



Finance & Audit Committee

## **CENTRAL VALLEY STATUS REPORT**

Supplemental Committee Report December 21, 2023 (Data through October 31, 2023)

## Executive Summary

### Construction Packages (CP) Design-Build Expenditures ([Page 4](#))

- October 2023 Expenditures totaled \$166.3M:
  - Construction Package 1 (Page 14) - Expenditures totaled \$112.3M.
  - Construction Package 2-3 (Page 23) - Expenditures totaled \$46.4M.
  - Construction Package 4 (Page 33) - Expenditures totaled \$7.6M.
- Total CP Cumulative Actual Expenditures (Pages 12, 22, and 31) – \$5,371.5M.
- Total Cumulative Current Contract Amount (Pages 12, 22, and 31) – \$7,544.9M.

### Change Orders

- Executed Change Orders this period – 16 for a total of \$250.4M:
  - Construction Package 1 (Page 15) – Seven for a total of \$235.2M.
  - Construction Package 2-3 (Page 24) – Four for a total of \$2.5M.
  - Construction Package 4 (Page 34) – Five for a total of \$12.7M.

### Risk Contingency ([Page 5](#))

- Approved Contingency – \$6,001.6M budgeted contract contingency. Contingency balance is \$1,294.8M as of data date.
  - Construction Package 1 (Page 16) – \$2,791.6M budgeted contract contingency. Contingency balance is \$517.1M as of data date.
  - Construction Package 2-3 (Page 25) – \$2,691.5M budgeted contract contingency. Contingency balance is \$717.0M as of data date.
  - Construction Package 4 (Page 35) – \$518.5M budgeted contract contingency. Contingency balance is \$60.6M as of data date.

### CP Construction Labor ([Page 6](#))

- October 2023, Average Daily Site Workers (by Week) – 1,433 workers. An increase of 85 workers from the previous period (1,348):
  - Construction Package 1 (Page 17) – 337 workers. A decrease of 9 workers from the previous month (346).
  - Construction Package 2-3 (Page 26) – 869 workers. An increase of 76 workers from the previous month (793).
  - Construction Package 4 (Page 36) – 227 workers. An increase of 18 workers from the previous month (209).
- Contractors continued with construction while following safety protocols and guidelines from the Centers for Disease Control and Prevention (CDC) and Occupational Safety and Health Administration (OSHA).

### CP Construction Progress ([Page 7](#))

- Structures – 76 underway/construction complete (32 underway, 44 completed) compared to 93 structures total (82%). An increase of one from the previous period.
  - Construction Package 1 – 28 structures underway/construction complete (11 underway, 17 completed).
  - Construction Package 2-3 – 37 structures underway/construction complete (21 underway, 16 completed). An increase of one from the previous period: Davis Avenue.
  - Construction Package 4 – 11 of 11 structures completed.
- Guideway – 91 miles underway/construction complete (35 underway, 56 completed) compared to 119 miles total (76%). Two miles of guideway completed in October 2023.
  - Construction Package 1 – 20 miles underway/construction complete (18 underway, 2 completed).
  - Construction Package 2-3 – 49 miles underway/construction complete (16 underway, 33 completed).
  - Construction Package 4 – 22 miles underway/construction complete (1 underway, 21 completed). Two miles of guideway completed in October 2023.

**Utility Relocations Status ([Pages 8 - 9](#))**

- Relocated: 1,179 (64%); In Progress: 337 (18%); Approved to Start: 0 (0%); Not Started: 320 (18%); Total: 1,836. A total of 18 relocated in October 2023. A sequence of activities must be completed to begin utility relocation work. These activities include environmental clearance, executed third-party agreement(s), design approval, construction work plans, pre-construction walkthroughs, acquisition of real property, and/or land right conveyances:
  - Construction Package 1 – Relocated: 564 (57%); In Progress: 250 (25%); Approved to Start: 0 (0%); Not Started: 178 (18%); Total: 992.
  - Construction Package 2-3 – Relocated: 493 (70%); In Progress: 66 (10%); Approved to Start: 0 (0%); Not Started: 142 (20%); Total: 701.
  - Construction Package 4 – Relocated: 122 (85%); In Progress: 21 (15%); Approved to Start: 0 (0%); Not Started: 0 (0%); Total: 143.

**CP Real Property/Right-of-Way (ROW) ([Pages 10 - 11](#))**

- Total Parcels Delivered to Date – 2,258 parcels compared to an estimated 2,295 parcels needed.
- Parcels Delivered to Design-Builder (DB) – 12 parcels in October 2023. All 12 parcels were from CP 2-3.
- Construction Packages 1-4 – Zero parcel added for CP 1-4 and one parcel removed for CP 1. The Authority continues to receive requests for additional parcels primarily related to third-party requirements. The Authority reviews these as received and if merit is found, those parcels will be added and acquired per contractual terms.
- Total Railroad Parcels Delivered to Date – 147 parcels delivered compared to an estimated 171 total railroad parcels needed.
- Railroad Parcels Delivered to Design-Builder – Zero parcels in October 2023.

**Project Development (Environmental Clearance) Schedule – Notice of Determination (NOD)/Record of Decision (ROD) ([Pages 41 - 42](#))**

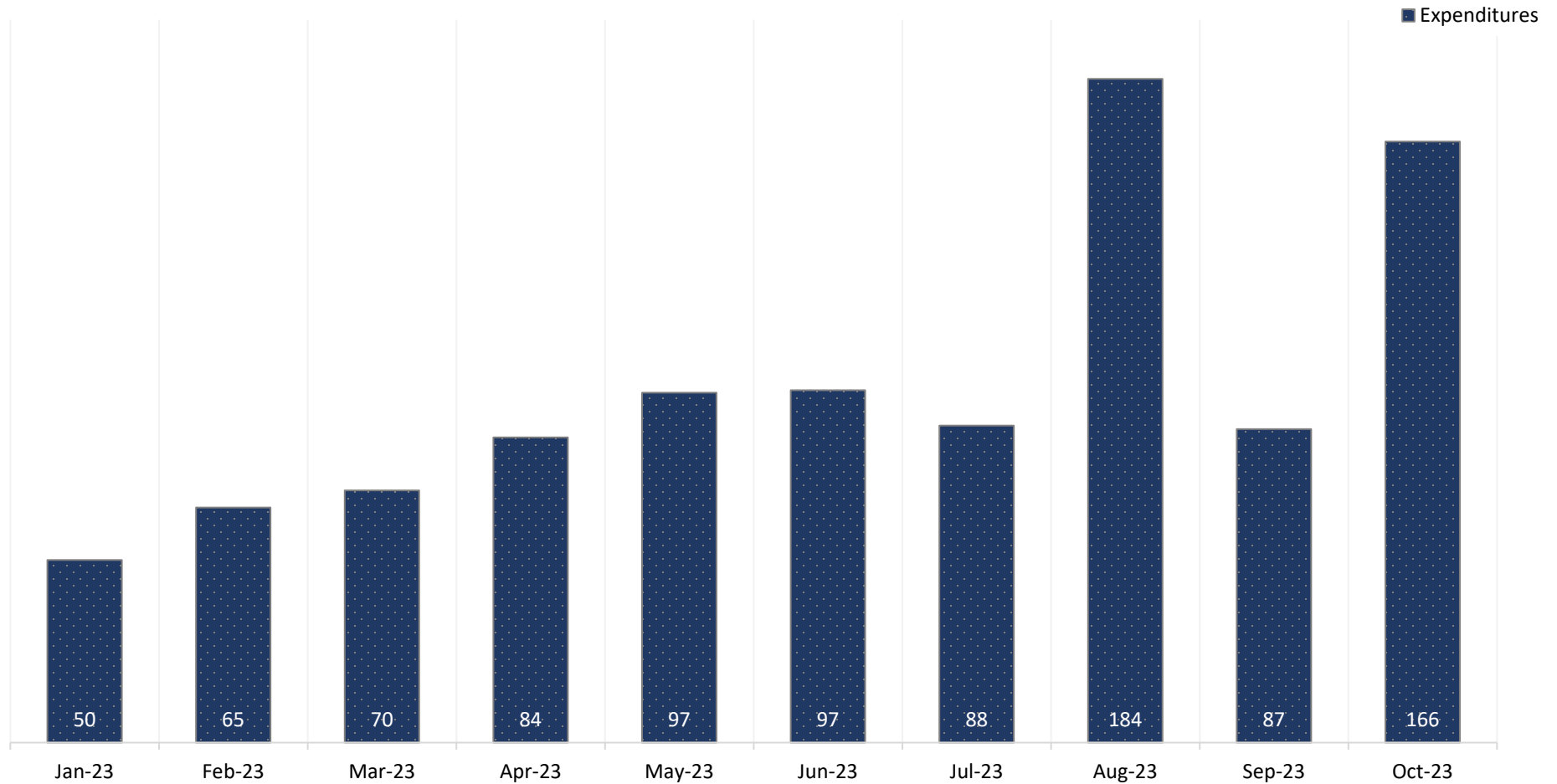
- San Francisco to San Jose – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- San Jose to Merced – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- Bakersfield to Palmdale – Work through NOD/ROD has been completed. Continued meeting with key stakeholders, including the Center for Biological Diversity.
- Palmdale to Burbank – Regional Consultant is preparing the Administrative Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) for review and approval by the Authority prior to being submitted to the Cooperating Agencies. Major activities on this project section included preparing response to comments received on the Draft EIR/EIS and preparing permitting documents.
- Burbank to Los Angeles – Work through NOD/ROD has been completed. Project closeout activities are ongoing.
- Los Angeles to Anaheim – Administrative Draft EIR/EIS scheduled for Spring 2024. NOD/ROD anticipated in late 2025.

**Project Development (Post-Record of Decision) Schedule ([Page 42](#))**

- Merced Extension (Merced to Madera) – Stantec Inc., under Agreement HSR22-02, continues to make progress on the 30% design goals of this Project. Stantec submitted to the Authority the Draft Configuration Footprint on October 10, 2023, and expect to be accepted by the Authority by December 2023. HSR 22-02 contract was amended to include NTP-3 (Merced Station Relocation) on October 11, 2023.
- Fresno to Bakersfield Locally Generated Alternative (LGA) – HNTB Corporation (HNTB), under agreement HSR22-01, continues to make progress on the early actions of this Project.

## CP 1-4 – Design-Build Expenditures

### CP 1-4 – Monthly Expenditures (\$ Millions)

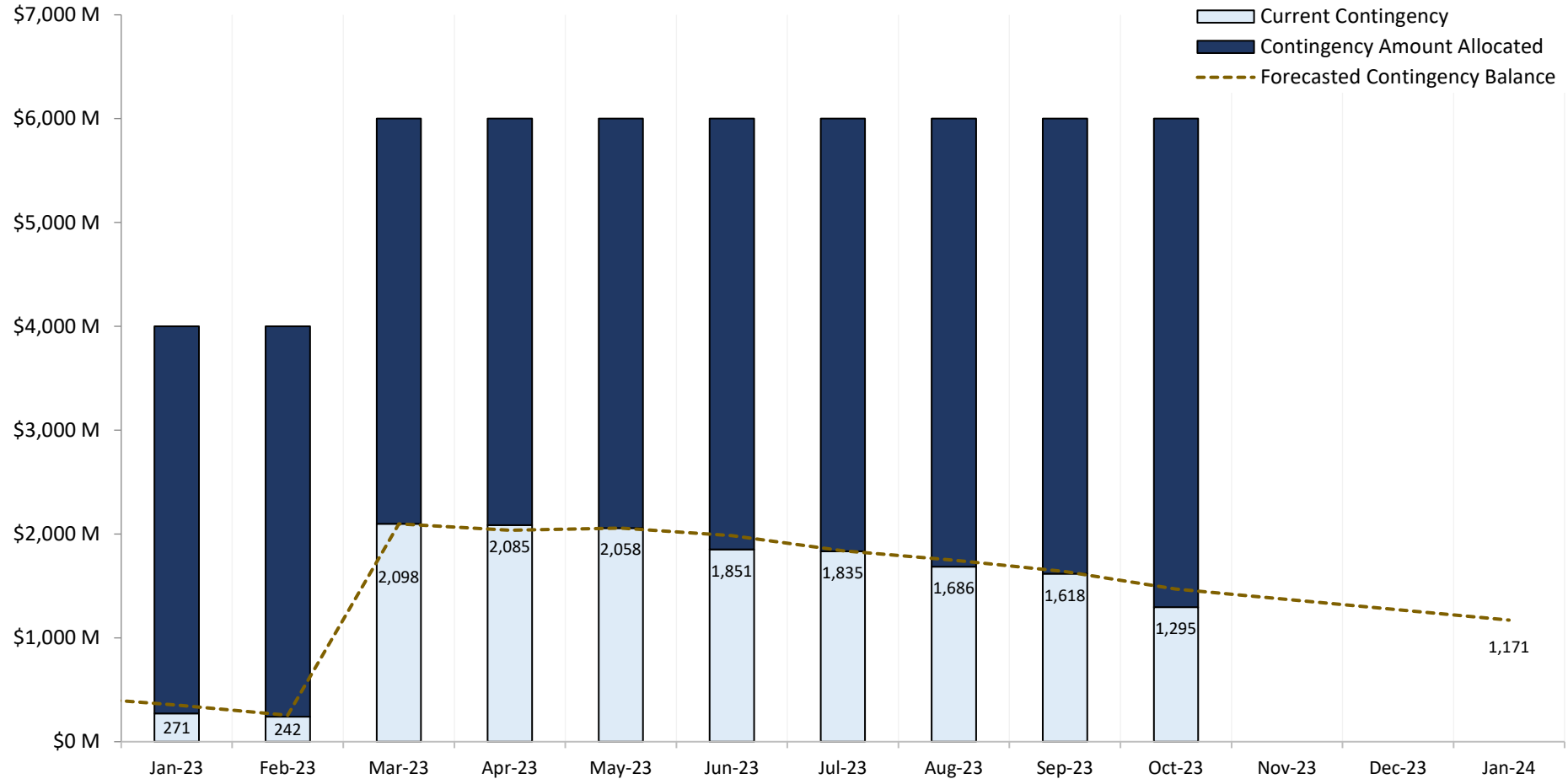


**Notes:**

1. October 2023 Expenditures totaled \$166.3M:
  - a. Construction Package 1 – Expenditures totaled \$112.3M.
  - b. Construction Package 2-3 – Expenditures totaled \$46.4M.
  - c. Construction Package 4 – Expenditures totaled \$7.6M.

