



Finance & Audit Committee

# **CENTRAL VALLEY STATUS REPORT**

February 29, 2024 Report (data through December 31, 2023)

## Executive Summary

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

- December 2023 Expenditures totaled \$87.4M:
  - Construction Package 1 (Page 14) - Expenditures totaled \$32.4M.
  - Construction Package 2-3 (Page 23) - Expenditures totaled \$47.9M.
  - Construction Package 4 (Page 33) - Expenditures totaled \$7.1M.
- Total CP Cumulative Actual Expenditures (Pages 12, 22, and 31) – \$5,615.9M.
- Total Cumulative Current Contract Amount (Pages 12, 22, and 31) – \$7,754.4M.

### Change Orders

- Executed Change Orders this period – 15 for a total of \$132.9M:
  - Construction Package 1 (Page 15) – Two for a total of \$0.2M.
  - Construction Package 2-3 (Page 24) – 11 for a total of \$131.0M.
  - Construction Package 4 (Page 34) – Two for a total of \$1.7M.

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

- Approved Contingency – \$6,001.6M budgeted contract contingency. Contingency balance is \$1,158.3M as of data date.
  - Construction Package 1 (Page 16) – \$2,791.6M budgeted contract contingency. Contingency balance is \$516.8M as of data date.
  - Construction Package 2-3 (Page 25) – \$2,691.5M budgeted contract contingency. Contingency balance is \$584.5M as of data date.
  - Construction Package 4 (Page 35) – \$518.5M budgeted contract contingency. Contingency balance is \$57.0M as of data date.

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

- December 2023, Average Daily Site Workers (by Week) – 1,415 workers. A decrease of 77 workers from the previous period (1,492):
  - Construction Package 1 (Page 17) – 320 workers. An increase of 6 workers from the previous month (314).
  - Construction Package 2-3 (Page 26) – 887 workers. A decrease of 79 workers from the previous month (966).
  - Construction Package 4 (Page 36) – 208 workers. A decrease of 4 workers from the previous month (212).
- 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 – 78 underway/construction complete (33 underway, 45 completed) compared to 93 structures total (84%). No change from the previous period.
  - Construction Package 1 – 28 structures underway/construction complete (10 underway, 18 completed).
  - Construction Package 2-3 – 39 structures underway/construction complete (23 underway, 16 completed).
  - Construction Package 4 – 11 of 11 structures completed.
- Guideway – 91 miles underway/construction complete (35 underway, 56 completed) compared to 119 miles total (76%). No change from the previous period.
  - 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).

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

- Relocated: 1,232 (67%); In Progress: 302 (17%); Approved to Start: 0 (0%); Not Started: 302 (16%); Total: 1,836. A total of 7 relocated in December 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: 610 (61%); In Progress: 209 (21%); Approved to Start: 0 (0%); Not Started: 173 (18%); Total: 992.
  - Construction Package 2-3 – Relocated: 497 (71%); In Progress: 75 (11%); Approved to Start: 0 (0%); Not Started: 129 (18%); Total: 701.
  - Construction Package 4 – Relocated: 125 (87%); In Progress: 18 (13%); 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 – 2,260 parcels compared to an estimated 2,294 parcels needed.
- Parcels Delivered to Design-Builder (DB) – One parcel in December 2023 from CP 2-3.
- Construction Packages 1-4 – Zero parcels added for CP 1-4 and zero parcels removed for CP 2-3. 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 December 2023.

**Project Development (Environmental Clearance) Schedule – Notice of Determination (NOD)/Record of Decision (ROD) ([Pages 40 - 41](#))**

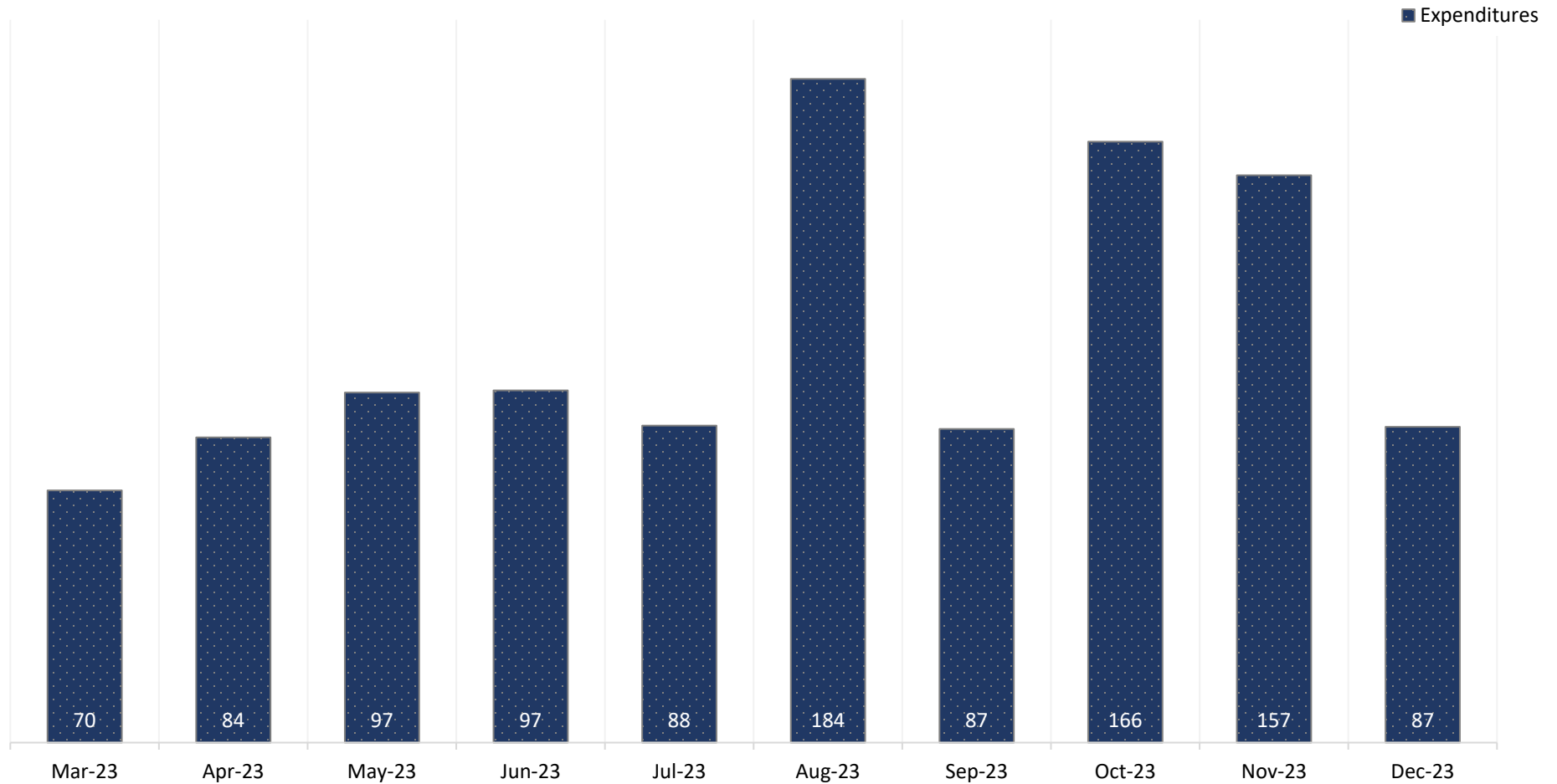
- San Francisco to San Jose – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- San Jose to Merced – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- Bakersfield to Palmdale – Work through NOD/ROD has been completed. Continued meeting with key stakeholders, including the Center for Biological Diversity.
- Palmdale to Burbank – The Administrative Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) has been submitted to the Cooperating Agencies for review. 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 ([Pages 41 - 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 it was accepted by the Authority on December 28, 2023. HSR 22-02 contract was amended to include NTP-3 (Merced Station Relocation).
- 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)

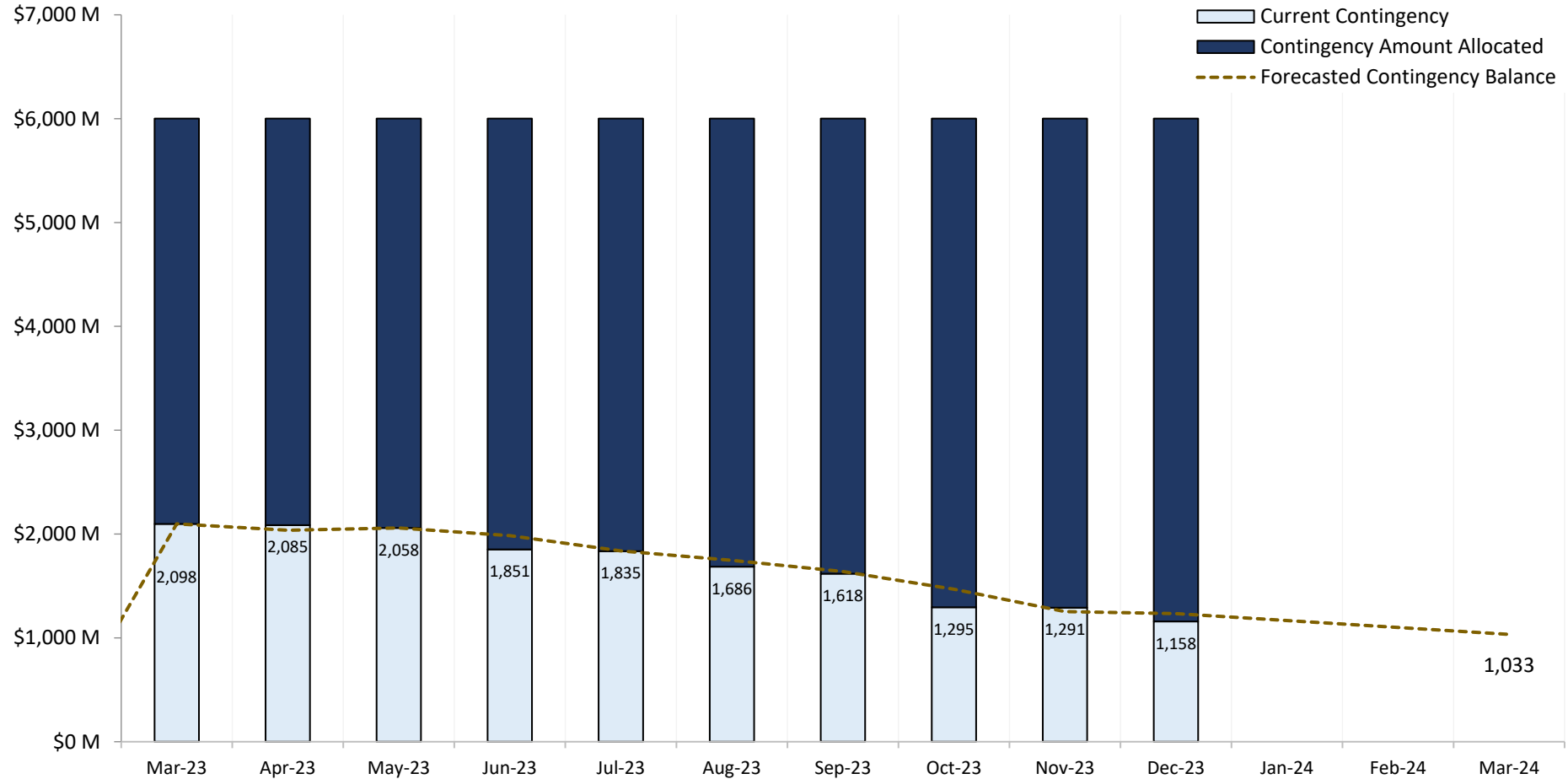


**Notes:**

1. December 2023 Expenditures totaled \$87.4M:
  - a. Construction Package 1 – Expenditures totaled \$32.4M.
  - b. Construction Package 2-3 – Expenditures totaled \$47.9M.
  - c. Construction Package 4 – Expenditures totaled \$7.1M.

