



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

October 2022 Report (data through August 2022)

Executive Summary

Construction Packages (CP) Design-Build Expenditures ([Page 5](#))

- August 2022 Expenditures totaled \$43.7M:
 - Construction Package 1 – Expenditures totaled \$12.4M.
 - Construction Package 2-3 – Expenditures totaled \$19.4M.
 - Construction Package 4 – Expenditures totaled \$11.9M.
- Total CP Cumulative Actual Expenditures (Pages 13, 22, and 31) – \$4,101.0M.
- Total Cumulative Current Contract Amount (Pages 13, 22, and 31) – \$5,936.2M.

Change Orders

- Executed Change Orders this period – 13 for a total of (\$1.09)M:
 - Construction Package 1 (Page 15) – Three for a total of \$17.86M.
 - Construction Package 2-3 (Page 24) – Three for a total of \$0.35M.
 - Construction Package 4 (Page 35) – Seven for a total of (\$19.30)M.

Risk Contingency ([Page 6](#))

- Approved Contingency – \$4,000.7M budgeted contract contingency. Contingency balance is \$994.6M as of August 31, 2022.
 - Construction Package 1 (Page 16) – \$1,944.5M budgeted contract contingency. Contingency balance is \$444.4M as of August 31, 2022.
 - Construction Package 2-3 (Page 25) – \$1,638.4M budgeted contract contingency. Contingency balance is \$447.2M as of August 31, 2022.
 - Construction Package 4 (Page 36) – \$417.8M budgeted contract contingency. Contingency balance is \$103.0M as of August 31, 2022.

CP Design (Structures/Guideway)

- CP major design - Ready for Construction (RFC). Milestone of 100% of the required 163 RFC design approvals agreed with the Authority in June 2022 for Construction.
 - Construction Package 1 – 40 of 40 total design packages approved by the Authority for construction.
 - Construction Package 2-3 – 109 of 109 total design packages approved by the Authority for construction.
 - Construction Package 4 – 14 of 14 total design packages approved by the Authority for construction.

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

- August 2022, Average Daily Site Workers (by Week) – 1,188 workers. An increase of 75 workers from the previous period (from 1,113):
 - Construction Package 1 (Page 17) – 257 workers. An increase of 20 workers from the previous month (237).
 - Construction Package 2-3 (Page 26) – 660 workers. An increase of 42 workers from the previous month (618).
 - Construction Package 4 (Page 37) – 271 workers. An increase of 13 workers from the previous month (258).
- Daily Average Contracted CP Employees Quarantined for COVID-19 in August 2022 – 15. A decrease of three from the daily average of 18 in July 2022.
- 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 8)

- Structures – 68 underway/Construction complete compared to 93 structures (73%) total. An increase of one from the previous period:
 - Construction Package 1 – 26 structures underway/Construction complete.
 - Construction Package 2-3 – 31 structures underway/Construction complete.
 - Construction Package 4 – 11 structures underway/Construction complete.
- Guideway – 87 miles constructed/underway compared to 119 miles (73%) total. No change from the previous period:
 - Construction Package 1 – 17 miles underway/Construction complete.
 - Construction Package 2-3 – 48 miles underway/Construction complete.
 - Construction Package 4 – 22 miles underway/Construction complete.

Utility Relocations Status (Page 9)

- Relocated: 880 (47%); In Progress: 372 (20%); Approved to Start: 64 (4%); Not Started: 547 (29%); Total: 1,863. Ten relocated in August 2022 reporting period. 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: 376 (38%); In Progress: 345 (35%); Approved to Start: 0 (0%); Not Started: 271 (27%); Total: 992.
 - Construction Package 2-3 – Relocated: 413 (59%); In Progress: 19 (3%); Approved to Start: 30 (4%); Not Started: 243 (34%); Total: 705.
 - Construction Package 4 – Relocated: 91 (55%); In Progress: 8 (5%); Approved to Start: 34 (20%); Not Started: 33 (20%); Total: 166.

CP Real Property/Right-of-Way (ROW) (Pages 10 - 12)

- Total Parcels Delivered to Date – 2,125 parcels compared to an estimated 2,321 parcels needed.
- Parcels Delivered to Design-Builder (DB) – 10 parcels in August 2022.
- Construction Packages 1-4 – 17 parcels added to meet Third Party design requirements and five parcels removed due to design refinement reducing impacts to real property. 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.
- Railroad Parcels Delivered to Design-Builder – Zero parcels.
- Total Railroad Parcels Delivered to Date – 136 parcels delivered compared to an estimated 168 total railroad parcels needed.
- Land Right Conveyances (Tier 1, Prior to Construction):
 - Two land right conveyance approved.
 - To date, the Authority received approval on 671 land right conveyances.

Project Development (Environmental Clearance) Schedule – Notice of Determination (NOD)/Record of Decision (ROD) ([Pages 42 - 43](#))

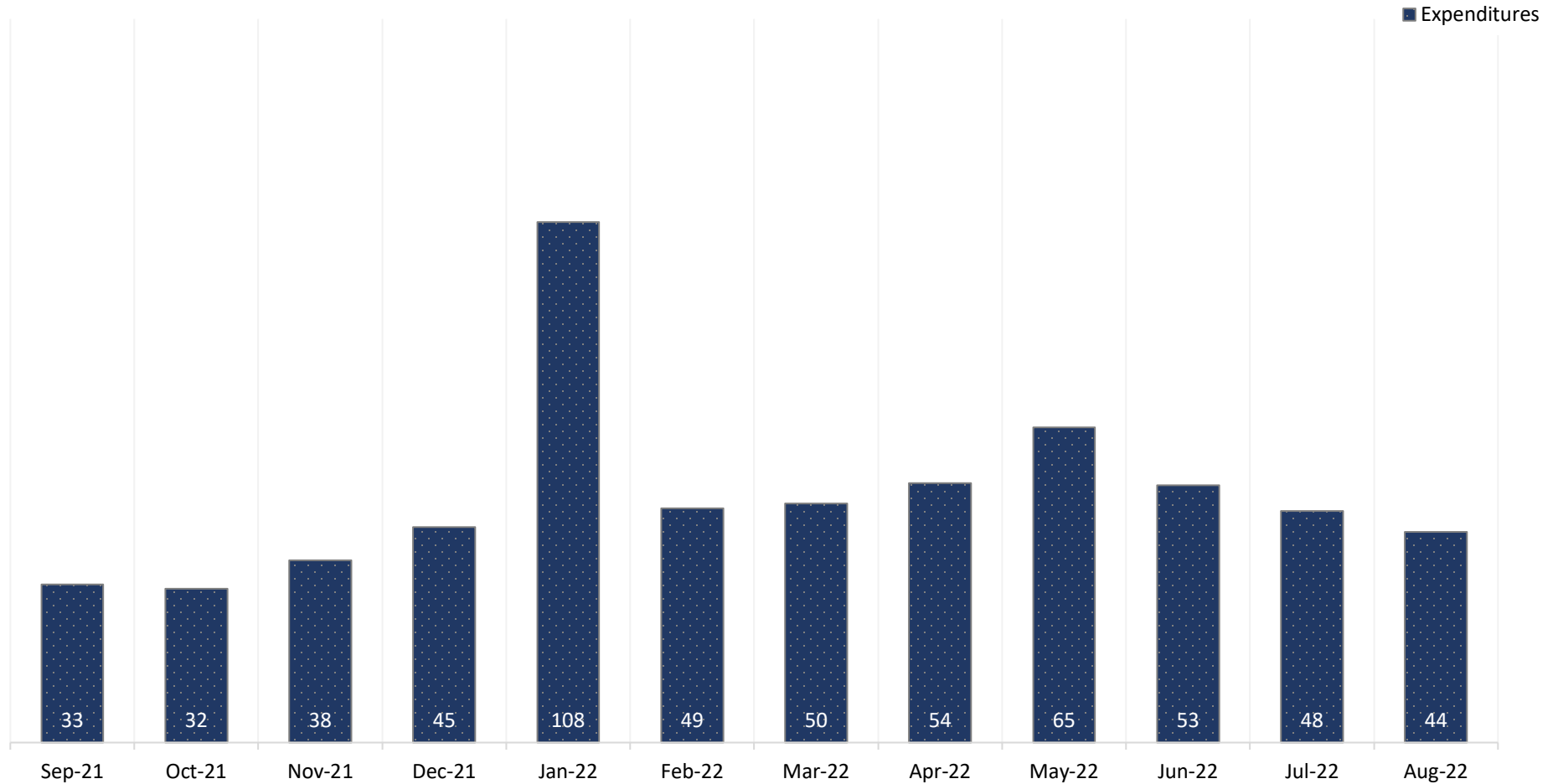
- San Francisco to San Jose – The National Environmental Policy Act (NEPA) waiting period for the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) ended July 11, 2022. The Federal Railroad Administration (FRA) published the final General Conformity Determination on July 22, 2022 and noticed in the Federal Register on July 28, 2022. The Authority Board approved the San Francisco to San Jose (FJ) Final EIR/EIS at the August 2022 Board Meeting. **Update:** The Final Record of Decision (ROD) is scheduled to be signed by the Authority’s Chief Executive Officer (CEO) by October 17, 2022.
- San Jose to Merced – Final ROD was signed by the Authority’s CEO on June 1, 2022. Staff continues to assemble the Administrative Record.
- Bakersfield to Palmdale – Work through Notice of Determination/Record of Decision (NOD/ROD) has been completed. Continued meeting with key stakeholders (Center for Biological Diversity).
- Palmdale to Burbank – Production and noticing activities are underway in advance of the scheduled release date for the Draft EIR/EIS on September 2, 2022.
- Burbank to Los Angeles – The Authority’s CEO signed the ROD on March 7, 2022. Work through NOD/ROD has been completed. Project closeout activities are ongoing, including Authority review and acceptance of the Administrative Record.
- Los Angeles to Anaheim – The team continued integrating additional Burlington Northern Santa Fe Corporation (BNSF) deliverables pertaining to the Colton and Lenwood facilities into the assembled Administrative Draft EIR/EIS and continued Preliminary Engineering for Project Definition (PEPD) reviews with external stakeholders.

Project Development (Post-Record of Decision) Schedule ([Page 44](#))

- Merced Extension (Merced to Madera) – U.S. Department of Transportation (DOT) approved a \$25 million Authority submitted Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant request for Merced to Madera project design efforts on August 10, 2022. On August 17, 2022, the Board authorized the Authority’s CEO to execute the design services contract with Stantec Consulting Services Inc. for up to \$41M.
- Bakersfield Extension Locally Generated Alternative (LGA) – The California High-Speed Rail Authority Board authorized the Authority’s CEO to execute the design services contract with HNTB Corporation for up to \$44.9M on August 17, 2022.

CP 1-4 – Design-Build Expenditures

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

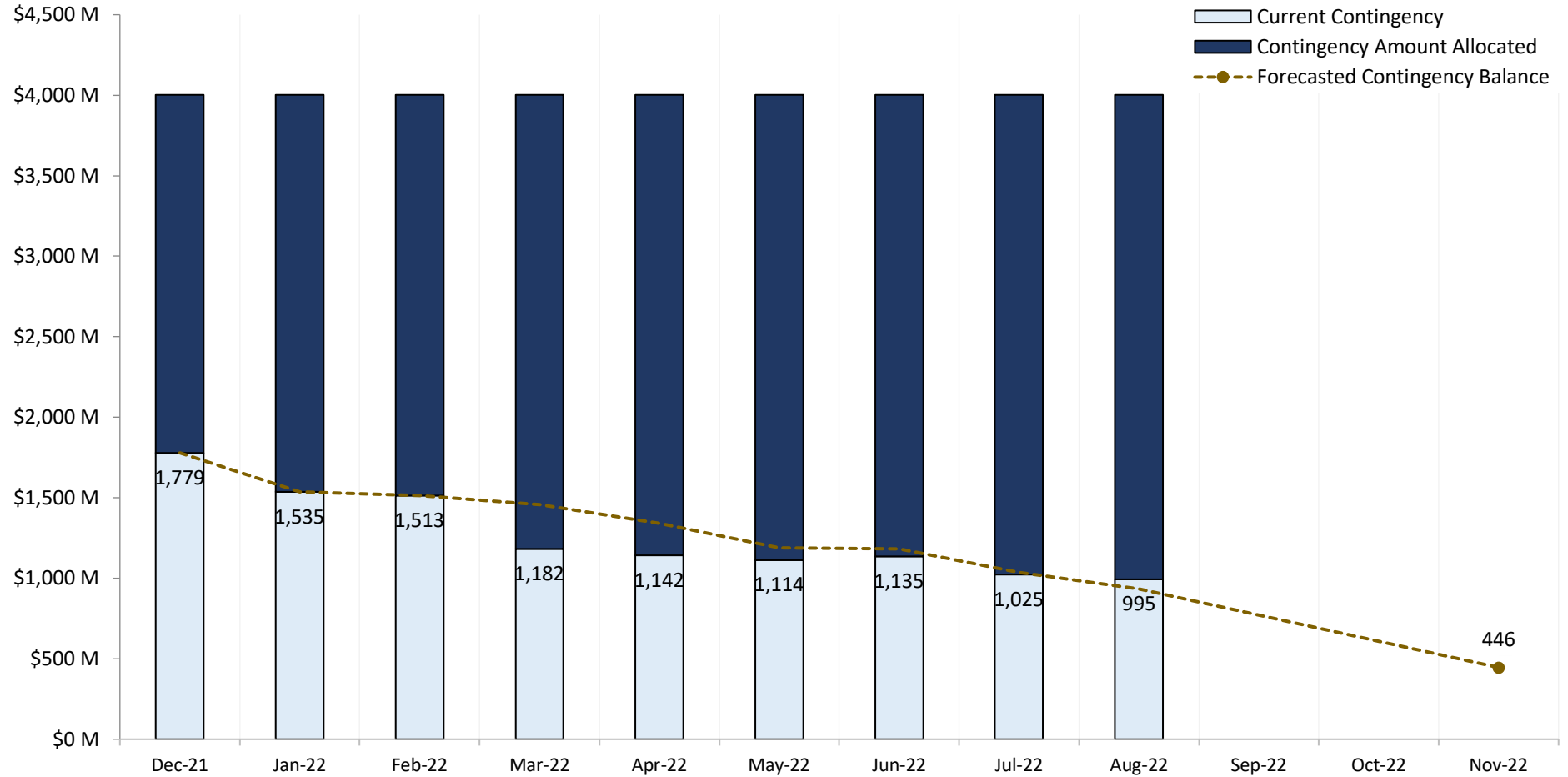


Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. August 2022 Expenditures totaled \$43.7M:
 - a. Construction Package 1 – Expenditures totaled \$12.4M.
 - b. Construction Package 2-3 – Expenditures totaled \$19.4M.
 - c. Construction Package 4 – Expenditures totaled \$11.9M.