## CP 1-4 – Risk Contingency

### CP 1-4 – Risk Contingency Status (\$ Millions)

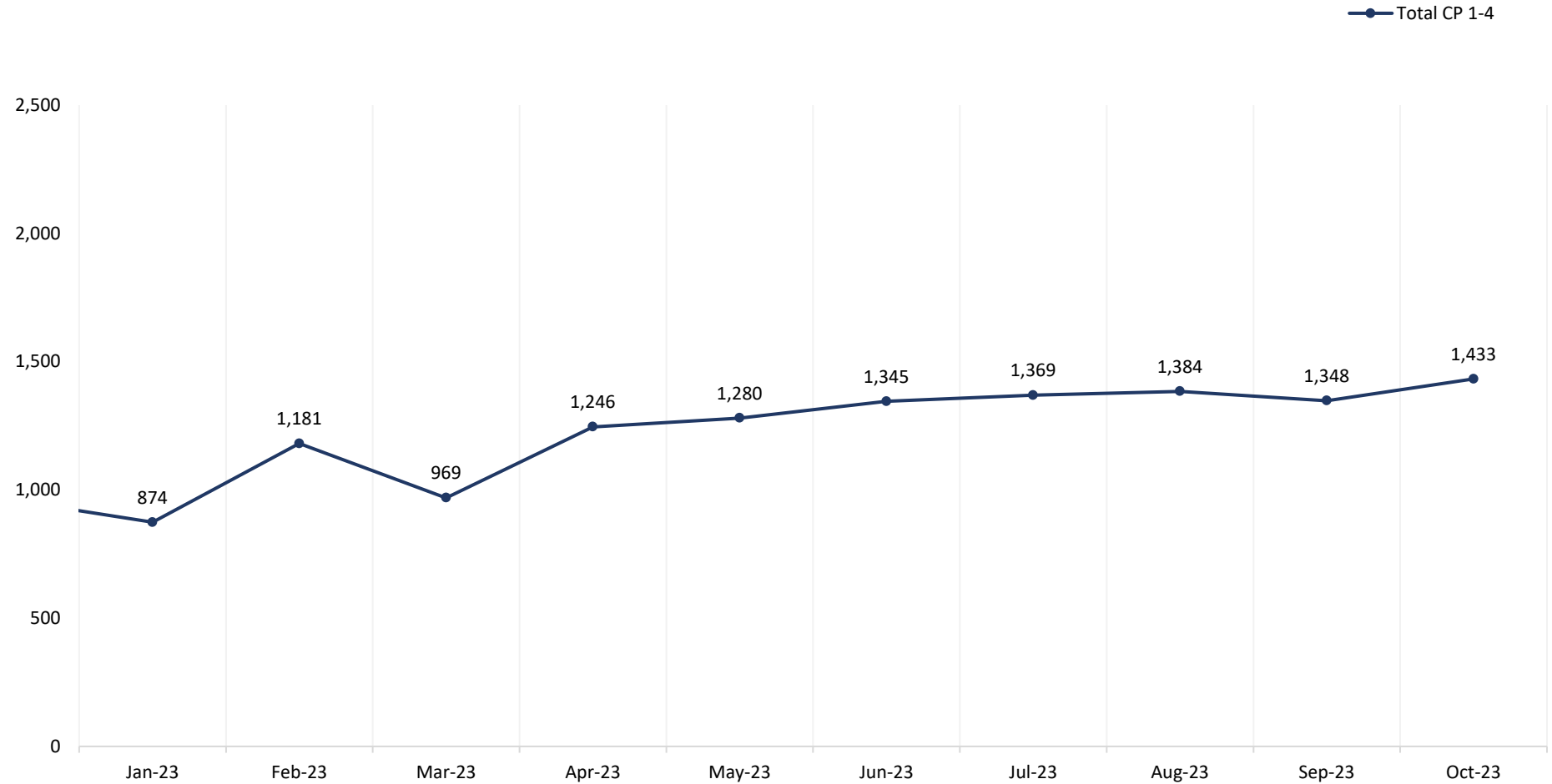


**Notes:**

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total Program Contingency to \$6,001.6M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects all executed change orders and Business Oversight Committee (BOC) approved items for all CPs.
4. The Forecasted Contingency Balance drawdown curve is based only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations, and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

## CP 1-4 – Construction Labor

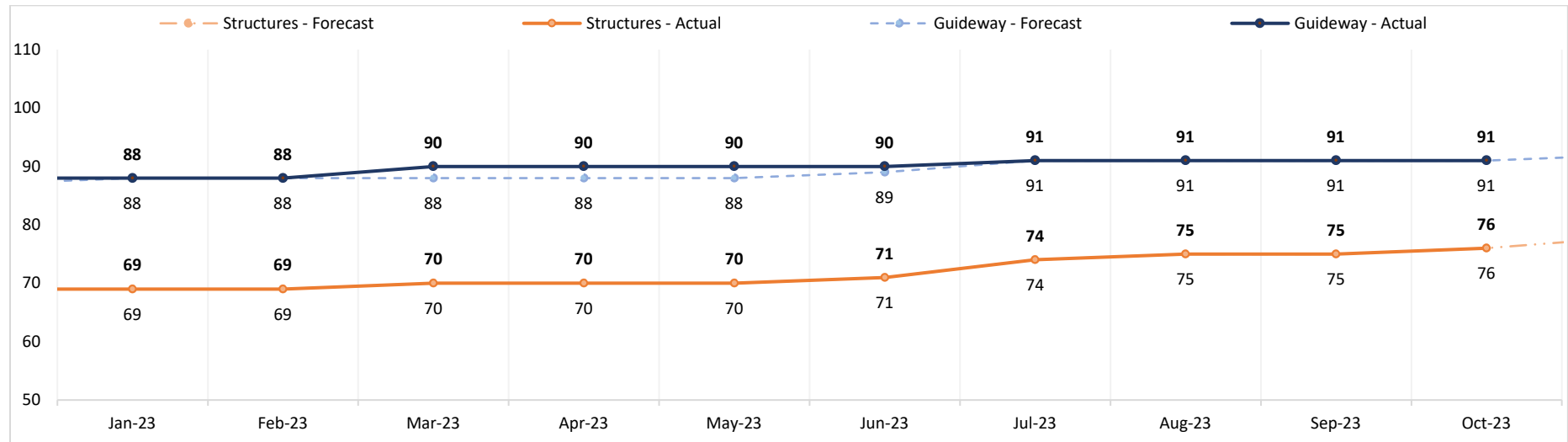
### CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
  2. October 2023, Average Daily Site Workers (by week) – 1,433 workers. An increase of 85 workers from the previous period (1,348).
    - a. Construction Package 1 (Page 17) – 337 workers. A decrease of 9 workers from the previous month (346).
    - b. Construction Package 2-3 (Page 26) – 869 workers. An increase of 76 workers from the previous month (793).
    - c. Construction Package 4 (Page 36) – 227 workers. An increase of 18 workers from the previous month (209).

## CP 1-4 – Construction Progress

### CP 1-4 – Construction Progress to Completion – Forecast vs. Actual



### Monthly Construction Status – In Progress vs. Completed

Construction	CP 1		CP 2-3		CP 4		Overall		Total
	In Progress	Completed	In Progress	Completed	In Progress	Completed	In Progress	Completed	
<b>Guideway</b>	18	2	16	33	1	21	35	56	<b>91</b>
<b>Structures</b>	11	17	21	16	0	11	32	44	<b>76</b>

**Notes:**

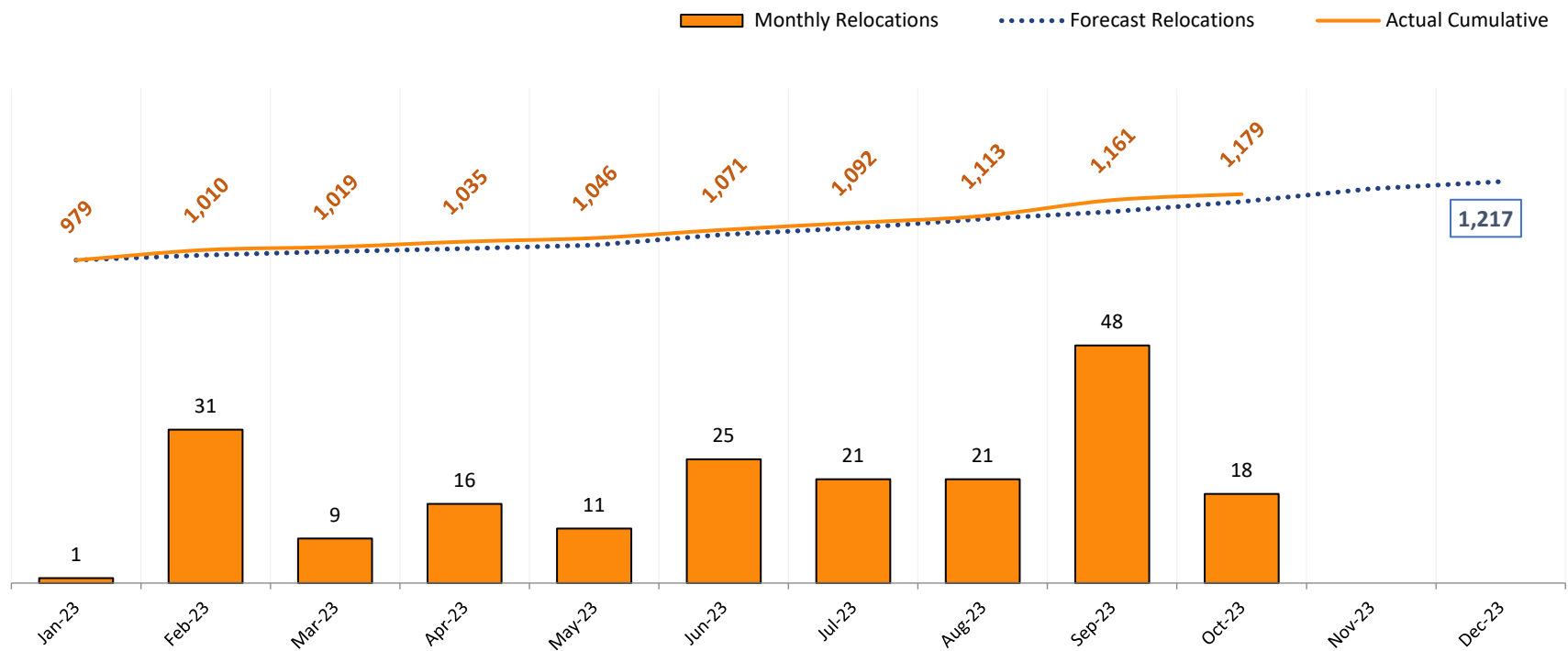
1. Construction Complete definition:
  - a. Structure Completion – all concrete work is complete.
  - b. Guideway Completion – earthworks complete with rough grading.
2. Total Structures: 93
3. Structures – 76 underway/construction complete compared to 93 structures total (82%). An increase of one from the previous period.
  - a. CP 1 – 28 structures underway/construction complete.
  - b. CP 2-3 – 37 structures underway/construction complete. An increase of one from the previous period: Davis Avenue.
  - c. CP 4 – 11 of 11 structures completed.
4. Total Guideway: approximately 119 miles
5. Guideway – 91 miles underway/construction complete compared to 119 miles total (76%). Two miles of guideway completed in October 2023.
  - a. CP 1 – 20 miles underway/construction complete.
  - b. CP 2-3 – 49 miles underway/construction complete.
  - c. CP 4 – 22 miles underway/construction complete. The actual miles for CP 4 are 21.5 miles but rounded to 22 miles for consistency in reporting. Two miles of guideway completed in October 2023.

## CP 1-4 – Utility Relocations

### CP 1-4 – Utility Relocation Summary

Construction Package	Total Relocations October 31, 2023	Total Utilities Relocated to Date October 31, 2023	Remaining Utility Relocations October 31, 2023
CP 1	992	564	428
CP 2-3	701	493	208
CP 4	143	122	21
<b>Total</b>	<b>1,836</b>	<b>1,179</b>	<b>657</b>

### CP 1-4 – Utility Relocation Status Summary-Monthly





## CP 1-4 – Utility Relocation Summary

### CP 1-4 – Summary by Utility Type

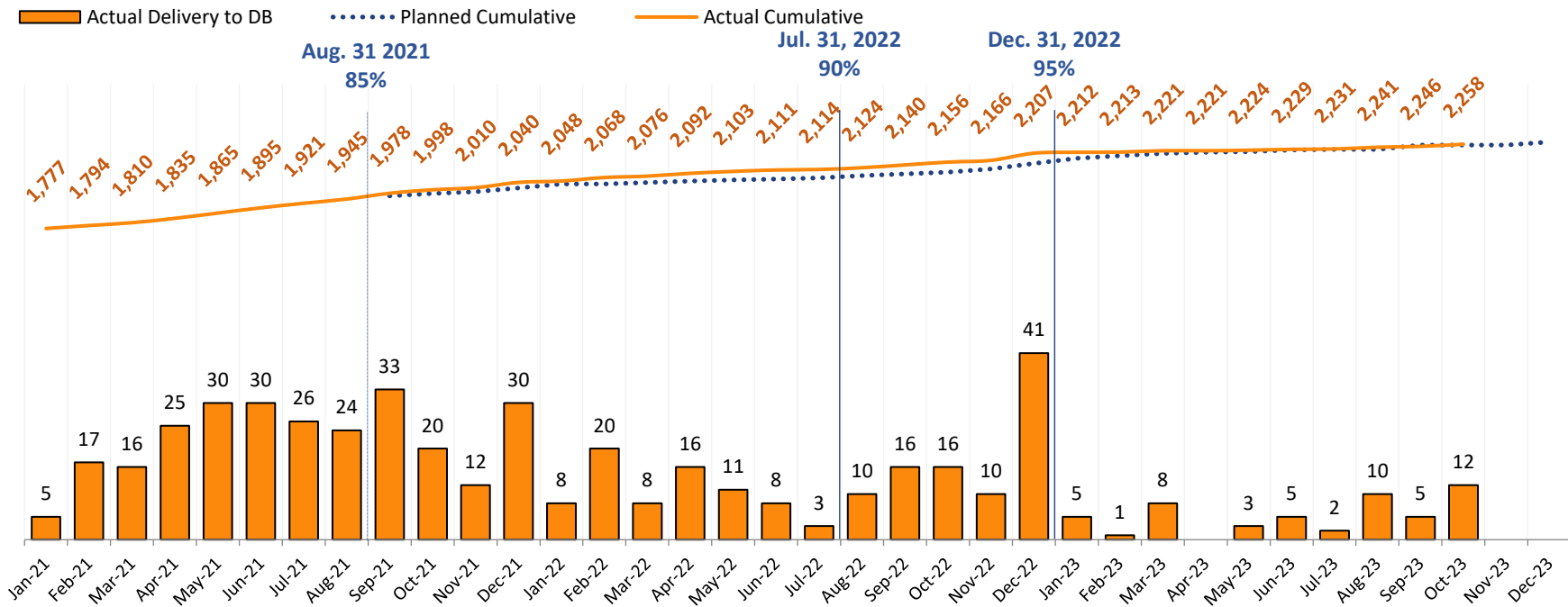
Utility	Status	CP-1	CP-2-3	CP-4	CP 1-4 Total	Percentage
Electric	NOT STARTED	79	102	0	181	27%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	18	30	1	49	8%
	RELOCATED	118	252	61	431	65%
	<b>TOTAL</b>	<b>215</b>	<b>384</b>	<b>62</b>	<b>661</b>	<b>100%</b>
Gas	NOT STARTED	17	10	0	27	22%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	30	0	0	30	24%
	RELOCATED	44	17	7	68	54%
	<b>TOTAL</b>	<b>91</b>	<b>27</b>	<b>7</b>	<b>125</b>	<b>100%</b>
Telecom	NOT STARTED	33	3	0	36	5%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	97	27	0	124	18%
	RELOCATED	285	203	32	520	77%
	<b>TOTAL</b>	<b>415</b>	<b>233</b>	<b>32</b>	<b>680</b>	<b>100%</b>
Wet	NOT STARTED	49	27	0	76	21%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	105	9	20	134	36%
	RELOCATED	117	21	22	160	43%
	<b>TOTAL</b>	<b>271</b>	<b>57</b>	<b>42</b>	<b>370</b>	<b>100%</b>

## CP 1-4 – Real Property/Right-of-Way (ROW)

### CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels October 31, 2023	Total Parcels Delivered to Date October 31, 2023	Remaining Parcels to be Delivered October 31, 2023	Percentage Delivered
CP 1	1,083	1,064	19	98%
CP 2-3	989	971	18	98%
CP 4	223	223	0	100%
<b>Total</b>	<b>2,295</b>	<b>2,258</b>	<b>37</b>	<b>98%</b>

### CP 1-4 – Parcel Delivery to Design-Builder (DB) Summary



**Notes:**

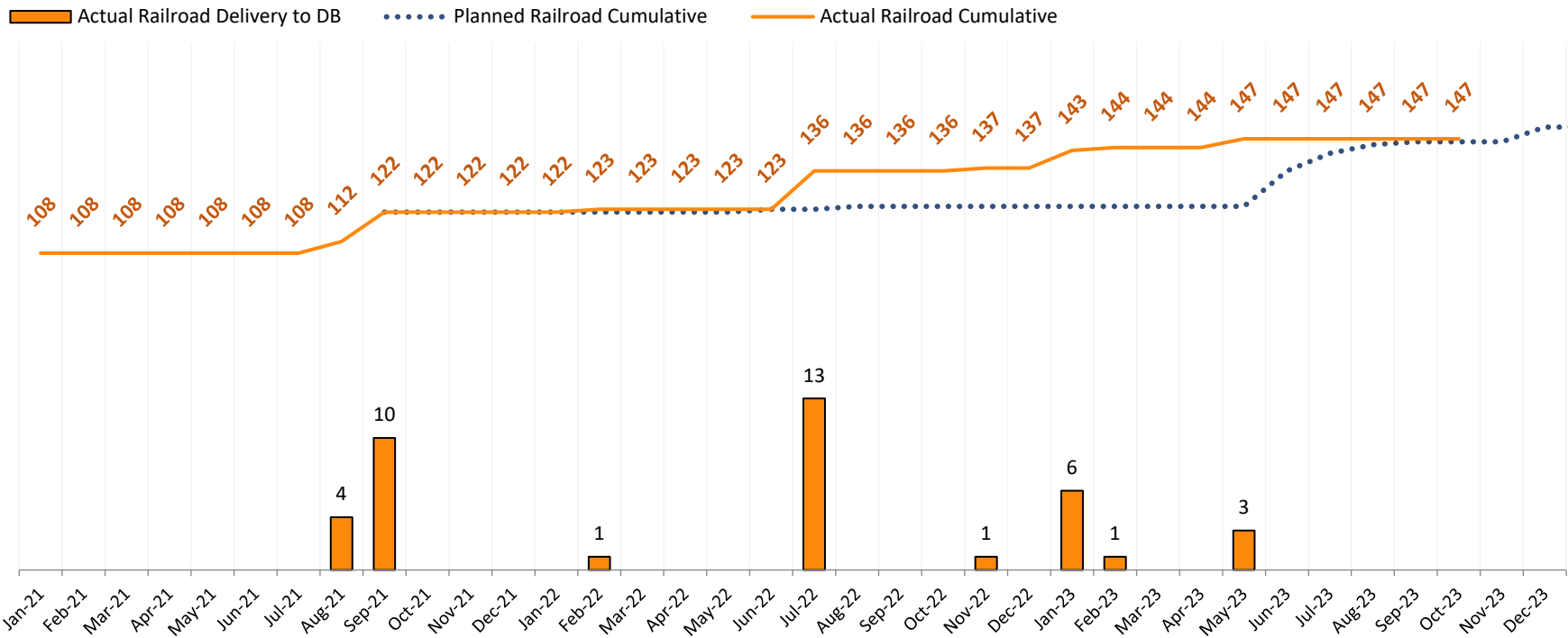
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4.
2. Delivery to Design Builder 90% milestone completion was achieved for CP 1-4 in March 2022 and 96% percent of parcels delivered by December 2022.