## CP 1-4 – Risk Contingency

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

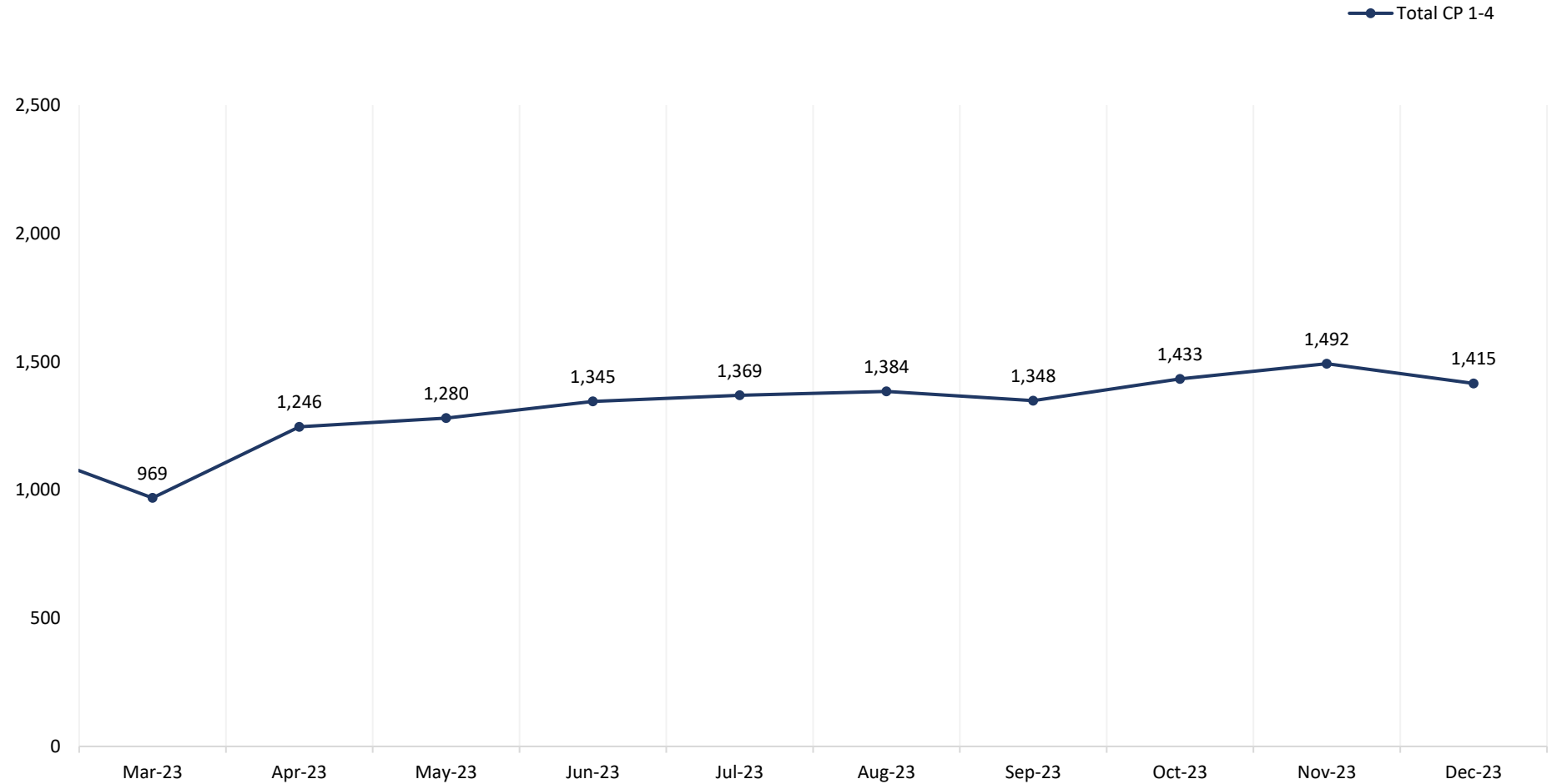


**Notes:**

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

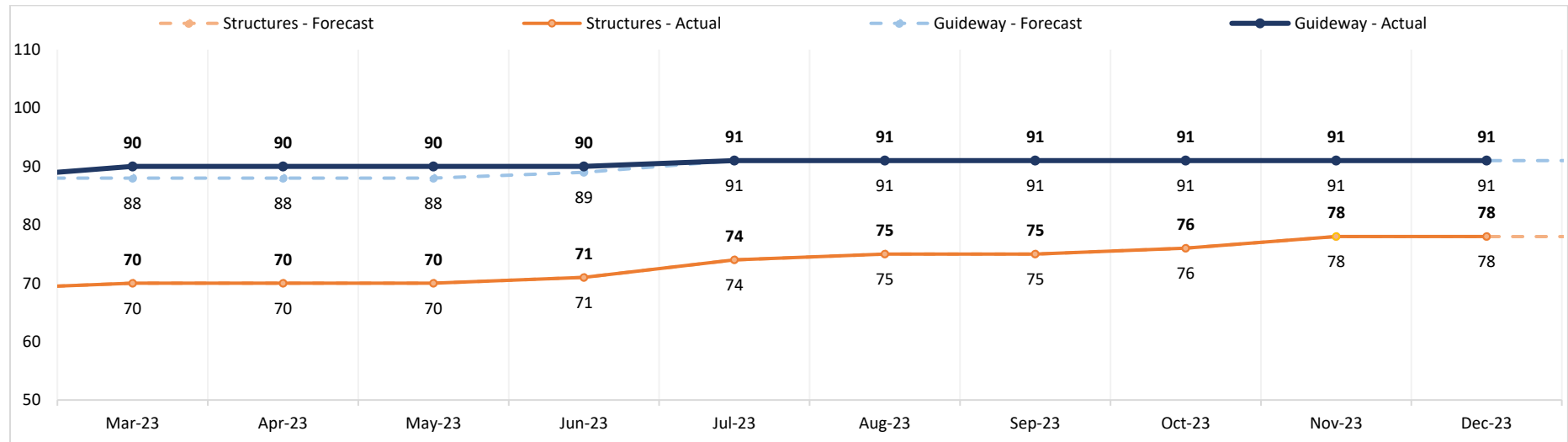
### CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- 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. December 2023, Average Daily Site Workers (by week) – 1,415 workers. A decrease of 77 workers from the previous period (1,492).
    - a. Construction Package 1 (Page 17) – 320 workers. An increase of 6 workers from the previous month (314).
    - b. Construction Package 2-3 (Page 26) – 887 workers. A decrease of 79 workers from the previous month (966).
    - c. Construction Package 4 (Page 36) – 208 workers. A decrease of 4 workers from the previous month (212).

## 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>	10	18	23	16	0	11	33	45	<b>78</b>

**Notes:**

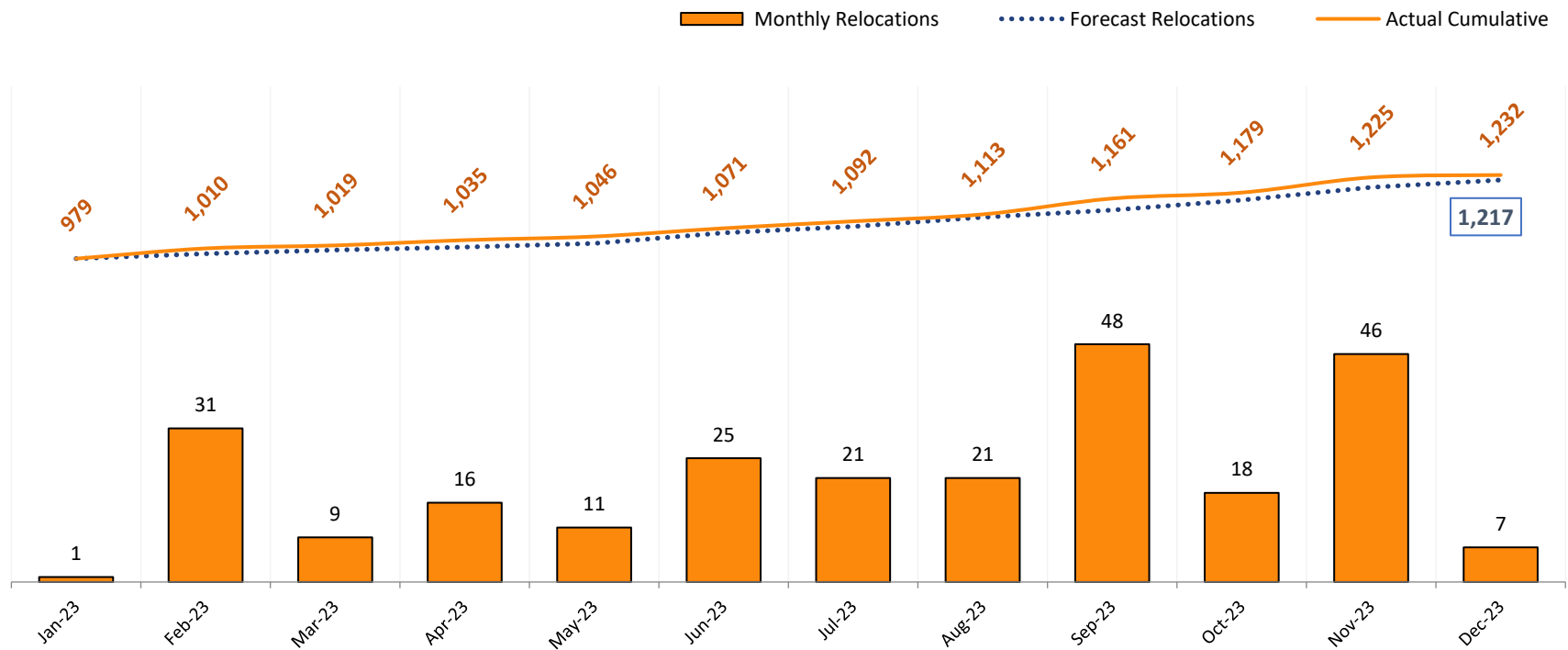
1. Construction Complete definition:
  - a. Structure Completion – all concrete work is complete.
  - b. Guideway Completion – earthworks complete with rough grading.
2. Total Structures: 93
3. Structures – 78 underway/construction complete compared to 93 structures total (84%).
  - a. CP 1 – 28 structures underway/construction complete.
  - b. CP 2-3 – 39 structures underway/construction complete.
  - 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%).
  - 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.

# CP 1-4 – Utility Relocations

## CP 1-4 – Utility Relocation Summary

Construction Package	Total Relocations December 31, 2023	Total Utilities Relocated to Date December 31, 2023	Remaining Utility Relocations December 31, 2023
CP 1	992	610	382
CP 2-3	701	497	204
CP 4	143	125	18
<b>Total</b>	<b>1,836</b>	<b>1,232</b>	<b>604</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	76	101	0	177	27%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	21	31	0	52	8%
	RELOCATED	118	252	62	432	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	28	0	0	28	22%
	RELOCATED	46	17	7	70	56%
	<b>TOTAL</b>	<b>91</b>	<b>27</b>	<b>7</b>	<b>125</b>	<b>100%</b>
Telecom	NOT STARTED	32	3	0	35	5%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	54	27	0	81	12%
	RELOCATED	329	203	32	564	83%
	<b>TOTAL</b>	<b>415</b>	<b>233</b>	<b>32</b>	<b>680</b>	<b>100%</b>
Wet	NOT STARTED	48	15	0	63	17%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	106	17	18	141	38%
	RELOCATED	117	25	24	166	45%
	<b>TOTAL</b>	<b>271</b>	<b>57</b>	<b>42</b>	<b>370</b>	<b>100%</b>

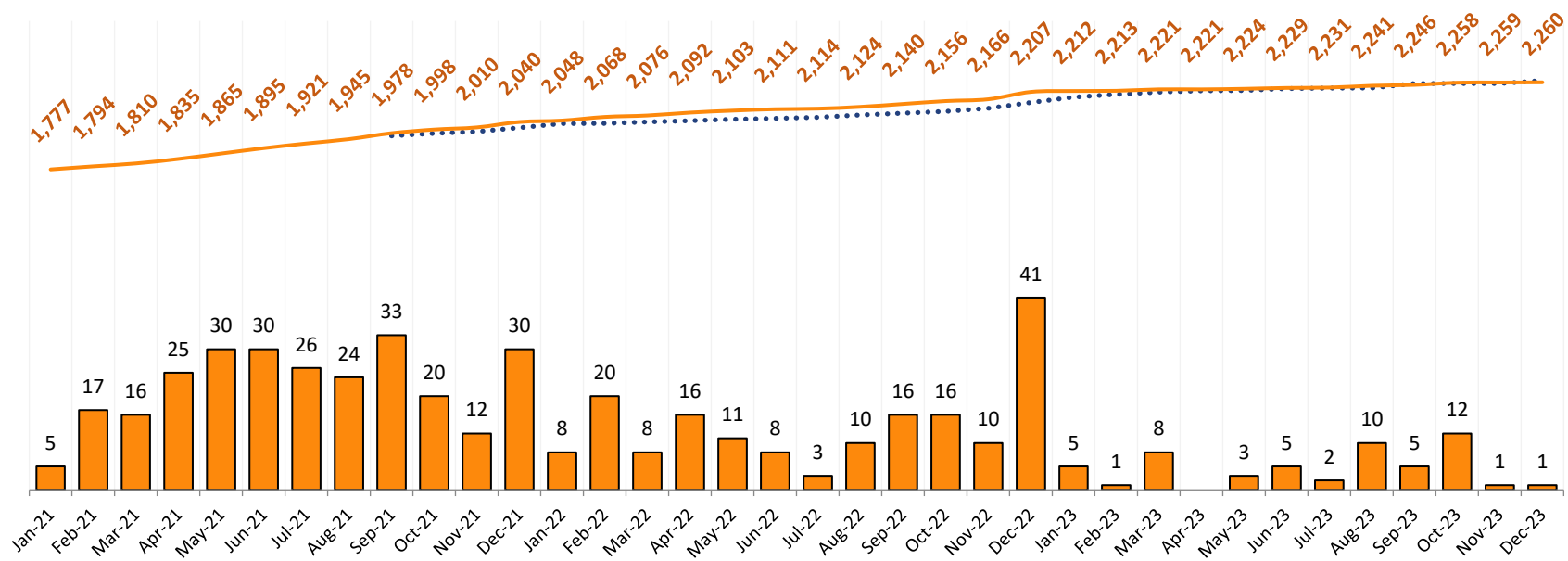
## CP 1-4 – Real Property/Right-of-Way (ROW)

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

Construction Package	Total Needed Parcels December 31, 2023	Total Parcels Delivered to Date December 31, 2023	Remaining Parcels to be Delivered December 31, 2023	Percentage Delivered
CP 1	1,083	1,064	19	98%
CP 2-3	988	973	15	98%
CP 4	223	223	0	100%
<b>Total</b>	<b>2,294</b>	<b>2,260</b>	<b>34</b>	<b>98%</b>

### CP 1-4 – 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 and forecasts based on Revised Baseline Schedules (RBS) Revision 4.