CP 1-4 – Risk Contingency

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

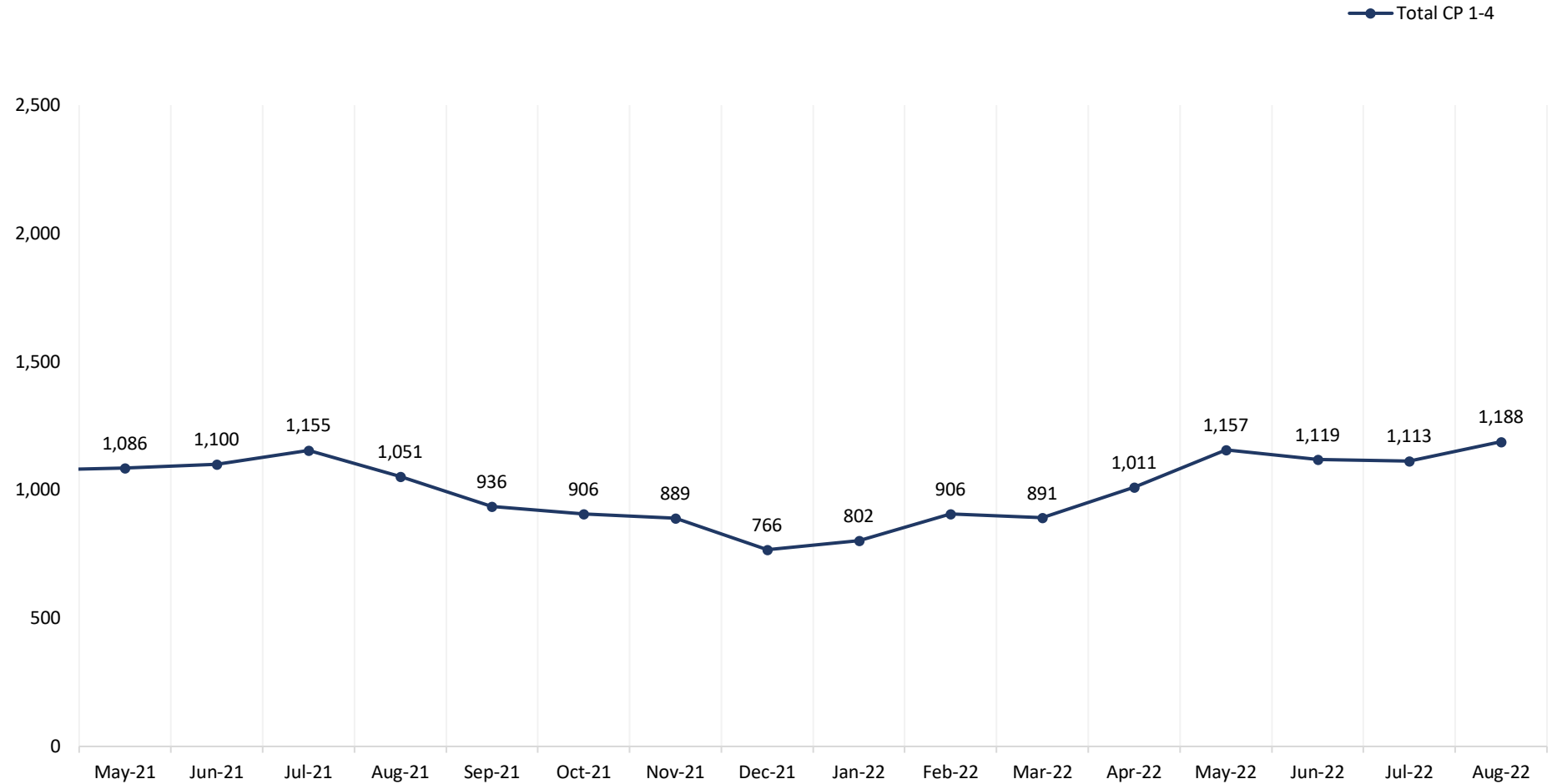


Notes:

1. Program baseline is \$4,000.7M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (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

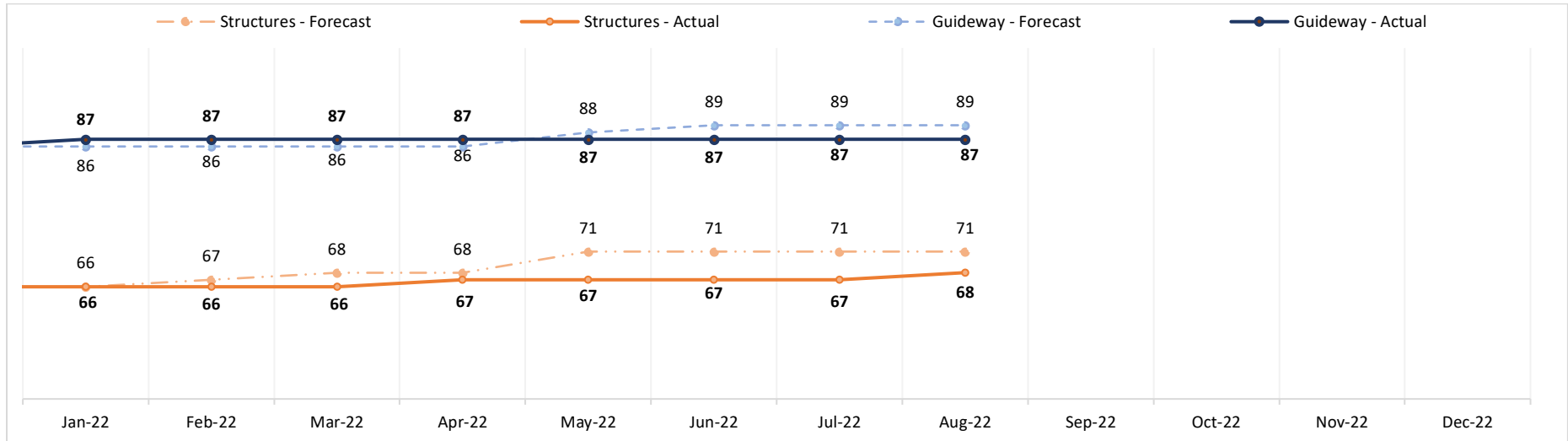
CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- 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. August 2022, Average Daily Site Workers (by week) – 1,188 workers. An increase of 75 workers from the previous period (from 1,113):
 - a. Construction Package 1 (Page 17) – 257 workers. An increase of 20 workers from the previous month (237).
 - b. Construction Package 2-3 (Page 26) – 660 workers. An increase of 42 workers from the previous month (618).
 - c. Construction Package 4 (Page 37) – 271 workers. An increase of 13 workers from the previous month (258).

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	
Structures	12	14	17	14	8	3	37	31	68
Guideway	15	2	15	33	8.4	13.6	38.4	48.6	87

Notes:

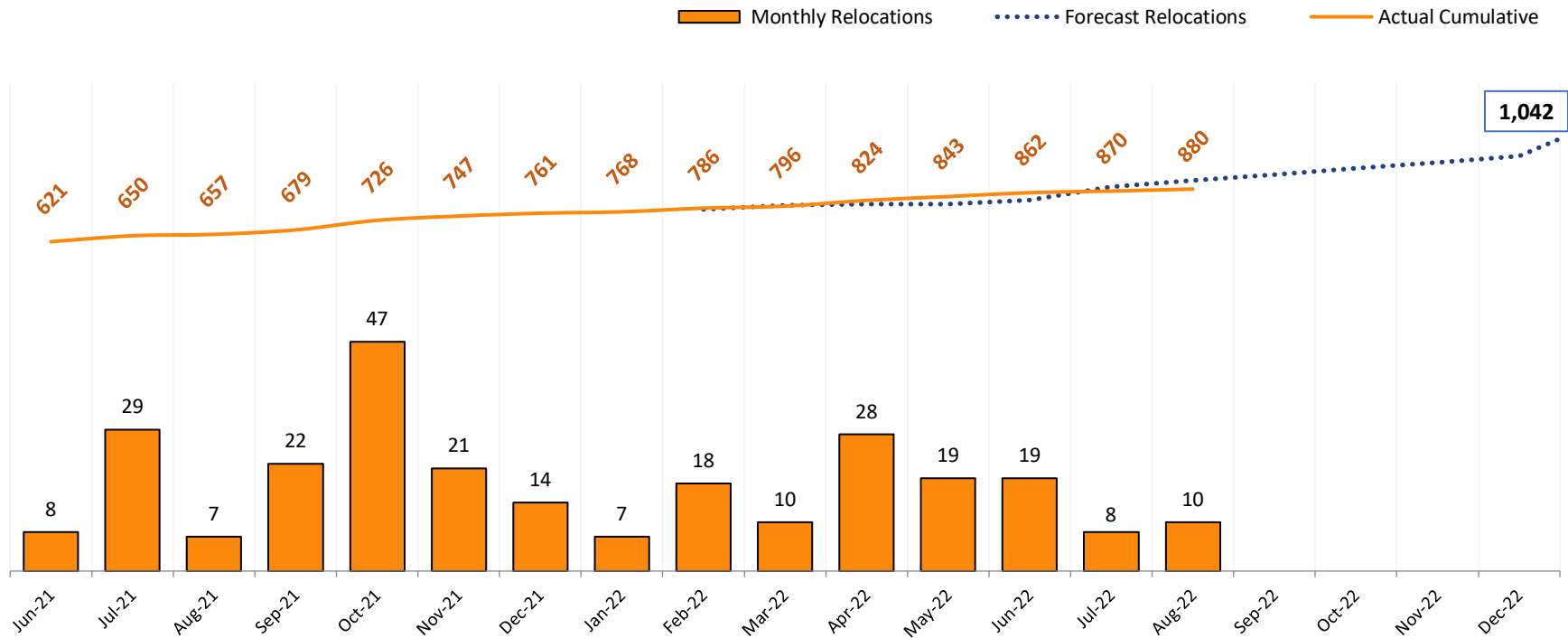
1. The chart above incorporates provisional forecast numbers pending submission and approval of Revised Baseline Schedules (RBS) Revision 3.
2. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
3. Total Structures: 93
4. Structures – 68 underway/Construction complete compared to 93 structures total. (73%) An increase of one from the previous period.
 - a. CP 1 – 26 structures underway/Construction complete. Structures behind, Central Avenue (PG&E/Malaga Water District), estimated start January 2023 and Avenue 17 (PG&E/County of Madera) estimated start April 2023.
 - b. CP 2-3 – 31 structures underway/Construction complete. Grangeville delay is due to utility relocation of SCE transmission line, scheduled to start November 2022. Alpaugh Allensworth Atwell Trails (AAAT) environmental Incidental Take Permit (ITP) was issued and work is scheduled to start early December 2022.
 - c. CP 4 – 11 structures underway/Construction complete.
5. Total Guideway: approximately 119 miles
6. Guideway – 87 miles underway/Construction complete compared to 119 miles total. (73%) No change from the previous period.
 - a. CP 1 – 17 miles underway/Construction complete. One mile behind the forecast. Jensen Trench is awaiting multiple utility relocations and that portion of the guideway will not be complete before 2024. The plan is to catch up to projections across other guideway activities.
 - b. CP 2-3 – 48 miles underway/Construction complete. One mile behind south of Dutch John, designs completed in June 2022. Scheduled to start December 2022.
 - 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 August 31, 2022	Total Utilities Relocated to Date August 31, 2022	Remaining Utility Relocations August 31, 2022
CP 1	992	376	616
CP 2-3	705	413	292
CP 4	166	91	75
Total	1,863	880	983

CP 1-4 – Utility Relocation Status Summary-Monthly



Notes:

