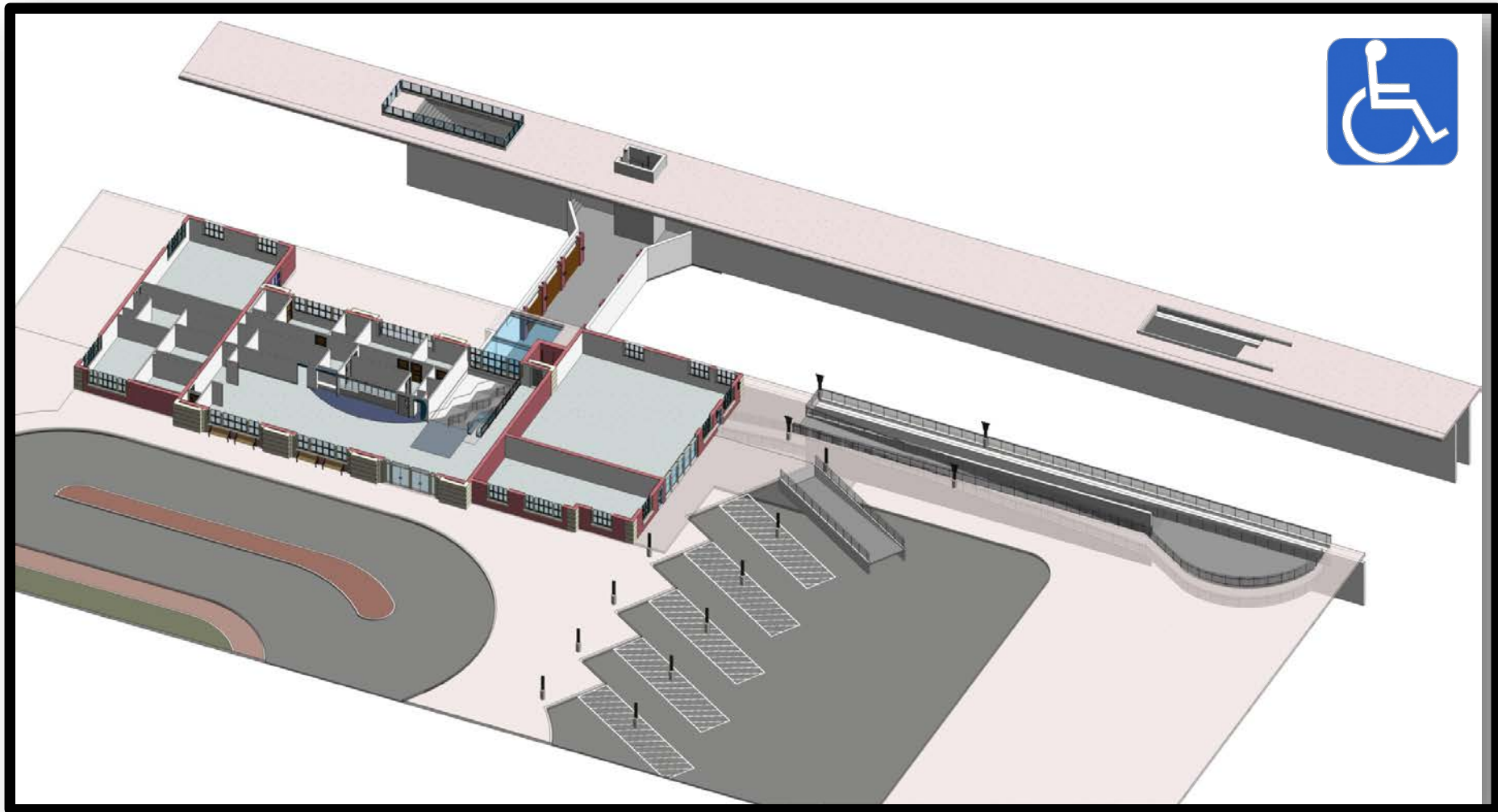
- Five bridges within station limits
- One over a river
- Four over streets
- Tracks needed to use historical alignments
- Keep turnouts off Genesee River Bridge