# 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:	\$2,590,277,822.26
Current Contract Amount:	\$3,613,265,822.26
Approved Invoices to Date:	\$2,422,396,883.38
<b>Remaining Contract Balance:</b>	<b>\$1,190,868,938.88</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 12/31/2023):	3,729

### Expended to Date

Description	Percentage
Time <sup>(3)</sup> :	77.9%
Dollars:	67.0%

### Growth Percentage

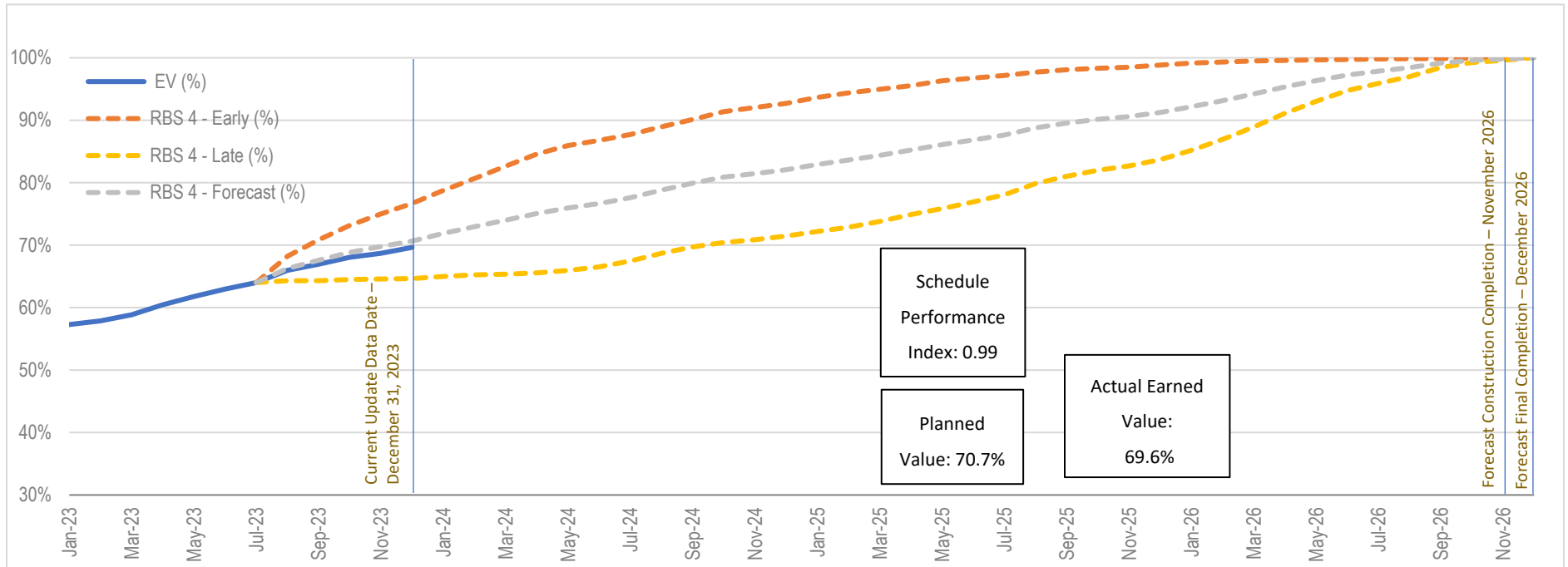
Description	Percentage
Time <sup>(3)</sup> :	194.0%
Dollars:	253.2%

### 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

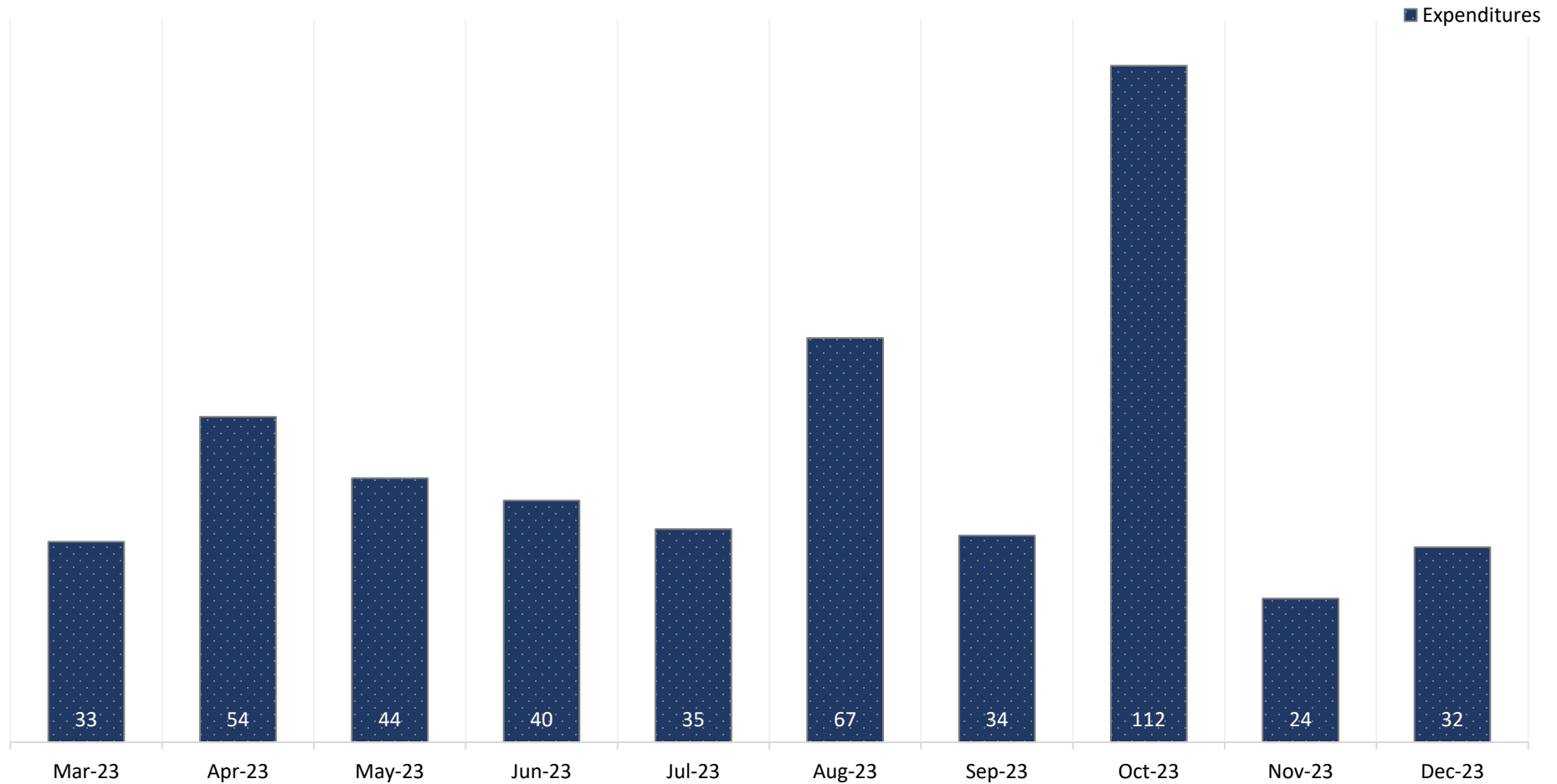
## CP 1 – Earned Value Summary (%)



- Notes:**
1. Earned Value represents physical progress of site activities, which is based on project team verification of site progress measurements.
  2. The early dates graph is optimistic and assumes activities will take place on the schedule early dates.
  3. Average graph assumes non-critical path activities are taking place mid-way of early and late dates.
  4. 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.
  5. 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 \$32.4M.

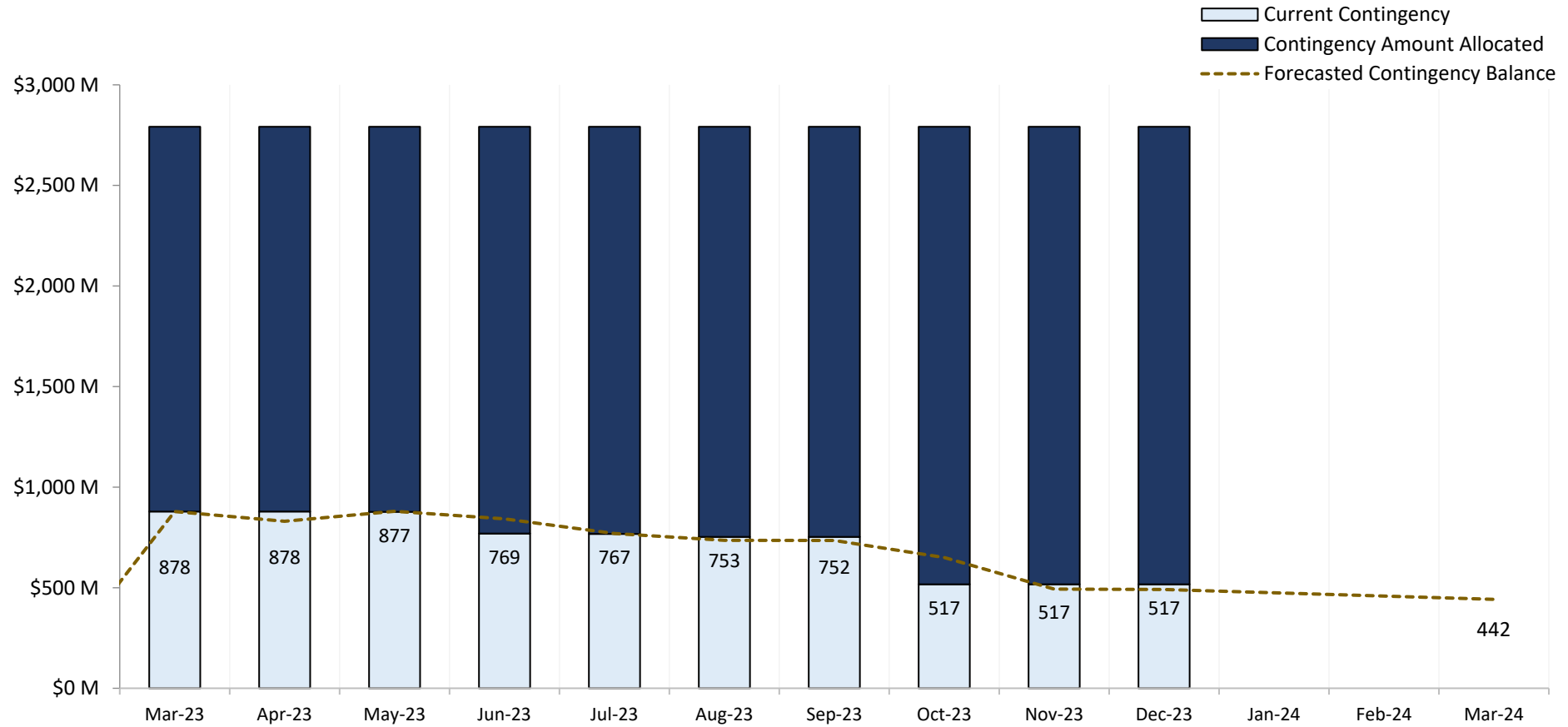
## CP 1 – Change Orders (CO)

### CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
515	Comcast at Belmont Temporary Crossing - Third Party Costs Only	Executed	\$224,993.00	12-21-23
517	Unforeseen Soil Conditions at Westside Shoofly	Executed	\$9,556.79	12-21-23
<b>TOTAL</b>			<b>\$234,549.79</b>	