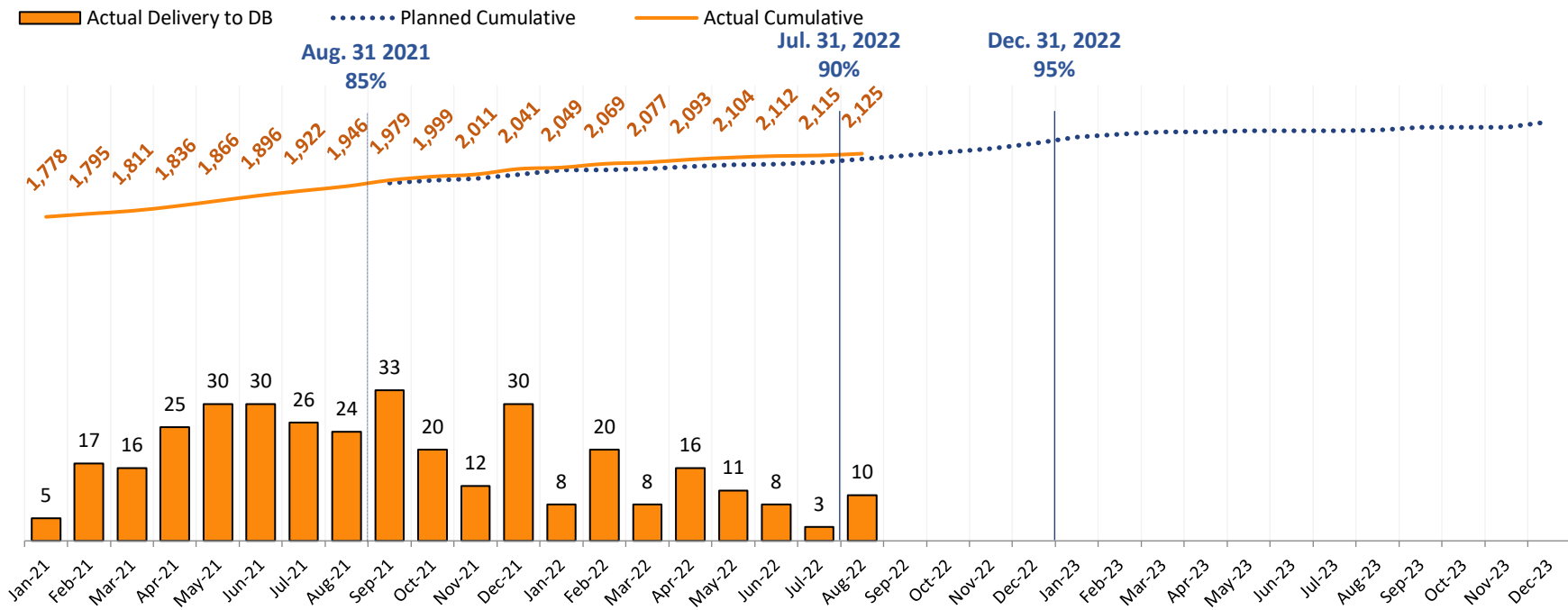
1. In Progress 372 (20%).
2. Approved to start 64 (4%).
3. Not Started 547 (29%).

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

CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2022	Total Parcels Delivered to Date August 31, 2022	Remaining Parcels to be Delivered August 31, 2022
CP 1	1,082	1,011	71
CP 2-3	988	913	75
CP 4	251	201	50
Total	2,321	2,125	196

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



Notes:

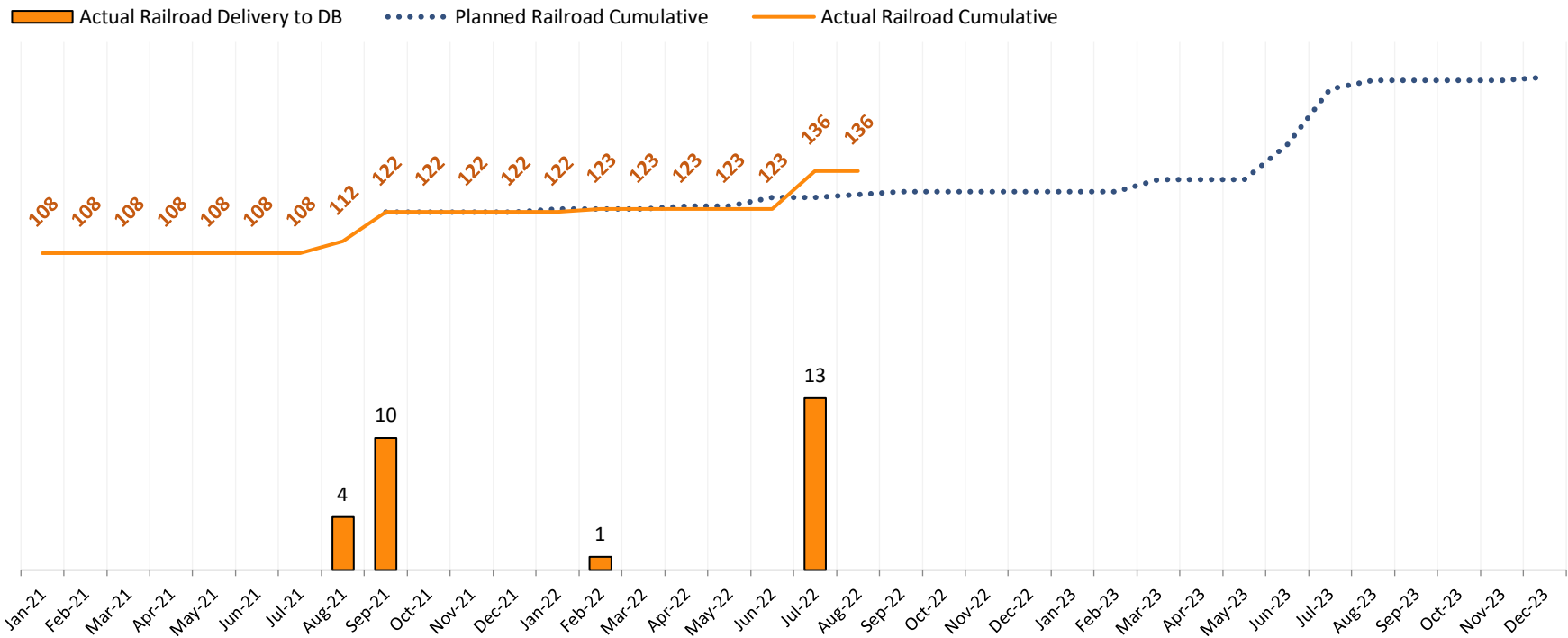
1. This reflects the actual parcels delivered to the Design-Builders by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4. The 90% and 95% milestone completion does not include any additional parcels that may be added.
2. Delivery to Design Builder 90% milestone completion was achieved for CP1-4 in March 2022.
3. Total Needed Parcels increased by 12 parcels. 17 parcels added to meet Third Party design requirements and five parcels removed due to design refinement reducing impacts to real property.

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 August 31, 2022	Total Railroad Parcels Delivered to Date August 31, 2022	Remaining Railroad Parcels to be Delivered August 31, 2022
CP 1	83	57	26
CP 2-3	56	50	6
CP 4	29	29	0
Total	168	136	32

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



Notes:

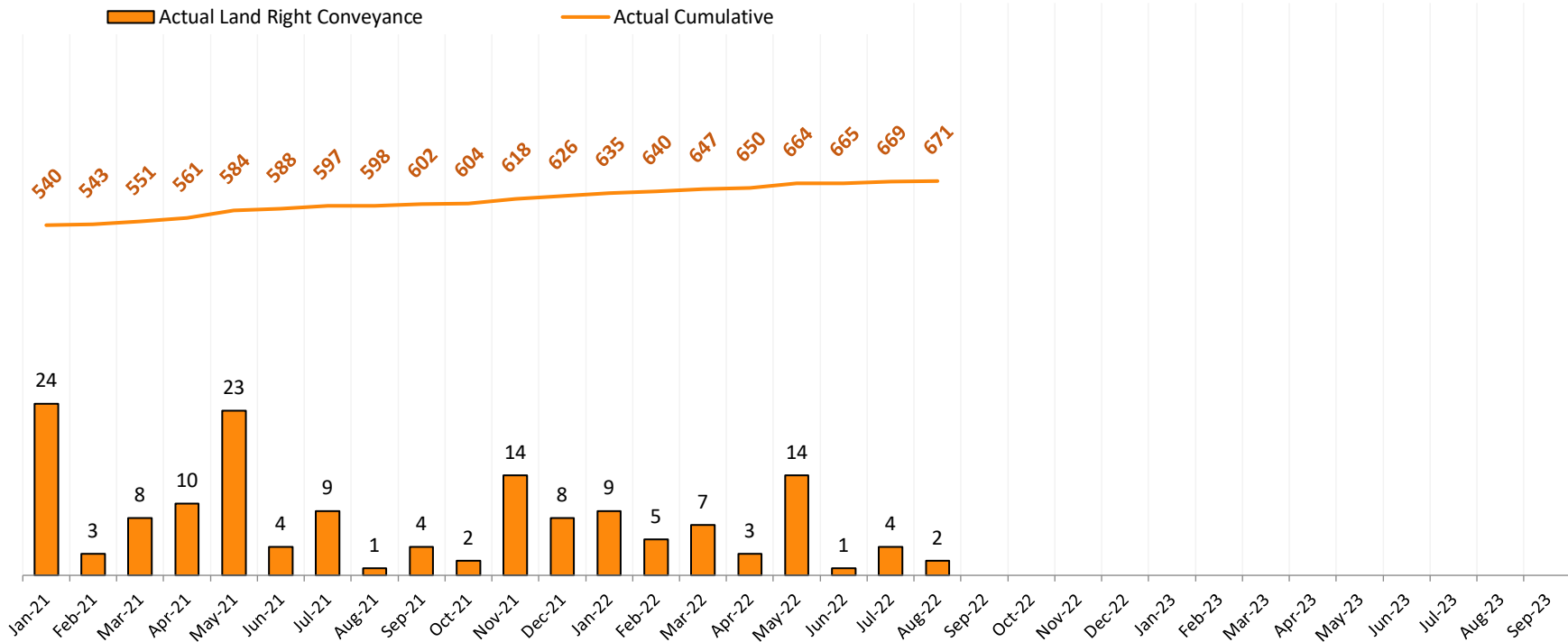
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

CP 1-4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

CP 1-4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Right Conveyances August 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ August 31, 2022	Remaining Land Right Conveyances to be Approved August 31, 2022
CP 1	393	344	49
CP 2-3	433	280	153
CP 4	88	47	41
Total	914	671	243

CP 1-4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

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⁾ :	03/04/2024
Current Forecast Construction Completion Date⁽³⁾:	12/29/2023

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:	\$1,796,120,639.24
Current Contract Amount:	\$2,819,108,639.24
Approved Invoices to Date:	\$1,845,576,163.06
Remaining Contract Balance:	\$973,532,476.18

Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded:	2,099
Current Forecast Contract Days:	3,727
Calendar Days Worked (thru 08/31/2022):	3,242

Expended to Date

Description	Percentage
Time:	87.0%
Dollars:	65.5%

Growth Percentage

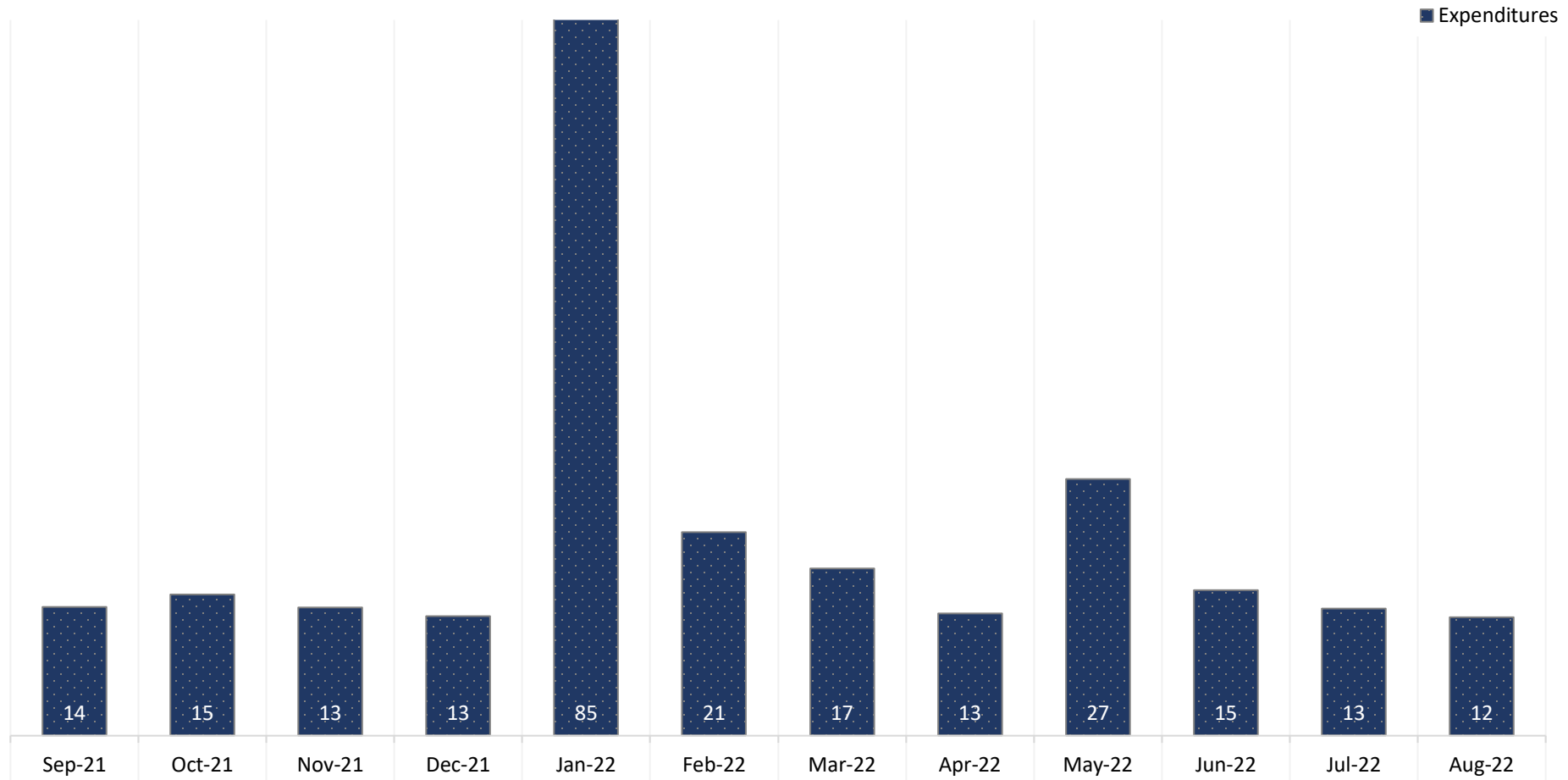
Description	Percentage
Time:	128.9%
Dollars:	175.6%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – December 29, 2023.
- Subject to finalization of Revised Baseline Schedules (RBS) Revision 3 and execution of contract changes of any time extensions.
- 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 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 \$12.4M.

