



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

September 2023 Report (data through July 2023)

Executive Summary

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

- July 2023 Expenditures totaled \$87.7M:
 - Construction Package 1 (Page 13) - Expenditures totaled \$35.4M.
 - Construction Package 2-3 (Page 22) - Expenditures totaled \$29.0M.
 - Construction Package 4 (Page 32) - Expenditures totaled \$23.3M.
- Total CP Cumulative Actual Expenditures (Pages 12, 21, and 30) – \$4,934.8M.
- Total Cumulative Current Contract Amount (Pages 12, 21, and 30) – \$7,136.4M.

Change Orders

- Executed Change Orders this period – 17 for a total of \$123.9M:
 - Construction Package 1 (Page 14) – Seven for a total of \$109.2M.
 - Construction Package 2-3 (Page 23) – Two for a total of \$0.9M.
 - Construction Package 4 (Page 33) – Eight for a total of \$13.8M.

Risk Contingency ([Page 5](#))

- Approved Contingency – \$6,001.6M budgeted contract contingency. Contingency balance is \$1,834.5M as of data date.
 - Construction Package 1 (Page 15) – \$2,791.6M budgeted contract contingency. Contingency balance is \$767.0M as of data date.
 - Construction Package 2-3 (Page 24) – \$2,691.5M budgeted contract contingency. Contingency balance is \$969.9M as of data date.
 - Construction Package 4 (Page 34) – \$518.5M budgeted contract contingency. Contingency balance is \$97.6M as of data date.

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

- July 2023, Average Daily Site Workers (by Week) – 1,369 workers. An increase of 24 workers from the previous period (1,345):
 - Construction Package 1 (Page 16) – 343 workers. A decrease of four workers from the previous month (347).
 - Construction Package 2-3 (Page 25) – 771 workers. An increase of 36 workers from the previous month (735).
 - Construction Package 4 (Page 35) – 255 workers. A decrease of eight workers from the previous month (263).
- 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 – 74 underway/construction complete (31 underway, 43 completed) compared to 93 structures total (80%). An increase of three from the previous period.
 - Construction Package 1 – 27 structures underway/construction complete (10 underway, 17 completed). An increase of one in July 2023.
 - Construction Package 2-3 – 36 structures underway/construction complete (21 underway, 15 completed). An increase of two in July 2023.
 - Construction Package 4 – 11 of 11 structures completed.
- Guideway – 91 miles underway/construction complete (40 underway, 51 completed) compared to 119 miles total (76%). An increase of one 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). An increase of one in July 2023.
 - Construction Package 4 – 22 miles underway/construction complete (6 underway, 16 completed).

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

- Relocated: 1,091 (59%); In Progress: 396 (22%); Approved to Start: 3 (0%); Not Started: 346 (19%); Total: 1,836. A total of 21 relocated in July 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: 488 (49%); In Progress: 304 (31%); Approved to Start: 0 (0%); Not Started: 200 (20%); Total: 992.
 - Construction Package 2-3 – Relocated: 485 (69%); In Progress: 70 (10%); Approved to Start: 0 (0%); Not Started: 146 (21%); Total: 701.
 - Construction Package 4 – Relocated: 118 (83%); In Progress: 22 (15%); Approved to Start: 3 (2%); Not Started: 0 (0%); Total: 143.

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

- Total Parcels Delivered to Date – 2,232 parcels compared to an estimated 2,293 parcels needed.
- Parcels Delivered to Design-Builder (DB) – Two parcels in July 2023.
- Construction Packages 1-4 – One parcel added for CP 2-3, zero parcels added for CP 1 and CP4, and zero parcels removed for CP 1-4. 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 July 2023.

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

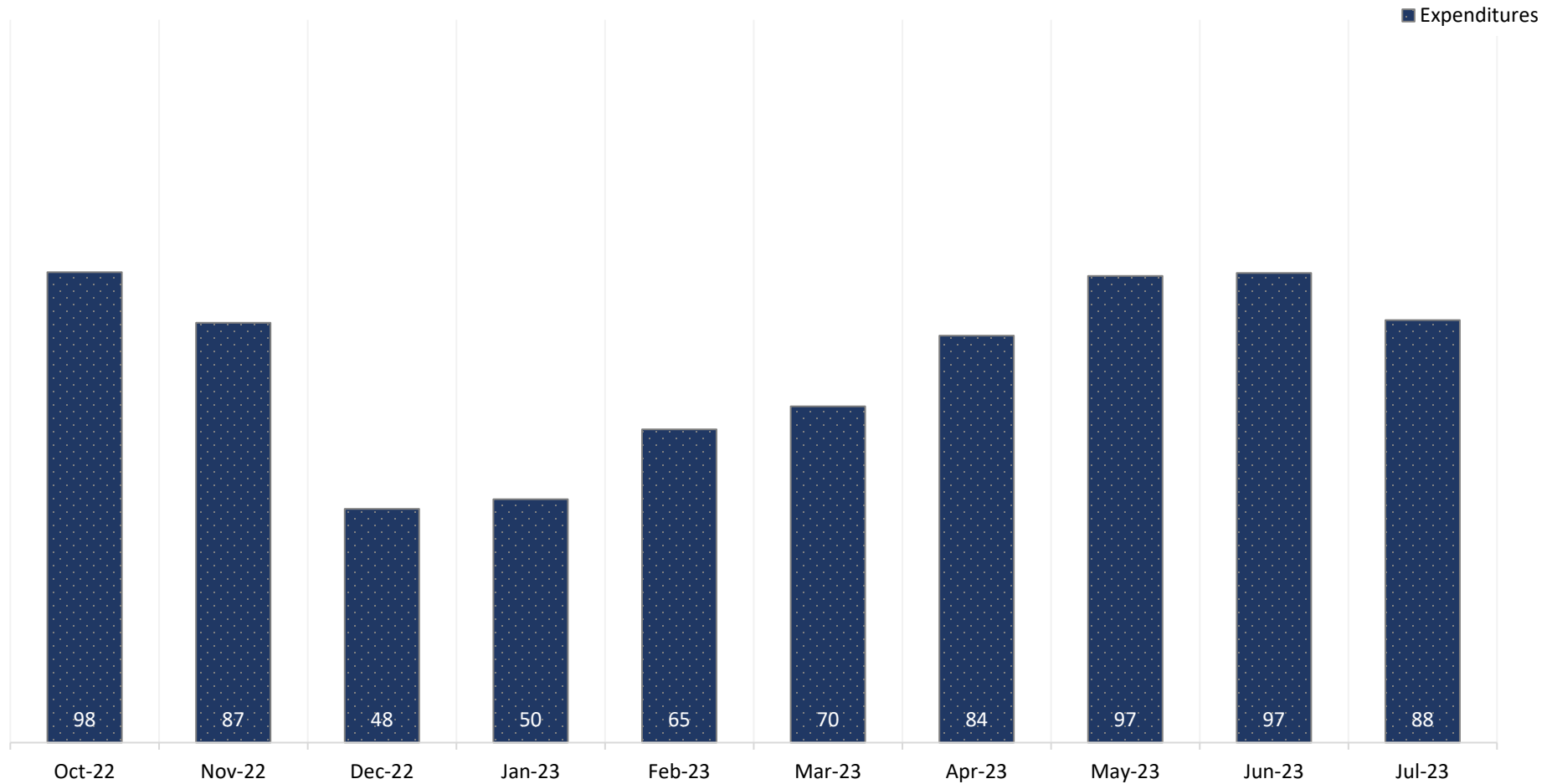
- San Francisco to San Jose – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- San Jose to Merced – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- Bakersfield to Palmdale – Work through NOD/ROD has been completed. Continued meeting with key stakeholders, including the Center for Biological Diversity.
- Palmdale to Burbank – 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 scheduled for Spring 2024. NOD/ROD anticipated in late 2025.

Project Development (Post-Record of Decision) Schedule ([Page 41](#))

- Merced Extension (Merced to Madera) – Stantec Inc., under Agreement HSR22-02, continues to make progress on the early actions of this Project. On June 30th, 2023, the Task Order #3 was issued to Stantec which is the roadmap for all deliverables in FY23-24. The Program Management Plan and the Annual Work Plan for FY23-24 was also approved on June 30th, 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)

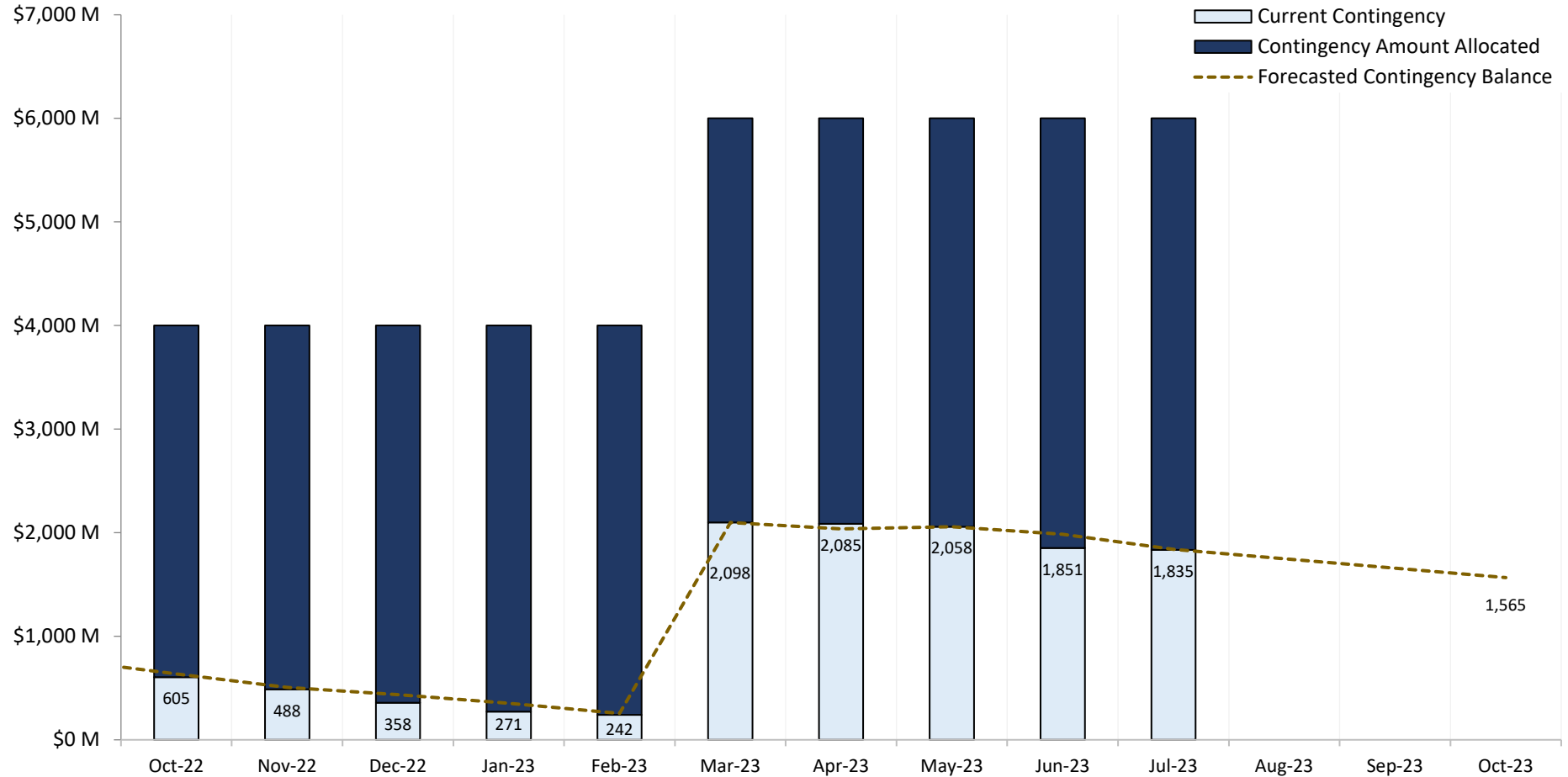


Notes:

1. July 2023 Expenditures totaled \$87.7M:
 - a. Construction Package 1 – Expenditures totaled \$35.4M.
 - b. Construction Package 2-3 – Expenditures totaled \$29.0M.
 - c. Construction Package 4 – Expenditures totaled \$23.3M.