## CP 1 – Risk Contingency

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



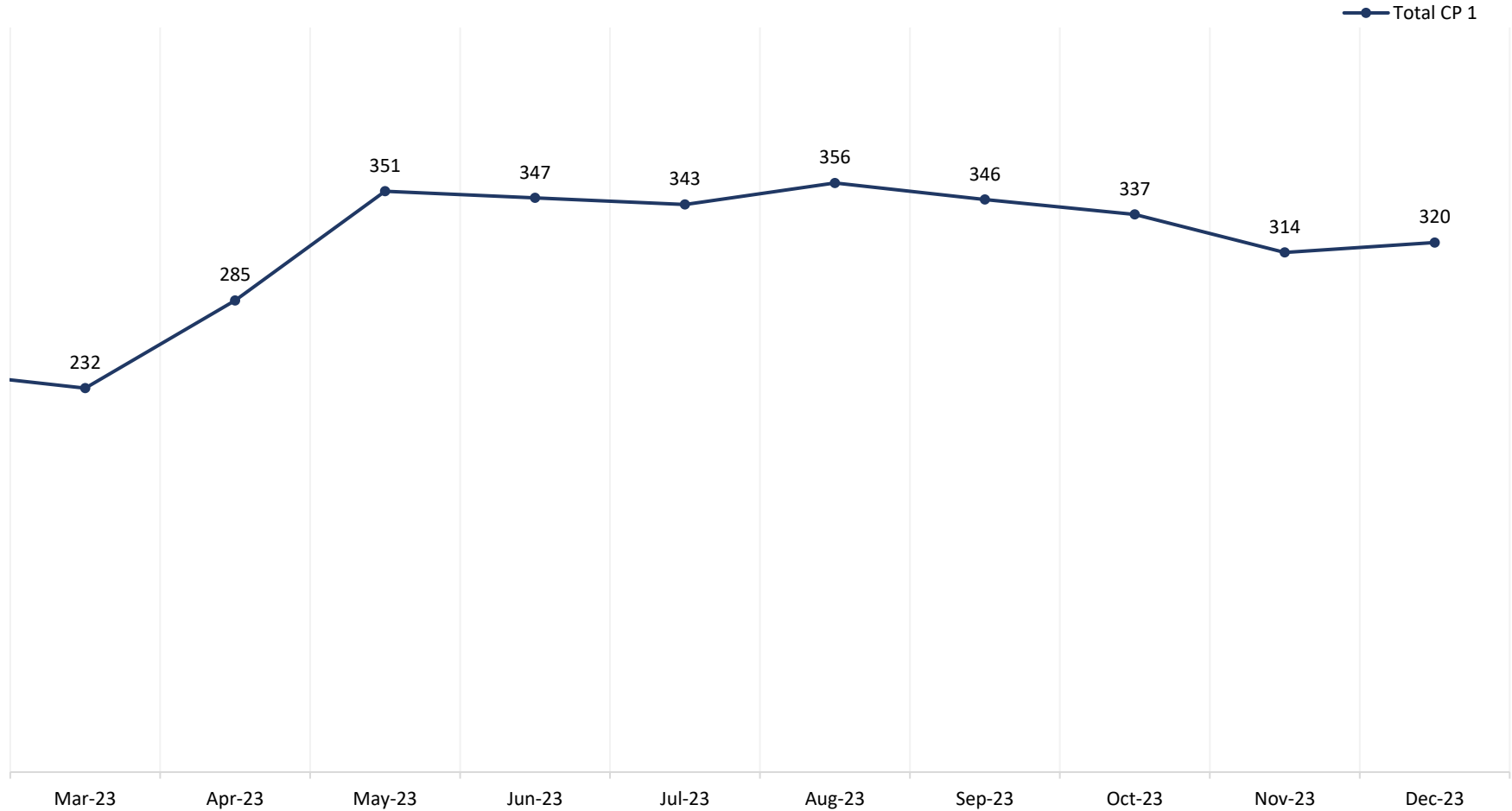
**Notes:**

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)

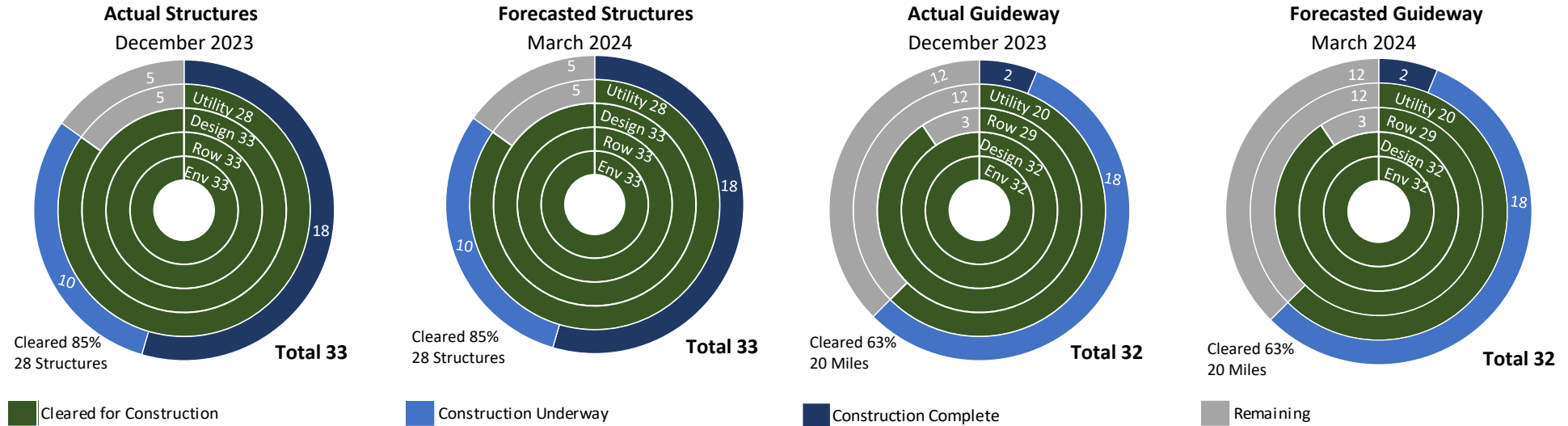


**Notes:**

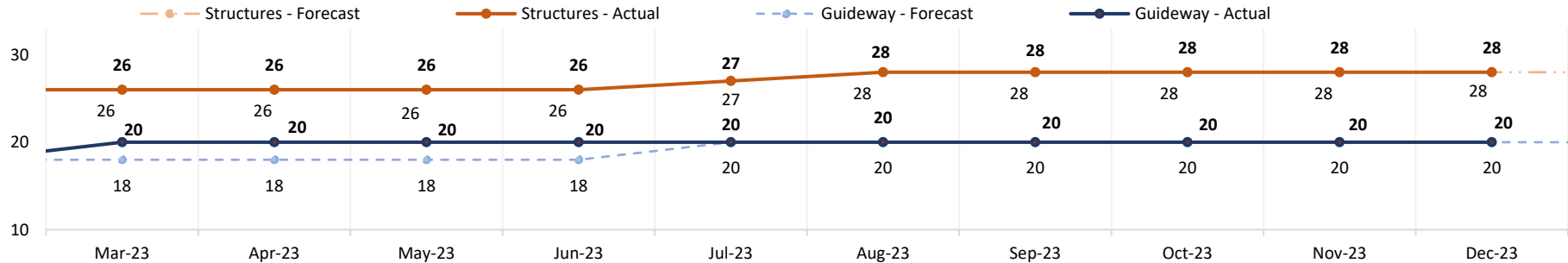
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of 6 workers from the previous month (314).

# 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	173	18%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	209	21%
Total Utilities Relocated	610	61%
<b>Total</b>	<b>992</b>	<b>100%</b>

### CP 1 – Summary by Utility Type

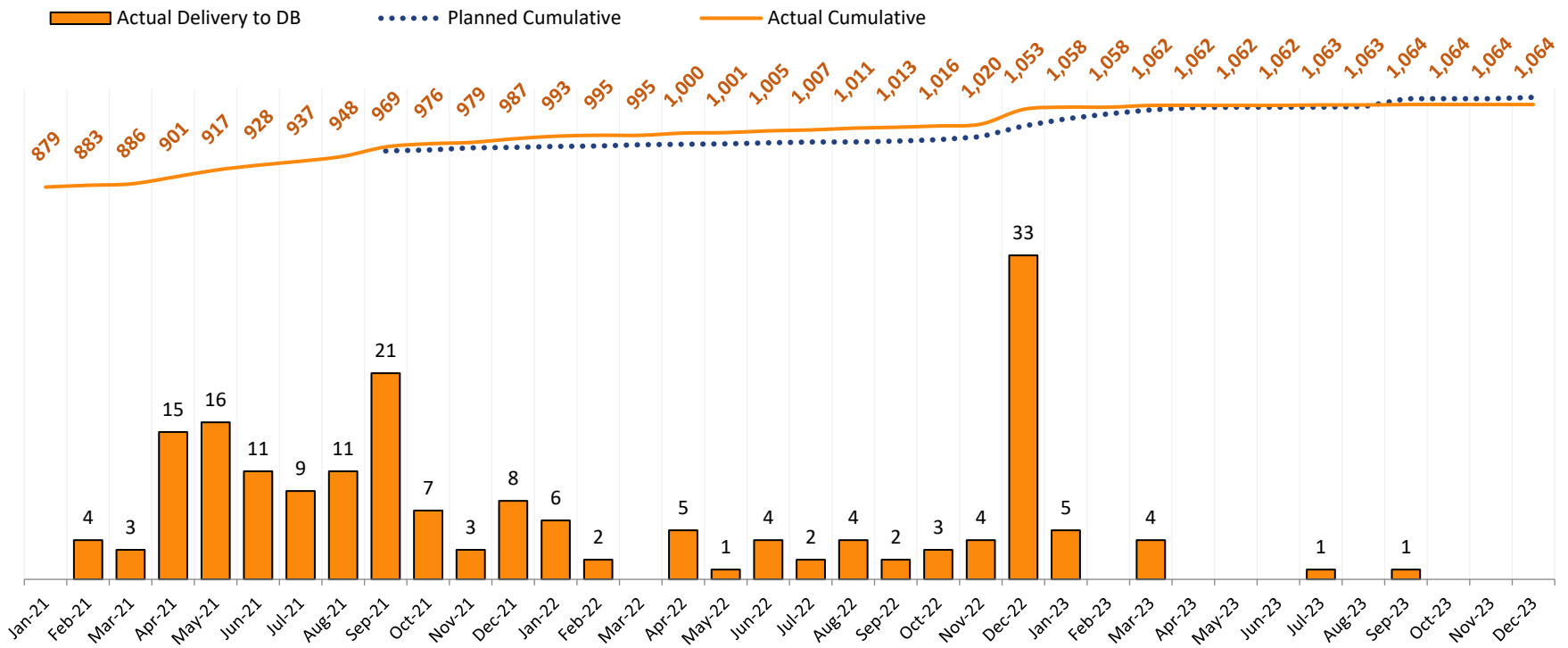
Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	76	36%
	APPROVED TO START	0	0%
	IN PROGRESS	21	9%
	RELOCATED	118	55%
	<b>TOTAL</b>	<b>215</b>	<b>100%</b>
Gas	NOT STARTED	17	19%
	APPROVED TO START	0	0%
	IN PROGRESS	28	31%
	RELOCATED	46	50%
	<b>TOTAL</b>	<b>91</b>	<b>100%</b>
Telecom	NOT STARTED	32	8%
	APPROVED TO START	0	0%
	IN PROGRESS	54	13%
	RELOCATED	329	79%
	<b>TOTAL</b>	<b>415</b>	<b>100%</b>
Wet	NOT STARTED	48	18%
	APPROVED TO START	0	0%
	IN PROGRESS	106	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 December 31, 2023	Total Parcels Delivered to Date December 31, 2023	Remaining Parcels to be Delivered December 31, 2023
CP 1	1,083	1,064	19

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



**Notes:**

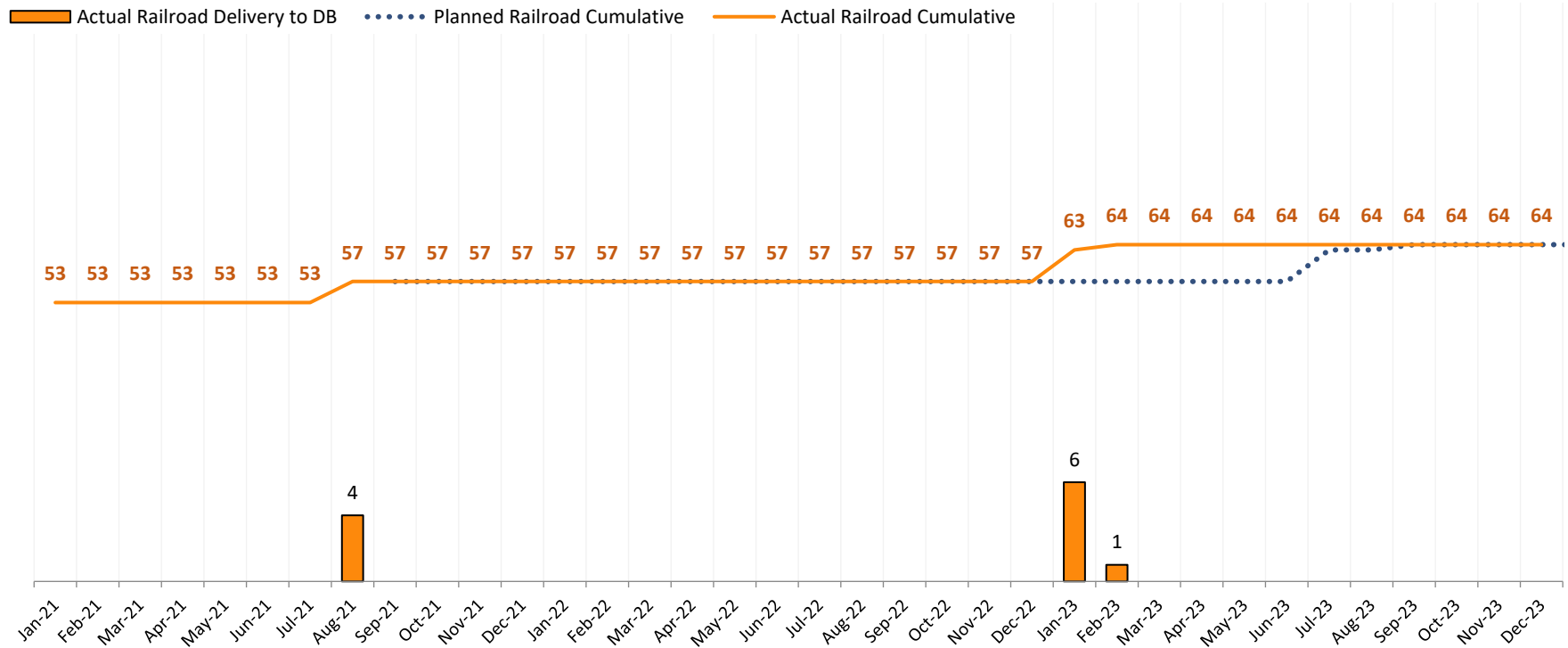
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.

