

Building Envelope: Install R40 minimum insulation above the suspended ceiling on the second deck to reduce heat loss/heat gain through the roof.

Building 13 repairs will include:

Building Envelope: Install R40 minimum insulation to the exposed underside of the concrete roof deck. Replaces existing lighting with LED.

Building 14 repairs will include:

Plumbing: Replace three existing toilets with new High Efficiency Toilets (HET) of 1.28 GPF. Replace two existing urinals with new High Efficiency Urinals (HEU) rated at 0.125 GPF. Replace one existing 2.5 GPM showerhead with new High Efficiency showerheads rate at 1.5 GPM. Replace 4 existing lavatories with new lavatories equipped with 0.5 gpm aeratprs. Building Envelope: Install R40 minimum insulation to the underside of the concrete roof deck on the second floor. Replace the existing lighting with LED.

2.0 PROJECT OBJECTIVES

2.1 APPLICABLE CODES AND STANDARDS

Not used.

2.2 SUSTAINABLE DESIGN

Design and construct project per sustainability requirements identified in Section 01 33 29.05 20, *Sustainability Requirements For Design-Build*. Additional specific sustainability requirements are found in this document.

2.3 STORMWATER MANAGMENT - LOW IMPACT DEVELOPMENT (LID)

Not used

3.0 SITE ANALYSIS

Not used

4.0 BUILDING REQUIREMENTS

Not used

5.0 ROOM REQUIREMENTS

Not used.

6.0 ENGINEERING SYSTEMS REQUIREMENTS (ESR)

- A10 Foundations
- A20 Basement Construction
- B10 Superstructure
- B20 Exterior Closure
- B30 Roofing
- C10 Interior Construction
- C20 Stairs
- C30 Interior Finishes
- D10 Conveying Systems
- D20 Plumbing
- D30 HVAC
- D40 Fire Protection Systems
- D50 Electrical Power and Lighting
- E10 Equipment
- E20 Furnishings
- F10 Special Construction
- F20 Selective Building Demo
- G10 Site Preparations
- G20 Site Improvements
- G30 Site Civil/Mechanical Utilities
- G40 Site Electrical Utilities

A10 FOUNDATION

Not applicable

A20 BASEMENT CONSTRUCTION

Not applicable

B10 SUPERSTRUCTURE

Not applicable

B20 EXTERIOR ENCLOSURE

B2010 EXTERIOR WALLS

Not applicable

B2020 EXTERIOR WINDOWS

Not used.

B2030 EXTERIOR DOORS

Not used.

B30 ROOFING

Building 11: Provide R40 insulation above the existing suspended ceiling on the second floor.

Building 13: Provide R40 insulation at the exposed underside of the concrete roof deck.

Building 14: Provide R40 insulation at the underside of the concrete roof deck. There is an existing suspended acoustical tile ceiling at the second floor. The contractor will be required to remove sections of the existing ceiling to access the roof deck and install the new insulation.

Provide a dewpoint calculation for the new roof assembly in these buildings. Include this analysis in the design calculations.

B3010 ROOF COVERINGS

Not applicable

B3020 PERFORMANCE REQUIREMENTS

Not applicable

B3030 WIND UPLIFT AND FIRE RESISTANCE REQUIREMENTS

Not applicable

B3040 ROOF WARRANTY

Not applicable

B3050 ROOF SPECIFICATION AND DETAILING

Not applicable

B3060 ROOF DESIGNER REQUIREMENTS

Not applicable

B3070 QUALITY CONTROL PROGRAM

Not applicable