CP 1-4 – Risk Contingency

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

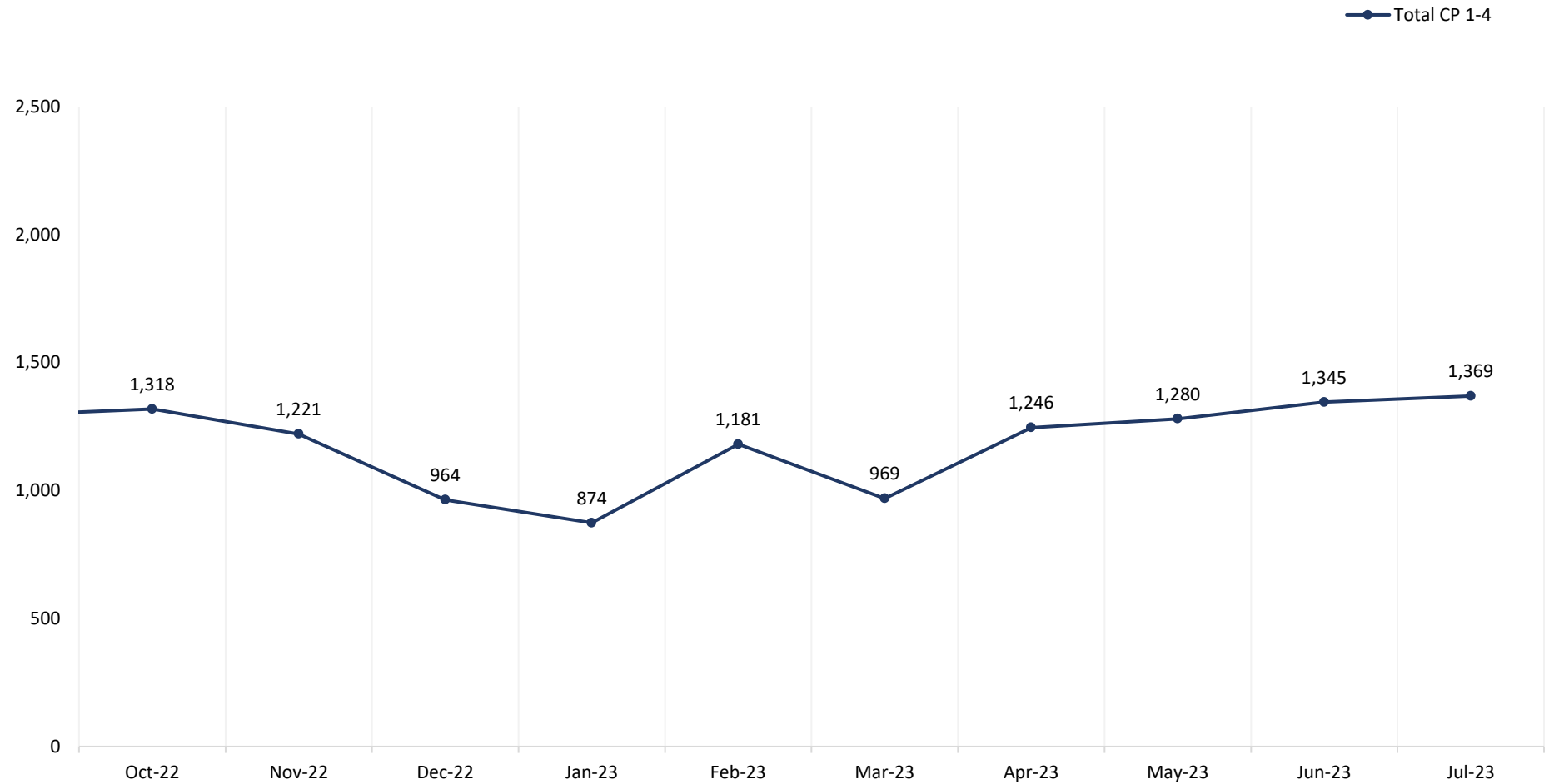


Notes:

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

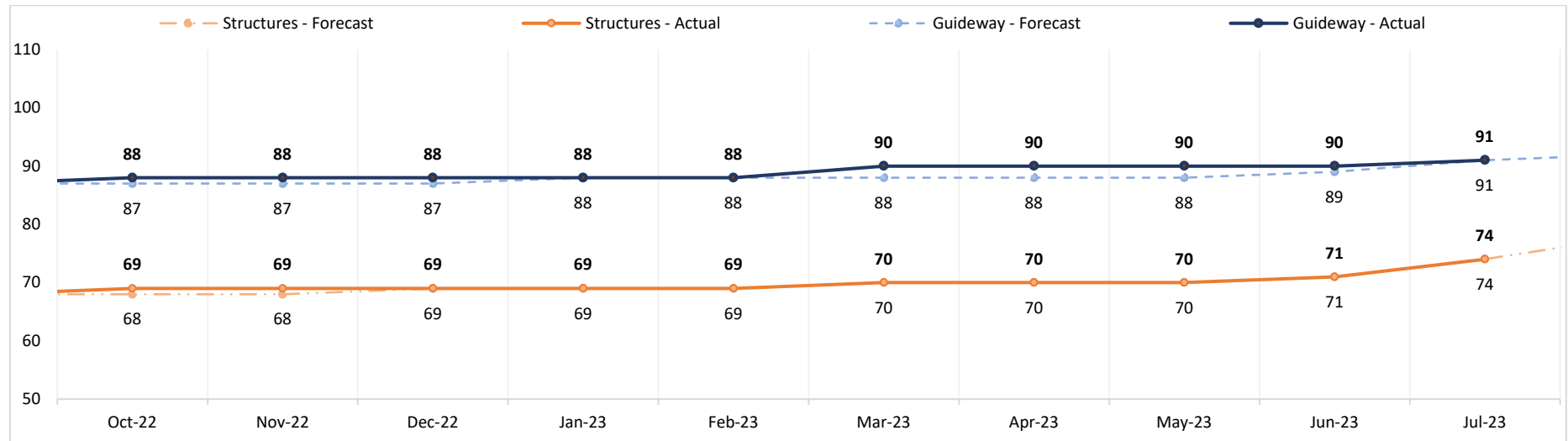
CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- 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. July 2023, Average Daily Site Workers (by week) – 1,369 workers. An increase of 24 workers from the previous period (1,345).
 - a. Construction Package 1 (Page 16) – 343 workers. A decrease of four workers from the previous month (347).
 - b. Construction Package 2-3 (Page 25) – 771 workers. An increase of 36 workers from the previous month (735).
 - c. Construction Package 4 (Page 35) – 255 workers. A decrease of eight workers from the previous month (263).

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	
Guideway	18	2	16	33	6	16	40	51	91
Structures	10	17	21	15	0	11	31	43	74

Notes:

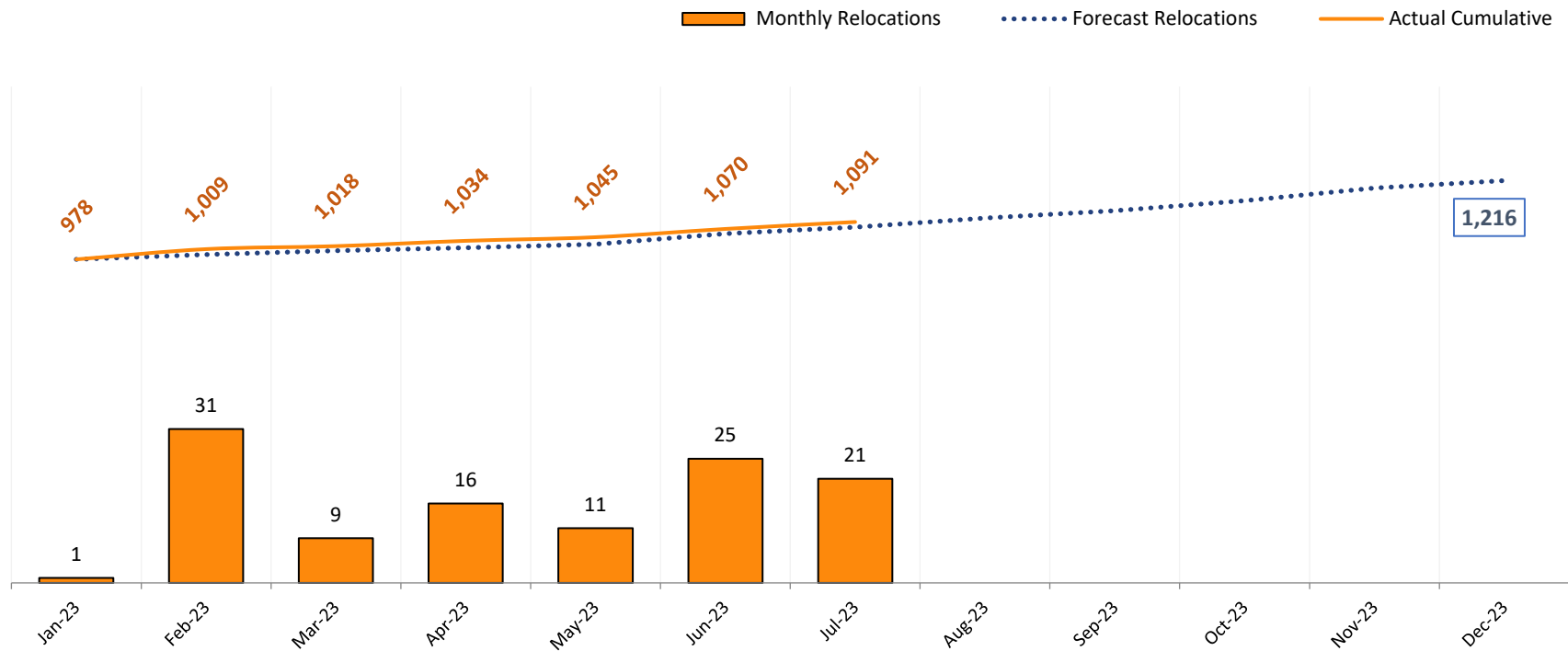
1. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
2. Total Structures: 93
3. Structures – 74 underway/construction complete compared to 93 structures total (80%). An increase of three from the previous period.
 - a. CP 1 – 27 structures underway/construction complete. An increase of one in July 2023: Avenue 17.
 - b. CP 2-3 – 36 structures underway/construction complete. An increase of two in July 2023: Floral Avenue and Dutch John Cut Viaduct.
 - 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%). An increase of one from the previous period.
 - a. CP 1 – 20 miles underway/construction complete.
 - b. CP 2-3 – 49 miles underway/construction complete. An increase of one in July 2023: South of Dutch John Cut Viaduct, from Cairo Avenue to Kings River.
 - 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 July 31, 2023	Total Utilities Relocated to Date July 31, 2023	Remaining Utility Relocations July 31, 2023
CP 1	992	488	504
CP 2-3	701	485	216
CP 4	143	118	25
Total	1,836	1,091	745

CP 1-4 – Utility Relocation Status Summary-Monthly



Notes:

- Updated utility goal numbers for CP4.

CP 1-4 – Utility Relocation Summary

CP 1-4 – Summary by Utility Type

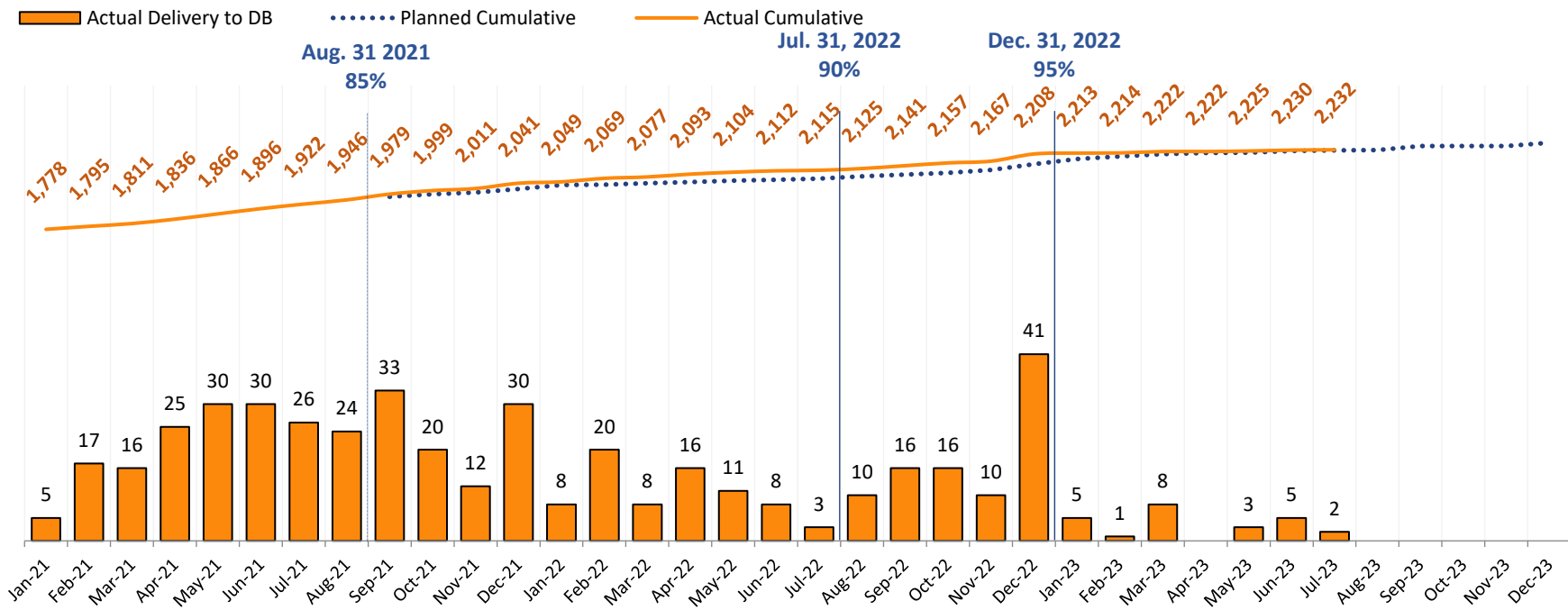
Utility	Status	CP-1	CP-2-3	CP-4	CP 1-4 Total	Percentage
Electric	NOT STARTED	93	102	0	195	29%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	14	35	3	52	8%
	RELOCATED	108	247	59	414	63%
	TOTAL	215	384	62	661	100%
Gas	NOT STARTED	17	10	0	27	21%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	30	2	0	32	26%
	RELOCATED	44	15	7	66	53%
	TOTAL	91	27	7	125	100%
Telecom	NOT STARTED	36	3	0	39	6%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	157	28	1	186	27%
	RELOCATED	222	202	31	455	67%
	TOTAL	415	233	32	680	100%
Wet	NOT STARTED	54	31	0	85	23%
	APPROVED TO START	0	0	3	3	1%
	IN PROGRESS	103	5	18	126	34%
	RELOCATED	114	21	21	156	42%
	TOTAL	271	57	42	370	100%

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

CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2023	Total Parcels Delivered to Date July 31, 2023	Remaining Parcels to be Delivered July 31, 2023
CP 1	1,083	1,063	20
CP 2-3	987	946	41
CP 4	223	223	0
Total	2,293	2,232	61

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



Notes:

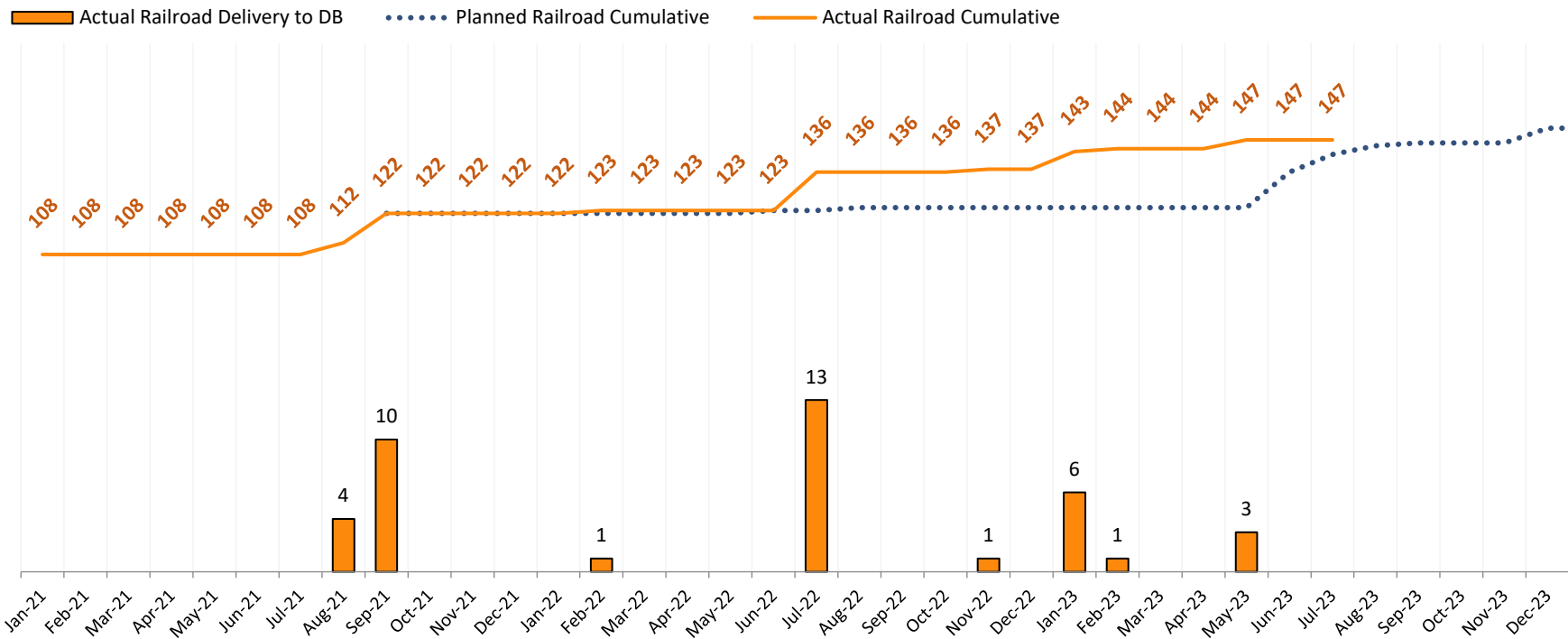
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4.
2. Delivery to Design Builder 90% milestone completion was achieved for CP 1-4 in March 2022 and 96% percent of parcels 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 July 31, 2023	Total Railroad Parcels Delivered to Date July 31, 2023	Remaining Railroad Parcels to be Delivered July 31, 2023
CP 1	84	64	20
CP 2-3	58	54	4
CP 4	29	29	0
Total	171	147	24

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⁽¹⁾

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 ⁽²⁾ :	03/05/2026
Current Forecast Construction Completion Date⁽²⁾:	12/31/2025

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:	\$2,340,324,552.47
Current Contract Amount:	\$3,363,312,552.47
Approved Invoices to Date:	\$2,152,445,838.00
Remaining Contract Balance:	\$1,210,866,714.47

Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded ⁽³⁾ :	2,832
Current Forecast Contract Days ⁽³⁾ :	4,460
Calendar Days Worked (thru 07/31/2023):	3,576

Expended to Date

Description	Percentage
Time ⁽³⁾ :	80.2%
Dollars:	64.0%

Growth Percentage

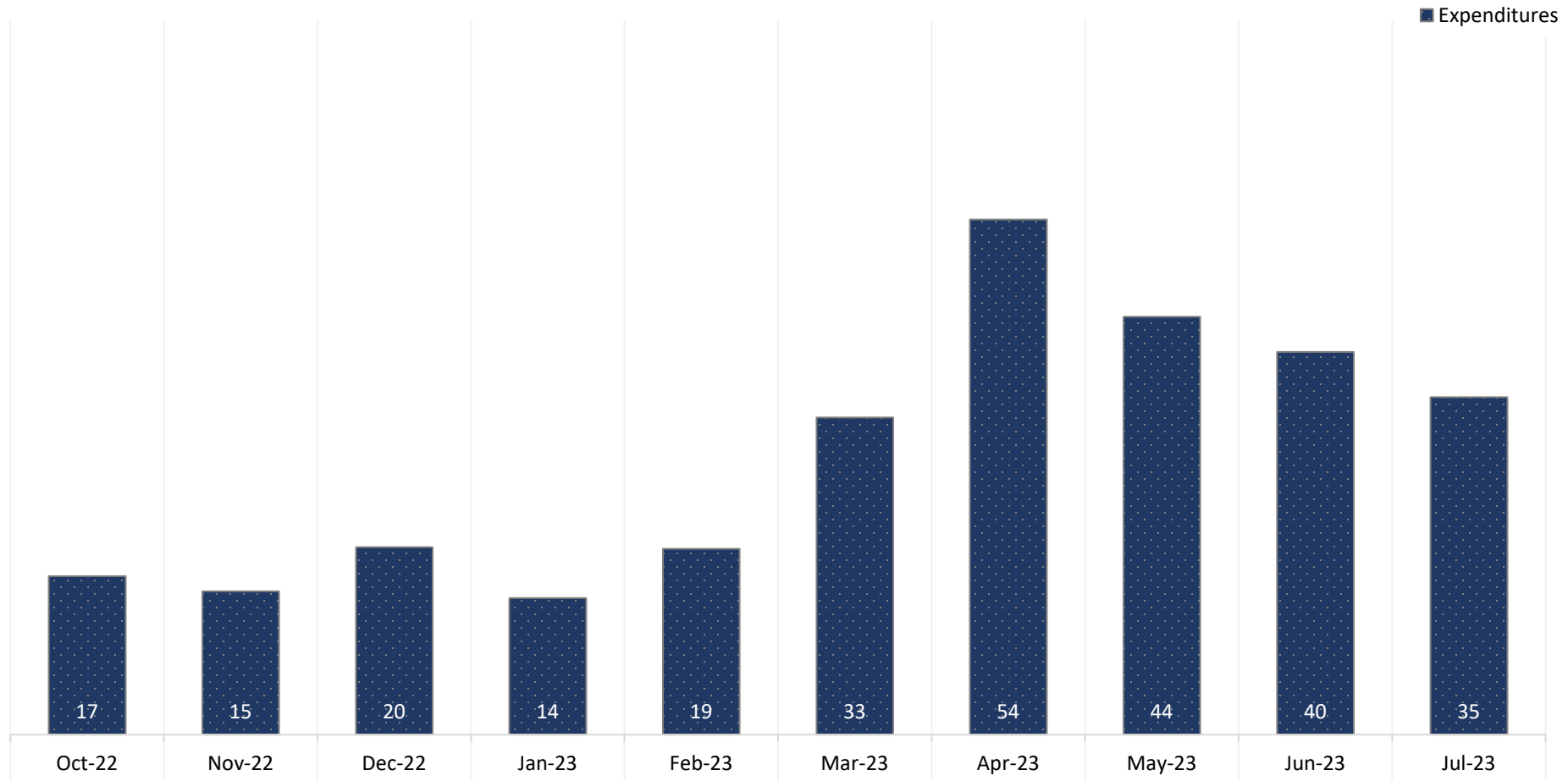
Description	Percentage
Time ⁽³⁾ :	174.0%
Dollars:	228.8%

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 – 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 \$35.4M.

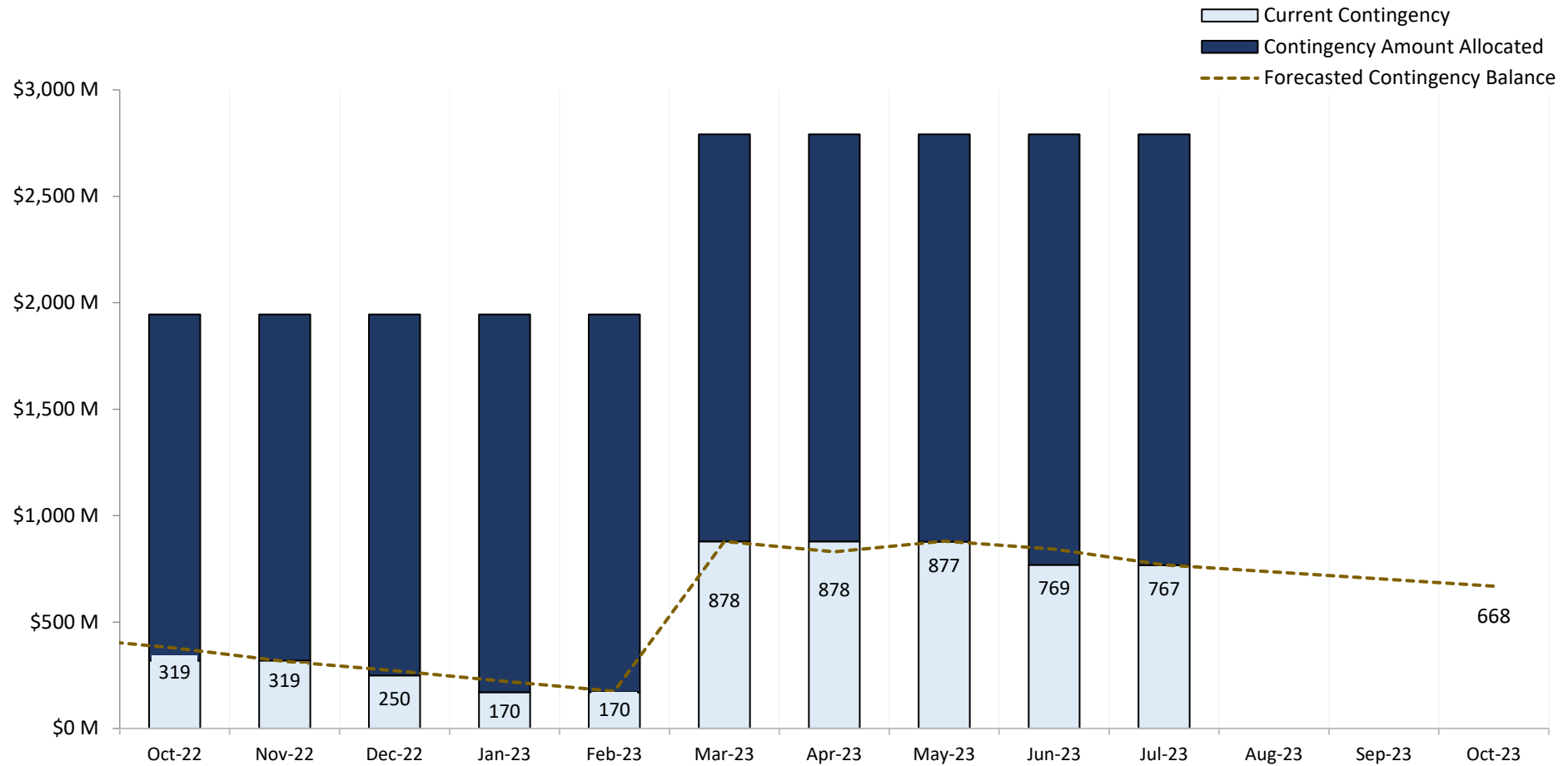
CP 1 – Change Orders (CO)

CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
48.8	Supplemental No. 8 Funding for PG&E/ AT&T Provisional Sum	Executed	\$107,000,000.00	07-07-23
480	Golden State Boulevard North Redesign - Design	Executed	\$166,562.00	07-10-23
502	PCO 1074 - Unknown Asphalt Debris Discovered During Sacrificial Manhole Install at Weber Ave.	Executed	\$6,841.00	07-10-23
497	PG&E Additional Requirements at Basin EH - Construction	Executed	\$642,069.00	07-11-23
199.01	Kinder Morgan Herndon Ave Relocation Subtask 1.03A	Executed	\$1,052,284.00	07-18-23
501	UPRR Scope Change Additional Signal Houses Grading Pads	Executed	\$48,559.00	07-18-23
499	Graffiti Abatement Completed Structures - T&M	Executed	\$300,000.00	07-18-23
TOTAL			\$109,216,315.00	

CP 1 – Risk Contingency

CP 1 – Risk Contingency Status (\$ Millions)