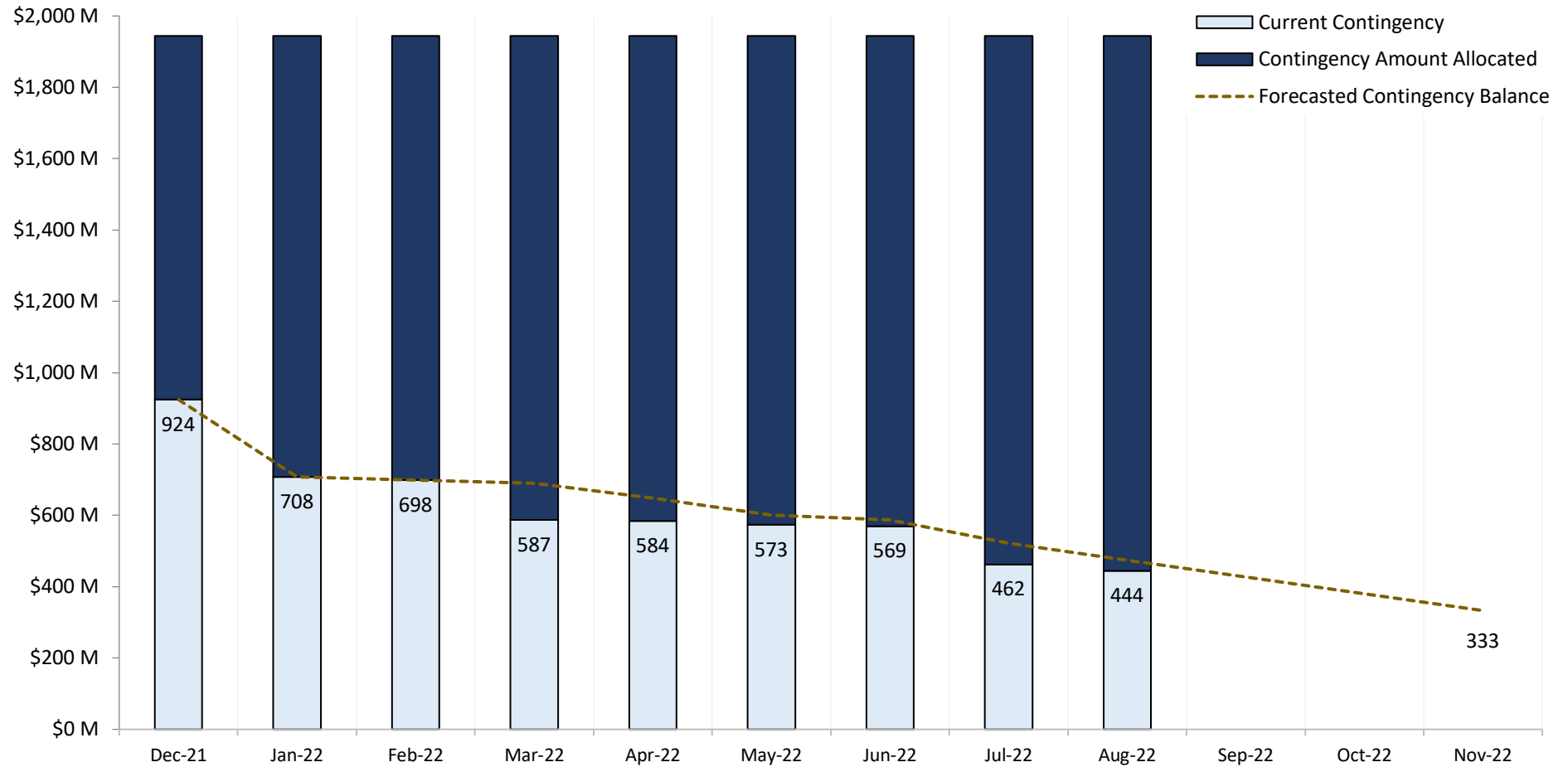
CP 1 – Change Orders (CO)

CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00236.01	City of Fresno Fees	Executed	\$2,058,817.00	08-09-22
00088.11	CP 1 Additional Environmental Services	Executed	\$13,500,000.00	08-24-22
00413.1	Caltrans SR99 Realignment (Clinton to Ashlan) - Design T & M	Executed	\$2,300,000.00	08-31-22
TOTAL			\$17,858,817.00	

CP 1 – Risk Contingency

CP 1 – Risk Contingency Status (\$ Millions)

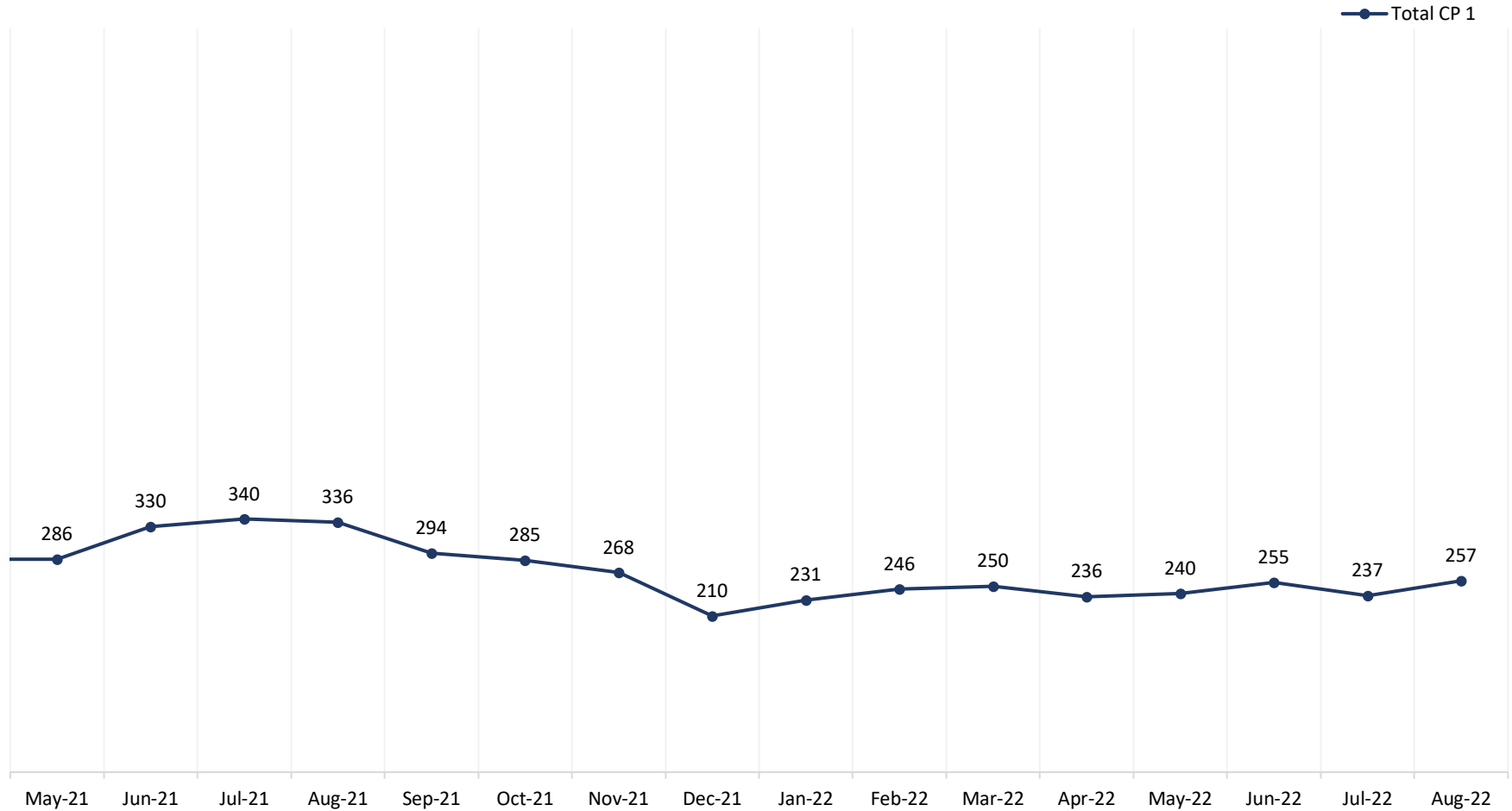


Notes:

1. Program baseline is \$1,945M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (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 1 – Monthly Construction Labor

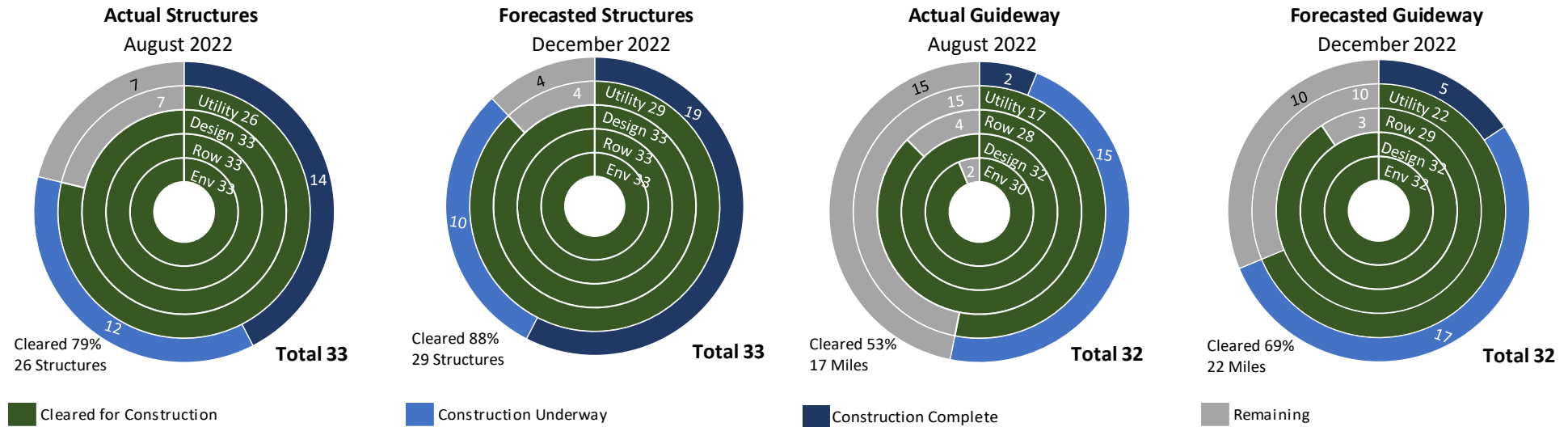
CP 1 – Monthly Construction Workforce Total – Actual (FTE)



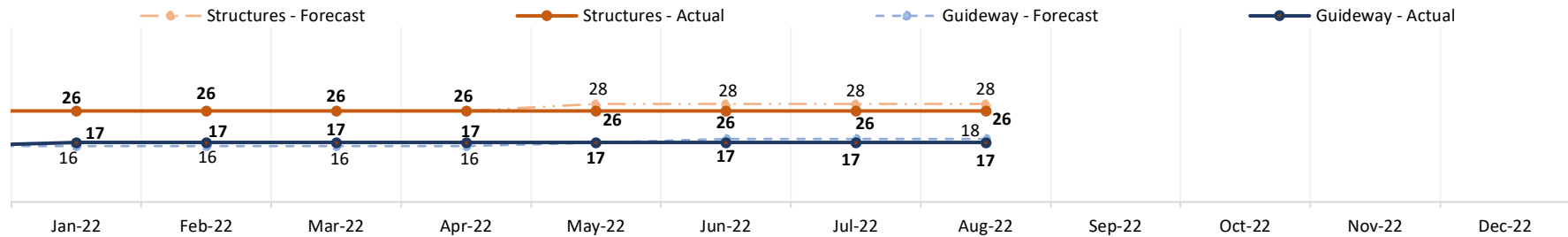
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 20 workers from the previous month (237).