# CP 1-4 – Real Property/Right-of-Way (ROW) Railroad

## CP 1-4 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels October 31, 2023	Total Railroad Parcels Delivered to Date October 31, 2023	Remaining Railroad Parcels to be Delivered October 31, 2023
CP 1	84	64	20
CP 2-3	58	54	4
CP 4	29	29	0
<b>Total</b>	<b>171</b>	<b>147</b>	<b>24</b>

## CP 1-4 – Railroad Parcel Delivery to Design-Builder (DB) Summary



**Notes:**

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and updated forecast dates.

# CONSTRUCTION PACKAGE 1 (CP 1) OVERVIEW

## CP 1 – Design-Build Contract Summary<sup>(1)</sup>

### Milestones

Milestone	Date
Request for Quote (RFQ) Date:	11/15/2011
Statement of Qualification (SOQ) Date:	12/19/2011
Request for Proposal (RFP) Date:	03/22/2012
Proposal:	01/18/2013
Bid Open Date:	04/13/2013
Award Date:	08/16/2013
Notice to Proceed (NTP) 1 Date:	10/15/2013
Notice to Proceed (NTP) 2 Date:	11/22/2013
Notice to Proceed (NTP) 3 Date:	07/11/2014
Original Completion Date:	03/31/2018
Current Forecast Contract Completion Date <sup>(2)</sup> :	Dec 2026
<b>Current Forecast Construction Completion Date<sup>(2)</sup>:</b>	<b>Nov 2026</b>

### Contract Value

Description	Amount
Fixed Bid Price:	\$969,988,000.00
Provisional Sums:	\$53,000,000.00
Original Contract Price:	\$1,022,988,000.00
Executed Change Orders:	\$2,589,940,736.47
Current Contract Amount:	\$3,612,928,736.47
Approved Invoices to Date:	\$2,366,172,336.38
<b>Remaining Contract Balance:</b>	<b>\$1,246,756,400.09</b>

### Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded <sup>(3)</sup> :	3,159
Current Forecast Contract Days <sup>(3)</sup> :	4,787
Calendar Days Worked (thru 10/31/2023):	3,668

### Expended to Date

Description	Percentage
Time <sup>(3)</sup> :	76.6%
Dollars:	65.5%

### Growth Percentage

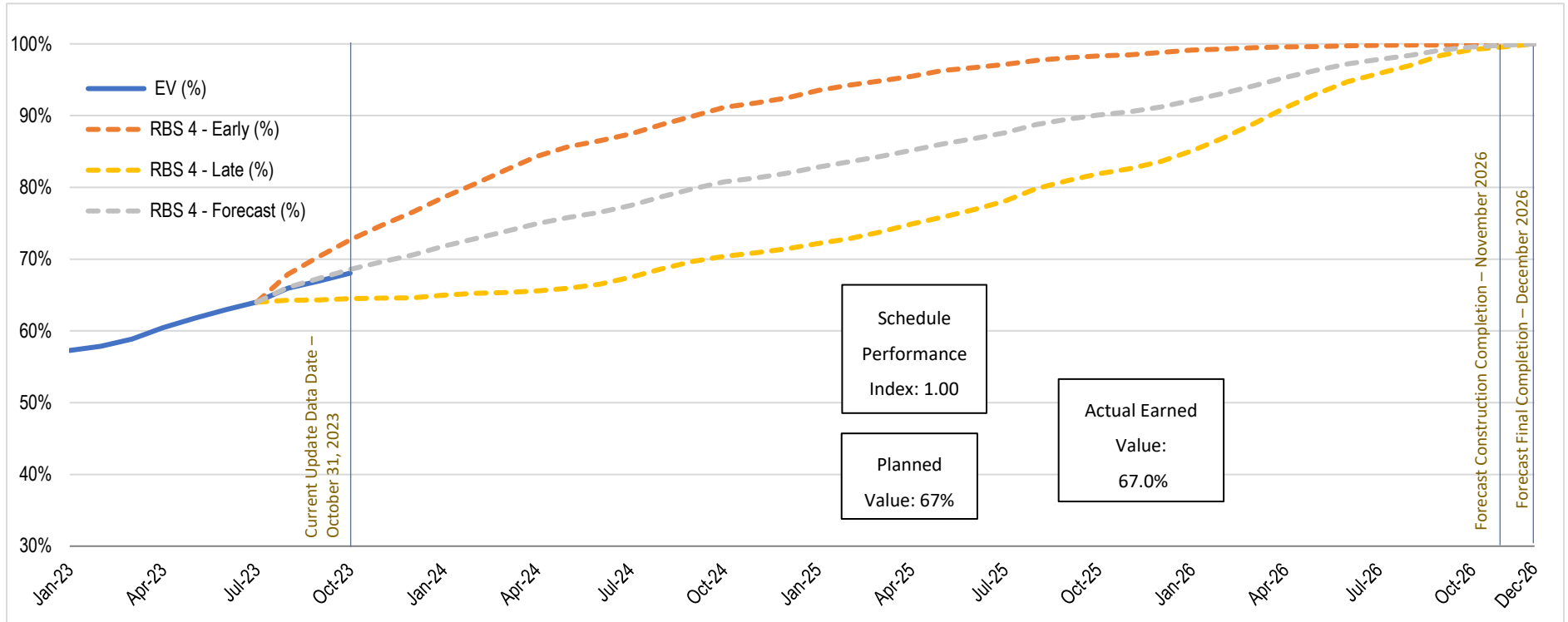
Description	Percentage
Time <sup>(3)</sup> :	194.0%
Dollars:	253.2%

### Notes:

1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated per the accepted Revised Baseline Schedule (RBS) Revision 4.
3. Contract Time Status (Extension of Time Awarded and Current Contract Days), Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Forecast Construction Completion Date.

# CP 1 – Earned Value

## CP 1 – Earned Value Summary (%)

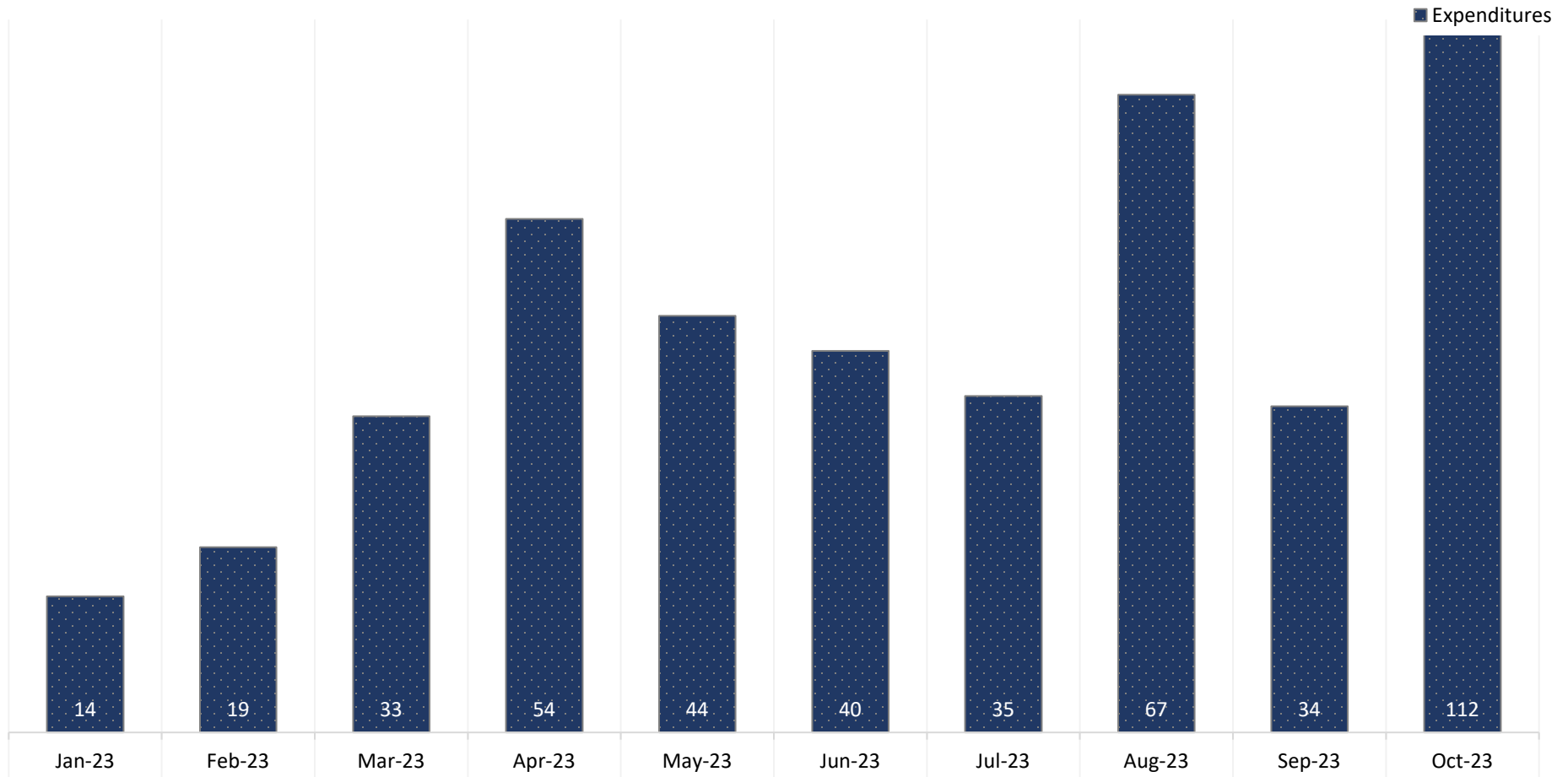


**Notes:**

1. Forecast periods are pending review.
2. Earned Value represents physical progress of site activities, which is based on project team verification of site progress measurements.
3. The early dates graph is optimistic and assumes activities will take place on the schedule early dates.
4. Average graph assumes non-critical path activities are taking place mid-way of early and late dates.
5. The late dates graph assumes activities will take place on the schedule late dates. If actuals fall below late graph, it indicates schedule slippage. To provide contingency, the Schedule Performance Index (SPI) is measured against the average graph.
6. Time contingency is not included in these forecasts. This is Authority owned contingency.

## CP 1 – Design-Build Expenditures

### CP 1 – Monthly Expenditures (\$ Millions)



**Notes:**

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$112.3M.

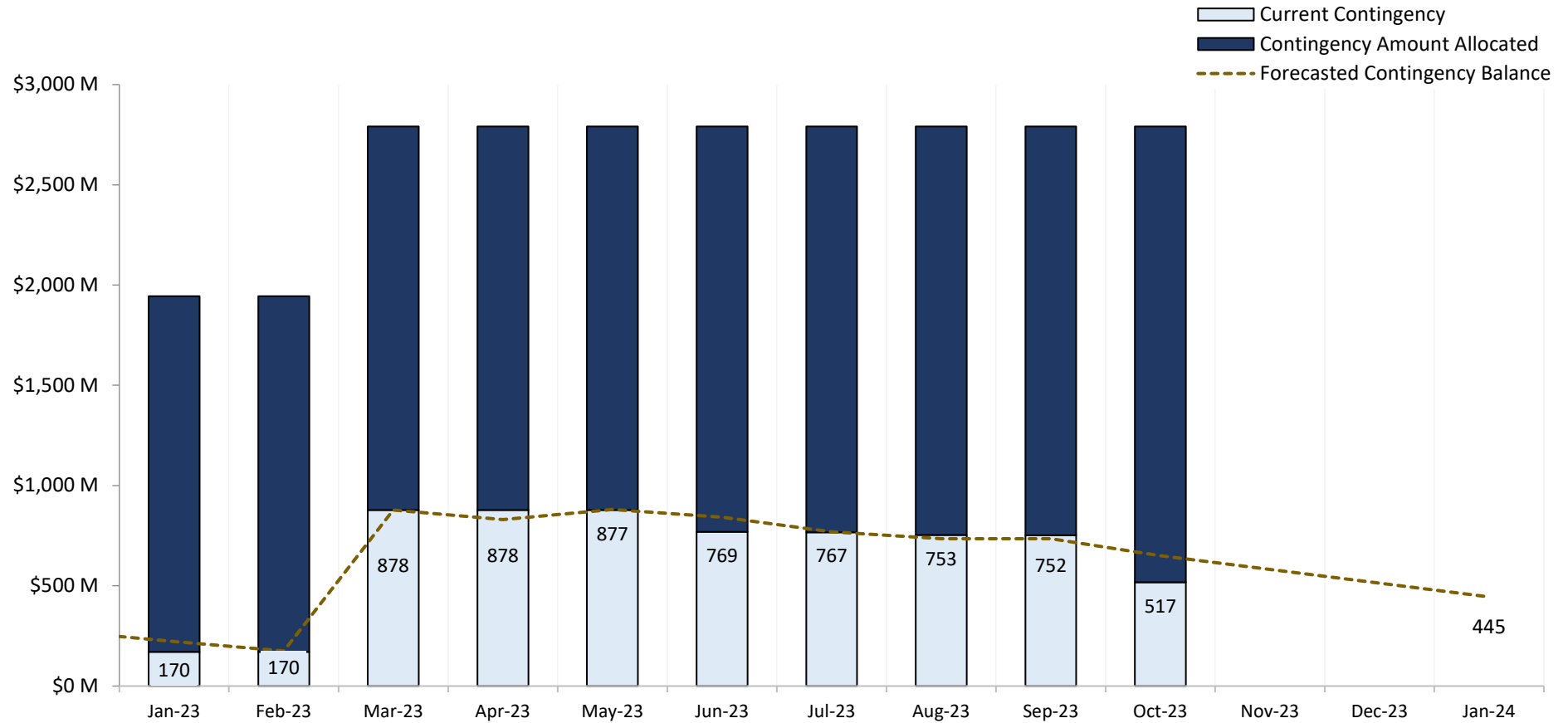
## CP 1 – Change Orders (CO)

### CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
99.4	Agreement for Settlement, Release and Waiver as to All Time Related Delays and Claims Through August 1, 2023 (Time Impact #4)	Executed	\$154,436,989.00	10-24-23
99.5	TPZP Escalation Costs Related to Change Order 99.4 and Future Periods	Executed	\$80,000,000.00	10-24-23
452	Fresno Street and H Street Connection - Design Only	Executed	\$639,503.00	10-16-23
507	Modern Trucking Fence Removal at Cornelia Waterline Receiving Pit	Executed	\$3,650.00	10-18-23
508	Unknown Buried Concrete Encountered at Kathryn Ave	Executed	\$9,591.00	10-26-23
510	Redesign of Level 3 Between Road 26 & Road 27 within BNSF ROW - Design Only	Executed	\$126,463.00	10-26-23
504	Change in Law - 2020 BNSF Utility Accommodation Policy - Design Only	Executed	\$32,587.00	10-27-23
<b>TOTAL</b>			<b>\$235,248,783.00</b>	

## CP 1 – Risk Contingency

### CP 1 – Risk Contingency Status (\$ Millions)



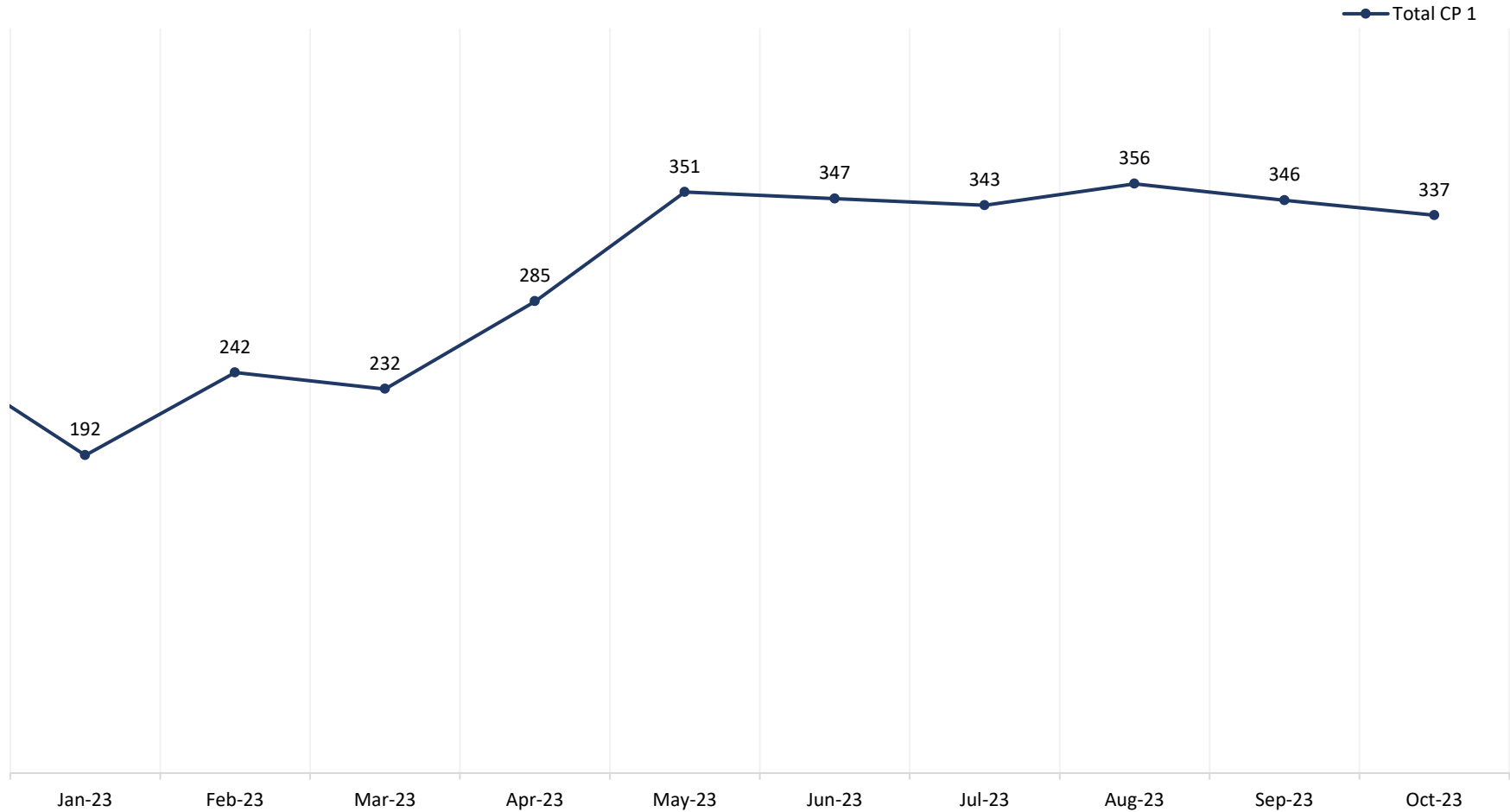
**Notes:**

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 1 Contingency to \$2,791.6M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations and dispute resolution, timing and value of Forecasted Contingency Balance can vary.



## CP 1 – Monthly Construction Labor

### CP 1 – Monthly Construction Workforce Total – Actual (FTE)

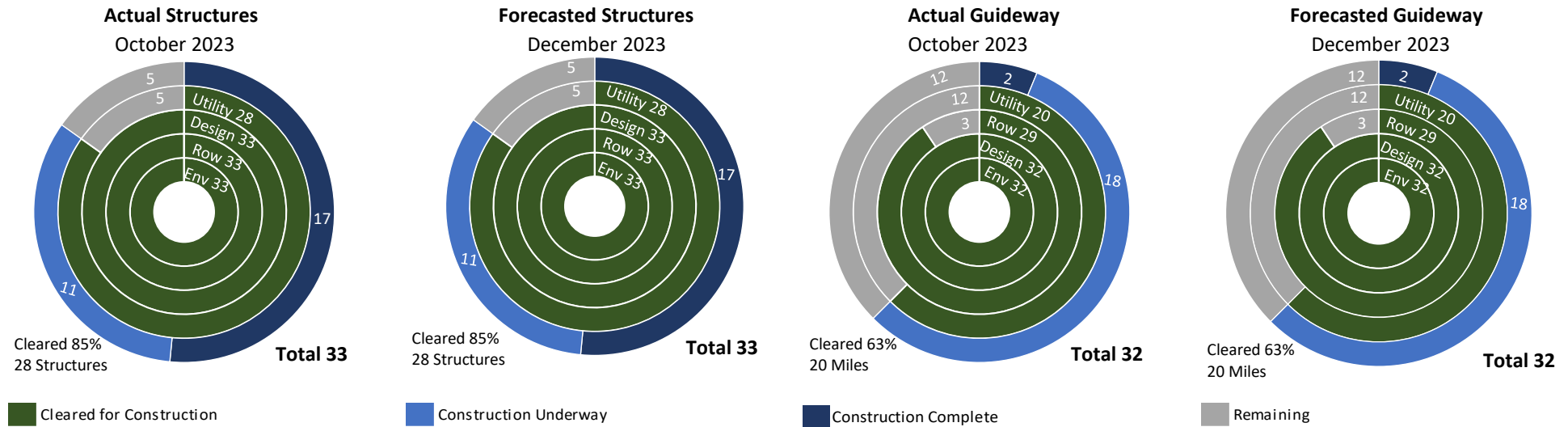


**Notes:**

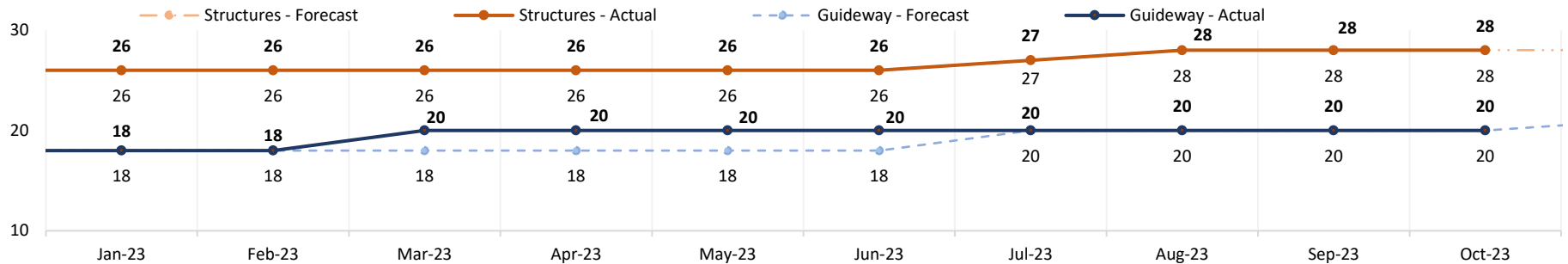
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. A decrease of 9 workers from the previous month (346).

# CP 1 – Construction Progress

## CP 1 – Construction Progress



## CP 1 – Structures and Guideway Progress – Forecast vs. Actual



- Notes:**
- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 4 accepted schedule.
  - Construction Complete definition:
    - Structure Completion – all concrete work is complete.
    - Guideway Completion – earthworks complete with rough grading.
  - Total Structures: 33:
    - 28 structures underway/construction complete.
  - Total Guideway: 32 miles.
    - 20 miles underway/construction complete.
  - There are 32 miles of guideway approved by the Authority, but 2.5 miles (Caltrans section) has not been approved by Union Pacific Railroad (UPRR). UPRR has approved the Caltrans 2.5 miles at 60% Design with 90% Design progressing. The Caltrans 2.5 mile IPB Work Plan has been approved and work commenced February 2023.
  - Late finish dates are being used to estimate forecast numbers.

## CP 1 – Utility Relocation Summary

### CP 1 - High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	178	18%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	250	25%
Total Utilities Relocated	564	57%
<b>Total</b>	<b>992</b>	<b>100%</b>

### CP 1 – Summary by Utility Type

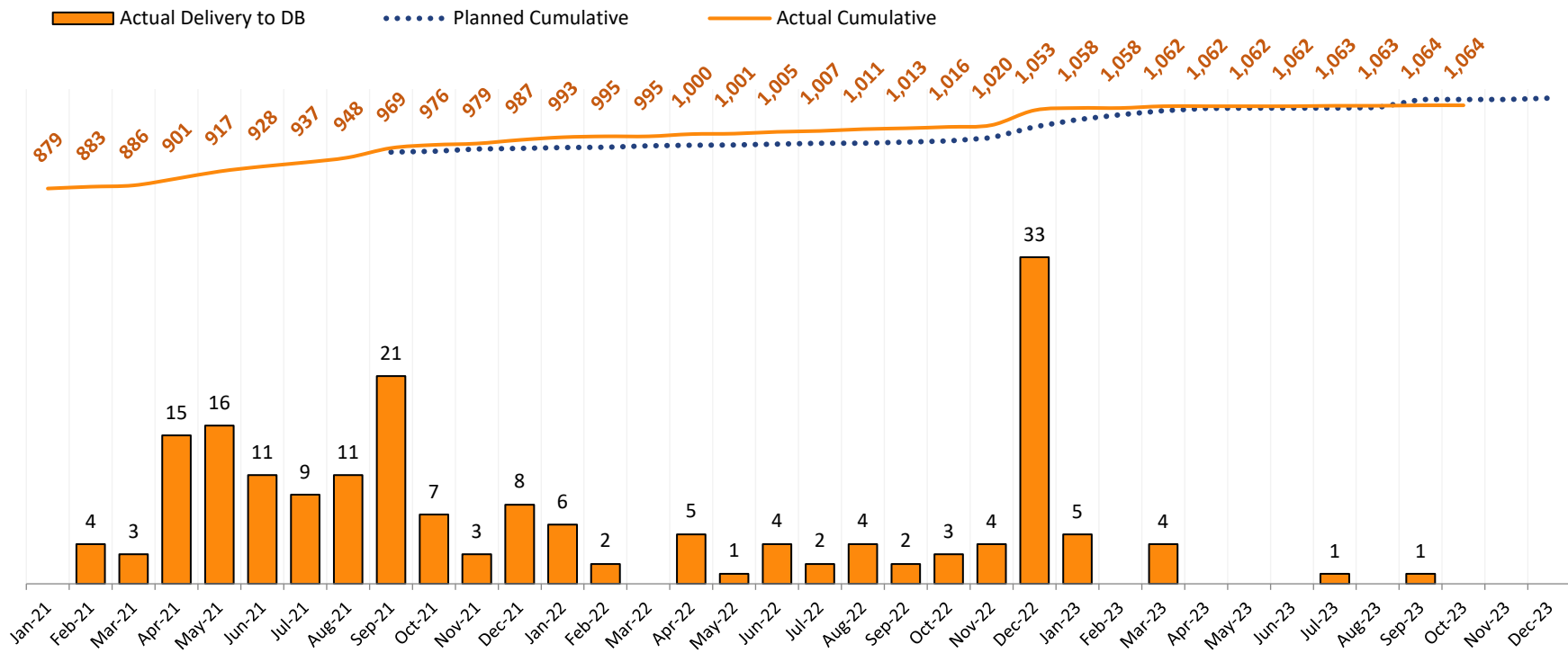
Utility	Status	Utility Relocations	Percentage
<b>Electric</b>	NOT STARTED	79	37%
	APPROVED TO START	0	0%
	IN PROGRESS	18	8%
	RELOCATED	118	55%
	<b>TOTAL</b>	<b>215</b>	<b>100%</b>
<b>Gas</b>	NOT STARTED	17	19%
	APPROVED TO START	0	0%
	IN PROGRESS	30	33%
	RELOCATED	44	48%
	<b>TOTAL</b>	<b>91</b>	<b>100%</b>
<b>Telecom</b>	NOT STARTED	33	8%
	APPROVED TO START	0	0%
	IN PROGRESS	97	23%
	RELOCATED	285	69%
	<b>TOTAL</b>	<b>415</b>	<b>100%</b>
<b>Wet</b>	NOT STARTED	49	18%
	APPROVED TO START	0	0%
	IN PROGRESS	105	39%
	RELOCATED	117	43%
	<b>TOTAL</b>	<b>271</b>	<b>100%</b>

# CP 1– Real Property/Right-of-Way (ROW)

## CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels October 31, 2023	Total Parcels Delivered to Date October 31, 2023	Remaining Parcels to be Delivered October 31, 2023
CP 1	1,083	1,064	19

## CP 1 – Parcel Delivery to Design-Builder (DB) Summary



**Notes:**

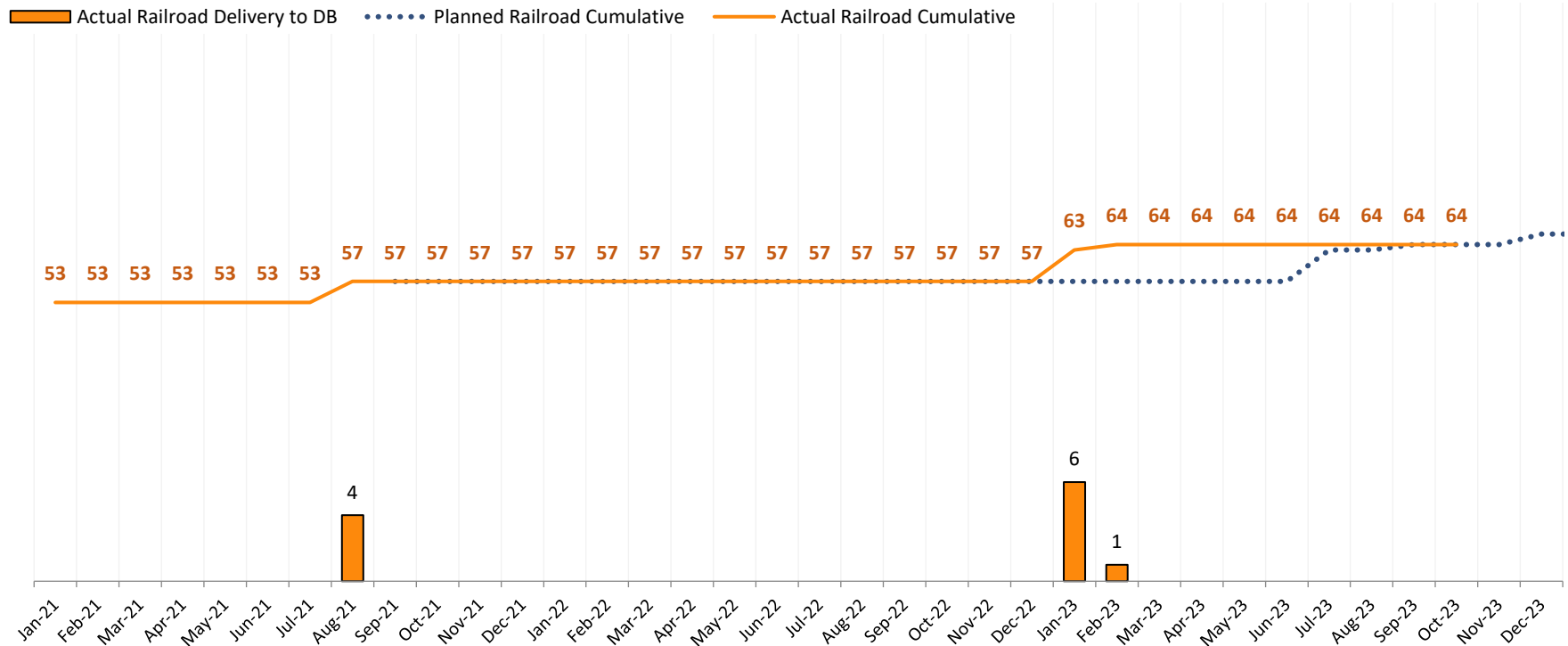
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.