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

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

Construction Package	Total Needed Railroad Parcels December 31, 2023	Total Railroad Parcels Delivered to Date December 31, 2023	Remaining Railroad Parcels to be Delivered December 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> :	May 2026
<b>Current Forecast Construction Completion Date<sup>(2)</sup>:</b>	<b>March 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:	\$1,990,713,235.59
Current Contract Amount:	\$3,356,049,125.59
Approved Invoices to Date:	\$2,425,357,142.45
<b>Remaining Contract Balance:</b>	<b>\$930,691,983.14</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 12/31/2023):	3,081

#### Expended to Date Percentage

Description	Percentage
Time <sup>(3)</sup> :	79.2%
Dollars:	72.3%

#### Growth Percentage

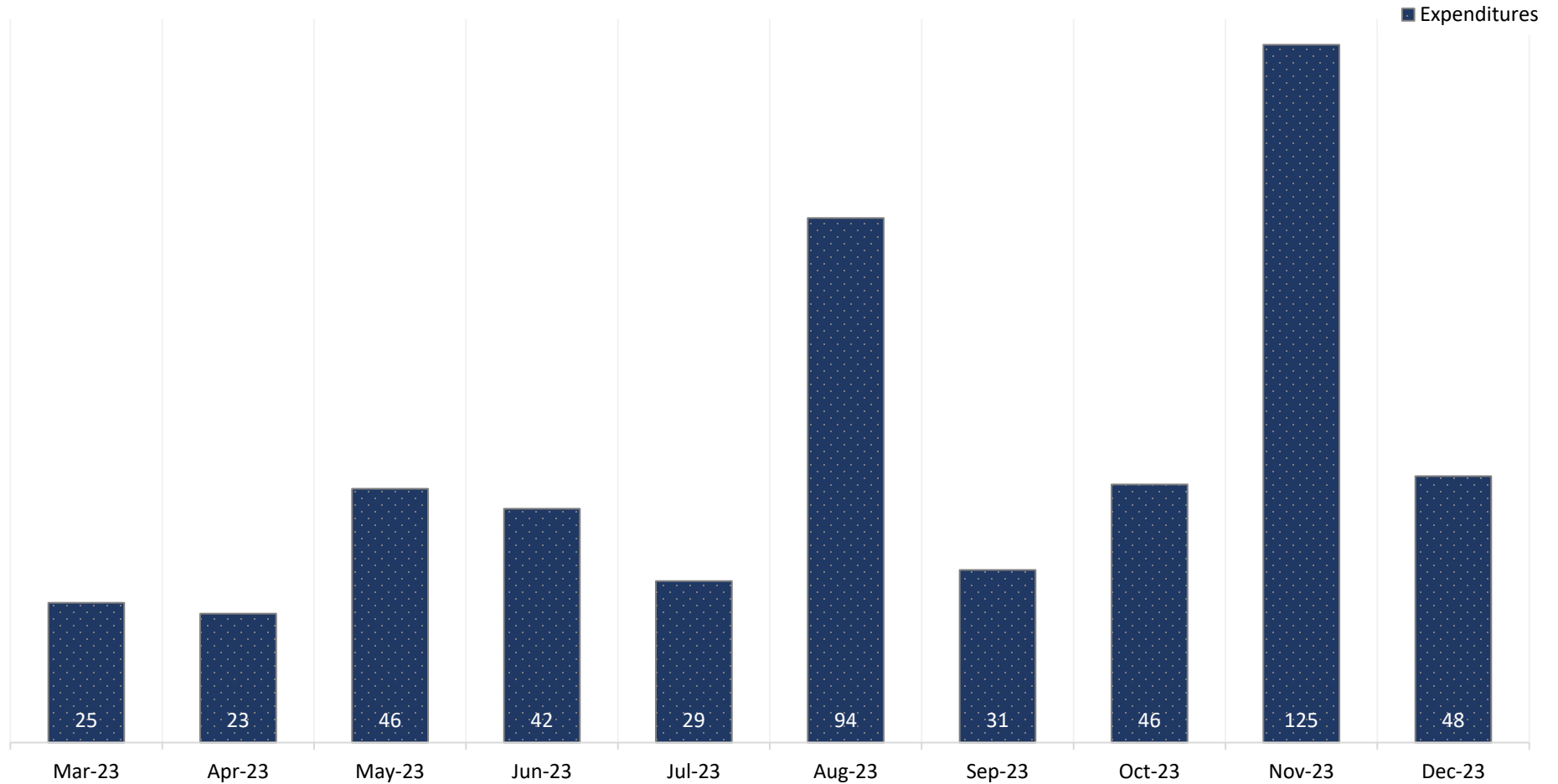
Description	Percentage
Time <sup>(3)</sup> :	161.9%
Dollars:	145.8%

#### 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 \$47.9M.

## CP 2-3 – Change Orders (CO)

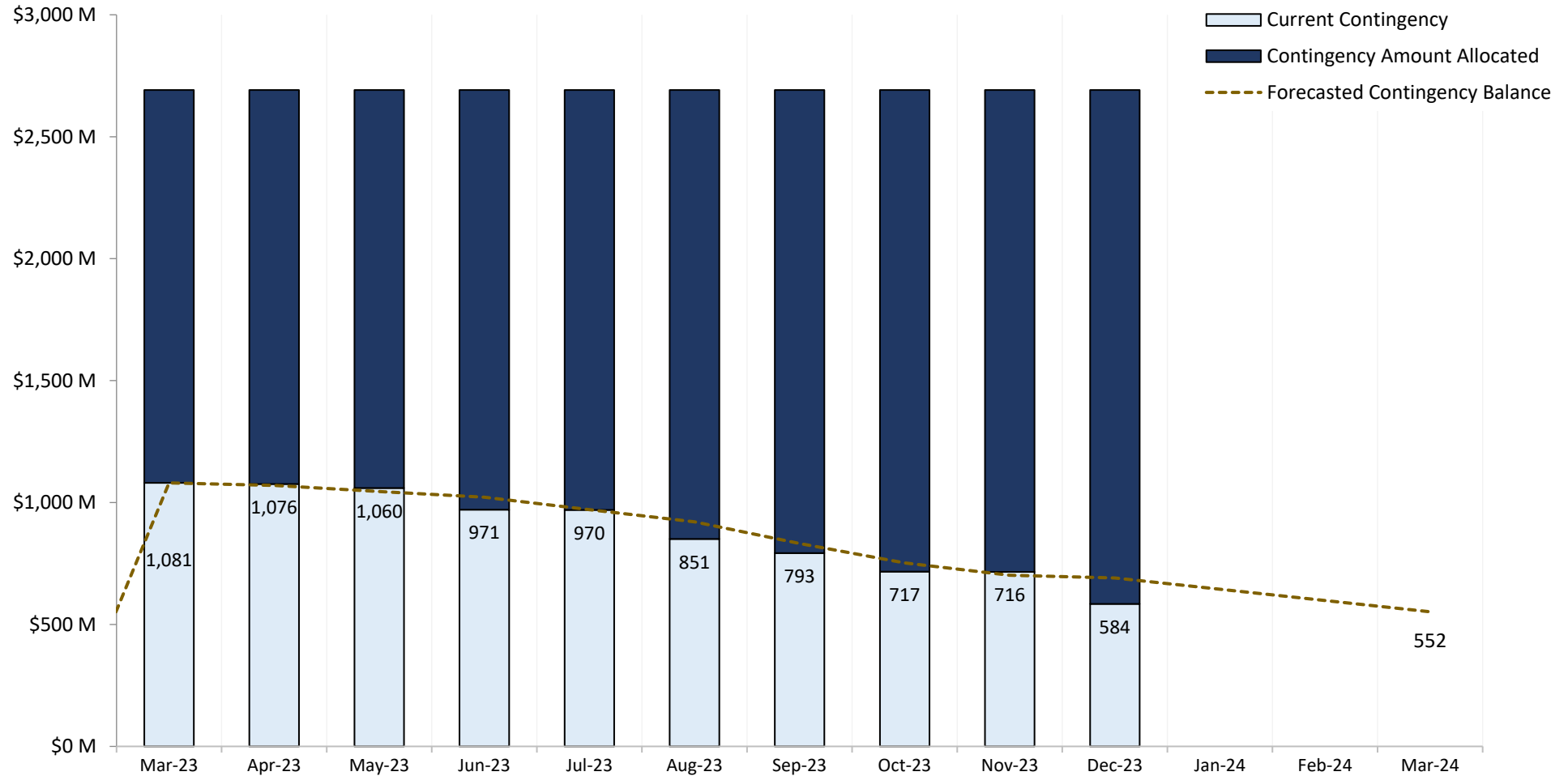
### CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
384.2	FID Temporary Bypass Systems – Design Only – T&M	Executed	\$60,000.00	12-22-23
155.3	Collaborative Efforts Towards Completion – Additional Insurance Costs for DFJV	Executed	\$33,952,299.00	12-21-23
168.11	Environmental Monitoring/Compliance Scope of Work: Provisional Sum	Executed	\$12,188,205.00	12-21-23
155.2	Collaborative Efforts Towards Completion – Additional Bond Costs for DFJV	Executed	\$26,722,398.00	12-21-23
400.1	Conejo Avenue Viaduct	Executed	\$35,000,000.00	12-21-23
394	Collaborative Efforts Towards Completion – Idle Equipment– Interim Change Order	Executed	\$15,000,000.00	12-21-23
370	Alpaugh Irrigation District Reservoir No. 2 Drainage Construction	Executed	\$8,278,556.00	12-18-23
390	Resolution of Ten Design Disputes and Claims	Executed	\$362,195.00	12-14-23
370.1	AID Reservoir No. 2 – Design – T&M	Executed	\$80,000.00	12-4-23
377TA	8 Vie Del Private Utility Steel Casings – Procurement of Materials – T&M	Executed	(\$845,600.00)	12-4-23
388.1	Lateral No. 3 and Crawford Lateral No. 5 – Design Only	Executed	\$183,970.00	12-1-23
<b>TOTAL</b>			<b>\$130,982,023.00</b>	



