



Repair tunnels and structure – Structures



Scope:

- Replace TBT Cross Passage Doors
- Waterproof Tunnels & Structures
- Fall Protection
- Wayside Regulatory Signage
- Platform Edge Structure Renewal

Total Program: \$451.2 M

Measure RR Cashflow Forecast (\$ Millions)

Project	Thru FY18	FY19	Total
TBT Cross Passage	\$7.6	\$1.5	\$9.1
Waterproof Tunnels & Structures	\$2.5	\$2.0	\$4.5
Fall Protection	\$1.6	\$2.7	\$4.3
Wayside Signage	\$0.5	\$0.7	\$1.2
Platform Edges	\$0.3	\$0.3	\$0.6
Total	\$12.5	\$7.2	19.7



Repair tunnels and structure – Transbay Tube (TBT) Retrofit options



Scope:

Full retrofit of 7 additional TBT sections

Total Program: \$53.75 M

Measure RR Cashflow Forecast (\$ Millions)

Project	Thru FY18	FY19	Total
TBT Retrofit Options	\$1.6	\$8.7	\$10.3



Repair tunnels and structure – Upper A-Line Seismic Operability Upgrade



Scope:

Preliminary engineering of the Upper A-Line retrofit (from Lake Merritt to Coliseum)

Total Program: \$5 M

Measure RR Cashflow Forecast (\$ Millions)

Project	Thru FY18	FY19	Total
Upper A-Line Retrofit PE	\$2.0	\$2.0	\$4.0



Repair tunnels and structure – Berkeley Hills Tunnel (BHT) Creep



Scope:

- Excavate interior lining of BHT tunnel
- Realign the trackway

Total Program: \$60 M

Measure RR Cashflow Forecast (\$ Millions)

Project	Thru FY18	FY19	Total
BHT Creep Repair	\$3.0	\$7.8	\$10.8