# CP 1 – Real Property/Right-of-Way (ROW) Railroad

## CP 1 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels October 31, 2023	Total Railroad Parcels Delivered to Date October 31, 2023	Remaining Railroad Parcels to be Delivered October 31, 2023
CP 1	84	64	20

## CP 1 – Railroad Parcel Delivery to Design-BUILDER (DB) Summary



**Note:**

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and updated forecast dates.

## CONSTRUCTION PACKAGE 2-3 (CP 2-3) OVERVIEW

### CP 2-3 – Design-Build Contract Summary<sup>(1)</sup>

#### Milestones

Milestone	Date
Request for Quote (RFQ) Date:	10/09/2013
Statement of Qualification (SOQ) Date:	12/13/2013
Request for Proposal (RFP) Date:	04/03/2014
Proposal:	10/30/2014
Bid Open Date:	12/11/2014
Award Date:	06/10/2015
Late Notice to Proceed (LNTP) Date:	06/12/2015
Notice to Proceed (NTP) Date:	07/25/2015
Original Completion Date:	08/19/2019
Current Forecast Contract Completion Date <sup>(2)</sup> :	05/21/2026
<b>Current Forecast Construction Completion Date<sup>(2)</sup>:</b>	<b>03/21/2026</b>

#### Contract Value

Description	Amount
Fixed Bid Price:	\$1,205,335,890.00
Provisional Sums:	\$160,000,000.00
Original Contract Price:	\$1,365,335,890.00
Executed Change Orders:	\$1,785,091,252.59
Current Contract Amount:	\$3,150,427,142.59
Approved Invoices to Date:	\$2,252,129,497.76
<b>Remaining Contract Balance:</b>	<b>\$898,297,644.83</b>

#### Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded <sup>(3)</sup> :	2,406
Current Forecast Contract Days <sup>(3)</sup> :	3,892
Calendar Days Worked (thru 10/31/2023):	3,020

#### Expended to Date Percentage

Description	Percentage
Time <sup>(3)</sup> :	77.6%
Dollars:	71.5%

#### Growth Percentage

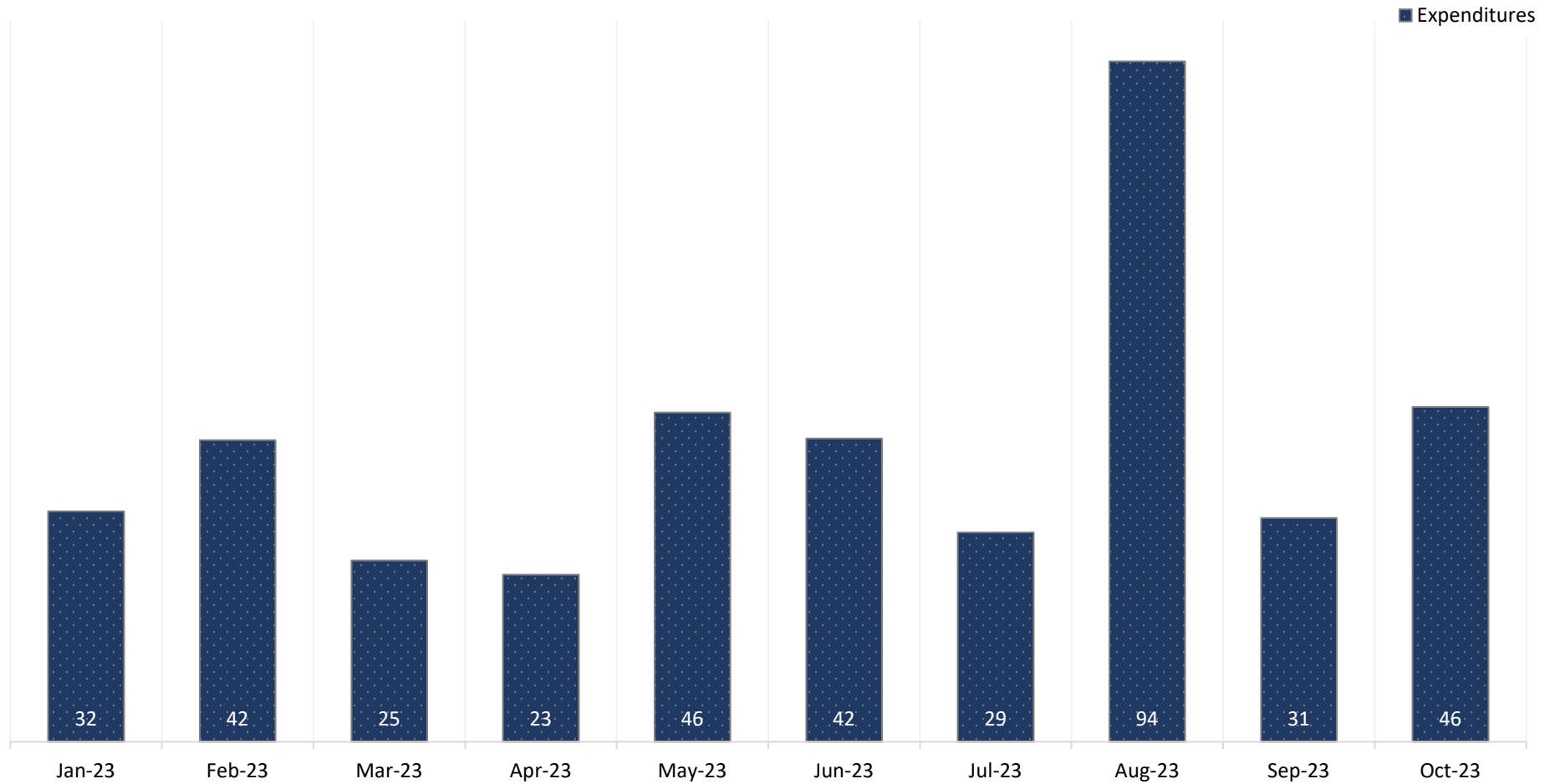
Description	Percentage
Time <sup>(3)</sup> :	161.9%
Dollars:	130.7%

#### Notes:

1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated per the conditionally accepted Revised Baseline Schedule (RBS) Revision 4.
3. Contract Time Status (Extension of Time Awarded and Current Contract Days), Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Forecast Construction Completion Date.

## CP 2-3 – Design-Build Expenditures

### CP 2-3 – Monthly Expenditures (\$ Millions)



**Notes:**

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$46.4M.

## CP 2-3 – Change Orders (CO)

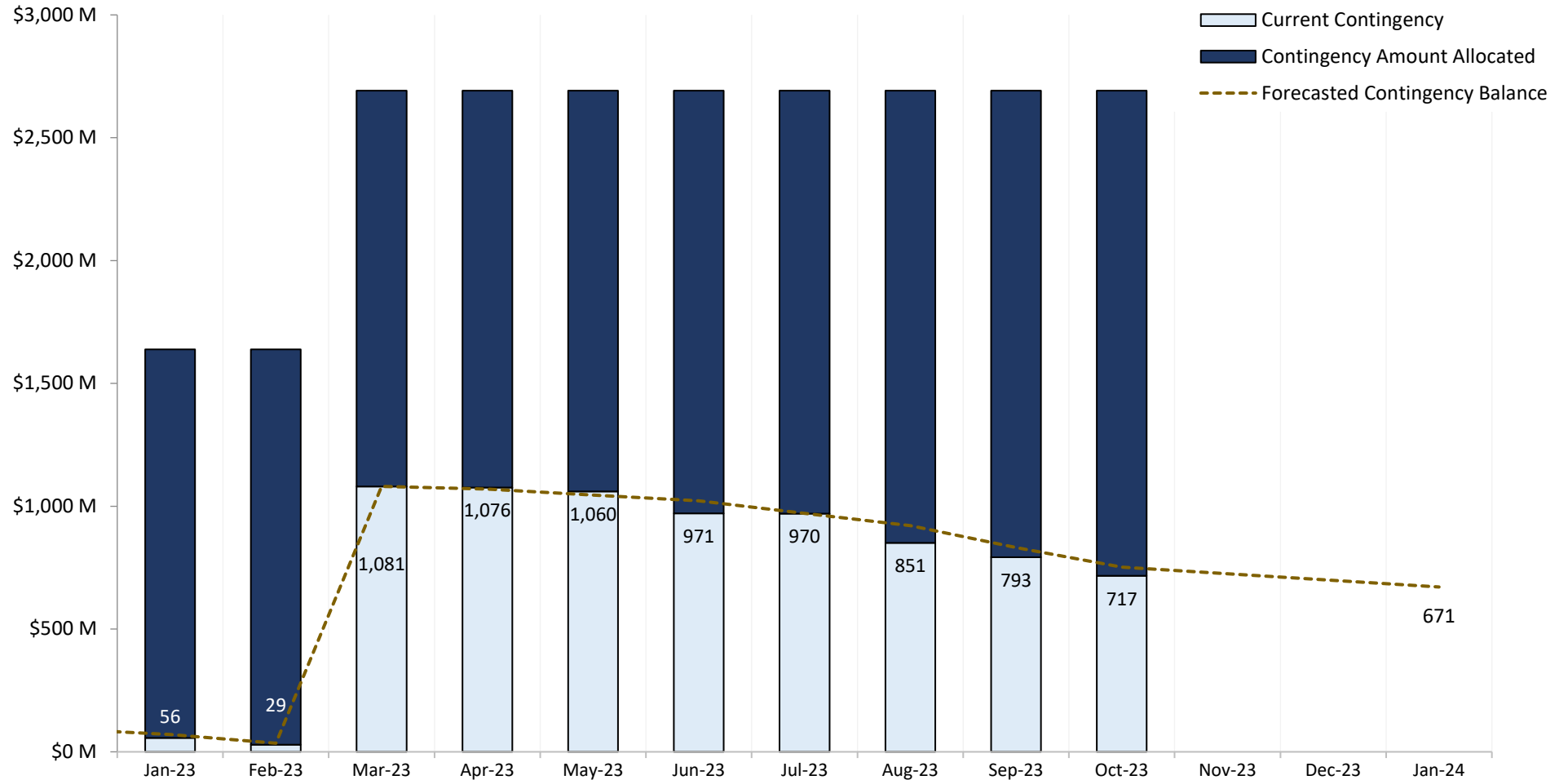
### CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
389	Updated Caltrans Bridge Numbers for Type 2 OH Structures – Design Only	Executed	\$53,612.00	10-24-23
379.1	Vie Del Private Steel Casings – Construction	Executed	\$1,697,823.00	10-13-23
378	DL 43.7 – Segment 3 IPB Earth Berm Revisions – Design Only	Executed	\$308,604.00	10-10-23
391	Avenue 88/SR-43 Temporary Connector – T&M	Executed	\$400,000.00	10-10-23
<b>TOTAL</b>			<b>\$2,460,039.00</b>	



## CP 2-3 – Risk Contingency

### CP 2-3 – Risk Contingency Status (\$ Millions)

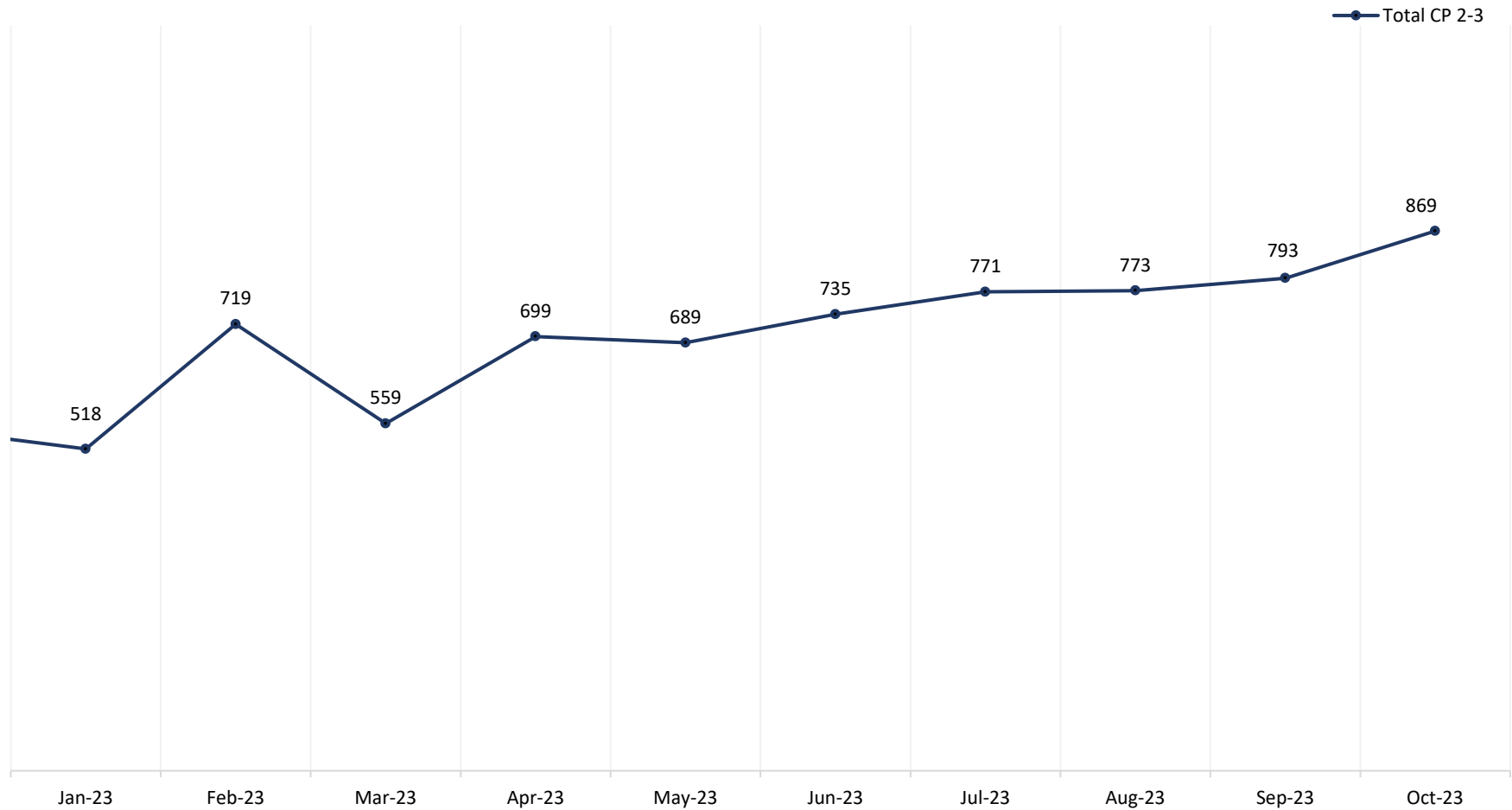


**Notes:**

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 2-3 Contingency to \$2,691.5M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