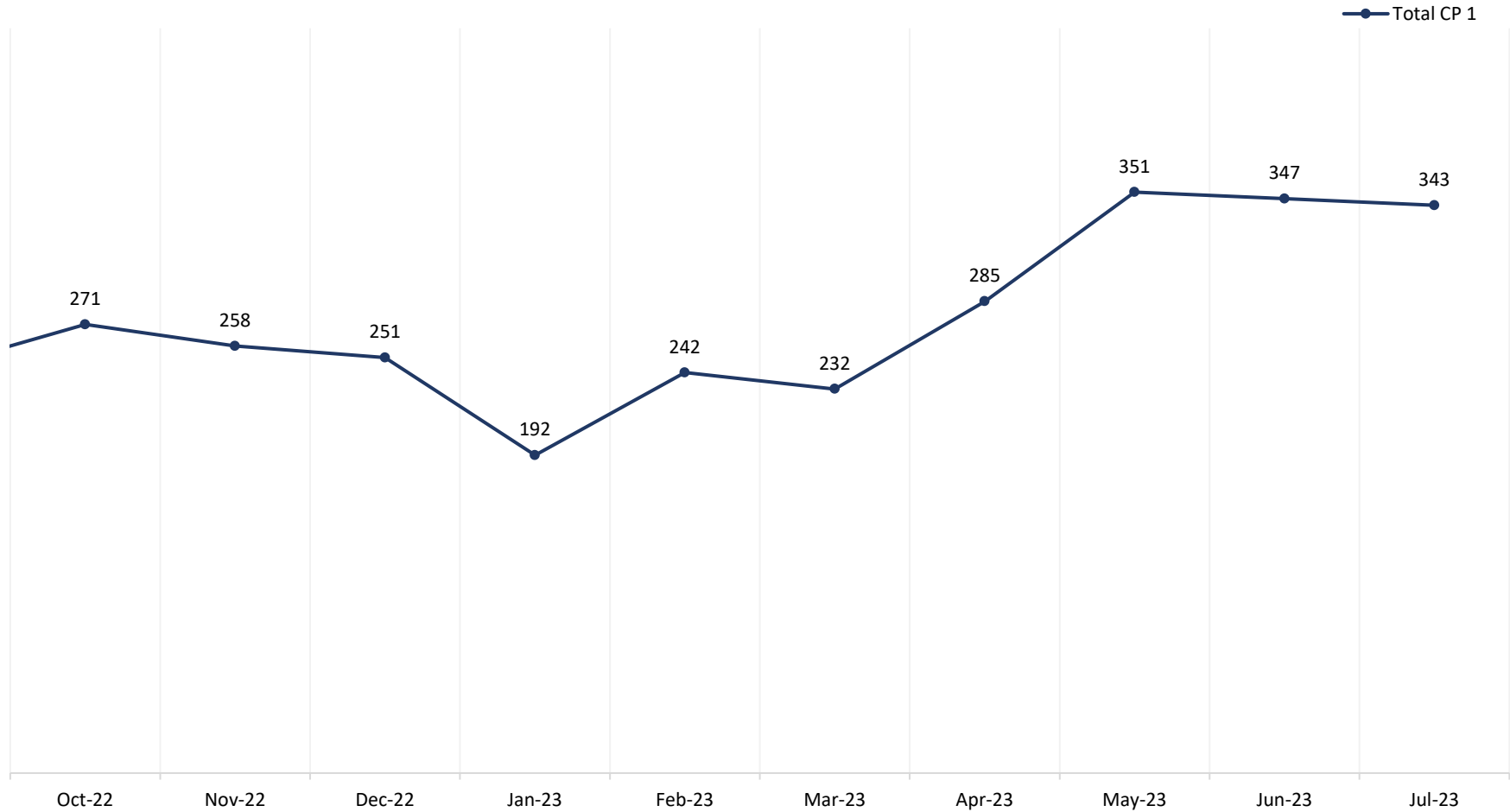


Notes:

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)

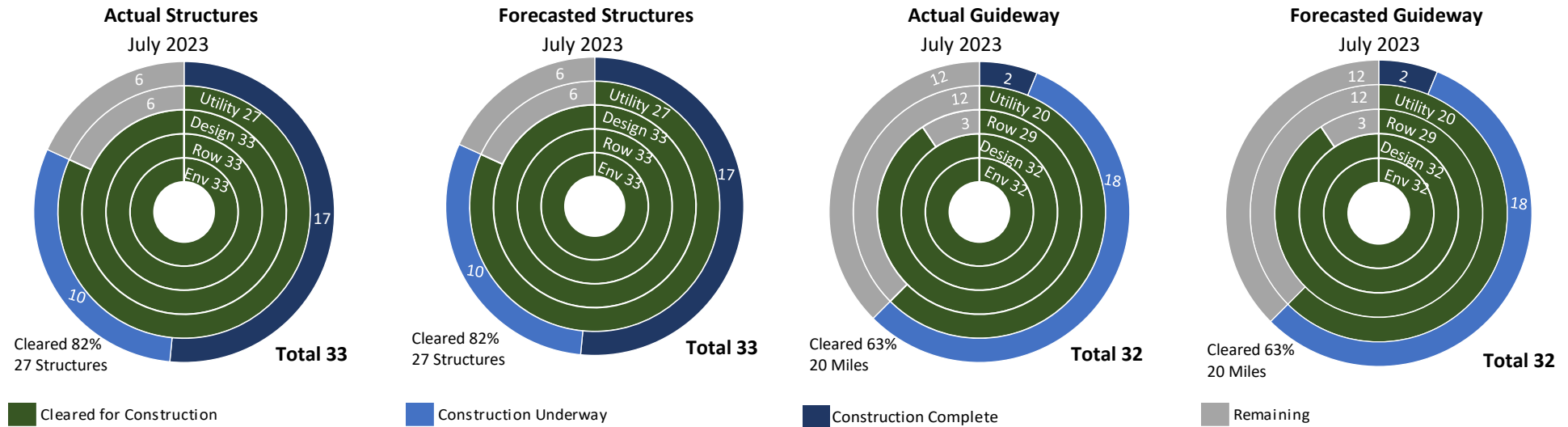


Notes:

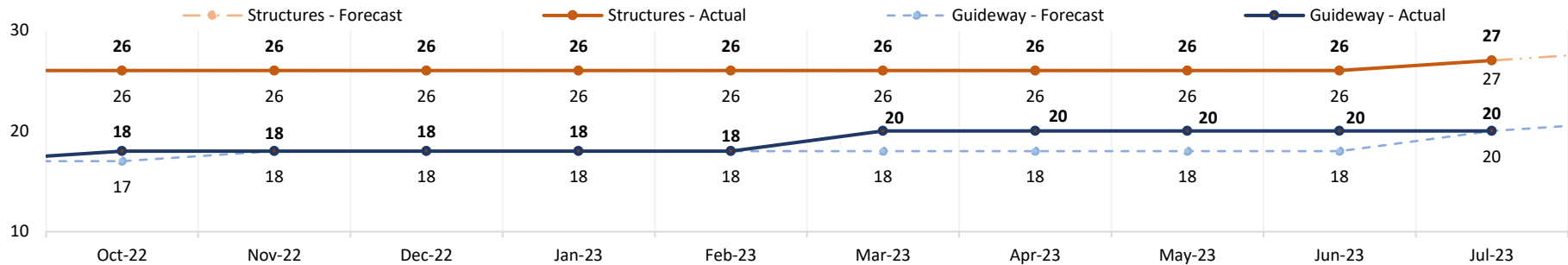
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. A decrease of four workers from the previous month (347).

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:
 - 27 structures underway/construction complete. An increase of one in July 2023: Avenue 17.
 - 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). Update: 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	200	20%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	304	31%
Total Utilities Relocated	488	49%
Total	992	100%

CP 1 – Summary by Utility Type

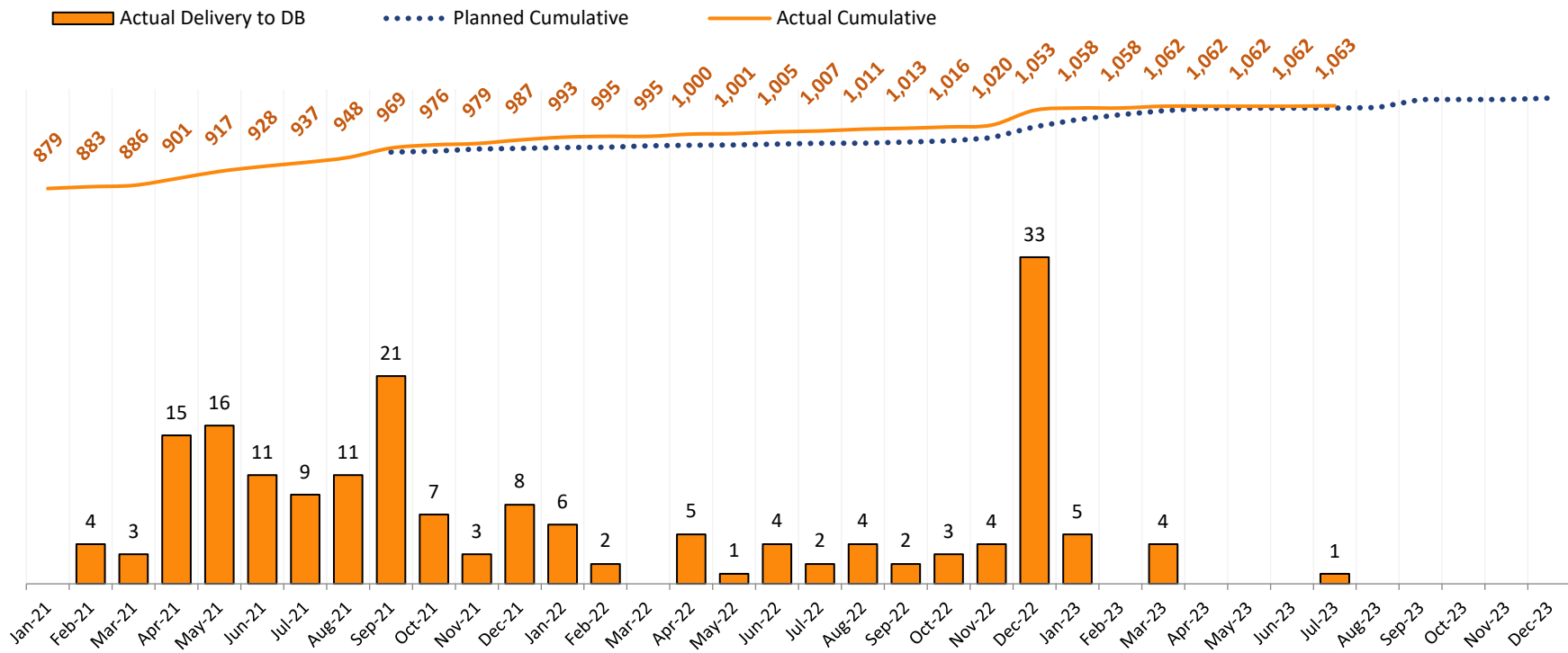
Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	93	43%
	APPROVED TO START	0	0%
	IN PROGRESS	14	7%
	RELOCATED	108	50%
	TOTAL	215	100%
Gas	NOT STARTED	17	19%
	APPROVED TO START	0	0%
	IN PROGRESS	30	33%
	RELOCATED	44	48%
	TOTAL	91	100%
Telecom	NOT STARTED	36	9%
	APPROVED TO START	0	0%
	IN PROGRESS	157	38%
	RELOCATED	222	53%
	TOTAL	415	100%
Wet	NOT STARTED	54	20%
	APPROVED TO START	0	0%
	IN PROGRESS	103	38%
	RELOCATED	114	42%
	TOTAL	271	100%

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

CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2023	Total Parcels Delivered to Date July 31, 2023	Remaining Parcels to be Delivered July 31, 2023
CP 1	1,083	1,063	20

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



Notes:

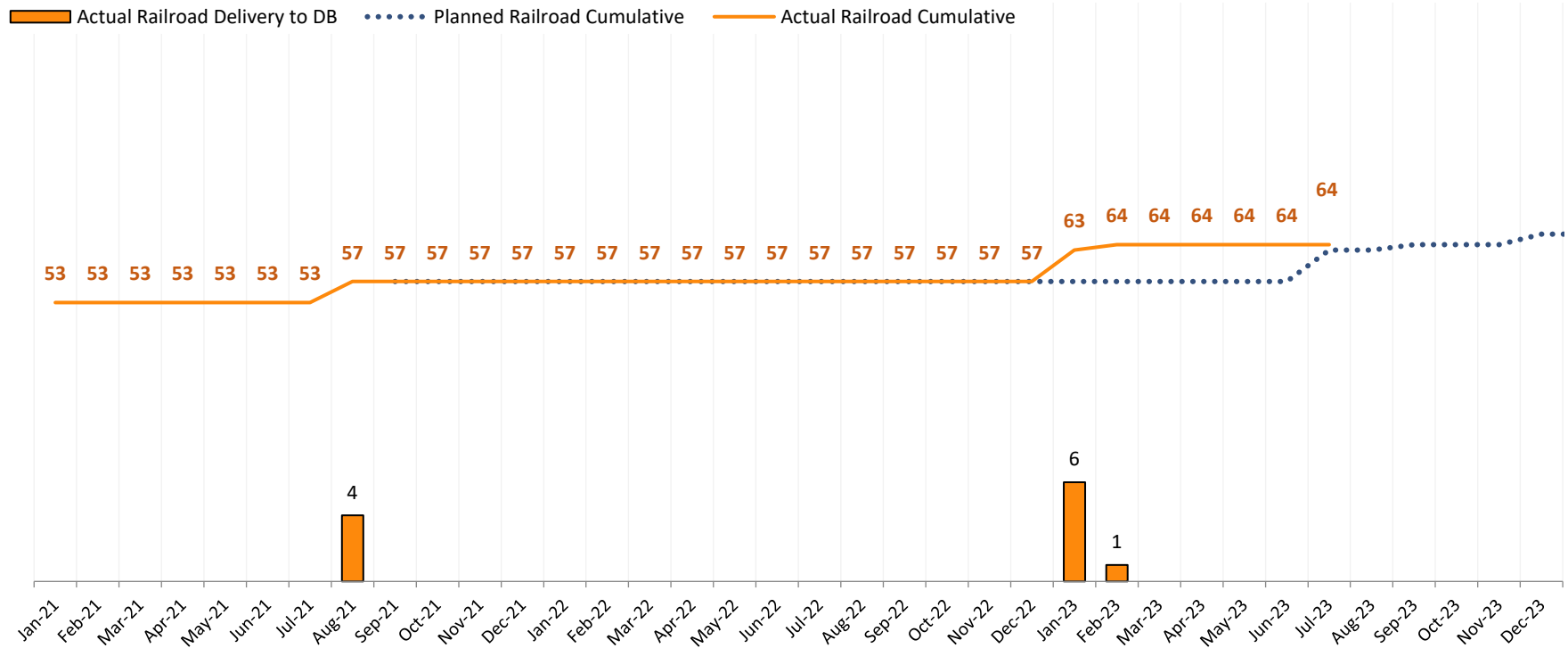
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.