## CP 2-3 – Risk Contingency

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

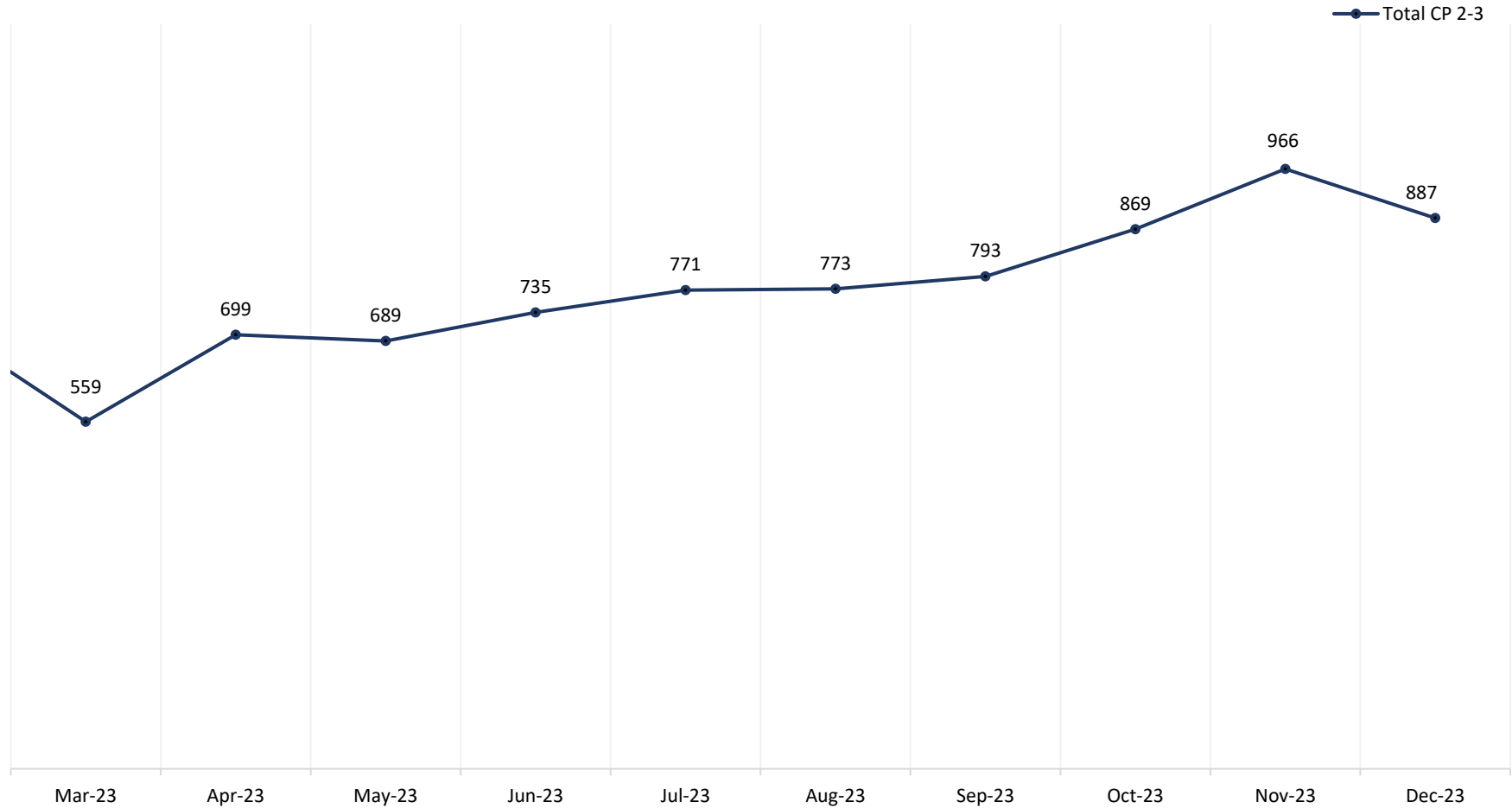


**Notes:**

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)

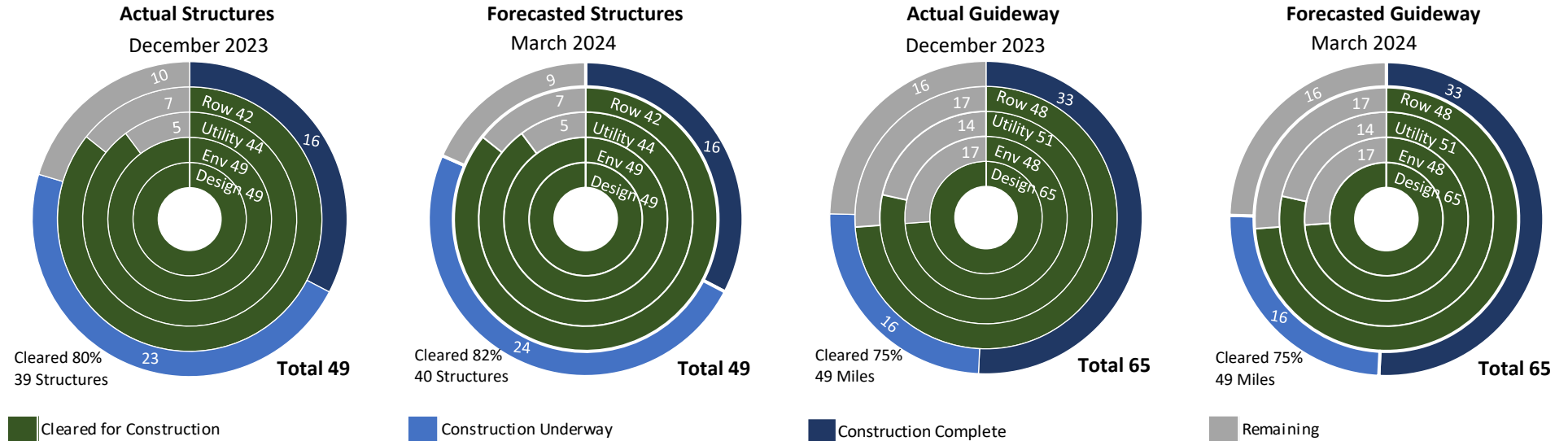


**Notes:**

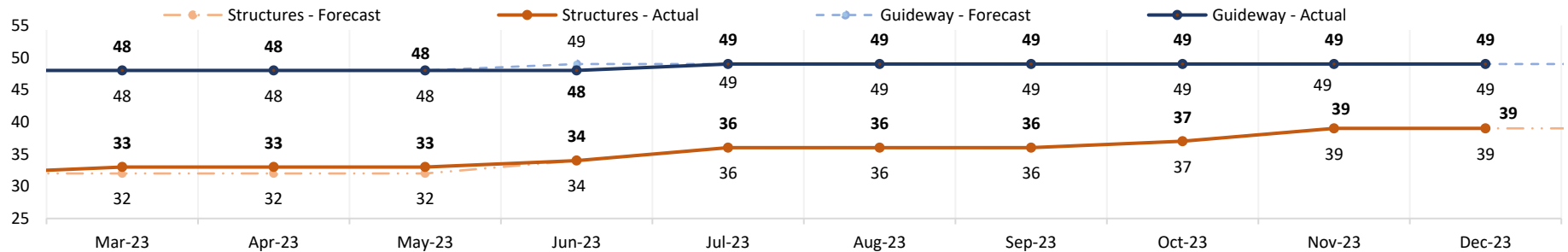
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. A decrease of 79 workers from the previous month (966).

## 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:
  - 39 structures underway/construction complete.
- 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	129	18%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	75	11%
Total Utilities Relocated	497	71%
<b>Total</b>	<b>701</b>	<b>100%</b>

### CP 2-3 – Summary by Utility Type

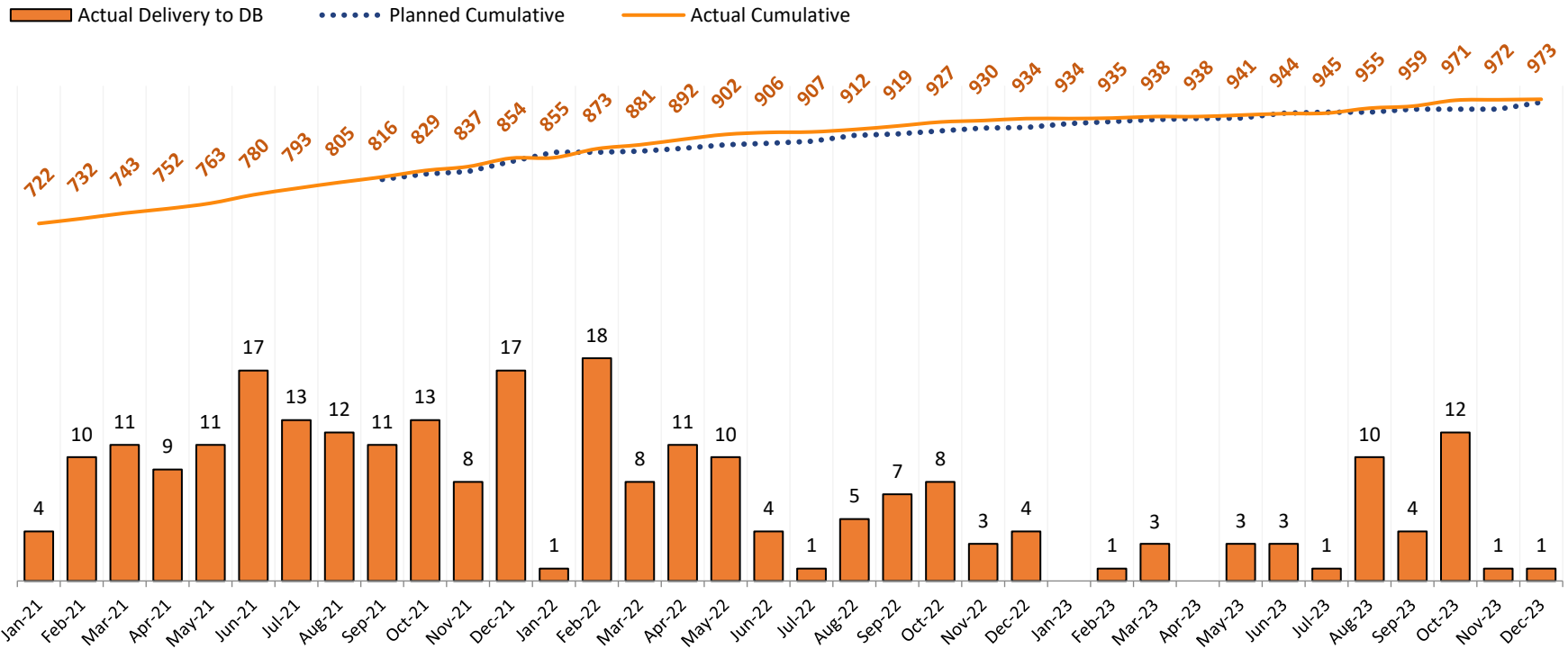
Utility	Status	Utility Relocations	Percentage
<b>Electric</b>	NOT STARTED	101	26%
	APPROVED TO START	0	0%
	IN PROGRESS	31	8%
	RELOCATED	252	66%
	<b>TOTAL</b>	<b>384</b>	<b>100%</b>
<b>Gas</b>	NOT STARTED	10	37%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	17	63%
	<b>TOTAL</b>	<b>27</b>	<b>100%</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	15	26%
	APPROVED TO START	0	0%
	IN PROGRESS	17	30%
	RELOCATED	25	44%
	<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 December 31, 2023	Total Parcels Delivered to Date December 31, 2023	Remaining Parcels to be Delivered December 31, 2023
CP 2-3	988	973	15

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



**Notes:**

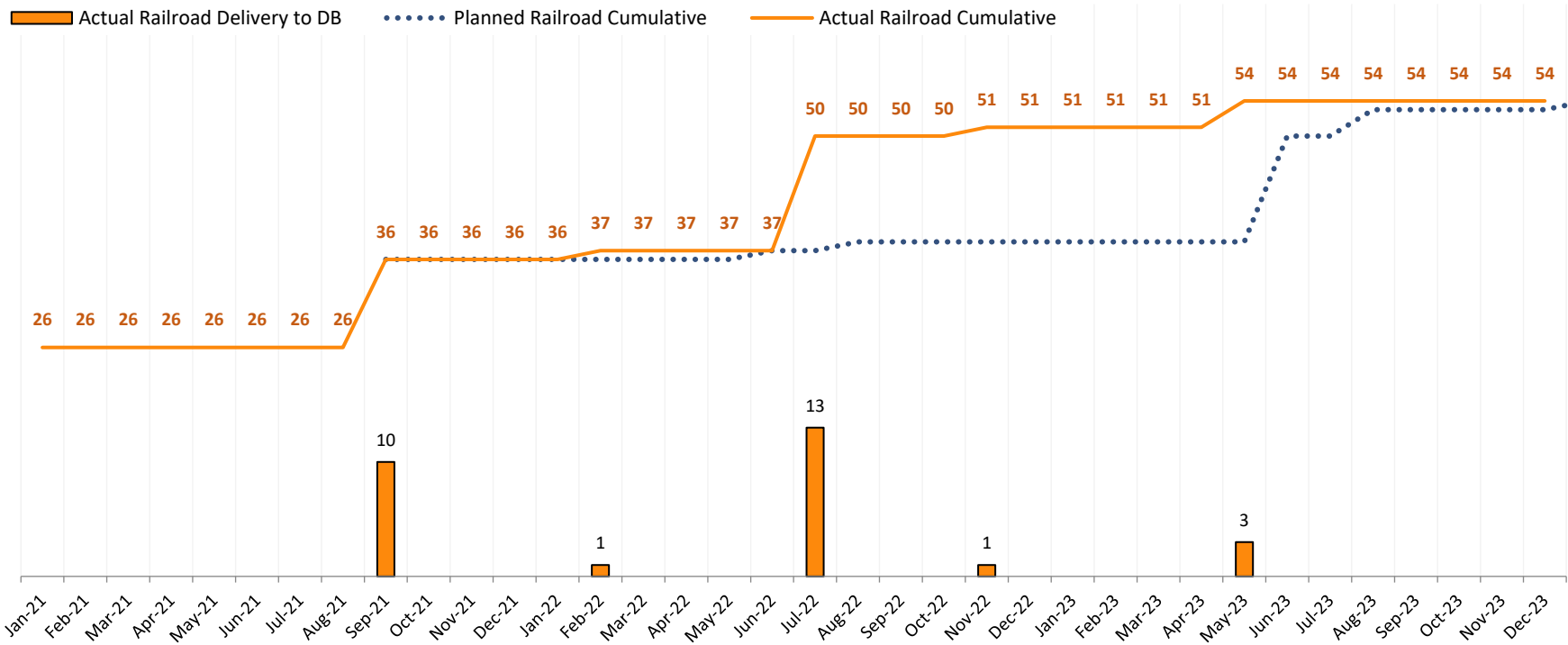
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.