CP 1 – Construction Progress

CP 1 – Construction Progress



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



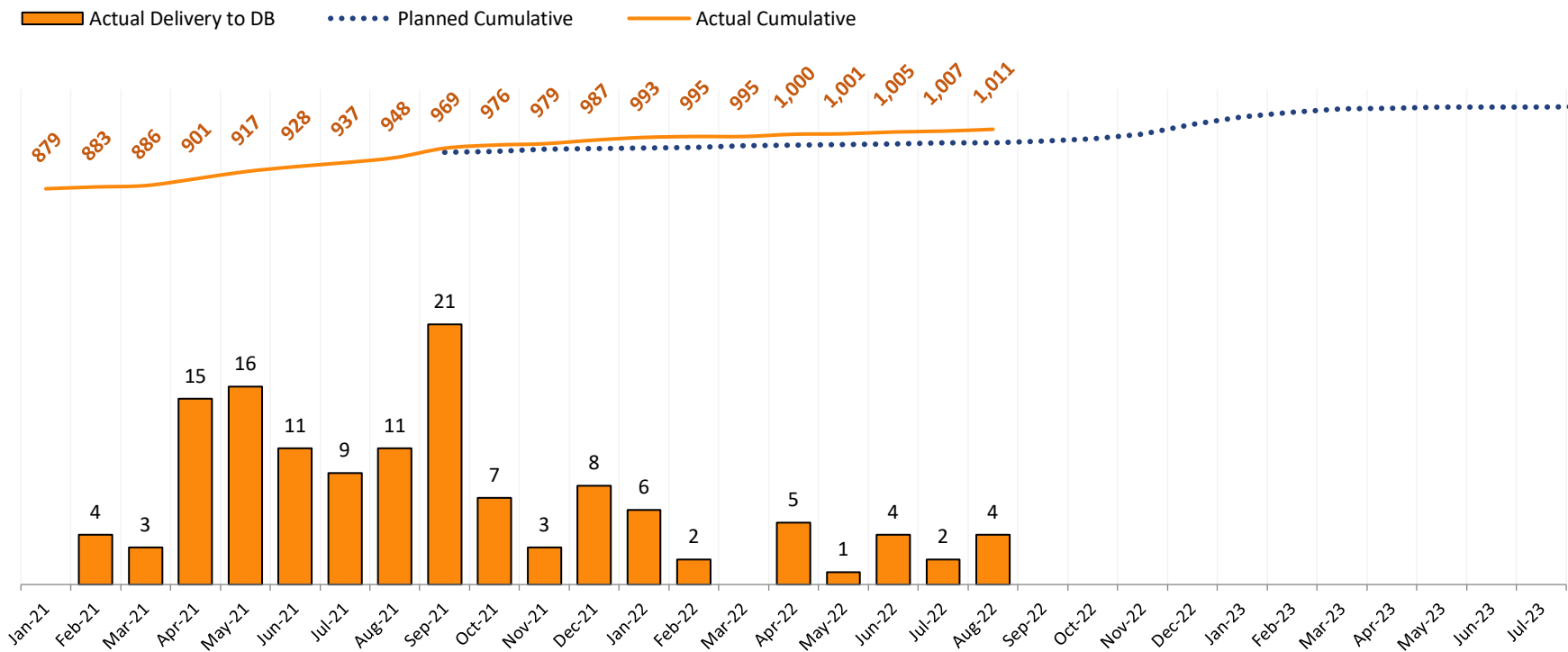
- Notes:**
- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
 - The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
 - Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
 - Total Structures: 33
 - 26 structures underway/construction complete. Structures behind at Central Avenue (PG&E/Malaga Water District) and Avenue 17 (PG&E/County of Madera). Latest forecasts indicate Central Avenue starting January 2023 and Avenue 17 starting April 2023.
 - Total Guideway: 32 miles
 - 17 miles underway/Construction complete. One mile behind the forecast. Jensen Trench is awaiting multiple utility relocations and that portion of the guideway will not be complete before 2024. The plan is to catch up to projections across other guideway activities.
 - The 40 design submissions included 33 Structure packages, 6 packages covering the 32 miles of guideway and one for Sweeper Package designs for viaducts and trenches at various locations (hence term “Sweeper”) to include stairways, walkways, duct trenches and various other advance Track and Systems requirements. 33 Structure packages approved by the Authority, but only 30 approved by third parties. There are 32 miles of guideway approved by the Authority, but 2.5 miles (Caltrans section) have not been approved by Union Pacific Railroad (UPRR).

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

CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2022	Total Parcels Delivered to Date August 31, 2022	Remaining Parcels to be Delivered August 31, 2022
CP 1	1,082	1,011	71

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



Notes:

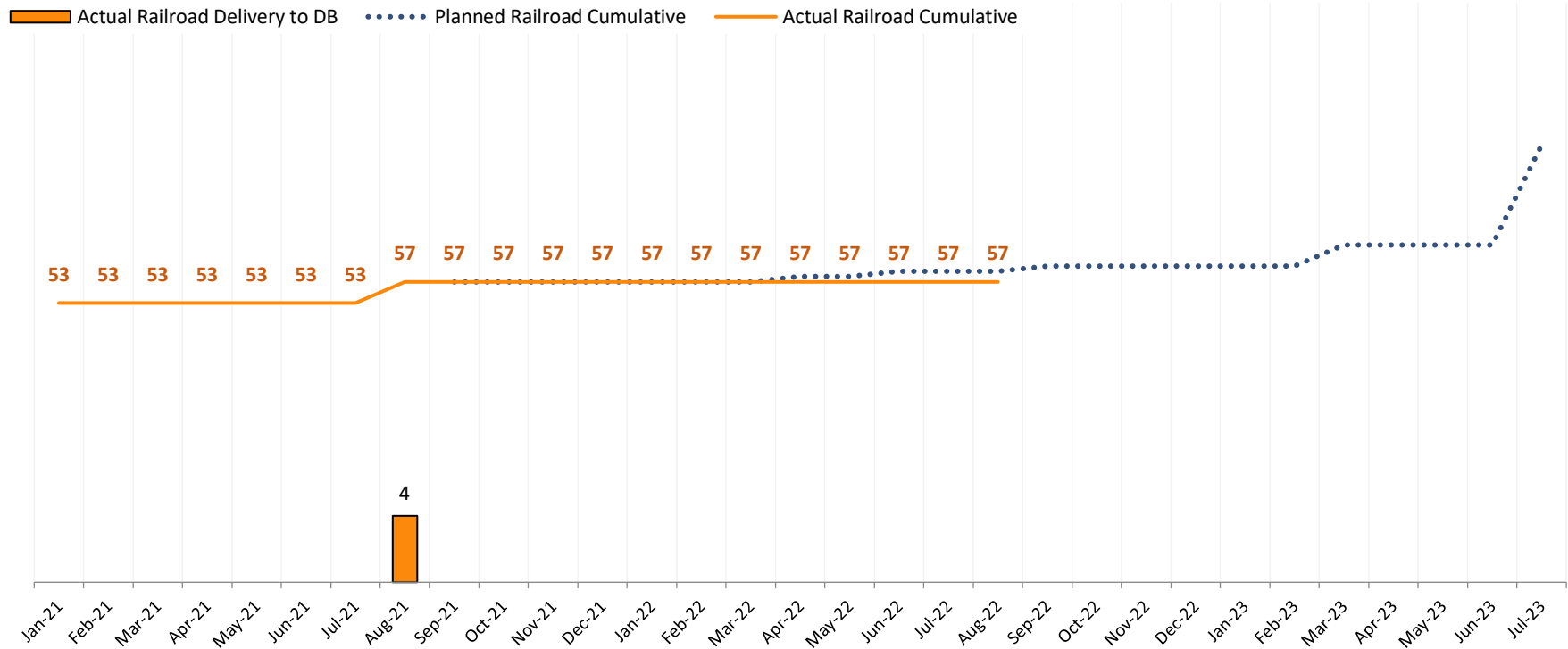
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedules (RBS) Revision 3.
2. Total Needed Parcels increased by 3 parcels. Four parcels added to meet Third Party design requirements and one parcel removed due to design refinement reducing impacts to real property.

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

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

Construction Package	Total Needed Railroad Parcels August 31, 2022	Total Railroad Parcels Delivered to Date August 31, 2022	Remaining Railroad Parcels to be Delivered August 31, 2022
CP 1	83	57	26

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



Note:

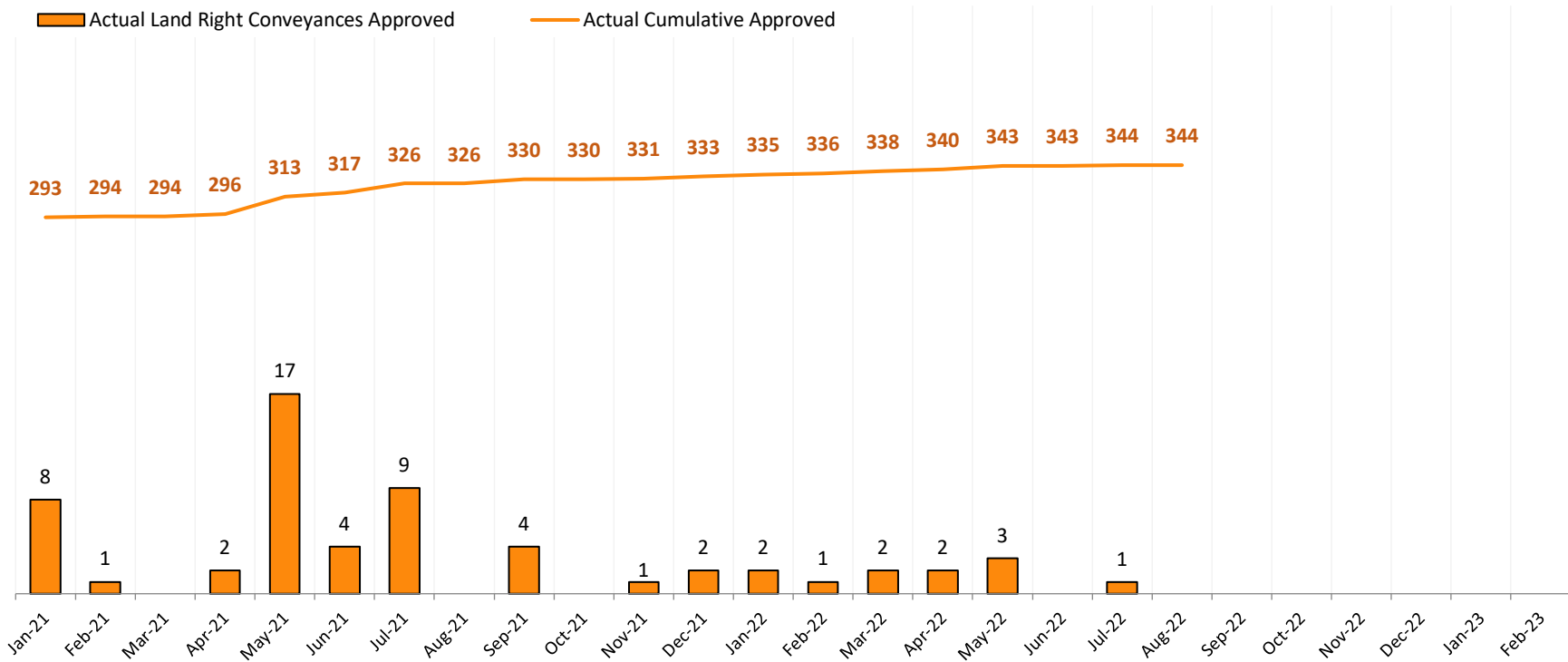
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

CP 1 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

CP 1 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Right Conveyances August 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date August 31, 2022	Remaining Land Right Conveyances to be Approved August 31, 2022
CP 1	393	344	49

CP 1 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

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⁾ :	03/06/2024
Current Forecast Construction Completion Date⁽³⁾:	12/31/2023

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:	\$1,063,835,947.42
Current Contract Amount:	\$2,429,171,837.42
Approved Invoices to Date:	\$1,666,361,849.01
Remaining Contract Balance:	\$762,809,988.41

Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded:	1,595
Current Forecast Contract Days:	3,081
Calendar Days Worked (thru 08/31/2022):	2,594