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

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

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

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



Note:

- 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⁽¹⁾

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 ⁽²⁾ :	05/21/2026
Current Forecast Construction Completion Date⁽²⁾:	03/21/2026

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:	\$1,649,092,333.28
Current Contract Amount:	\$3,014,428,223.28
Approved Invoices to Date:	\$2,080,519,210.44
Remaining Contract Balance:	\$933,909,012.84

Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded ⁽³⁾ :	2,406
Current Forecast Contract Days ⁽³⁾ :	3,892
Calendar Days Worked (thru 07/31/2023):	2,928

Expended to Date Percentage

Description	Percentage
Time ⁽³⁾ :	75.2%
Dollars:	69.0%

Growth Percentage

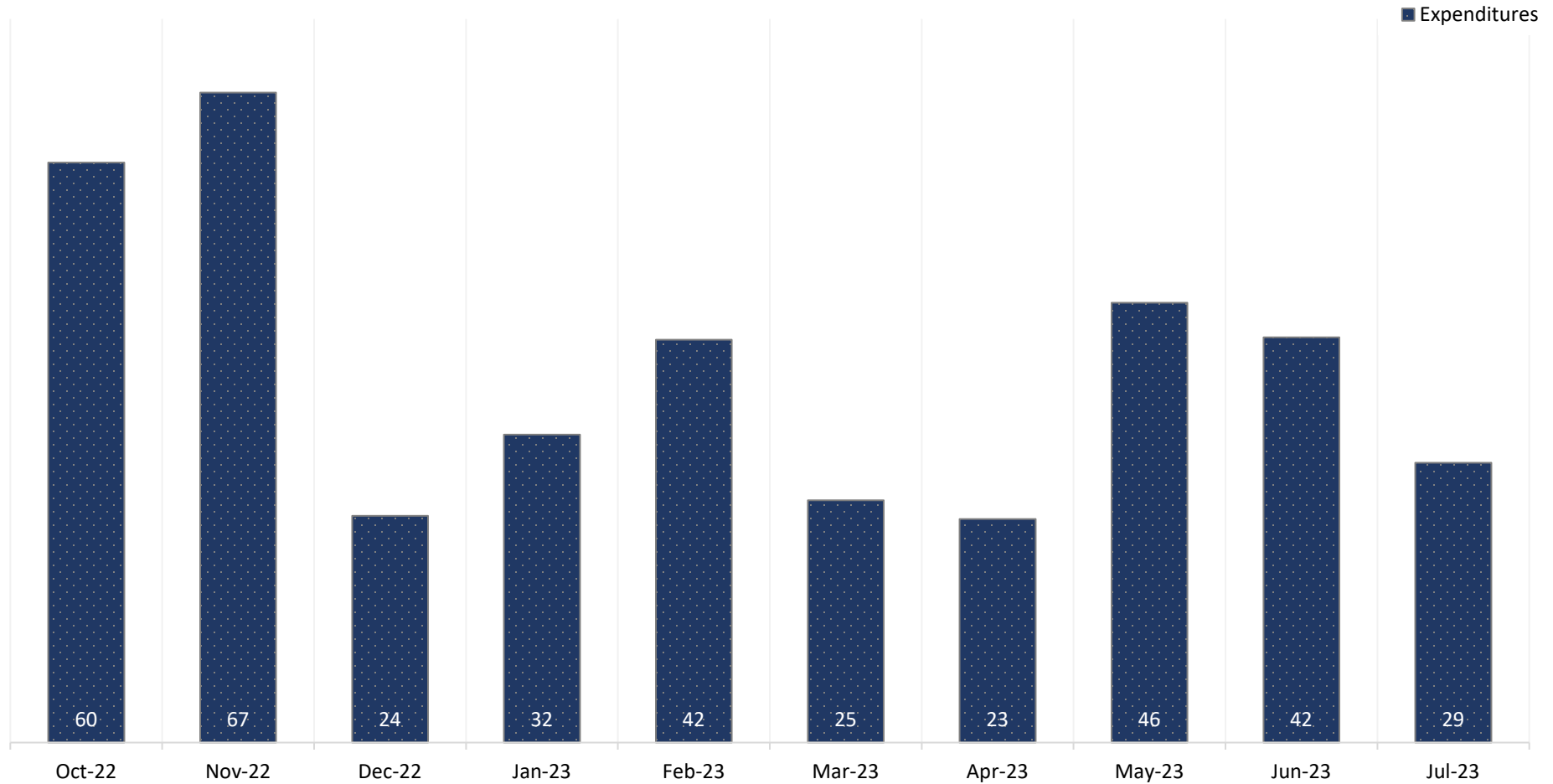
Description	Percentage
Time ⁽³⁾ :	161.9%
Dollars:	120.8%

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 \$29.0M.

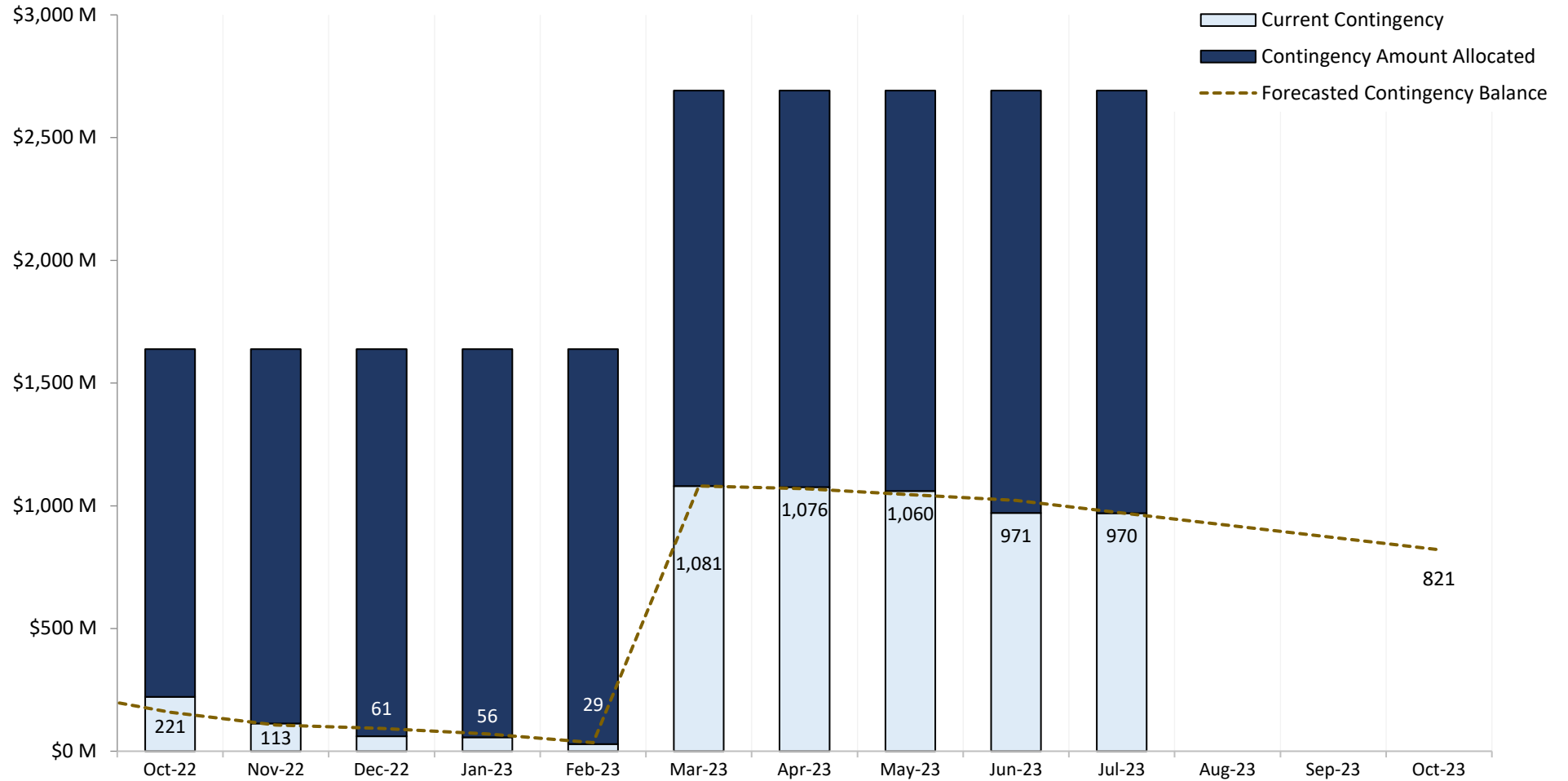
CP 2-3 – Change Orders (CO)

CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
86.15	Stuber Steel Casing Relocation – T&M	Executed	\$100,000.00	07-27-23
377	8 Vie Del Private Utility Steel Casings – Procurement of Materials – T&M	Executed	\$845,600.00	07-20-23
TOTAL			\$945,600.00	

CP 2-3 – Risk Contingency

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

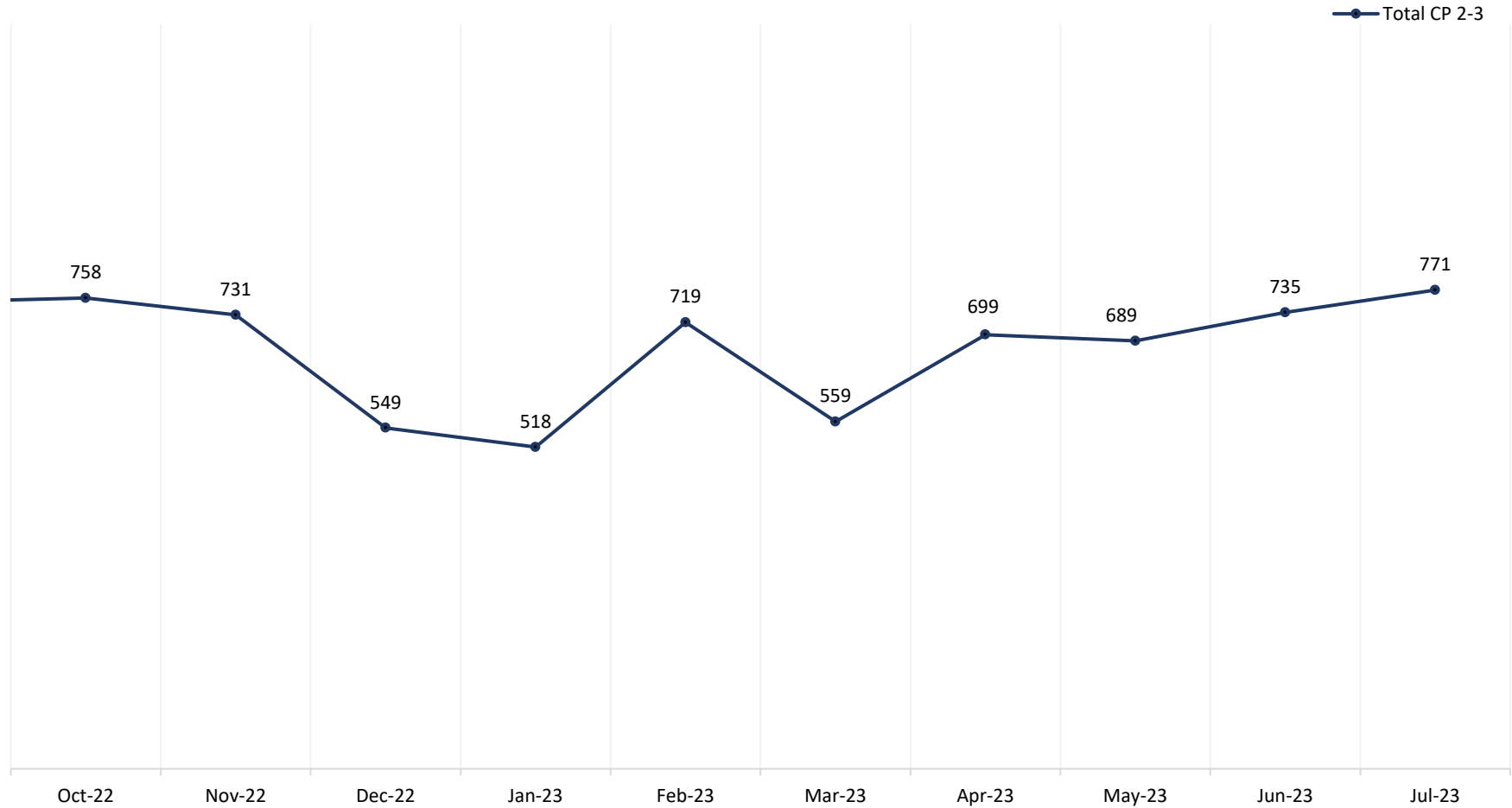


Notes:

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)