## 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 December 31, 2023	Total Railroad Parcels Delivered to Date December 31, 2023	Remaining Railroad Parcels to be Delivered December 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> :	March 2024
<b>Current Forecast Construction Completion Date<sup>(2)</sup>:</b>	<b>Jan 2024</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:	\$340,854,393.35
Current Contract Amount:	\$785,101,393.35
Approved Invoices to Date:	\$768,122,997.28
<b>Remaining Contract Balance:</b>	<b>\$16,978,396.07</b>

### Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded <sup>(3)</sup> :	1,680
Current Forecast Contract Days <sup>(3)</sup> :	2,824
Calendar Days Worked (thru 12/31/2023):	2,816

### Expended to Date

Description	Percentage
Time <sup>(3)</sup> :	99.7%
Dollars:	97.8%

### Growth Percentage

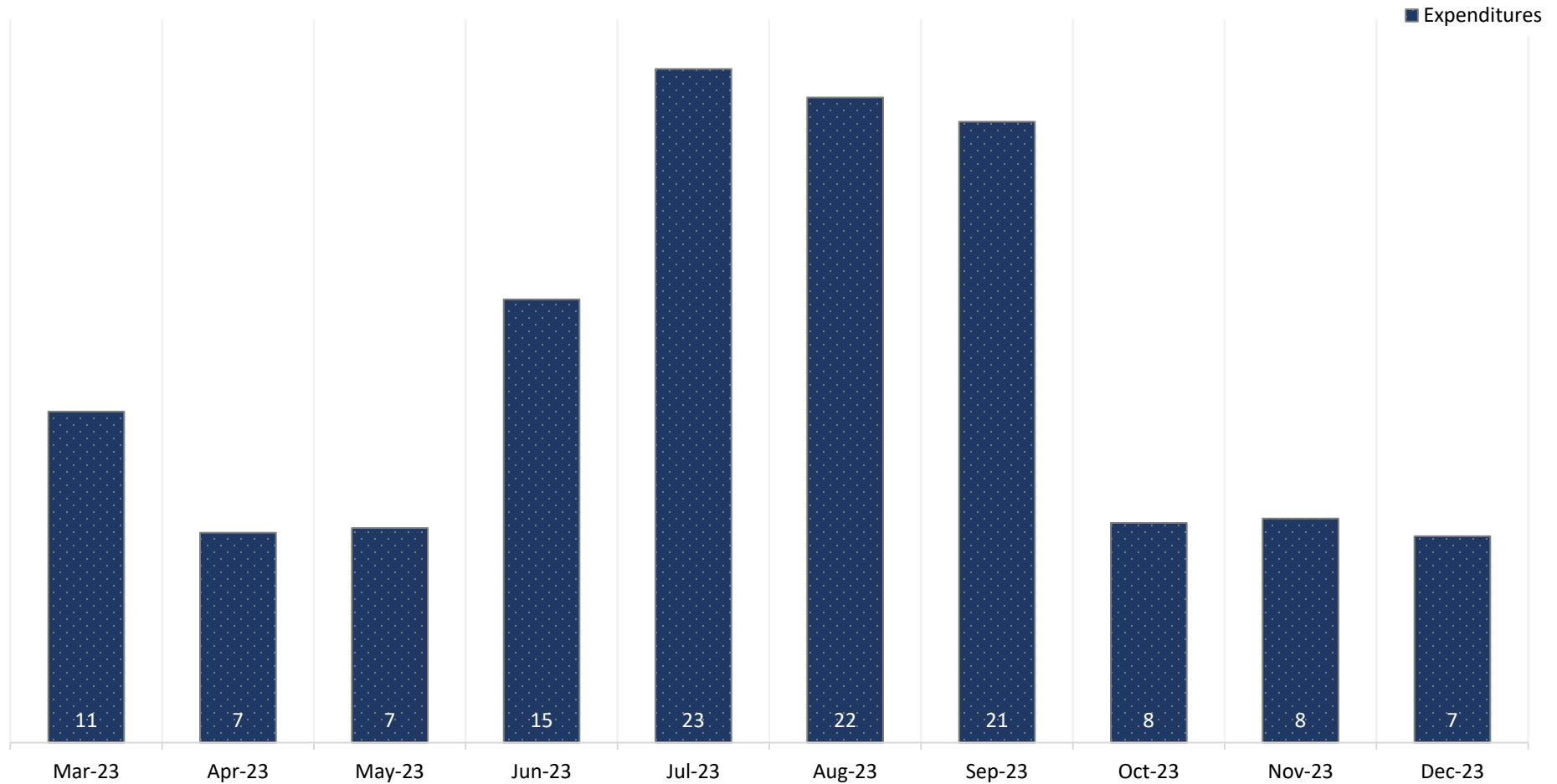
Description	Percentage
Time <sup>(3)</sup> :	146.9%
Dollars:	76.7%

### 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 – 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 \$7.1M.



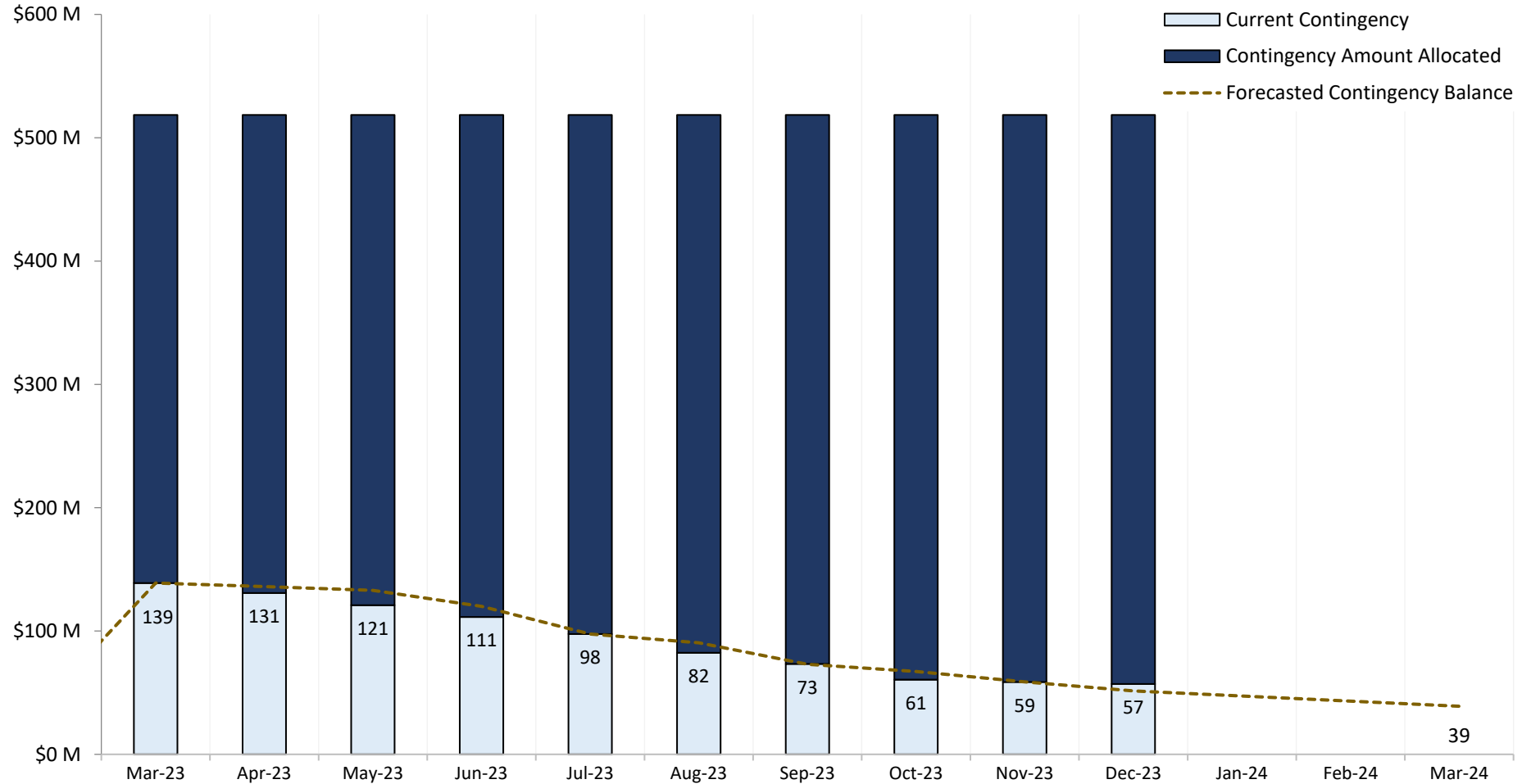
## CP 4 – Change Orders (CO)

### CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
217	Environmental Monitoring Additional Costs from May 2032 to June 2023	Executed	\$456,929.00	12-4-23
32.7	Adjustment to Completion Deadlines and Contract Price due to Delays (TIA17)	Executed	\$1,226,078.07	12-22-23
<b>TOTAL</b>			<b>\$1,683,007.07</b>	