Expended to Date Percentage

Description	Percentage
Time:	84.2%
Dollars:	68.6%

Growth Percentage

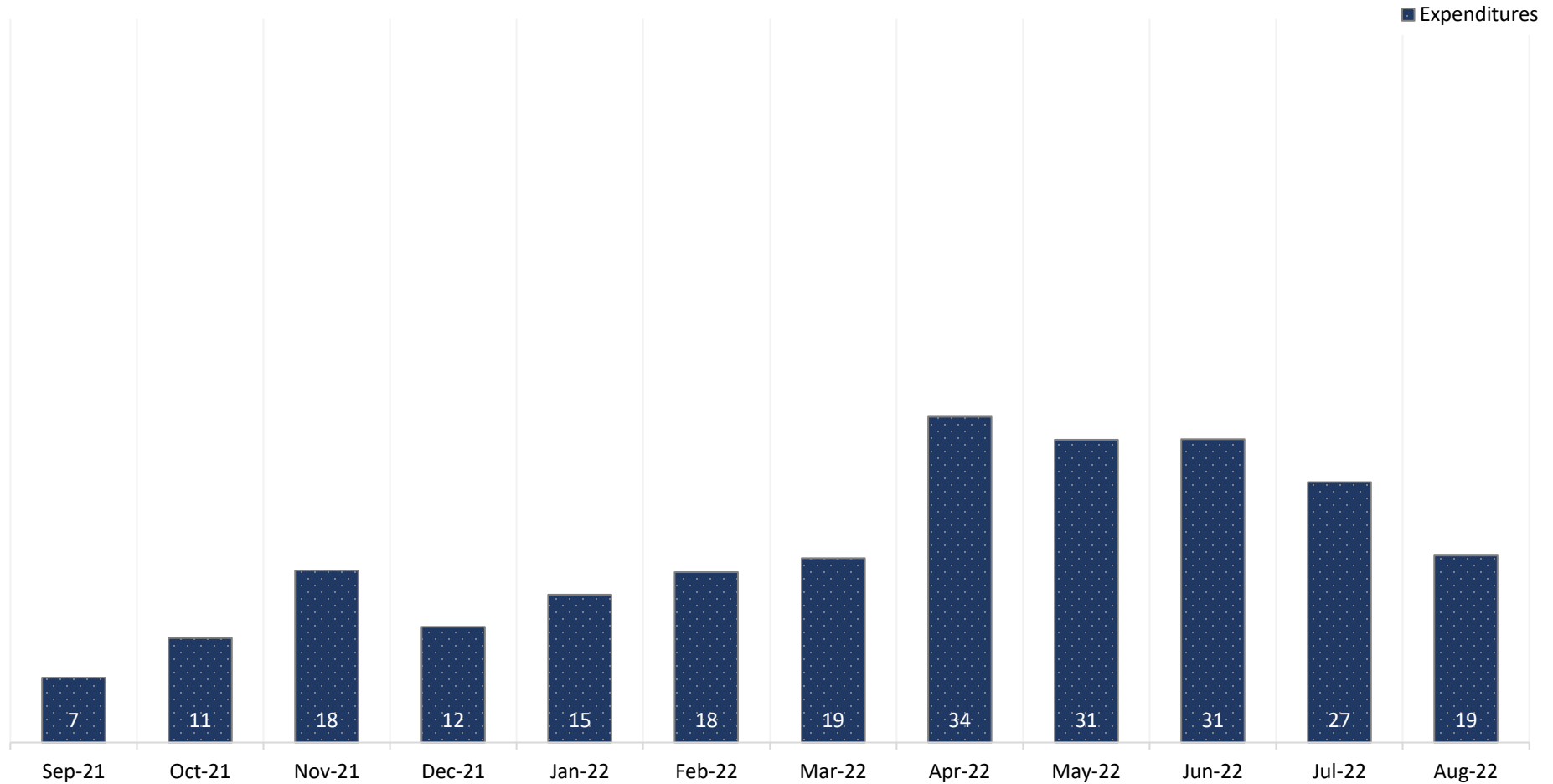
Description	Percentage
Time:	107.3%
Dollars:	77.9%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – December 31, 2023.
- Subject to finalization of Revised Baseline Schedules (RBS) Revision 3 and execution of contract changes of any time extensions.
- 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 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 \$19.4M.

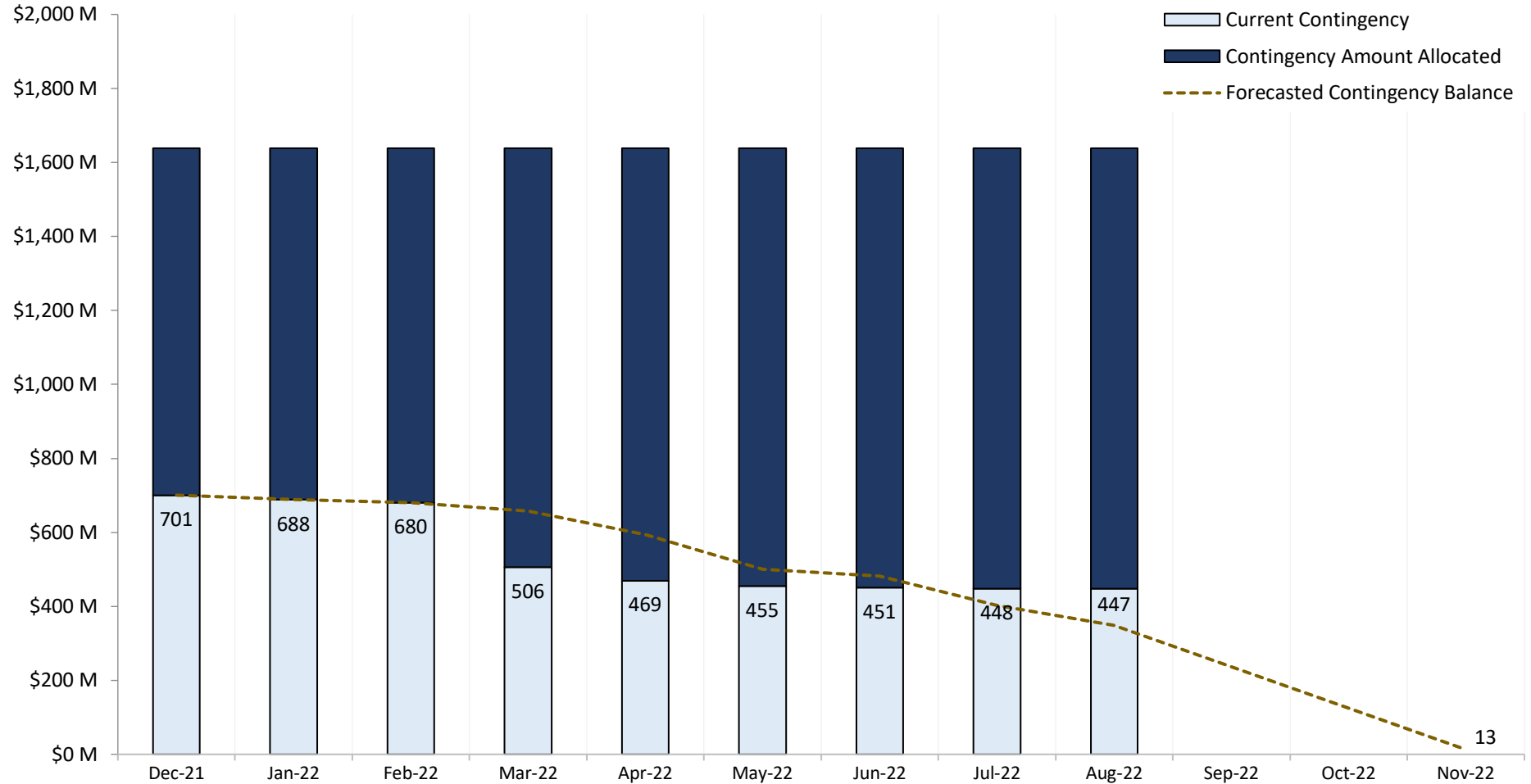
CP 2-3 – Change Orders (CO)

CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00325	Private Irrigation Crossings-Segment 2 (COP 221.16)	Executed	\$673,037.00	08-12-22
00309	Elimination of Elder Ave Grade Separation - DESIGN ONLY	Executed	(\$207,480.00)	08-10-22
00308	Elimination of Lincoln Ave Overcrossing - DESIGN ONLY	Executed	(\$113,112.00)	08-10-22
TOTAL			\$352,445.00	

CP 2-3 – Risk Contingency

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

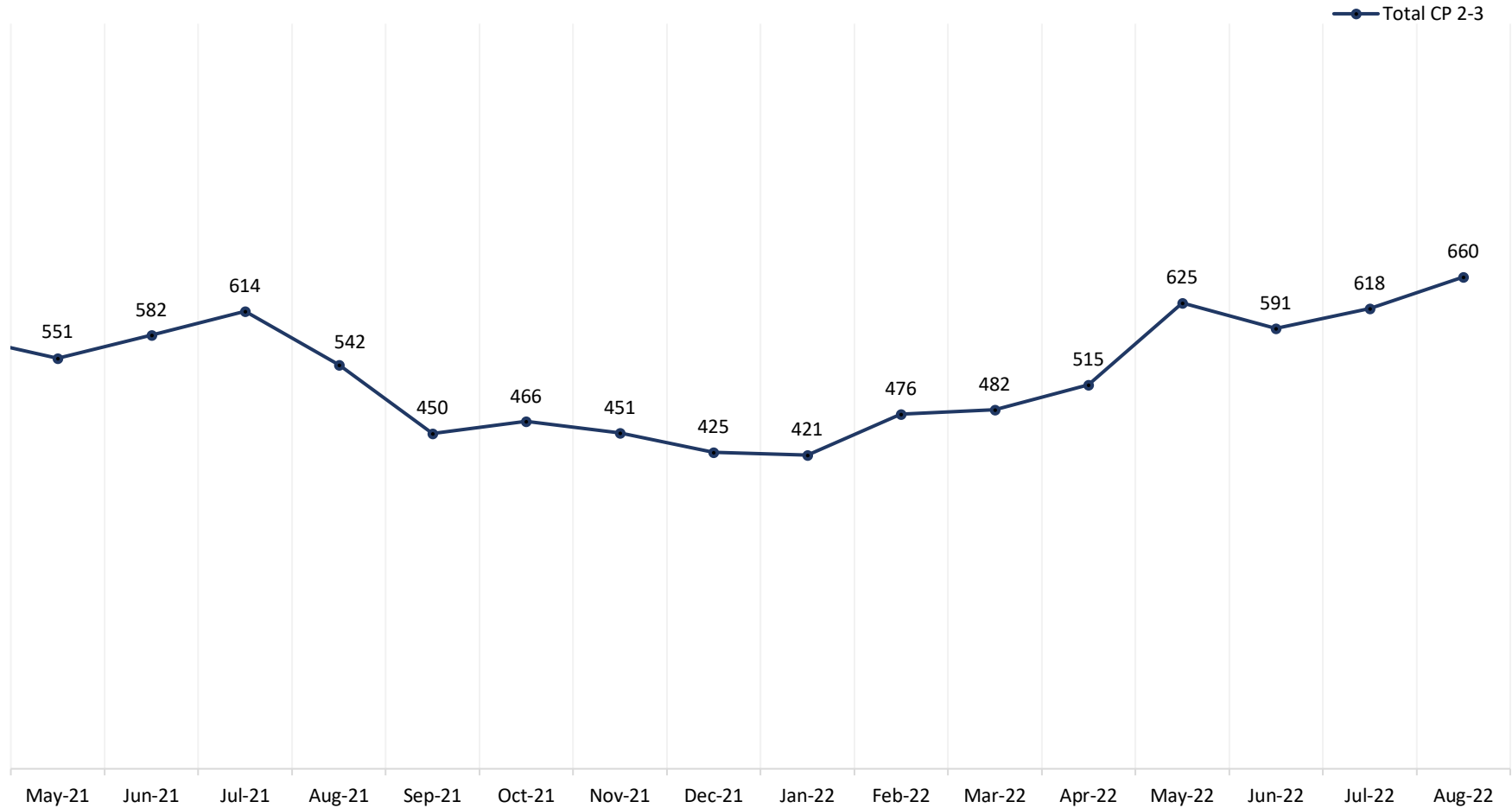


Notes:

1. Program baseline is \$1,638M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (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

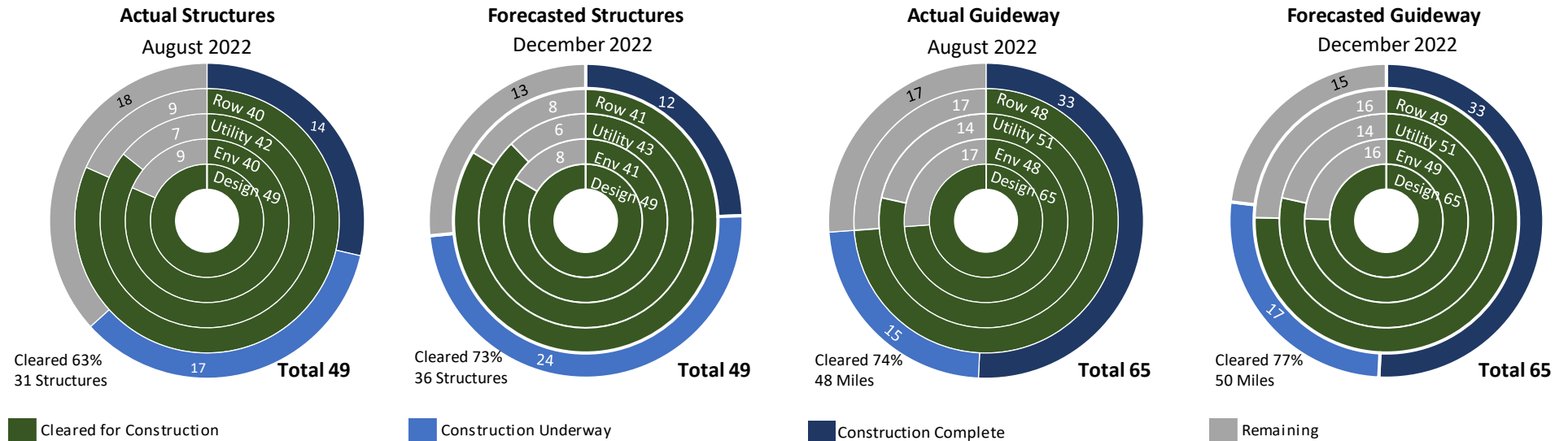
CP 2-3 – Monthly Construction Workforce Total – Actual (FTE)