## CP 2-3 – Monthly Construction Labor

### CP 2-3 – Monthly Construction Workforce Total – Actual (FTE)

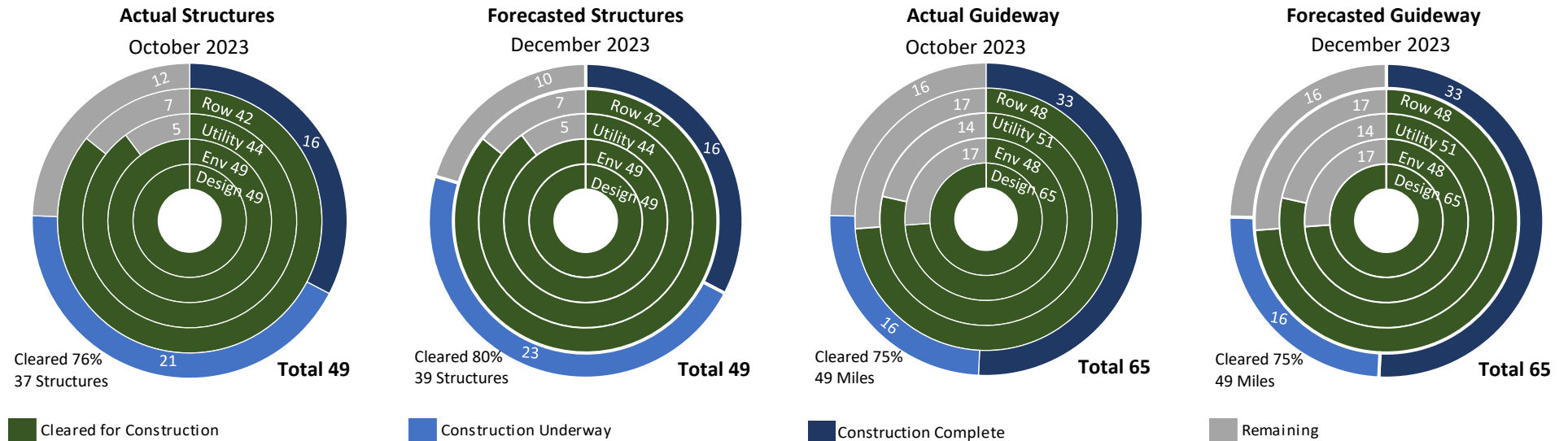


**Notes:**

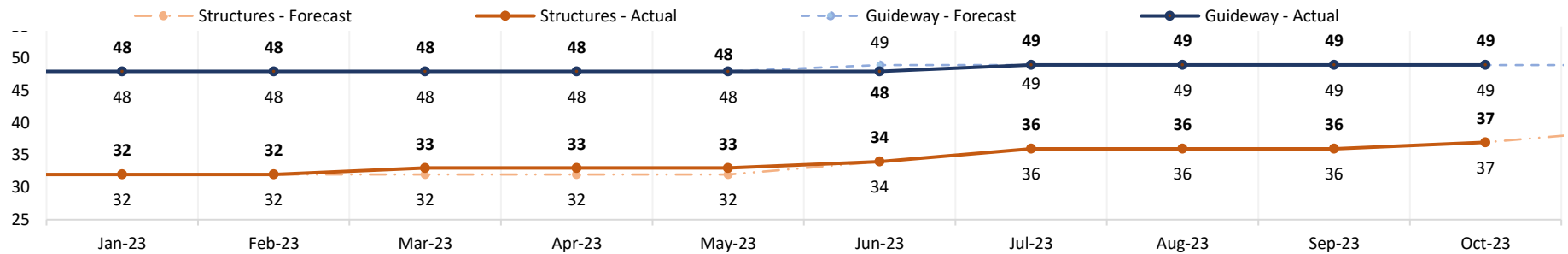
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of 76 workers from the previous month (793).

# CP 2-3 – Construction Progress

## CP 2-3 – Construction Progress



## CP 2-3 – Structures and Guideway Progress – Forecast vs. Actual



**Notes:**

- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 4 data as of September 2022, pending final approval.
- The line chart above incorporates provisional forecast numbers as of September 2022, pending final approval of RBS Revision 4.
- Construction Complete definition:
  - Structure Completion – all concrete work is complete.
  - Guideway Completion – earthworks complete with rough grading.
- Total Structures: 49:
  - 37 structures underway/construction complete. An increase of one from the previous period: Davis Avenue.
- Total Guideway: 65 miles:
  - 49 miles underway/construction complete.
- Late finish dates are being used to estimate forecast numbers.

## CP 2-3 Utility Relocation Summary

### CP 2-3 - High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	142	20%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	66	10%
Total Utilities Relocated	493	70%
<b>Total</b>	<b>701</b>	<b>100%</b>

### CP 2-3 – Summary by Utility Type

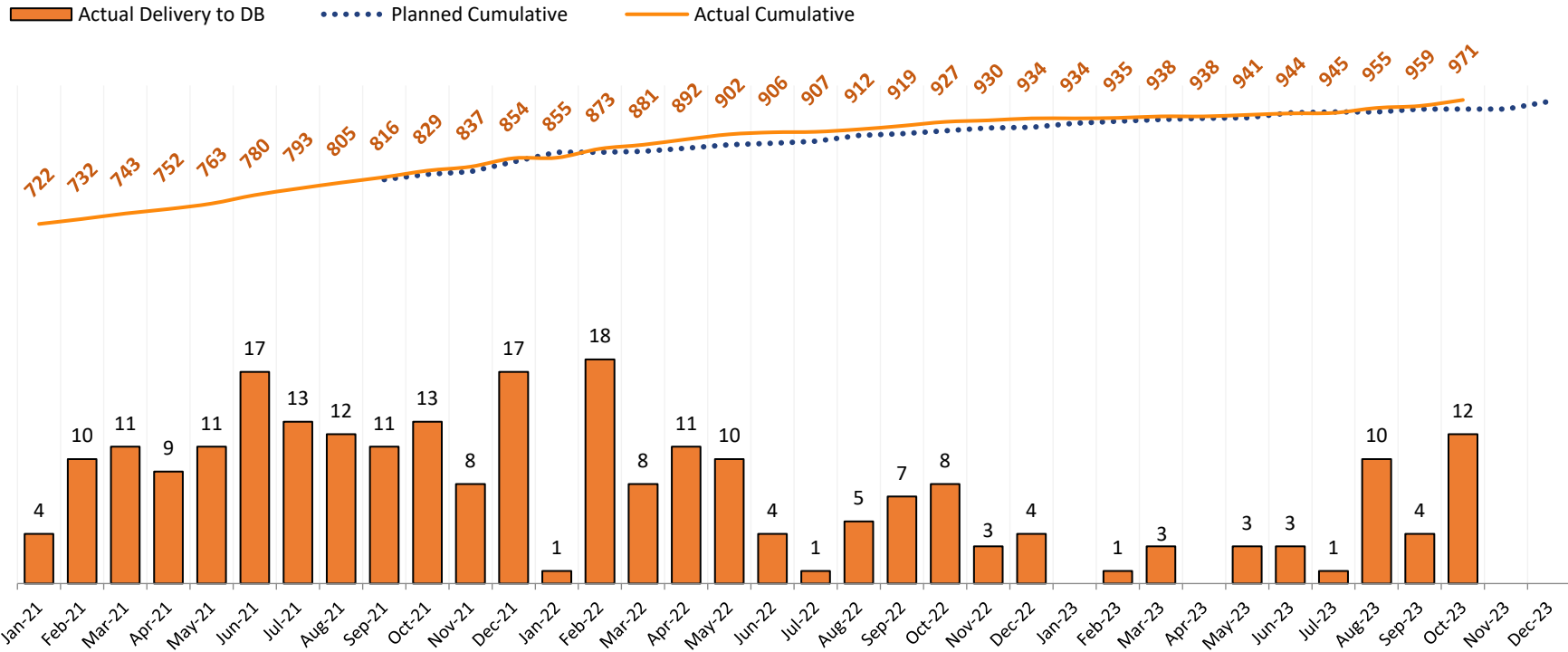
Utility	Status	Utility Relocations	Percentage
<b>Electric</b>	NOT STARTED	102	27%
	APPROVED TO START	0	0%
	IN PROGRESS	30	8%
	RELOCATED	252	65%
	<b>TOTAL</b>	<b>384</b>	<b>100%</b>
<b>Gas</b>	NOT STARTED	10	37%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	17	63%
	<b>TOTAL</b>	<b>27</b>	<b>100%</b>
<b>Telecom</b>	NOT STARTED	3	1%
	APPROVED TO START	0	0%
	IN PROGRESS	27	12%
	RELOCATED	203	87%
	<b>TOTAL</b>	<b>233</b>	<b>100%</b>
<b>Wet</b>	NOT STARTED	27	47%
	APPROVED TO START	0	0%
	IN PROGRESS	9	16%
	RELOCATED	21	37%
	<b>TOTAL</b>	<b>57</b>	<b>100%</b>

## CP 2-3 – Real Property/Right-of-Way (ROW)

### CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels October 31, 2023	Total Parcels Delivered to Date October 31, 2023	Remaining Parcels to be Delivered October 31, 2023
CP 2-3	989	971	18

### CP 2-3 – Parcel Delivery to Design-Builder (DB) Summary



**Notes:**

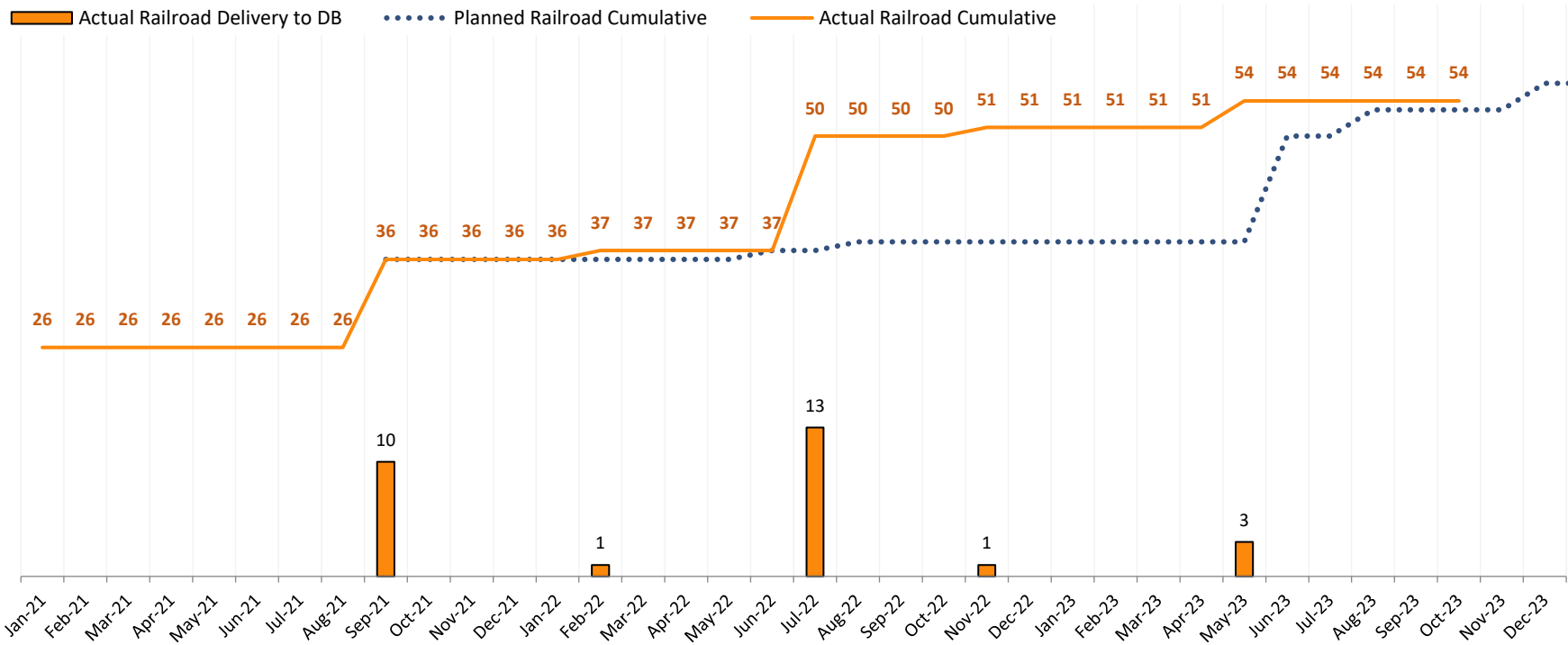
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.

## CP 2-3 – Real Property/Right-of-Way (ROW) Railroad

### CP 2-3 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels October 31, 2023	Total Railroad Parcels Delivered to Date October 31, 2023	Remaining Railroad Parcels to be Delivered October 31, 2023
CP 2-3	58	54	4

### CP 2-3 – Railroad Parcel Delivery to Design-Builder (DB) Summary



**Notes:**

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and forecast dates.

# CONSTRUCTION PACKAGE 4 (CP 4) OVERVIEW

## CP 4 – Design-Build Contract Summary<sup>(1)</sup>

### Milestones

Milestone	Date
Request for Quote (RFQ) Date:	11/20/2014
Statement of Qualification (SOQ) Date:	01/30/2015
Request for Proposal (RFP) Date:	05/27/2015
Proposal:	11/25/2015
Bid Open Date:	01/05/2016
Award Date:	02/29/2016
Late Notice to Proceed (LNTP) Date:	03/01/2016
Notice to Proceed (NTP) Date:	04/15/2016
Original Completion Date:	06/03/2019
Current Forecast Contract Completion Date <sup>(2)</sup> :	TBD
<b>Current Forecast Construction Completion Date<sup>(2)</sup>:</b>	<b>Nov 2023</b>

### Contract Value

Description	Amount
Fixed Bid Price:	\$337,247,000.00
Provisional Sums:	\$107,000,000.00
Original Contract Price:	\$444,247,000.00
Executed Change Orders:	\$337,255,962.05
Current Contract Amount:	\$781,502,962.05
Approved Invoices to Date:	\$753,232,517.85
<b>Remaining Contract Balance:</b>	<b>\$28,270,444.20</b>

### Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded <sup>(3)</sup> :	1,638
Current Forecast Contract Days <sup>(3)</sup> :	2,782
Calendar Days Worked (thru 10/31/2023):	2,755

### Expended to Date

Description	Percentage
Time <sup>(3)</sup> :	99.0%
Dollars:	96.4%

### Growth Percentage

Description	Percentage
Time <sup>(3)</sup> :	143.2%
Dollars:	75.9%

### Notes:

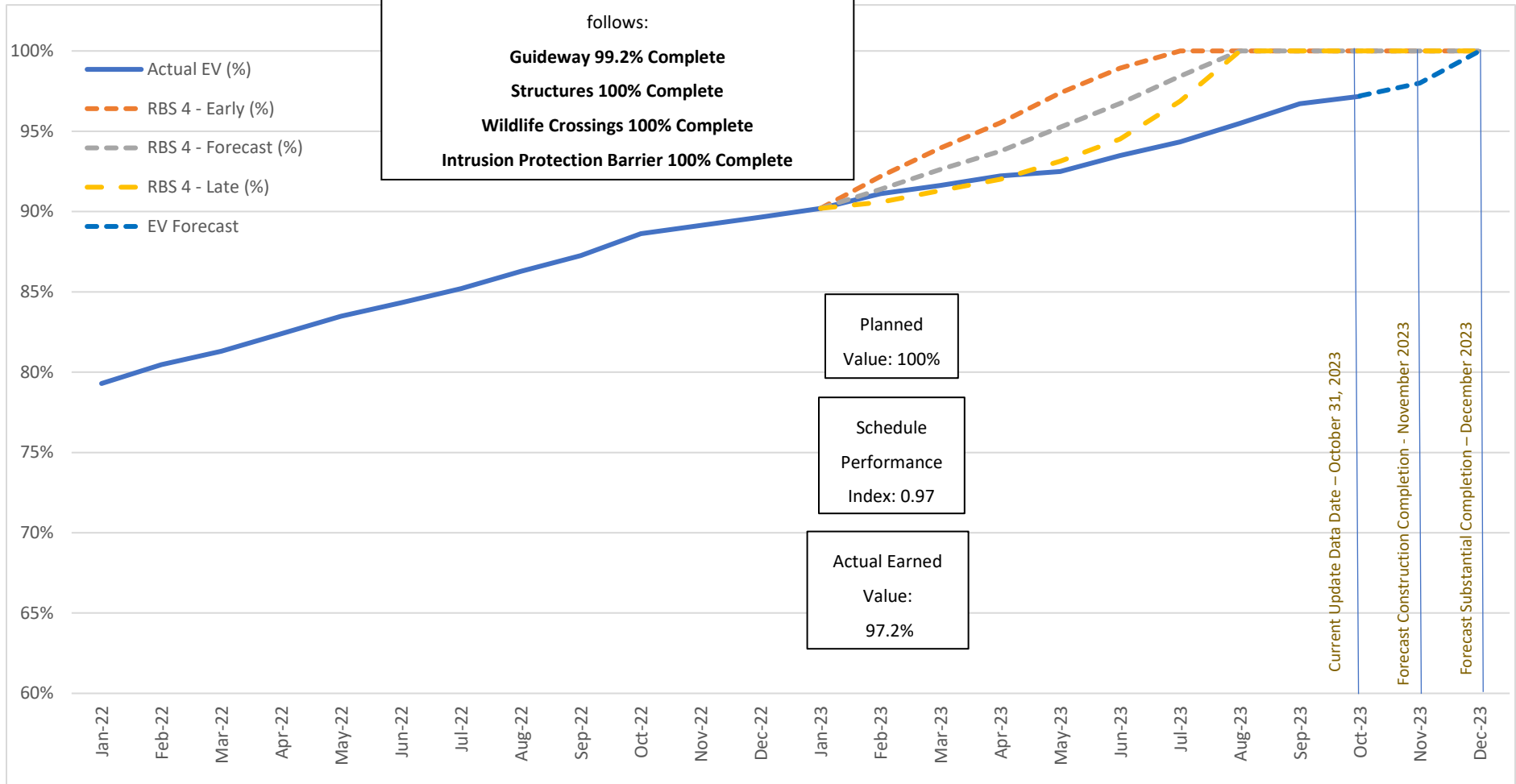
1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated to align with current projected milestone dates of guideway completion while substantial and final completion are pending the agreement of design with the final third-party on canal 9-22 relocation.
3. Contract Time Status (Extension of Time Awarded and Current Forecast Contract Days), Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Construction Completion Date.