## CP 4 – Risk Contingency

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

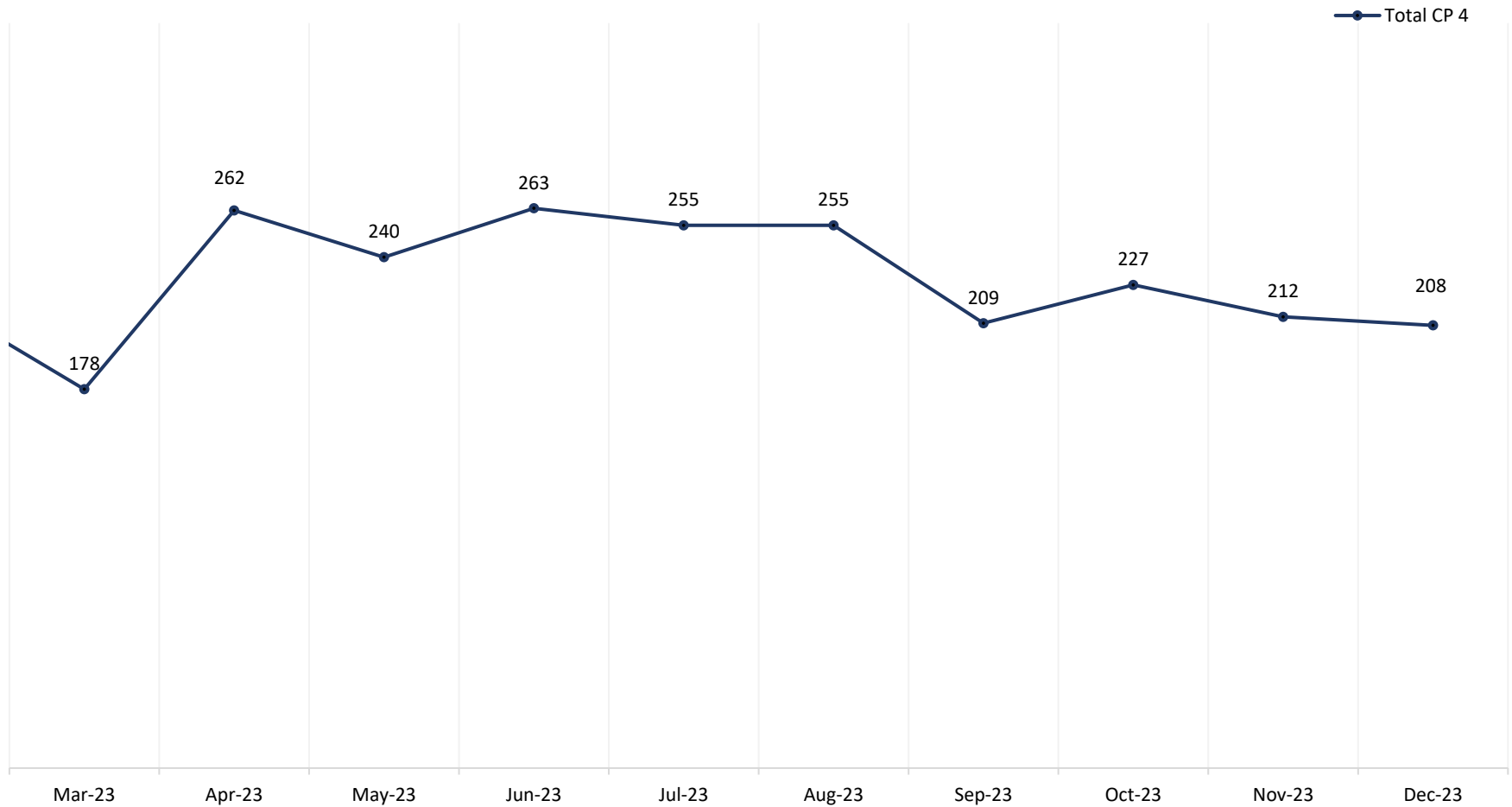


**Notes:**

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

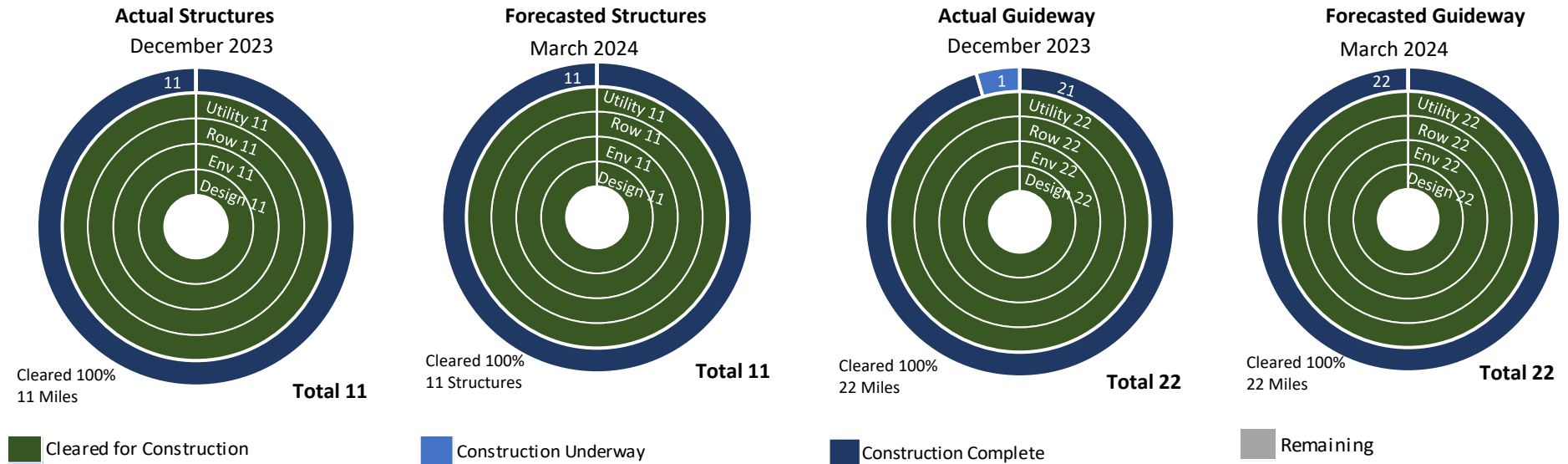
### CP 4 – Monthly Construction Workforce Total – Actual (FTE)



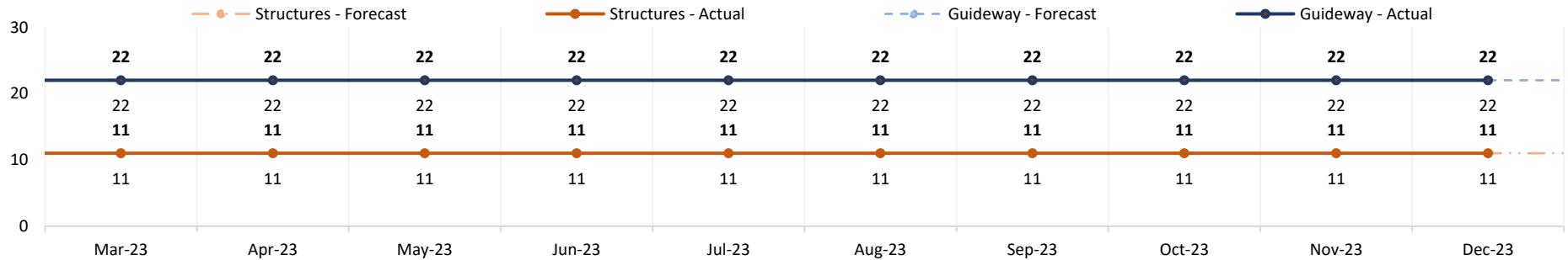
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
  2. A decrease of 4 from the previous month (212).

# CP 4 – Construction Progress

## CP 4 – Construction Progress



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



**Notes:**

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

## 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	18	13%
Total Utilities Relocated	125	87%
<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	0	0%
	RELOCATED	62	100%
	<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	18	43%
	RELOCATED	24	57%
	<b>TOTAL</b>	<b>42</b>	<b>100%</b>

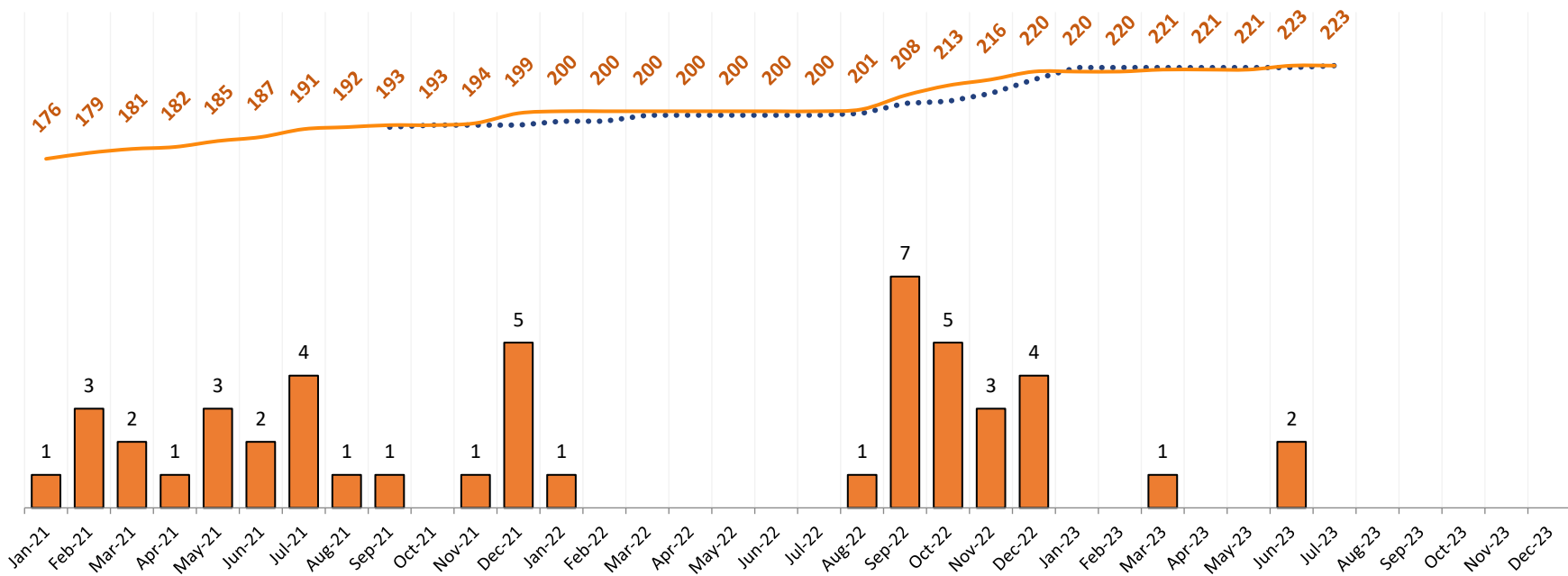
# CP 4 – Real Property/Right-of-Way (ROW)

## CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels December 31, 2023	Total Parcels Delivered to Date December 31, 2023	Remaining Parcels to be Delivered December 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:**

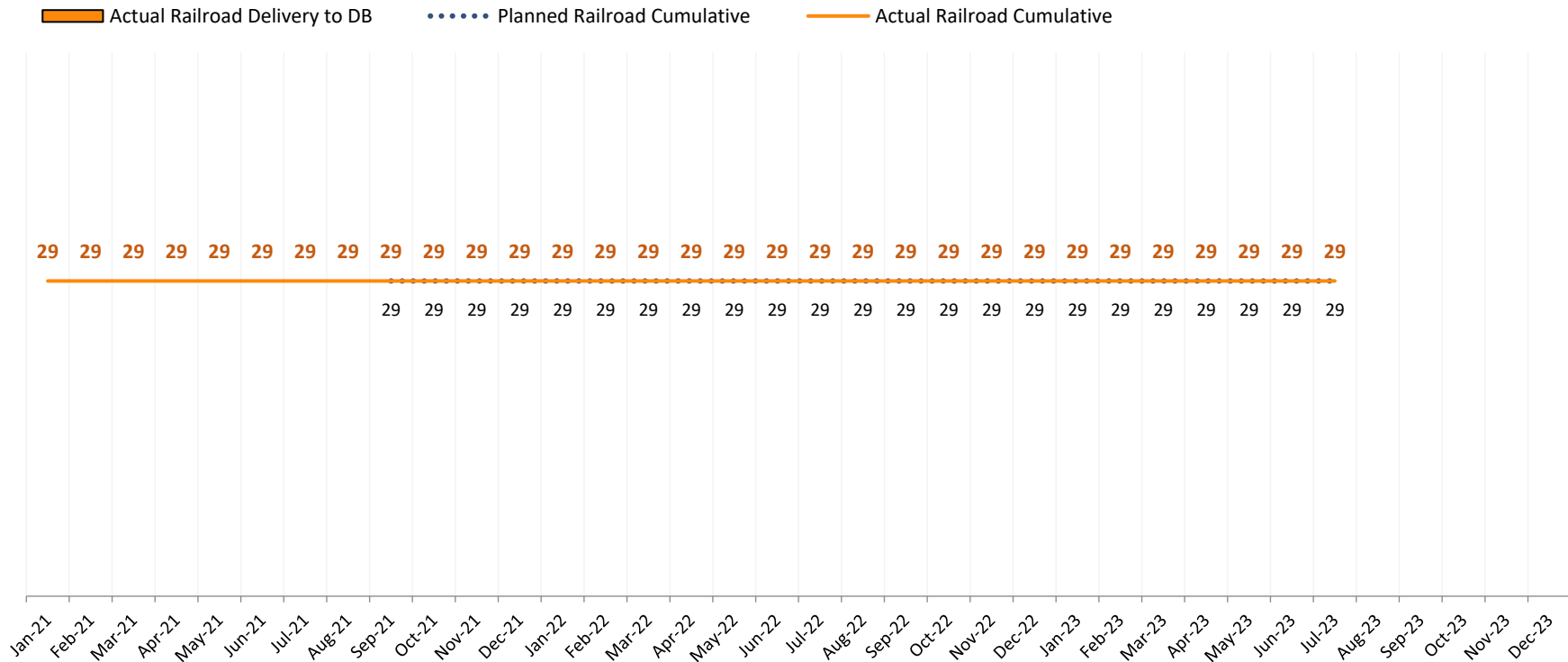
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

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

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

Construction Package	Total Needed Railroad Parcels December 31, 2023	Total Railroad Parcels Delivered to Date December 31, 2023	Remaining Railroad Parcels to be Delivered December 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 Apr-24	Feb-24	Jun-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.



## 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>	The Administrative Final EIR/EIS has been submitted to the Cooperating Agencies for review. 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>	During the month of December 2023 the LA-A project team conducted in-person outreach information sessions and virtual open houses and briefings with the public and stakeholders on the Supplemental Alternative Analysis, highlighting the design features to be carried forward in the EIR/EIS, such as: the 26th Street Light Maintenance Facility (LMF) option, the 15th Street LMF option, the Anaheim Grade Crossing approach, the potential inclusion of the Fullerton or Norwalk/Santa Fe Spring intermediate station. Project Briefings and coordination meetings took place with the City of Anaheim, OCTA, the SCRRRA and Caltrans. The team also continued to advance documentation in support of the Staff Recommended Preferred Alternative towards a completion date during Q1 2024 and presentation to the HSR Board for approval in April 2024.

### 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. 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 it was accepted by the Authority on December 28, 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; and completed in November 2023. The Authority is evaluating the recommendations that came through the Value Engineering (VE) and Value Analysis (VA) process. Final direction will be provided to the consultant in February 2024; which will be incorporated into the design.

**Fresno to Bakersfield  
Locally Generated  
Alternative (LGA)**

HNTB Corporation (HNTB), under agreement HSR 22-01, continues to make progress on the 30% design goals for this Project. The LGA team has met with the FRA for the first monthly update meeting related to the CRISI Grant award for 6 BNSF grade separations through the City of Shafter. The ROW priority acquisition plan remains 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. Multiple Business Cases have been uploaded to the e-BOC for the January BOC meeting. 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. The LGA and HNTB teams have been holding various over the shoulder design reviews with the HSR Engineering Team to assist with design progression.