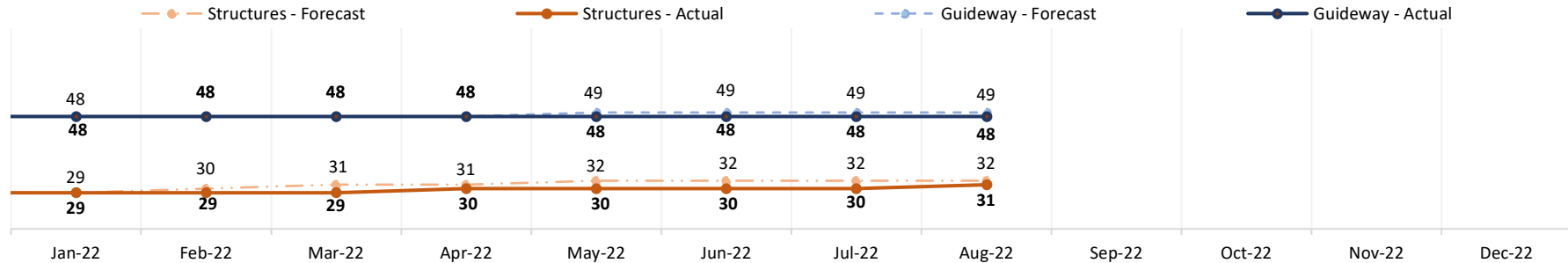
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 42 workers from the previous month (618).

CP 2-3 – Construction Progress

CP 2-3 – Construction Progress



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



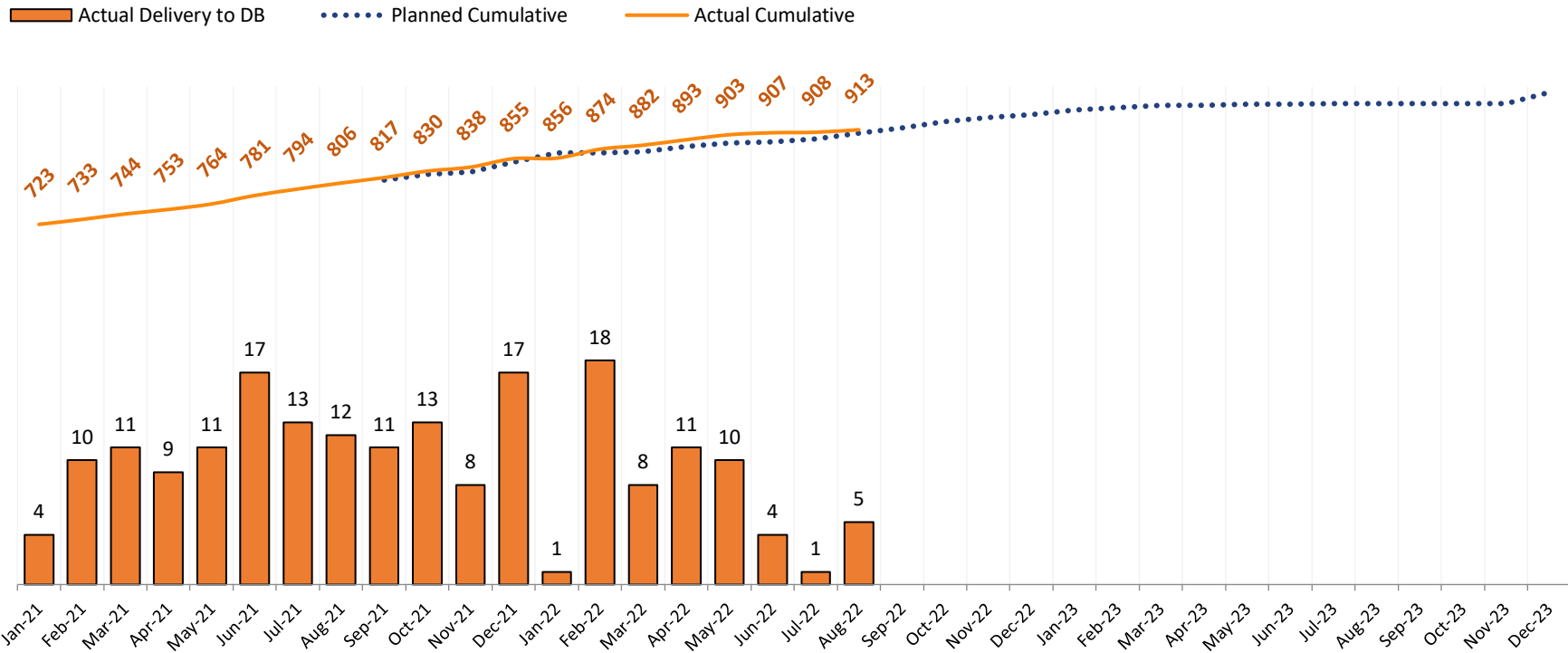
- Notes:**
- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
 - The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
 - Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
 - Total Structures: 49:
 - 31 structures underway/Construction complete. Grangeville delay is due to utility relocation of SCE transmission line, scheduled to start November 2022. Alpaugh Allensworth Atwell Trails (AAAT) environmental Incidental Take Permit (ITP) was issued and work is scheduled to start early December 2022.
 - Total Guideway: 65 miles:
 - 48 miles underway/Construction complete. One mile behind south of Dutch John, designs completed in June 2022, scheduled to start December 2022.
 - The 109 design submissions included 50 Structures (split submission at Tulare Viaduct), 6 submissions covering the 65 miles of guideway, 41 for roadways and access roads with the corridor with the remaining 12 for IPB Packages, special foundation designs and Alpaugh Pond.

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

CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2022	Total Parcels Delivered to Date August 31, 2022	Remaining Parcels to be Delivered August 31, 2022
CP 2-3	988	913	75

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



Notes:

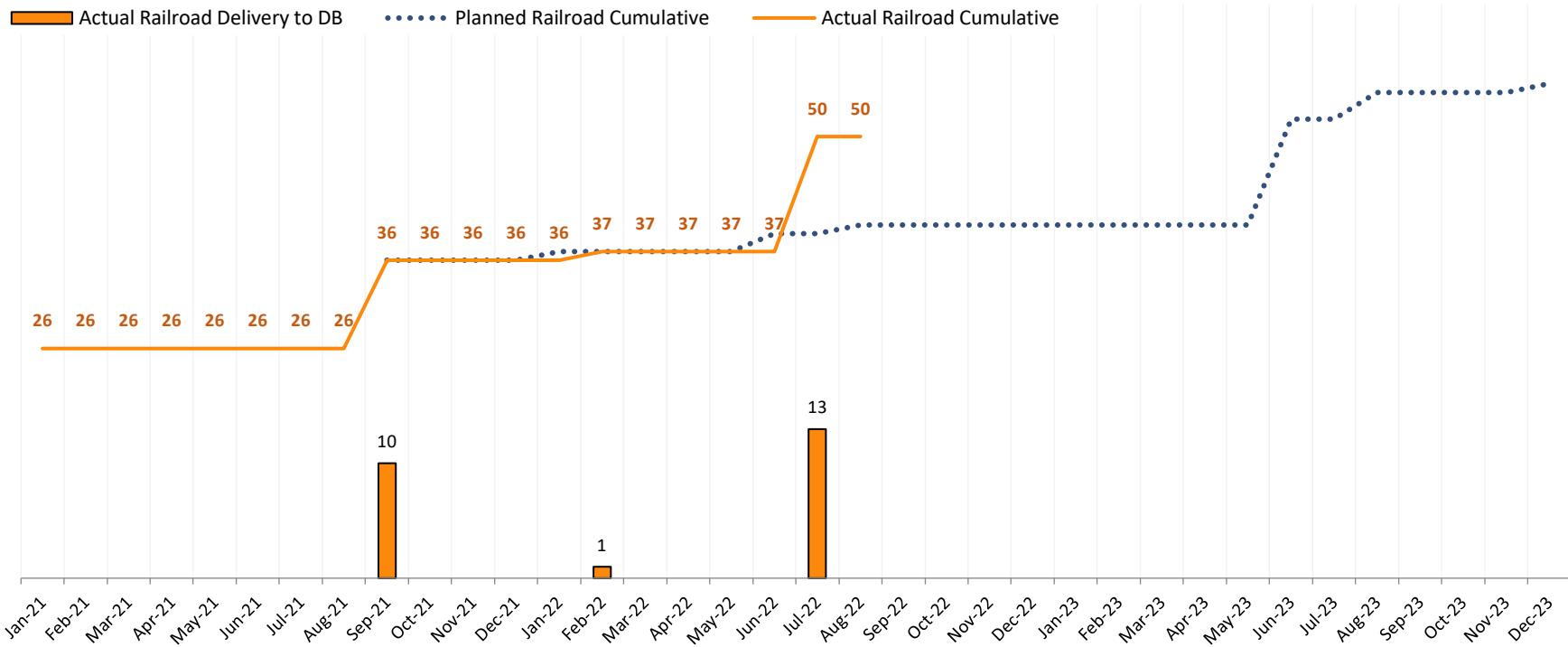
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedule (RBS) Revision 3.
2. Total Needed Parcels decreased by two parcels. Two parcels added to meet Third Party design requirements and four parcels removed due to design refinement reducing impacts to real property.

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 August 31, 2022	Total Railroad Parcels Delivered to Date August 31, 2022	Remaining Railroad Parcels to be Delivered August 31, 2022
CP 2-3	56	50	6

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



Notes:

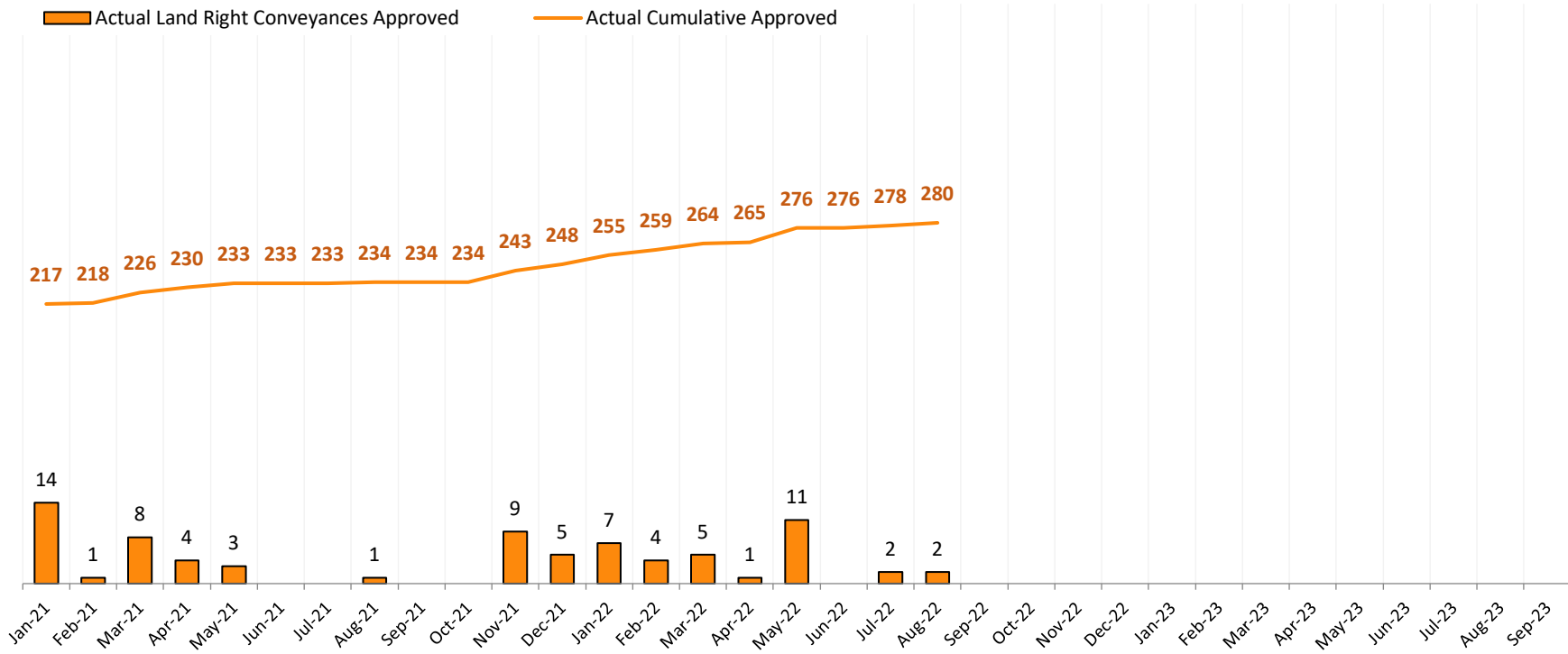
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.