## CP 4 – Earned Value

### CP 4 – Earned Value Summary (%)

The CP 4 completion forecasts are now primarily dependent on the outcome of one agreement with a third-party. Current forecast of Guideway completion is November 2023 with Substantial Completion before end of year. Given the above, the Project status is as follows:

**Guideway 99.2% Complete**  
**Structures 100% Complete**  
**Wildlife Crossings 100% Complete**  
**Intrusion Protection Barrier 100% Complete**



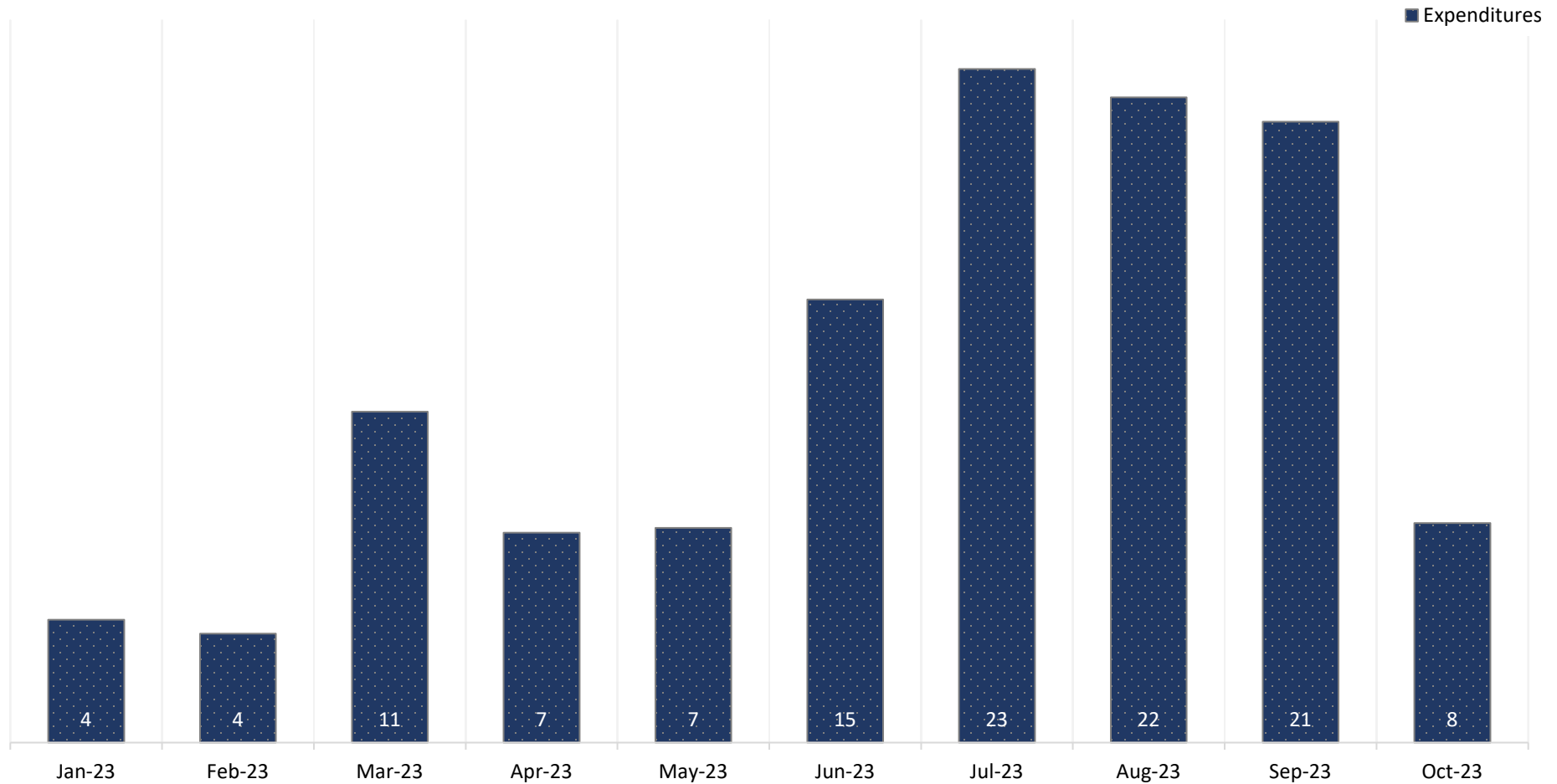
**Notes:**

- Forecast periods are pending review.
- Earned Value represents physical progress of site activities, which is based on project team verification of site progress measurements.
- The early dates graph is optimistic and assumes activities will take place on the schedule early dates.
- Average graph assumes non-critical path activities are taking place mid-way of early and late dates.
- The late dates graph assumes activities will take place on the schedule late dates. If actuals fall below late graph, it indicates schedule slippage. To provide contingency, the Schedule Performance Index (SPI) is measured against the average graph.
- Time contingency is not included in these forecasts. This is Authority owned contingency.



## CP 4 – Design-Build Expenditures

### CP 4 – Monthly Expenditures (\$ Millions)



**Notes:**

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$7.6M.

## CP 4 – Change Orders (CO)

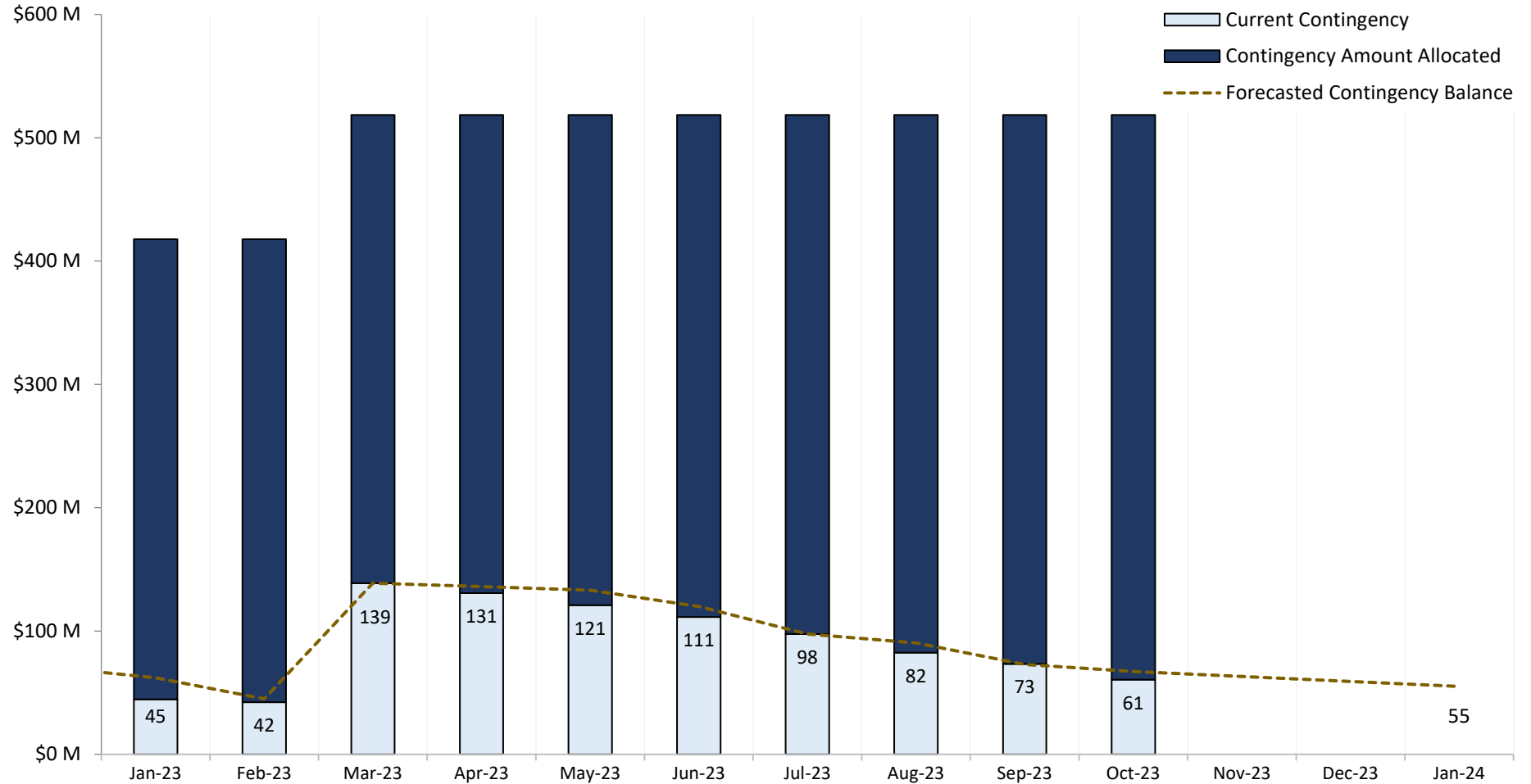
### CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
172	TIA #6 Subcontractors Delay Claims - Pacific Steel	Executed	\$380,352.32	10-19-23
165.1	Semitropic Facilities - Construction Costs	Executed	\$18,565,000.00	10-10-23
165 TA	Semitropic – Void Original 12/22/22 Change Order 165	Executed	(\$7,500,000.00)	10-10-23
213	Environmental Monitoring Additional Costs from April 2023 to May 2023	Executed	\$512,853.21	10-5-23
214	Crimson Midstream Additional Costs	Executed	\$752,722.98	10-2-23
<b>TOTAL</b>			<b>\$12,710,928.51</b>	

- Note:**
- On October 10, 2023, Change Order 165.1 was executed. This Change Order included language that superseded the original Change Order 165.0, that was executed in December 2022 in the amount of \$7.5 million, thereby making it void.

## CP 4 – Risk Contingency

### CP 4 – Risk Contingency Status (\$ Millions)

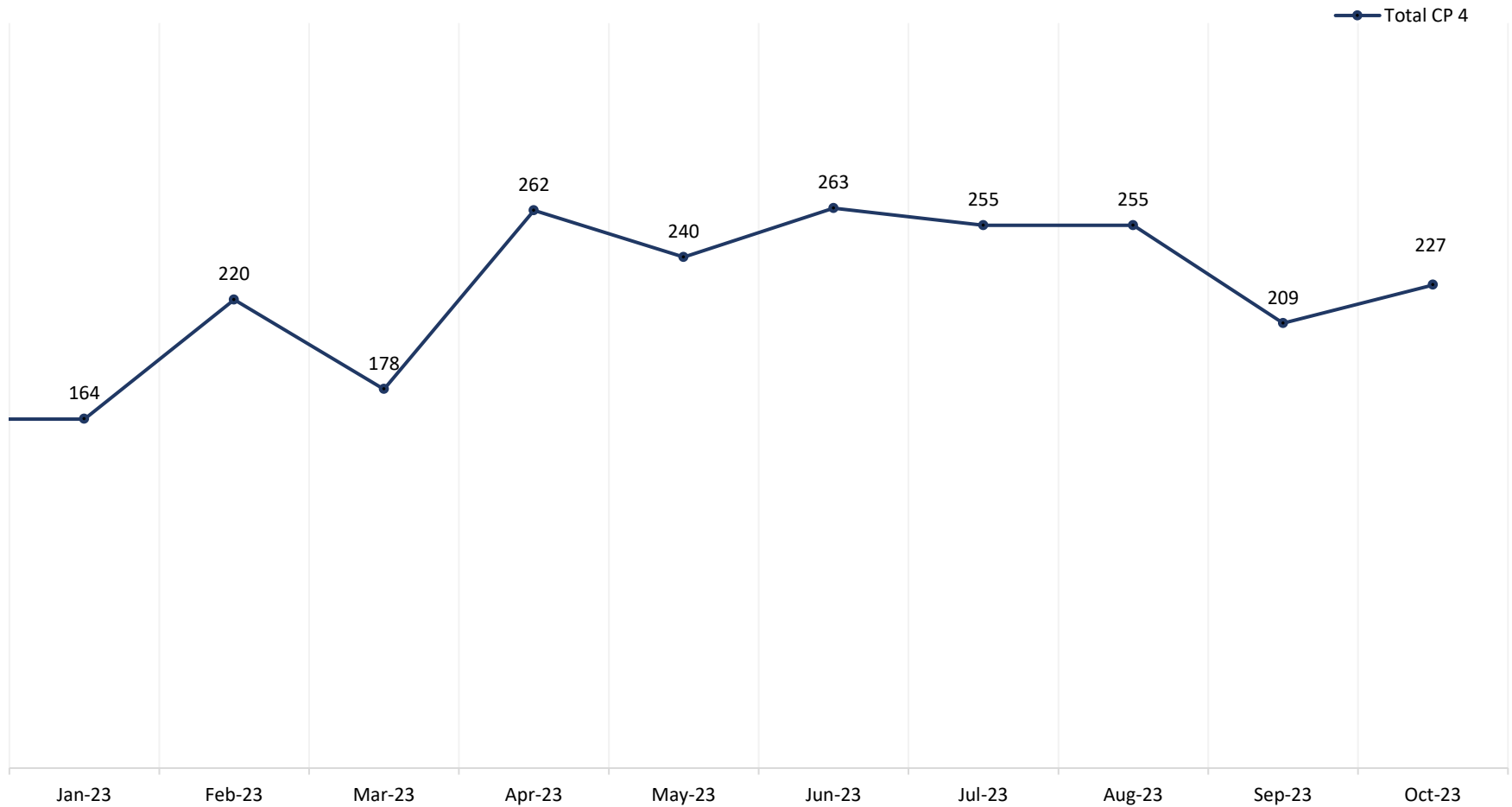


**Notes:**

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 4 Contingency to \$518.5M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