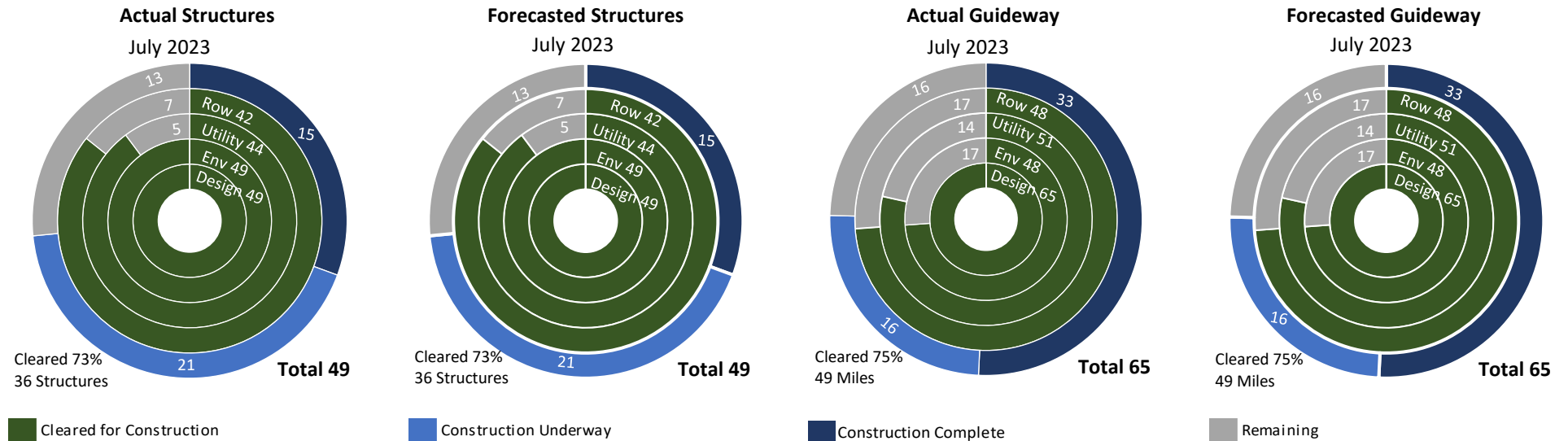


Notes:

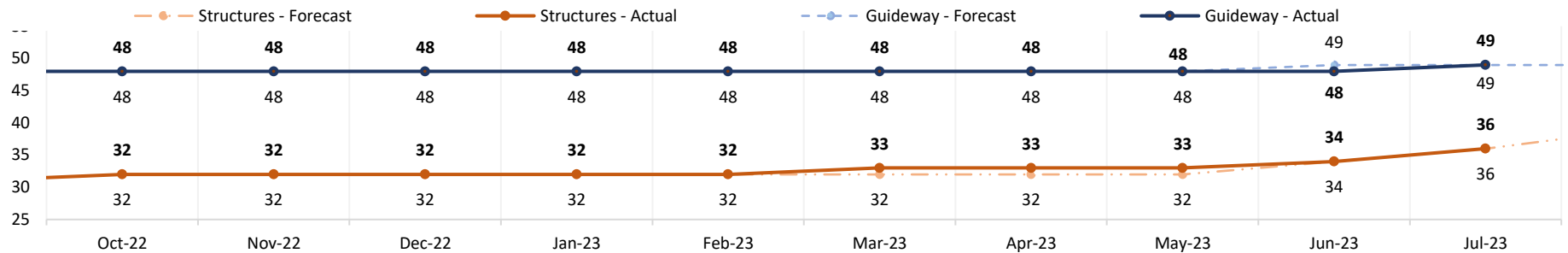
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of 36 workers from the previous month (735).

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:
 - 36 structures underway/construction complete. An increase of two in July 2023: Floral Avenue and Dutch John Cut Viaduct.
- Total Guideway: 65 miles:
 - 49 miles underway/construction complete. An increase of one in July 2023: South of Dutch John Cut Viaduct, from Cairo Avenue to Kings River.
- 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	146	21%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	70	10%
Total Utilities Relocated	485	69%
Total	701	100%

CP 2-3 – Summary by Utility Type

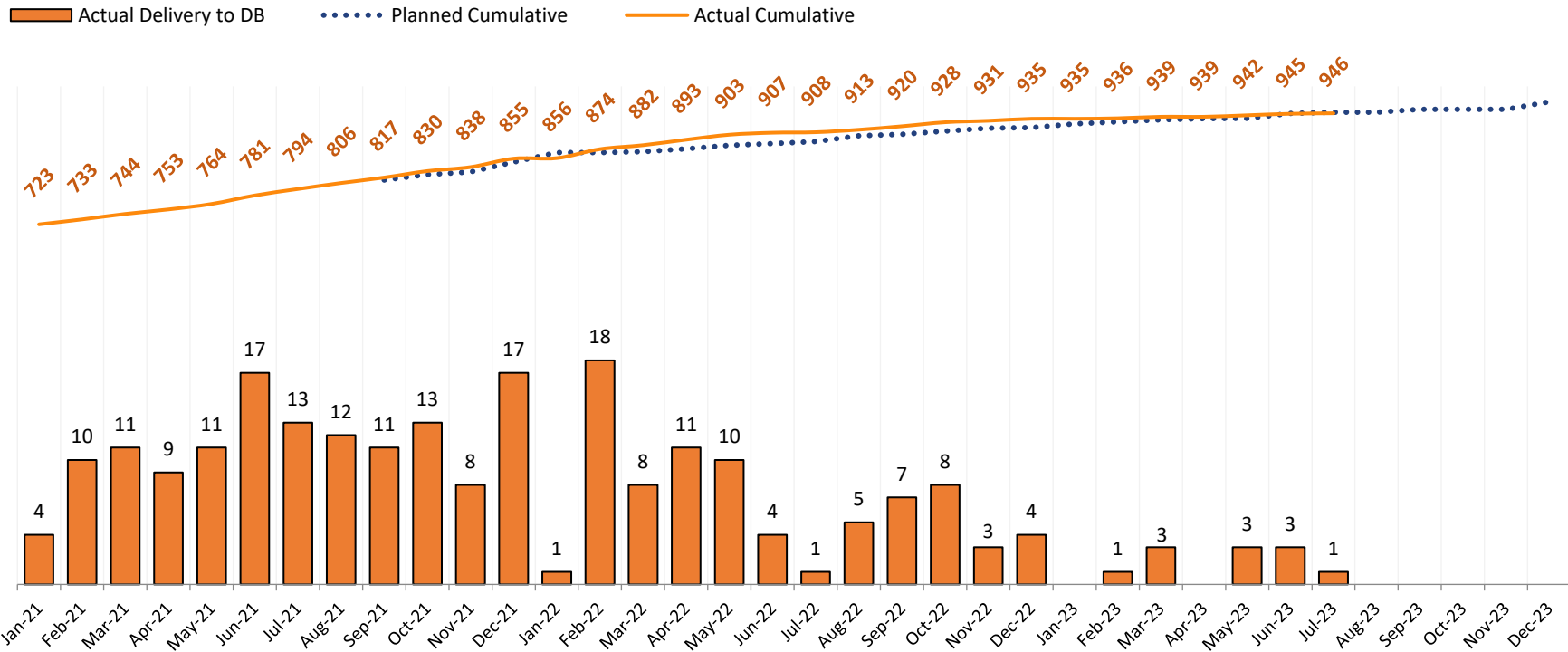
Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	102	27%
	APPROVED TO START	0	0%
	IN PROGRESS	35	9%
	RELOCATED	247	64%
	TOTAL	384	100%
Gas	NOT STARTED	10	37%
	APPROVED TO START	0	0%
	IN PROGRESS	2	7%
	RELOCATED	15	56%
	TOTAL	27	100%
Telecom	NOT STARTED	3	1%
	APPROVED TO START	0	0%
	IN PROGRESS	28	12%
	RELOCATED	202	87%
	TOTAL	233	100%
Wet	NOT STARTED	31	54%
	APPROVED TO START	0	0%
	IN PROGRESS	5	9%
	RELOCATED	21	37%
	TOTAL	57	100%

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

CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2023	Total Parcels Delivered to Date July 31, 2023	Remaining Parcels to be Delivered July 31, 2023
CP 2-3	987	946	41

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



Notes:

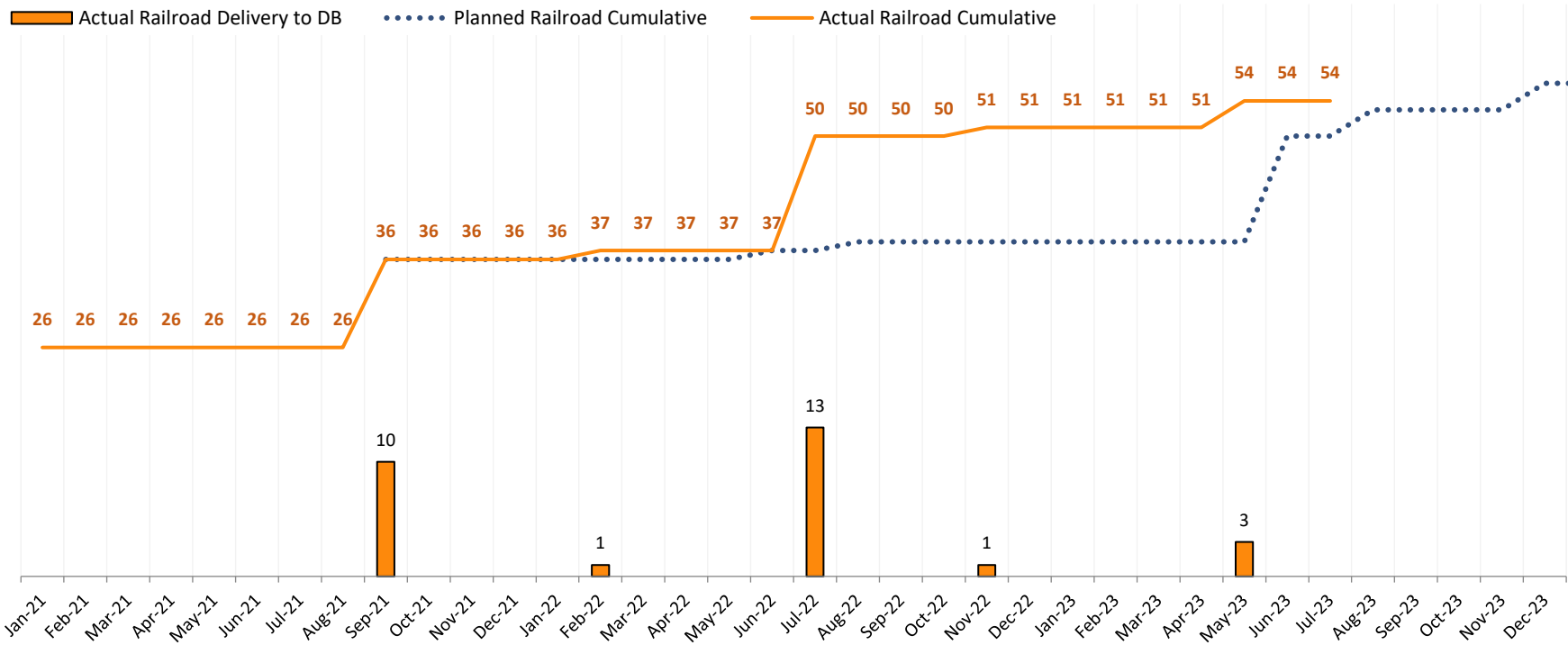
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.
2. Total Parcels Needed increased by one parcel in July 2023.

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 July 31, 2023	Total Railroad Parcels Delivered to Date July 31, 2023	Remaining Railroad Parcels to be Delivered July 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⁽¹⁾

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 ⁽²⁾ :	Dec 2023
Current Forecast Construction Completion Date⁽²⁾:	Aug 2023

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:	\$314,417,891.73
Current Contract Amount:	\$758,664,891.73
Approved Invoices to Date:	\$701,843,640.98
Remaining Contract Balance:	\$56,821,250.75

Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded ⁽³⁾ :	1,548
Current Forecast Contract Days ⁽³⁾ :	2,692
Calendar Days Worked (thru 07/31/2023):	2,663

Expended to Date

Description	Percentage
Time ⁽³⁾ :	98.9%
Dollars:	92.5%

Growth Percentage

Description	Percentage
Time ⁽³⁾ :	135.3%
Dollars:	70.8%

Notes:

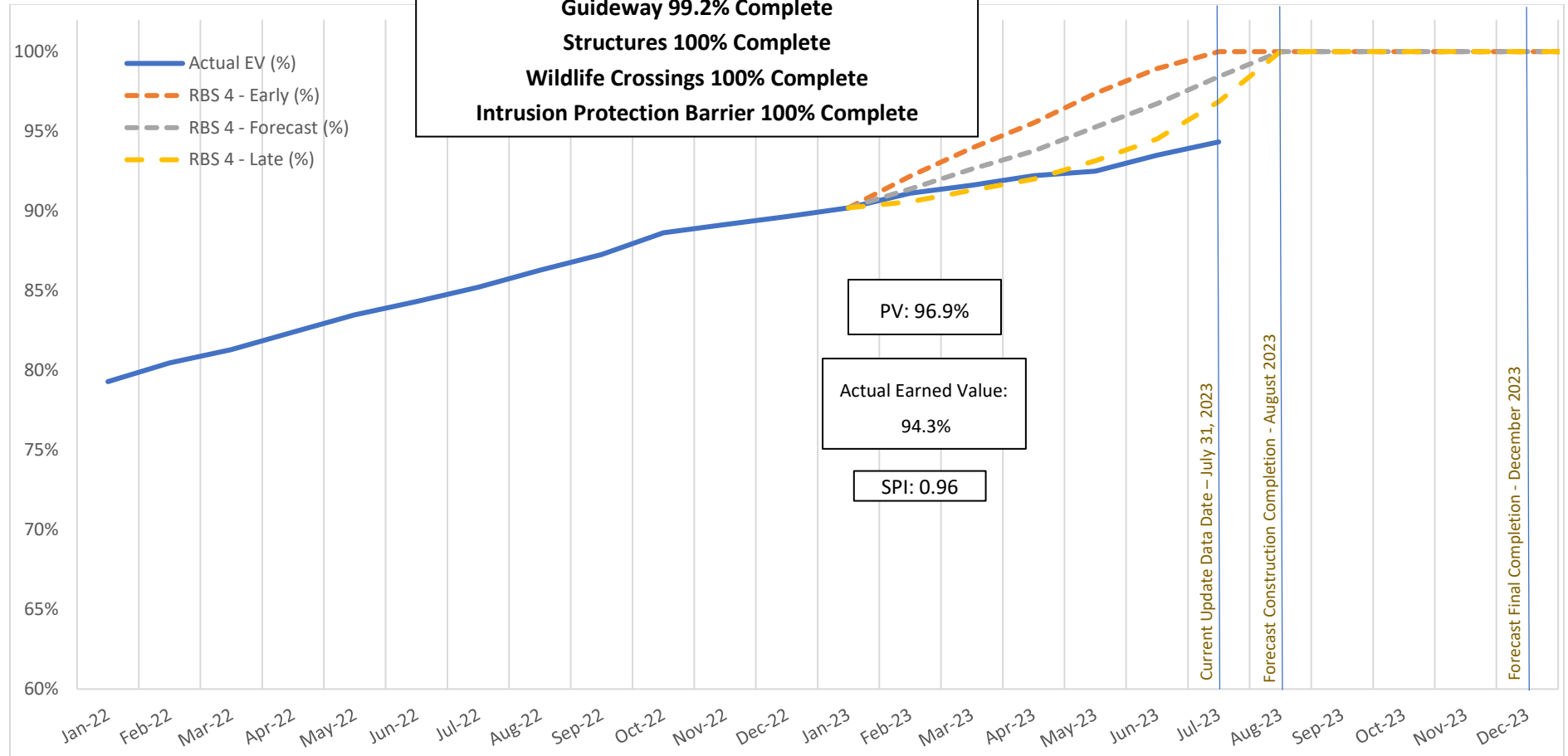
1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization.
3. Contract Time Status (Extension of Time Awarded and Current Forecast Contract Days), Expended to Date (Time), 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 primarily dependent on the outcome of mutual agreements with two third-party facilities that were impacted by severe weather events; but for these two issues the **September Forecast for CP 4** is as follows:

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

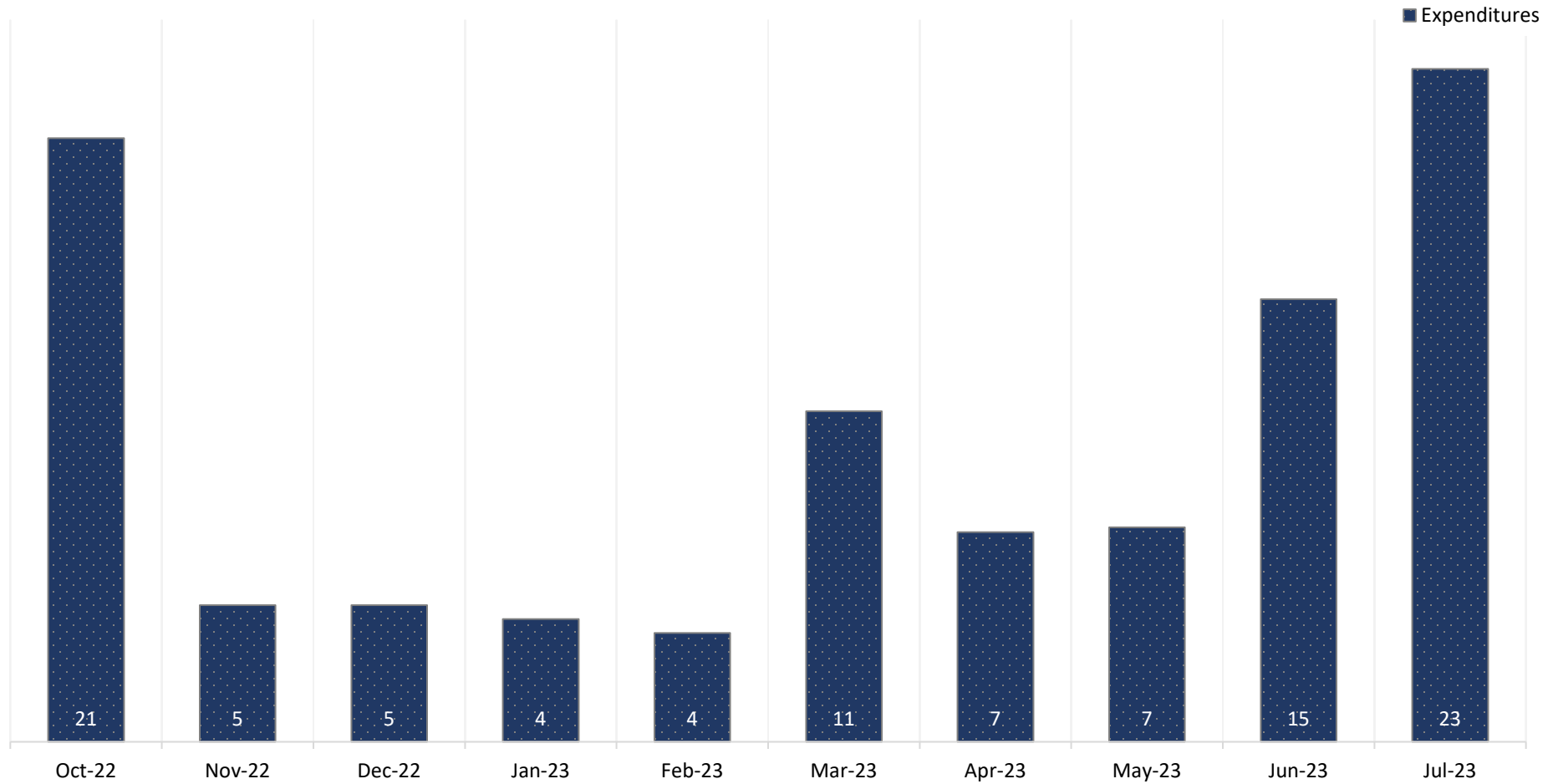


Notes:

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 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 \$23.3M.

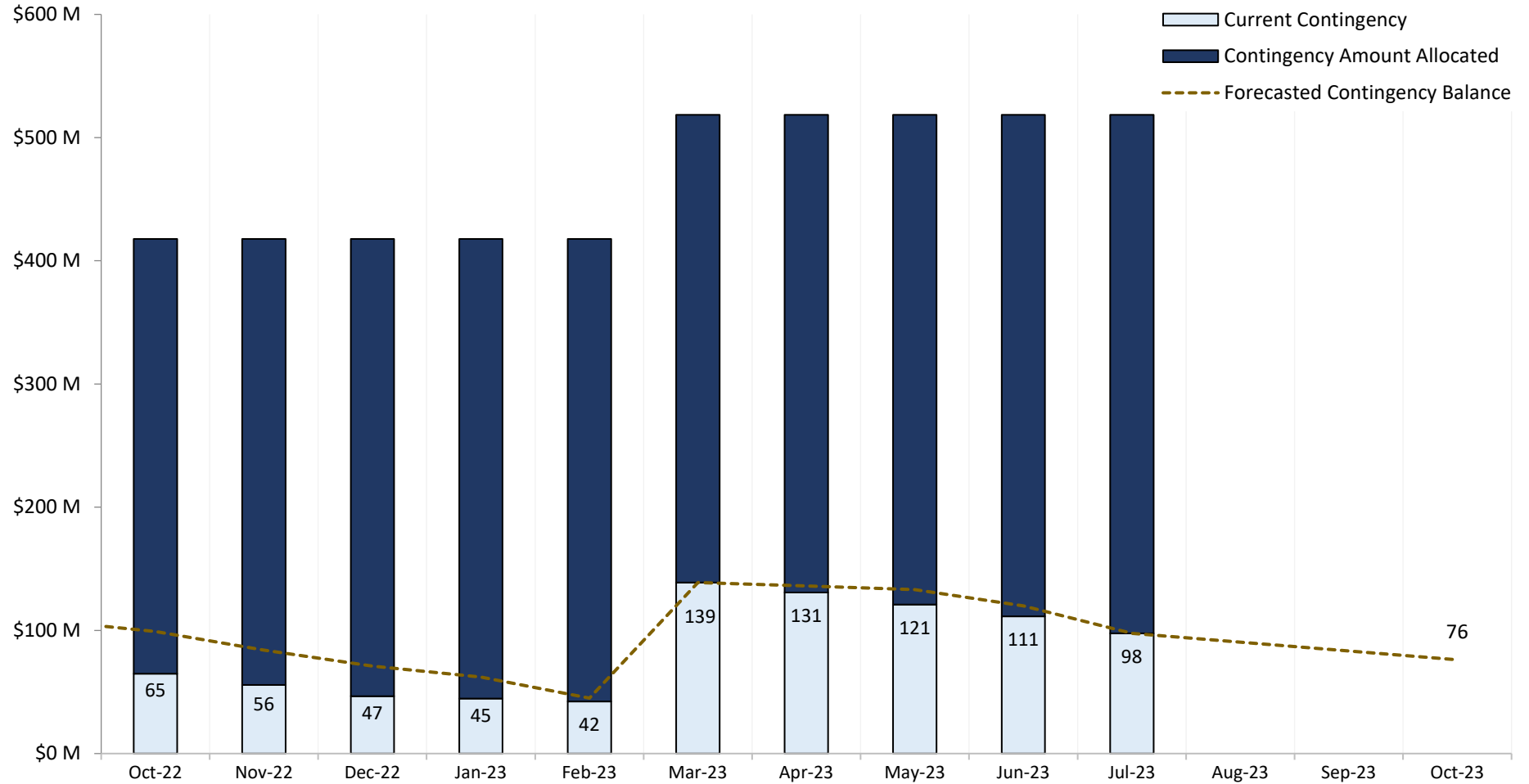
CP 4 – Change Orders (CO)

CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
32.5	Adjustment to Completion Deadlines and Contract Price due to Delays (TIA16)	Executed	\$11,170,910.11	07-19-23
189	City of Wasco Changes - Poso Avenue and J Street	Executed	\$1,450,697.00	07-28-23
199	Additional Insurance Premium Costs - Sixth Submission	Executed	\$204,735.04	07-28-23
200	Changes to NKWSD Conflict 5002	Executed	\$565,875.36	07-28-23
201	Conflict 8010 Asbestos Pipe Removal	Executed	\$48,988.50	07-28-23
203	Temporary Power Generators and Electrical Modifications at McCombs and Merced	Executed	\$306,473.32	07-28-23
205	North Kern Water Storage District Additional Costs not Covered under the Contract - 9th Submission	Executed	\$11,924.64	07-28-23
206	Semitropic Water Storage District Costs Reimbursement	Executed	\$23,547.76	07-28-23
TOTAL			\$13,783,151.73	

CP 4 – Risk Contingency

CP 4 – Risk Contingency Status (\$ Millions)

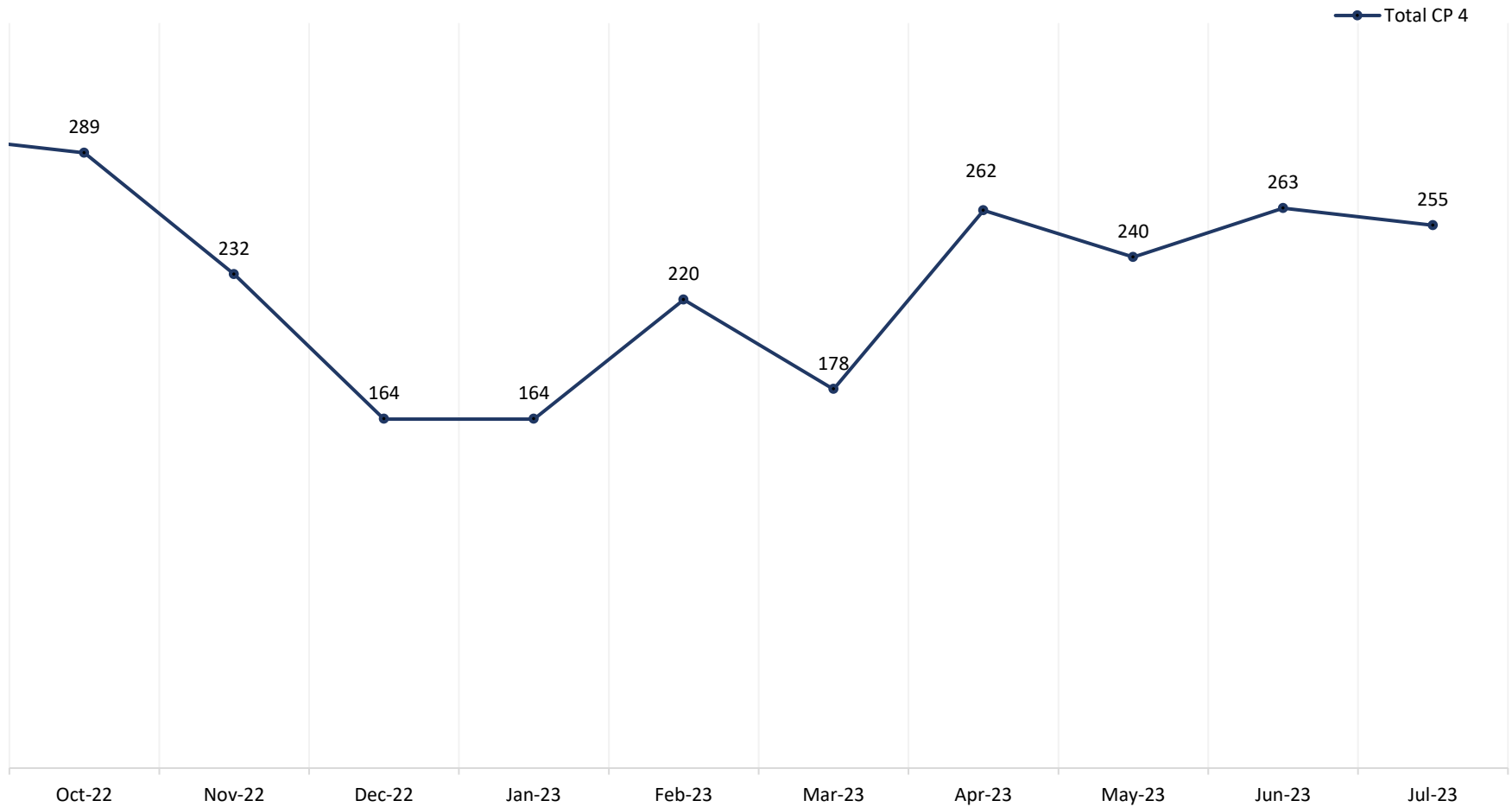


Notes:

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)

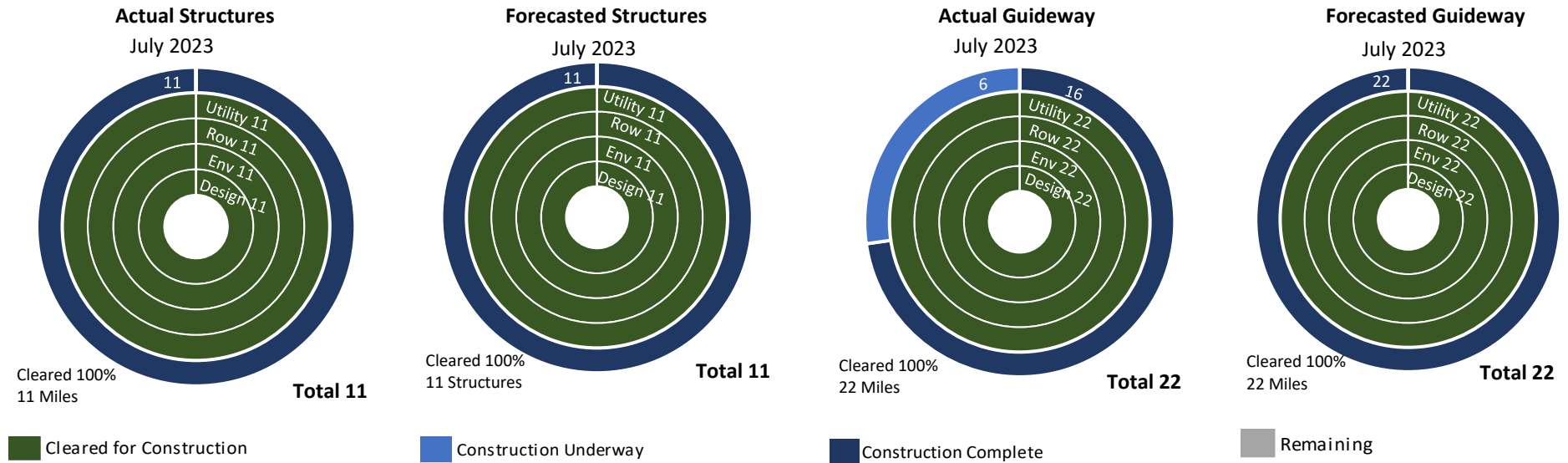


Notes:

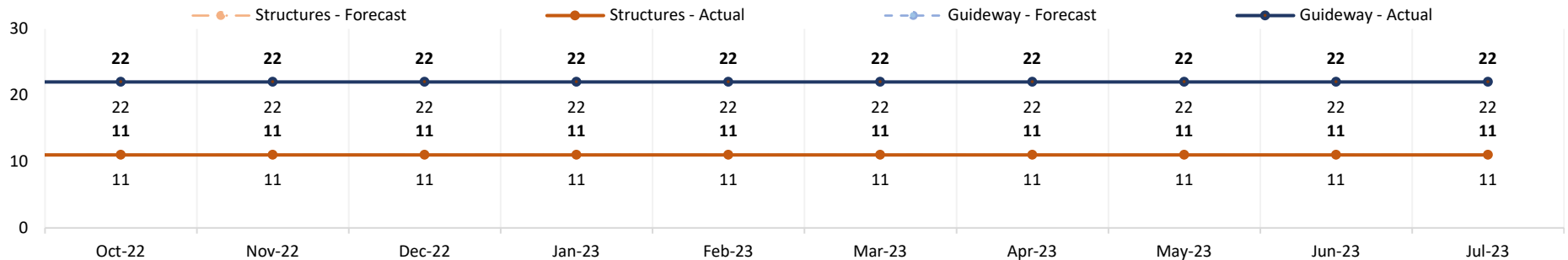
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. A decrease of eight in the number of workers from the previous month (263).

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	3	2%
Total Utilities in Progress	22	15%
Total Utilities Relocated	118	83%
Total	143	100%

CP 4 – Summary by Utility Type

Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	3	5%
	RELOCATED	59	95%
	TOTAL	62	100%
Gas	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	7	100%
	TOTAL	7	100%
Telecom	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	1	3%
	RELOCATED	31	97%
	TOTAL	32	100%
Wet	NOT STARTED	0	0%
	APPROVED TO START	3	7%
	IN PROGRESS	18	43%
	RELOCATED	21	50%
	TOTAL	42	100%

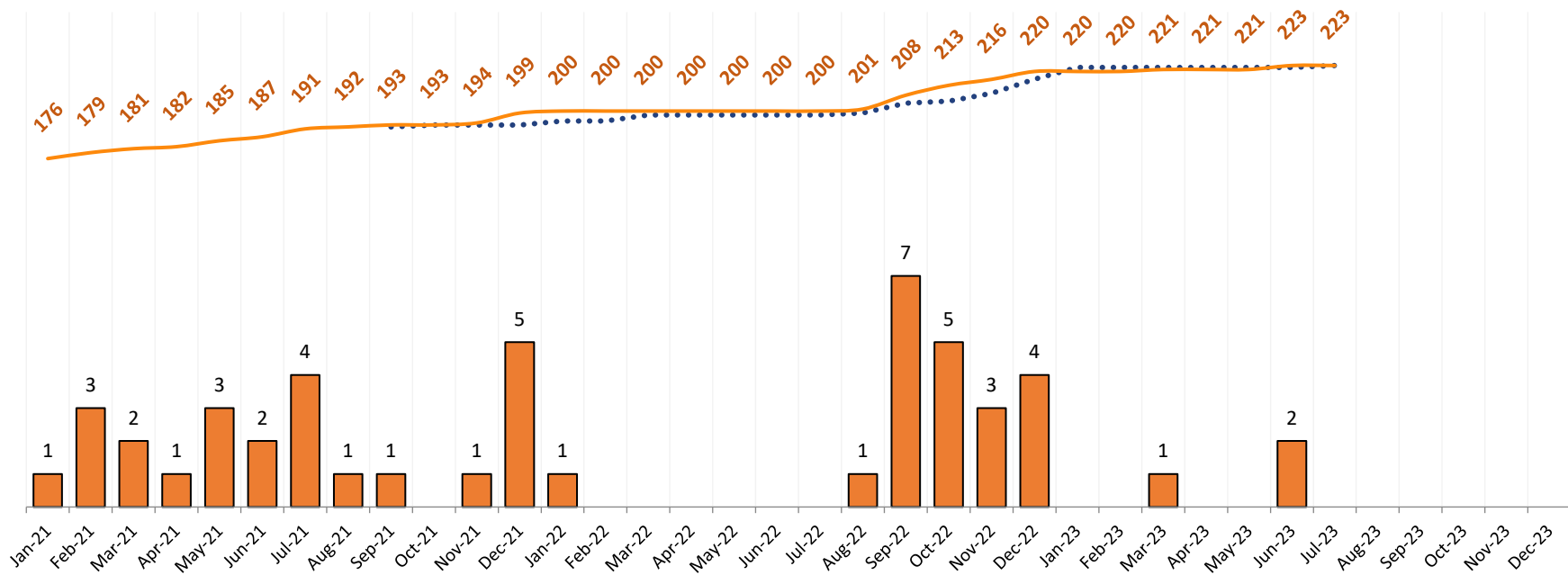
CP 4 – Real Property/Right-of-Way (ROW)

CP 4 – Right-of-Way (ROW) Summary

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

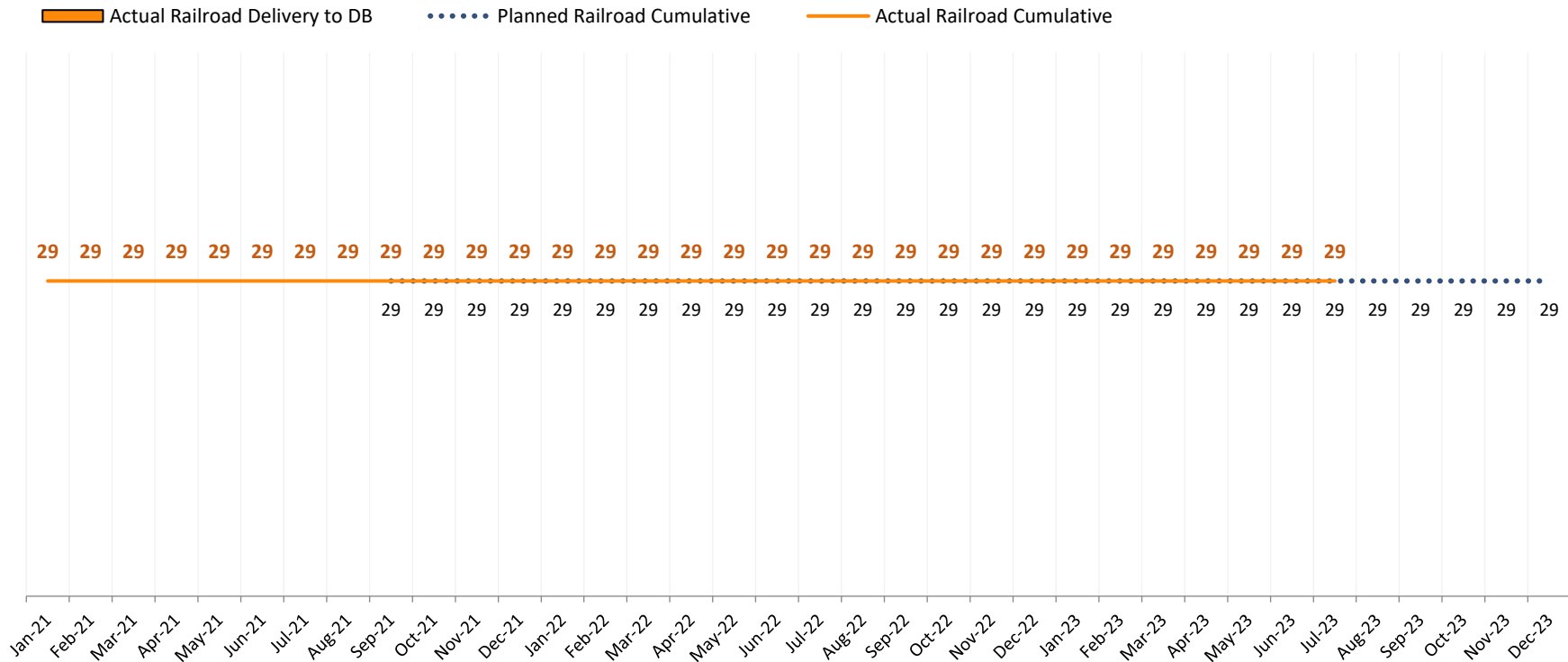
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

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

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

Construction Package	Total Needed Railroad Parcels July 31, 2023	Total Railroad Parcels Delivered to Date July 31, 2023	Remaining Railroad Parcels to be Delivered July 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%
1	Los Angeles to Anaheim	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Oct-24 Oct-24 ¹	Oct-24 Oct-24 ¹	Nov-25 Nov-25 ¹	Nov-25 Nov-25 ¹	Dec-25 ¹	Dec-25 ¹
2	Palmdale to Burbank	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Sep-23 Nov-23	Dec-23 Dec-23	Dec-23	Feb-24
3	Heavy Maintenance Facility (HMF)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Note:

- 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
San Francisco To San Jose	Environmental Clearance activities complete. Authority is currently in settlement discussions for ongoing litigation activities.
San Jose To Merced	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.
Central Valley Wye	Conducted monthly progress meeting with County of Madera on Fairmead mitigation projects. Environmental Clearance activities complete. Transition to Merced Extension (Merced to Madera).
Locally Generated Alternative	Environmental Clearance activities complete. Transition to Bakersfield Extension (LGA).
Bakersfield To Palmdale	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.
Palmdale To Burbank	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.
Burbank To Los Angeles	Work through NOD/ROD has been completed. Project closeout activities are ongoing. Authority is currently in settlement discussions for ongoing litigation activities.
Los Angeles To Anaheim	The LA-A team is finalizing a Supplemental Alternative Analysis which evaluates potential project alternatives and recommends alternatives or options to advance for further study in the Draft EIR/EIS.

Project Development (Post-ROD) – Key Actions Summary

Project Section	Key Actions
Merced Extension (Merced to Madera)	Stantec Inc. under agreement HSR 22-02, continues to make progress on the 30% design goals for this Project. Stantec will have the Draft Configuration Footprint completed by December of 2023. 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.
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. Task Order #3 was executed in the first week of July and HNTB is progressing with the work defined therein. The LGA and HNTB teams have held various workshops with the Authority Engineering team to review and advance various design concepts for the project. Third Party coordination is advancing with the local agencies and utility companies. Initial designs for the BNSF shoofly and elevated track designs have been discussed with and provided to the BNSF team.