PUBLIC PROCESS

☑ Purpose of Feb 16 discussion: input on project function & features
☑ Purpose of April 9 discussion: input on building design strategies
☑ Purpose of June 26 discussion: input on suggested design proposal
☑ Purpose of Nov 13 discussion: input on proposed design refinements
☑ Purpose of Mar 20 discussion: input on phasing & design details

➢ Purpose of tonight’s discussion: Final Design refinement and phasing
AGENDA

• Project overview
• Pedestrian bridge design
• Lighting design
• Phasing
AMENITIES

Bike Racks
INTERNAL CIRCULATION

Ground floor

Second floor

Salem Station Improvements and Parking Garage, Bridge Street, Salem, MA
Public Meeting
June 19, 2013
SITE ACCESSIBILITY

ACCESSIBLE PATHWAY
COVERED SEATING/ WAITING
UNCOVERED SEATING
AMENITIES

Canopy Design

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ELEVATION TREATMENT

Boston & Maine Railroad
Locomotive 1455, Salem MA
AMENITIES

Pedestrian Plaza

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ELEVATION TREATMENT
ELEVATIONS
MATERIALS

Perforated Metal Screens

Metal Color Palette

Textured Concrete

Brick
VIEW FROM ACCESS ROADWAY
TRACKSIDE VIEW
Pedestrian bridge
Pedestrian bridge
Pedestrian bridge

**Objectives:** Safety, Celebratory, Respectful

**Considerations:**
- Double-sided, multi-level, 3-point connector
- Celebrate entry
- Identifiable from distance, pedestrian scaled
- Respect signal tower
- Safe and protected from weather
Pedestrian Bridge Design - Studies
AMENITIES

Pedestrian Bridge Design - Studies
VIEW FROM WASHINGTON ST.
AMENITIES

Pedestrian Bridge Design
Opportunities for art program integration
Opportunities for art program integration
Opportunities for art program integration
Lighting
Objective: Safety with respect to context.

Considerations:
• Personal safety
• Effect on neighbors
• Effect on broader community /sense of place

Requirements:
• MBTA standards
• Industry standards
• State building and energy codes
• Sustainable design / ‘green’ initiatives
**LIGHTING DESIGN - APPROACH**

<table>
<thead>
<tr>
<th>Primary zones:</th>
<th>Updated relative levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>0</td>
</tr>
<tr>
<td>Garage roof</td>
<td>0</td>
</tr>
<tr>
<td>Site driveways/bikeways</td>
<td>-</td>
</tr>
<tr>
<td>Site walkways</td>
<td>-</td>
</tr>
<tr>
<td>Garage interior</td>
<td>-</td>
</tr>
<tr>
<td>Pedestrian entrances, bridges</td>
<td>+</td>
</tr>
<tr>
<td>Stairs, elevators, lobbies</td>
<td>++</td>
</tr>
</tbody>
</table>

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Public Meeting June 19, 2013
Fixture selection:
- Type
- Output
- Height
- Distance
- Configuration
## LIGHTING DESIGN - APPROACH

<table>
<thead>
<tr>
<th>Primary zones:</th>
<th>Updated relative levels</th>
<th>MBTA Standard</th>
<th>Industry Standard</th>
<th>Proposed Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>0</td>
<td>20-30</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Garage roof</td>
<td>0</td>
<td>3-5</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Site driveways/bikeways</td>
<td>-</td>
<td>3-5</td>
<td>.6</td>
<td>2.5</td>
</tr>
<tr>
<td>Site walkways</td>
<td>-</td>
<td>3-5</td>
<td>.6</td>
<td>2</td>
</tr>
<tr>
<td>Garage interior</td>
<td>-</td>
<td>3-5</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Pedestrian entrances, bridges</td>
<td>+</td>
<td>15</td>
<td>4.3</td>
<td>10</td>
</tr>
<tr>
<td>Stairs, elevators, lobbies</td>
<td>++</td>
<td>25-30</td>
<td>2</td>
<td>20</td>
</tr>
</tbody>
</table>

- Industry standard based on IESNA RP-20
- Values are average values across the entire zone, variations will occur within and between zones
- Design values do not include ambient light levels

**ALL VALUES LISTED IN FOOTCANDLES**
**LIGHTING DESIGN - comparison**

<table>
<thead>
<tr>
<th>Primary zones:</th>
<th>Wonderland</th>
<th>Salem Proposed Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>GARAGE ROOF:</td>
<td>4 fc ave.</td>
<td>4 fc ave.</td>
</tr>
<tr>
<td>perimeter light poles</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>light pole height</td>
<td>24’</td>
<td>20’</td>
</tr>
<tr>
<td>GARAGE INTERIOR:</td>
<td>7.5 fc ave.</td>
<td>2 fc ave.</td>
</tr>
<tr>
<td>light fixture distance from exterior opening</td>
<td>17’-0”</td>
<td>18’-0”</td>
</tr>
</tbody>
</table>

Note: Wonderland garage light levels are based upon field measurements taken in June 2013.
SITE LIGHTING ZONES

- SITE LIGHTING ZONES
  - PATHWAY/PROMENADE LIGHTING
  - ROADWAY LIGHTING
  - ROOFTOP GARAGE LIGHTING
  - PLATFORM LIGHTING
  - AMBIENT LIGHTING

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LIGHTING DESIGN - APPROACH

RELATIVE LIGHT LEVELS
Phasing
CONSTRUCTION SCHEDULE AND PHASING

Priorities:
• Safety
• Keep station open / maintain functionality of modes
• Minimize number of phase changes affecting public
• Cost & Schedule
REMOTE PARKING
APPRAOCH: **SAFELY MAINTAIN SERVICES**

**Services to remain on-site during construction:**
- Passenger Rail
- Buses
- HP parking, HP pickup/drop-off
- The RIDE pickup/drop-off
- (2) Pedestrian access points at Bridge and Washington
- (1) Bicycle access point at Bridge

**Services to be relocated off-site during construction:**
- Automobile parking
- Automobile pickup/drop-off
- Taxi stand

Construction phasing plans provided by Consigli Construction
CONSTRUCTION PHASING

Salem Station Improvements & Parking Garage
Site Logistics & Phasing
Phase 1: Spring - Winter

Construction phasing plans provided by Consigli Construction
CONSTRUCTION PHASING

Salem Station Improvements & Parking Garage
Site Logistics & Phasing
Phase 2: Spring - Fall

Construction phasing plans provided by Consigli Construction
PROPOSED TAXI AND KISS & RIDE OPTIONS- OFFSITE

- Proposed lane taking for kiss-and-ride
- Temp ramp and stair to MBTA site
- Existing bus #465 stop to be relocated
- Proposed taxi stand
- Proposed relocated bus #465 stop
- Exist. fire hydrant
- 4 SPACES
- 22 SPACES
- 3 SPACES