

**Division 20 Board Report 2021-0765
February 2022**

DIVISION 20 LOP INCREASE

DIVISION 20 PORTAL WIDENING TURNBACK FACILITY

RECOMMENDATION:

AMENDING the Life of Project (LOP) budget by \$75,000,000

Current LOP: \$801,749,577 Revised LOP \$876,749,577

BACKGROUND

- Purple Line Full Funding Grant Agreement (FFGA) for PLE1 requires capacity for 4-minute headways.
- Metro's commitment to meet the terms of the FFGA, existing portal must be widened and a turnback track constructed
- PLE 1, 2 and 3 will add vehicles to the Metro Fleet, requiring increased Yard storage
- Original contract includes substantial upgrades to power the new turnback and vehicle storage.



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ISSUE

- Multiple Changes not anticipated in the original Div 20 bid documents have accelerated expenditure of project contingency.

DISCUSSION

- Multiple design issues
- D20 yard is over 30-years old causing repairs and replacement of equipment
- Old industrial site, excessive removal of hazardous materials
- Multiple interfacing projects have caused delays and construction challenges
- 3rd-Parties, City of Los Angeles, Utilities
- First St Bridge is 100-years old and required unforeseen repairs



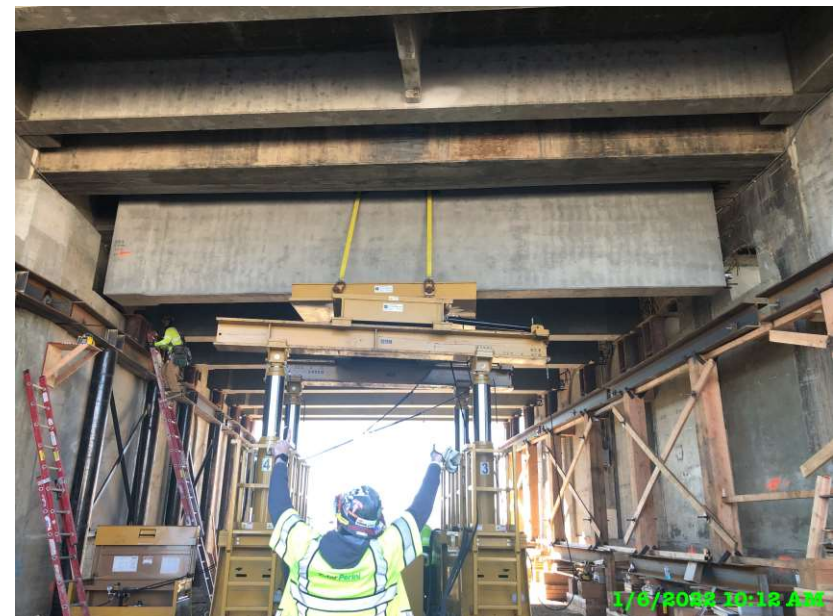
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RISK ANALYSIS

- Currently, the project is about 30% complete, 95% of the original \$93M of contingency expended
- Contractor has submitted Requests for Change that will require an LOP increase
- A risk analysis has been developed to determine project funding needs through FY23, based on current costs, change orders and burn rate
- Staff will return to the Board once construction has been advanced through additional phases and status of design changes and unforeseen site conditions can be accurately evaluated

MODEL RESULTS

- The model calculates a range of projected costs through FY2023 based on confidence levels (See Table 1).



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RISK ANALYSIS RESULTS

Cost Risk Analysis Model – Results of the risk analysis with Confidence Levels are summarized in Table 1 below.

Confidence Level	FY 23 LOP Increase
10%	\$ 59,740,113
15%	\$ 61,499,957
20%	\$ 62,985,155
25%	\$ 64,293,906
30%	\$ 65,475,404
35%	\$ 66,563,867
40%	\$ 67,574,561
45%	\$ 68,557,278
50%	\$ 69,583,347
55%	\$ 70,663,370
60%	\$ 71,804,205
65%	\$ 73,018,356
70%	\$ 74,324,681
75%	\$ 75,743,360
80%	\$ 77,314,158
85%	\$ 79,096,563
90%	\$ 81,207,034

Table 1

FUNDING FOR THIS LOP INCREASE REQUEST

- The use of \$75,000,000 of additional New Starts funding will make available an equal amount of Measure R Transit 35% for this proposed increase
- LOP budget increase actions to address the cost increase are evaluated using the Measure R and Measure M Unified Cost Management Policy
 - Metro Project team has added procedures to increase efficiencies, save costs and mitigate delays
 - Workshops, addition of Designer resources, addition of Metro technical resources