## CP 4 – Monthly Construction Labor

### CP 4 – Monthly Construction Workforce Total – Actual (FTE)

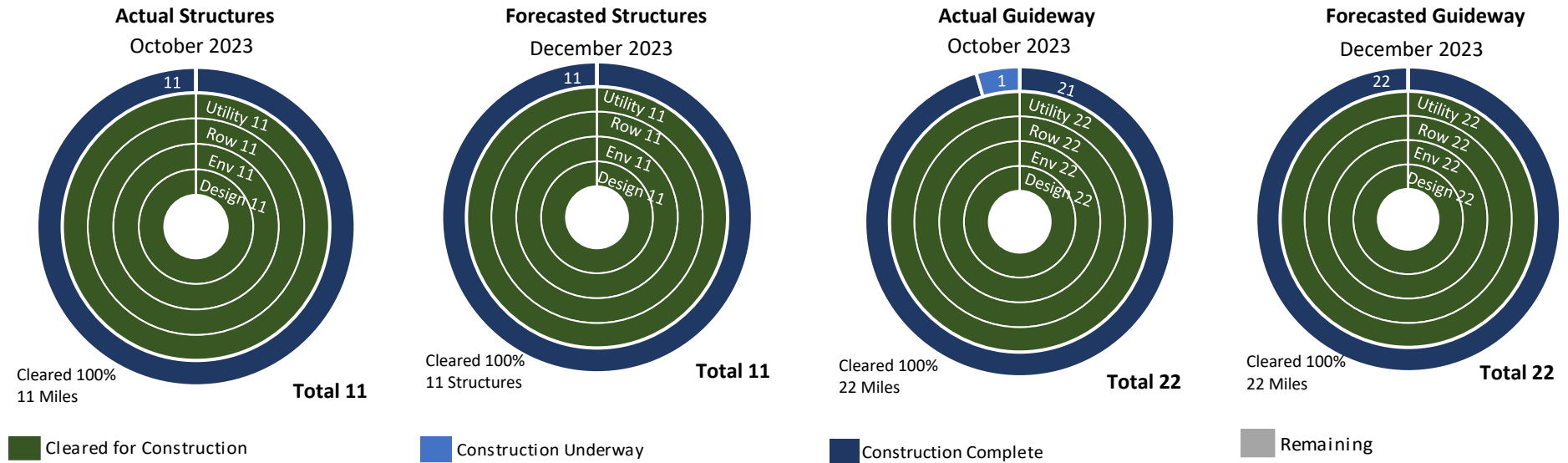


**Notes:**

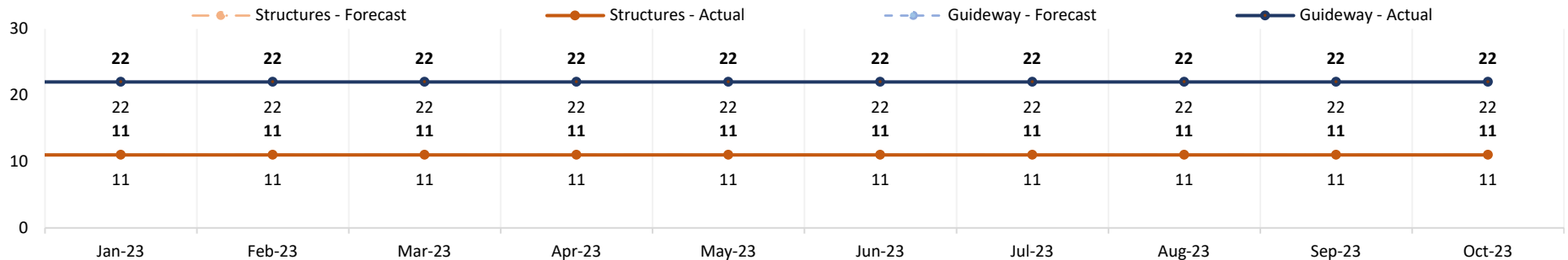
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of 18 from the previous month (209).

# CP 4 – Construction Progress

## CP 4 – Construction Progress



## CP 4 – Structures and Guideway Progress – Forecast vs. Actual



**Notes:**

- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 4 approved schedule.
- Construction Complete definition:
  - Structure Completion – all concrete work is complete.
  - Guideway Completion – earthworks complete with rough grading.
- Total Structures: 11:
  - 11 of 11 structures completed.
- Total Guideway: 22 miles. The actual miles for CP 4 are 21.5 miles but rounded to 22 miles for consistency in reporting:
  - 22 miles underway/construction complete. Two miles of guideway completed in October 2023.

## CP 4 – Utility Relocation Summary

### CP 4 – High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	0	0%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	21	15%
Total Utilities Relocated	122	85%
<b>Total</b>	<b>143</b>	<b>100%</b>

### CP 4 – Summary by Utility Type

Utility	Status	Utility Relocations	Percentage
<b>Electric</b>	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	1	2%
	RELOCATED	61	98%
	<b>TOTAL</b>	<b>62</b>	<b>100%</b>
<b>Gas</b>	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	7	100%
	<b>TOTAL</b>	<b>7</b>	<b>100%</b>
<b>Telecom</b>	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	32	100%
	<b>TOTAL</b>	<b>32</b>	<b>100%</b>
<b>Wet</b>	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	20	48%
	RELOCATED	22	52%
	<b>TOTAL</b>	<b>42</b>	<b>100%</b>

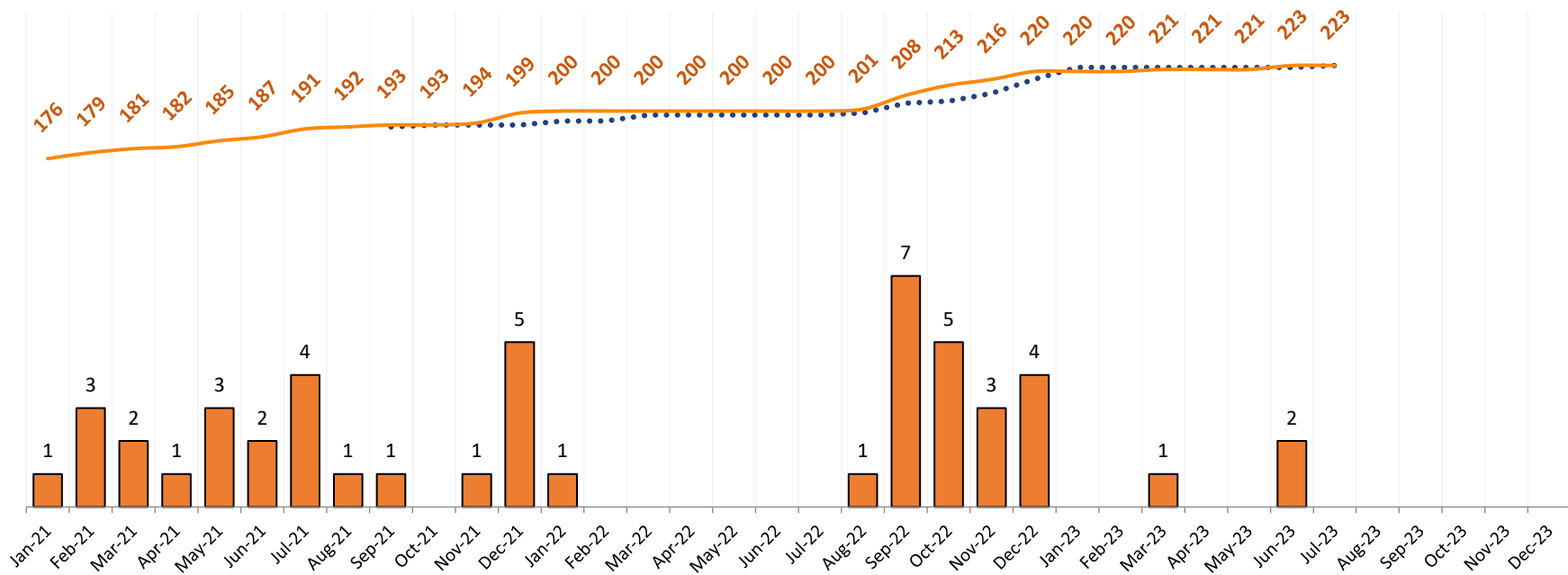
## CP 4 – Real Property/Right-of-Way (ROW)

### CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels October 31, 2023	Total Parcels Delivered to Date October 31, 2023	Remaining Parcels to be Delivered October 31, 2023
CP 4	223	223	0

### CP 4 – Parcel Delivery to Design-Builder (DB) Summary

■ Actual Delivery to DB    
 ●●●●● Planned Cumulative    
 — Actual Cumulative



**Notes:**

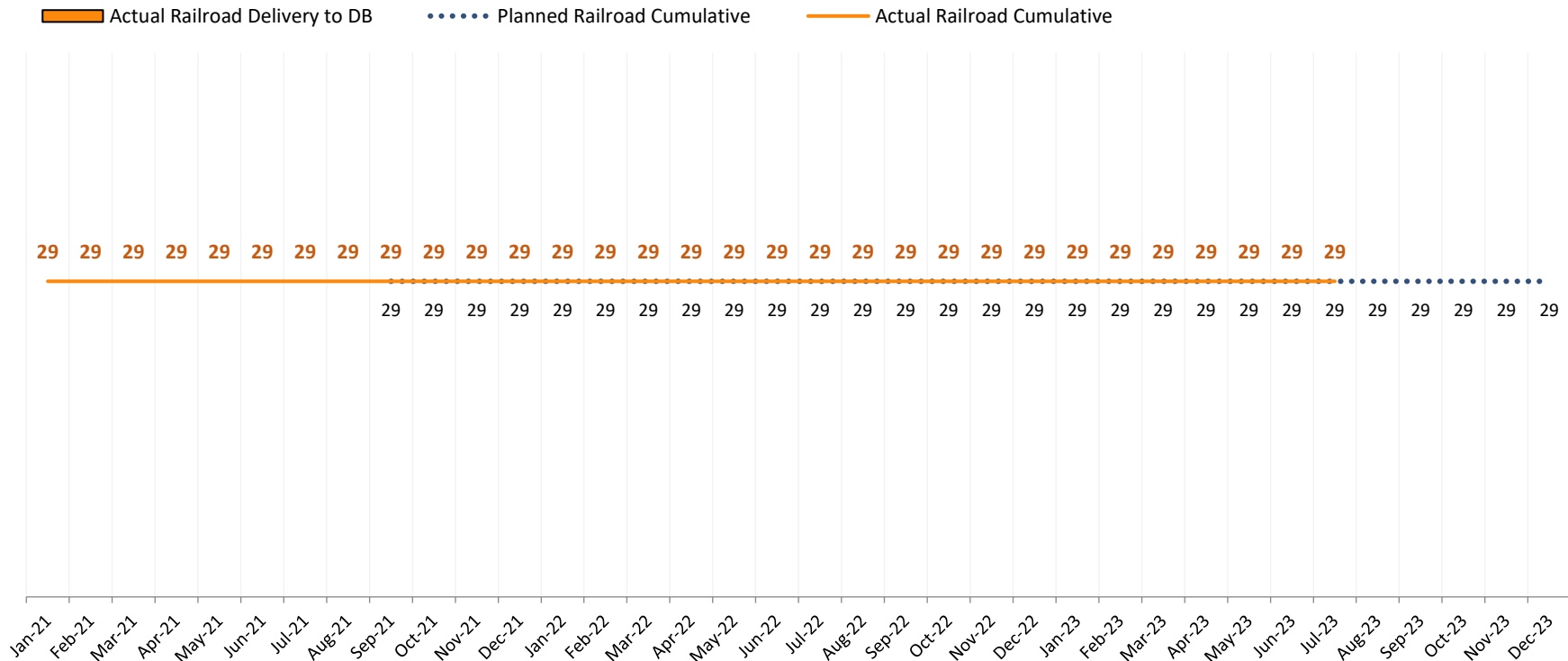
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

# CP 4 – Real Property/Right-of-Way (ROW) Railroad

## CP 4 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels October 31, 2023	Total Railroad Parcels Delivered to Date October 31, 2023	Remaining Railroad Parcels to be Delivered October 31, 2023
CP 4	29	29	0

## CP 4 – Railroad Parcel Delivery to Design-Builder (DB) Summary





# Project Development Schedule (Environmental Clearance) – Record of Decision (ROD)

## Project Development Schedule (to ROD)

Program Priority	Segment	Progress	Complete Purpose and Need Statement		Complete Alternatives Analysis		Board Concurrence of Preliminary Preferred Alt. Draft EIR/EIS		Publish Draft EIR/EIS		Publish Final EIS and Obtain ROD		Date EIR/EIS To Be Completed	
			Number	Section	Due Dates	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month
Document Complete	Merced to Fresno	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Fresno to Bakersfield	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	CV Electrical Interconnections	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Locally Generated Alternative (F-B)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Central Valley Wye (M-F)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Bakersfield to Palmdale	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Burbank to Los Angeles	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	San Jose to Merced	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	San Francisco to San Jose	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
<b>1</b>	Los Angeles to Anaheim	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Oct-24 Oct-24 <sup>1</sup>	Oct-24 Oct-24 <sup>1</sup>	Nov-25 Nov-25 <sup>1</sup>	Nov-25 Nov-25 <sup>1</sup>	Dec-25 <sup>1</sup>	Dec-25 <sup>1</sup>
<b>2</b>	Palmdale to Burbank	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Dec-23 Dec-23	Dec-23 Dec-23	Feb-24	Feb-24
<b>3</b>	Heavy Maintenance Facility (HMF)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**Note:**

1. For the Los Angeles to Anaheim project section, the schedule has been revised and the baseline re-established to account for supplemental alternative analysis.
2. For the Palmdale to Burbank project section, the schedule has been revised and the baseline re-established.

## Project Development – Key Actions

### Project Development (Environmental Clearance) – Key Actions Summary

Project Section	Key Actions
<b>San Francisco To San Jose</b>	Environmental Clearance activities complete. Authority is currently in settlement discussions for ongoing litigation activities.
<b>San Jose To Merced</b>	Environmental Clearance activities complete. The Authority is participating in post-Record of Decision (ROD) coordination with external stakeholders such as the Transportation Authority of Monterey County, Grasslands Water District, City of San Jose, and others.
<b>Central Valley Wye</b>	Conducted monthly progress meeting with County of Madera on Fairmead mitigation projects. Environmental Clearance activities complete. Transition to Merced Extension (Merced to Madera).
<b>Locally Generated Alternative</b>	Environmental Clearance activities complete. Transition to Bakersfield Extension (LGA).
<b>Bakersfield To Palmdale</b>	Work through Notice of Determination/Record of Decision (NOD/ROD) has been completed. The Authority has continued to meet with key stakeholders (e.g., Center for Biological Diversity, City of Palmdale) as necessary.
<b>Palmdale To Burbank</b>	Regional Consultant is preparing the Administrative Final EIR/EIS for review and approval by the Authority prior to being submitted to the Cooperating Agencies. Major activities on this project section included preparing response to comments received on the Draft EIR/EIS and preparing permitting documents.
<b>Burbank To Los Angeles</b>	Work through NOD/ROD has been completed. Project closeout activities are ongoing. Authority is currently in settlement discussions for ongoing litigation activities.
<b>Los Angeles To Anaheim</b>	The LA-A team finalized, and submitted to HSR Communications, a Supplemental Alternative Analysis (SAA) which evaluates potential project alternatives and recommends alternatives or options to advance for further study in the Draft EIR/EIS. The SAA is anticipated to be released in November 2023 and a board briefing is scheduled for the November 2, 2023 board meeting.

### Project Development (Post-ROD) – Key Actions Summary

Project Section	Key Actions
<b>Merced Extension (Merced to Madera)</b>	Stantec Inc. under agreement HSR 22-02, continues to make progress on the 30% design goals for this Project. On August 24, 2023, various Subject Matter Experts from the Authority met with Stantec to determine the format and content of the Draft Configuration Footprint. Third Party coordination is advancing with the local agencies and utility companies. Stantec submitted to the Authority the Draft Configuration Footprint on October 10, 2023, and expect to be accepted by the Authority by December 2023. HSR 22-02 contract was amended to include NTP-3 (Merced Station Relocation) on October 11, 2023. A series of Value Engineering and Value Analysis Workshops were held in October 2023.
<b>Fresno to Bakersfield Locally Generated Alternative (LGA)</b>	HNTB Corporation (HNTB), under agreement HSR 22-01, continues to make progress on the 30% design goals for this Project. The LGA was awarded the CRISI Grant to design and construct 6 Grade Separations within the City of Shafter. A ROW priority acquisition plan is under development for both the Shafter area associated with the recent grant award and the remainder of the alignment from Riverside St to the F St Station. Third Party coordination is continuing to advance with the local agencies and utility companies, and reimbursement agreements are in various stages of negotiations with these stakeholders. The LGA team has completed the Value Analysis Study and is evaluating the proposed options for potential recommendation for inclusion into the design package. HNTB has submitted the Draft Configuration Footprint for review in early November.