Platform Configuration

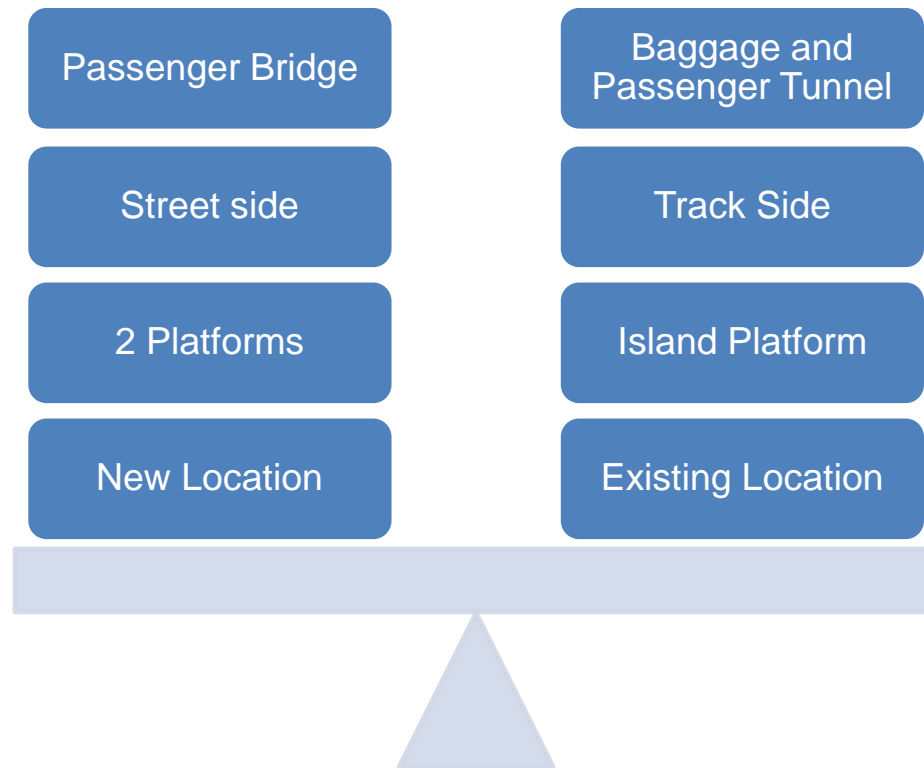


New Pedestrian and Baggage Tunnel Was Selected



- ADA compliant ramps on station and platform designed
- Redundant emergency egress routes

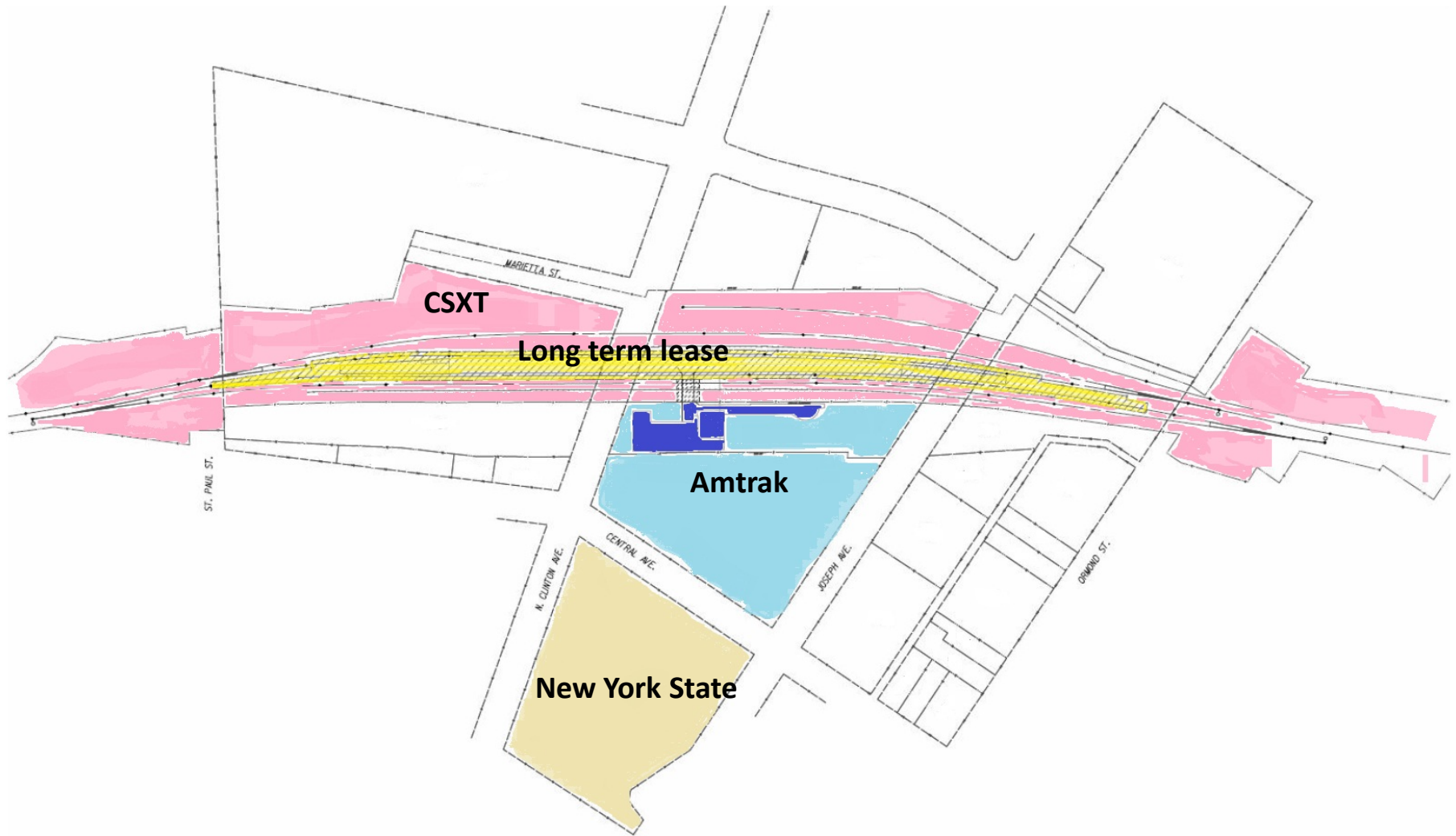
Key Decisions Reached During Preliminary Engineering



Preliminary Engineering and NEPA process – Key Decisions Design

- **Track side station with improved sightlines to downtown**
- **Option 3 track layout that had a configuration of high level island platform with new passenger sidings**
- **Tunnel/Concourse for pedestrian and baggage access**
- **Ramped access for baggage transfer which was also served as redundant ADA compliant emergency egress**
- **Ramps and closed emergency areas of refuge on either side of the high level island platform**

Next Step - Agreements



Project Timeline

2010 through 2011

- **\$2.9M to complete Preliminary Engineering and NEPA work**
- **City of Rochester – Lead on Facility**
- **NYSDOT – Lead on the Track and Platform Layout developed project including**
 - Public outreach
 - Alternatives developed
 - Environmental assessment

2011 – Unsuccessful TIGER application



Project Timeline

2012 Applied for and Won TIGER grant

2012 Design Build legislation passed in NYS

2013 RFP issued by NYSDOT for DB construction

2014

- **NYSDOT and CSXT sign a long term lease for the Track and Platform Area**
- **NYSDOT and Amtrak reach agreement for Construction and Maintenance**
- **Best Value Design Builder selected – The Pike Company**
- **Final Design and Construction Begins**

2015 – Construction Continues



Technical Challenges After Preliminary Engineering Was Completed

- Approval of detailed construction sequencing for new track configuration, high level platform and tunnel/concourse.
- Protection and Safety of CSX, Amtrak, Amtrak Passengers and Construction Workers
(There are 60 – 80 trains that run through Rochester 365 days per year)
- Maintaining Continuity of Rail Service for CSX and Amtrak During Construction.
- Coordination with CSX and Amtrak Operations to Limit Work Stoppages.
- Construction of the High Level Platform that is in close proximity to active RR Tracks.

Technical Challenges

- Reinforcing 4 RR Bridges that were built in the early 1900's to meet current RR Loading
- Geotechnical Analysis, Earth Retention and Deep Foundations
- Managing and Controlling Vibration Generated by Construction
- Existing Tunnel Removal and Asbestos Abatement
- Unknown Subsurface Conditions resulting from Demolition of Original Train Station
- Coordination of CSX Forces RR Track work with Construction Schedule
- Seamless Design and Construction from Phase 1 to Phase 2 (if approved)

Construction - Platform Area



Construction - Trackwork



Construction - Trackwork



A lot of Progress on Site



Construction - Platform



Platform and Baggage Tunnel



Soon to be obsolete



This Project is Going Great!



Bridge Work



Track work



Temporary Station



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Thank You!