CP 2-3 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

CP 2-3 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Right Conveyances August 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date August 31, 2022	Remaining Land Right Conveyances to be Approved August 31, 2022
CP 2-3	433	280	153

CP 2-3 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

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⁾ :	05/03/2023
Current Forecast Construction Completion Date⁽³⁾:	03/01/2023

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:	\$243,627,402.15
Current Contract Amount:	\$687,874,402.15
Approved Invoices to Date:	\$589,109,762.58
Remaining Contract Balance:	\$98,764,639.57

Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded:	1,367
Current Forecast Contract Days:	2,511
Calendar Days Worked (thru 08/31/2022):	2,329

Expended to Date

Description	Percentage
Time:	92.8%
Dollars:	85.6%

Growth Percentage

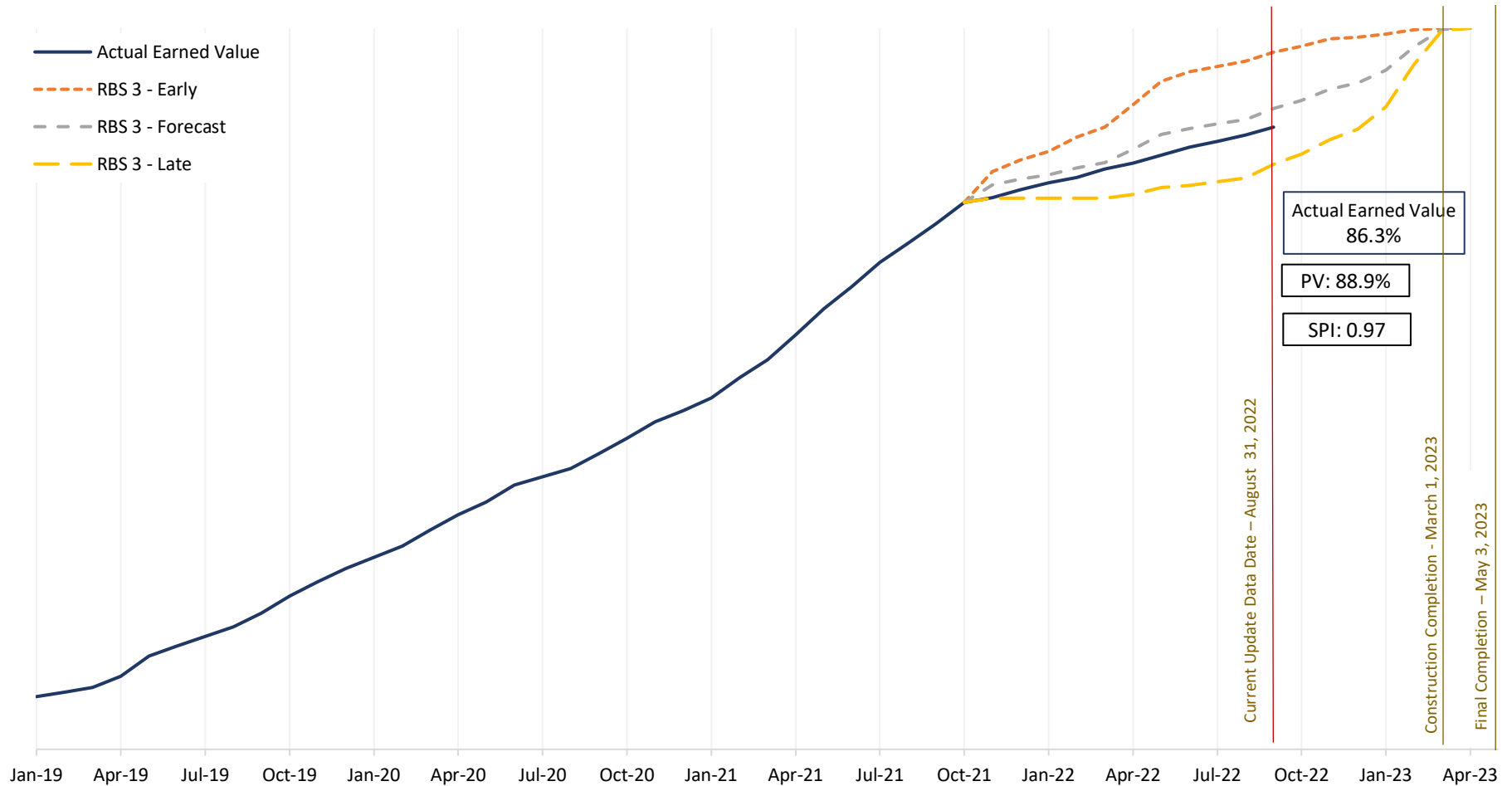
Description	Percentage
Time:	119.5%
Dollars:	54.8%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – March 1, 2023.
- 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 (%)

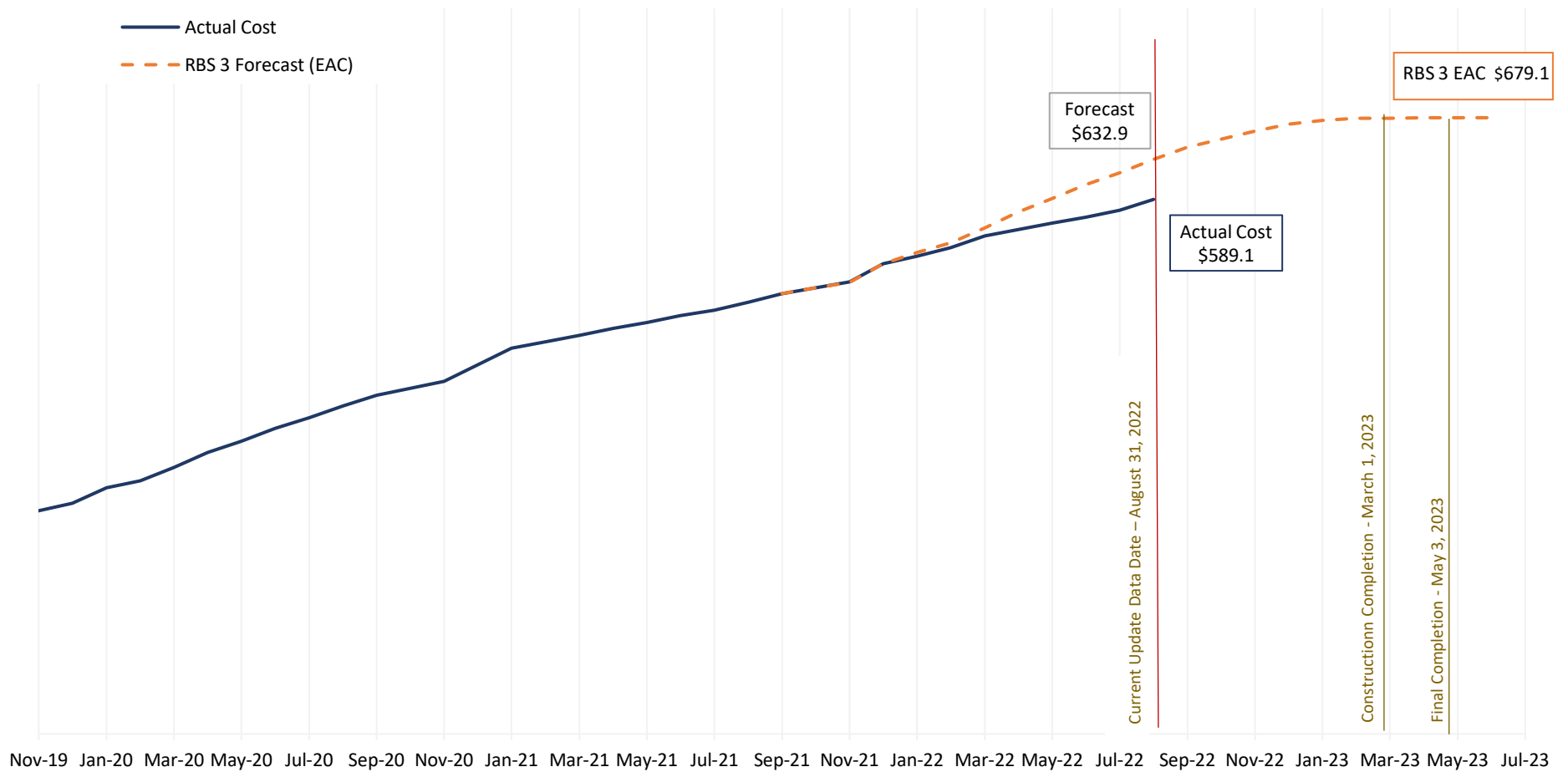


Notes:

1. The plan graphs are based on RBS Revision 3, which has a data date of October 1, 2021 and a construction completion date of March 1, 2023. Actual graph is as of August 31, 2022.
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.
7. The schedule update received shows Substantial Completion on May 8, 2023; mitigation measures are being implemented with the intent to bring the completion date back to March 1, 2023.

CP 4 – Cost Trend

CP 4 – Cost Trend Summary (\$ Millions)

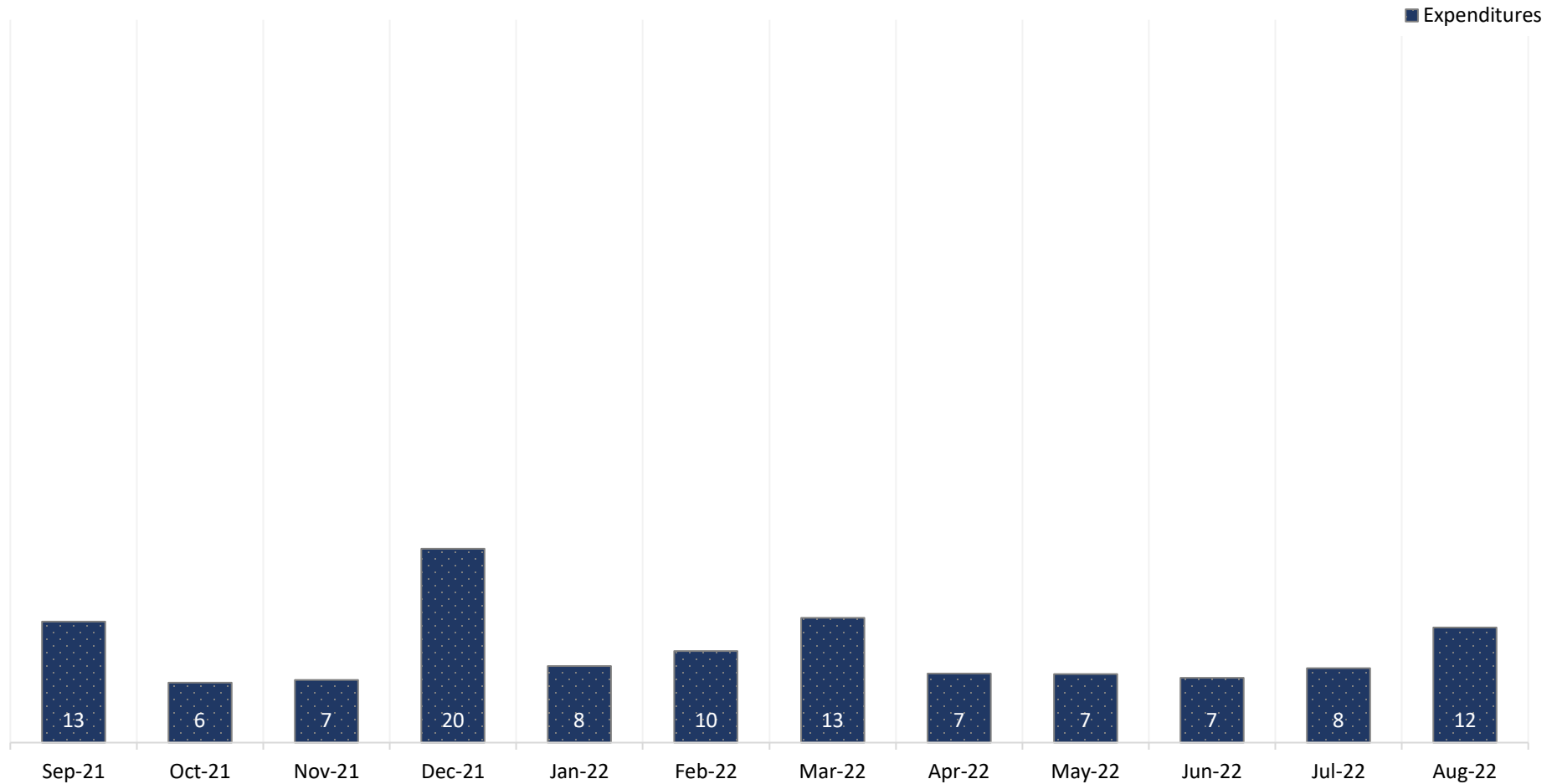


Notes:

1. The graph provides a comparison of the project actual cost performance against the target RBS3 Estimate at Completion (EAC).
2. The target EAC forecast is based on the contract value and the estimated cost of expected change orders.
3. The schedule update received shows Substantial Completion on May 8, 2023; mitigation measures are being implemented with the intent to bring the completion date back to March 1, 2023.

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 \$11.9M.

CP 4 – Change Orders (CO)

CP 4 – Change Order Status

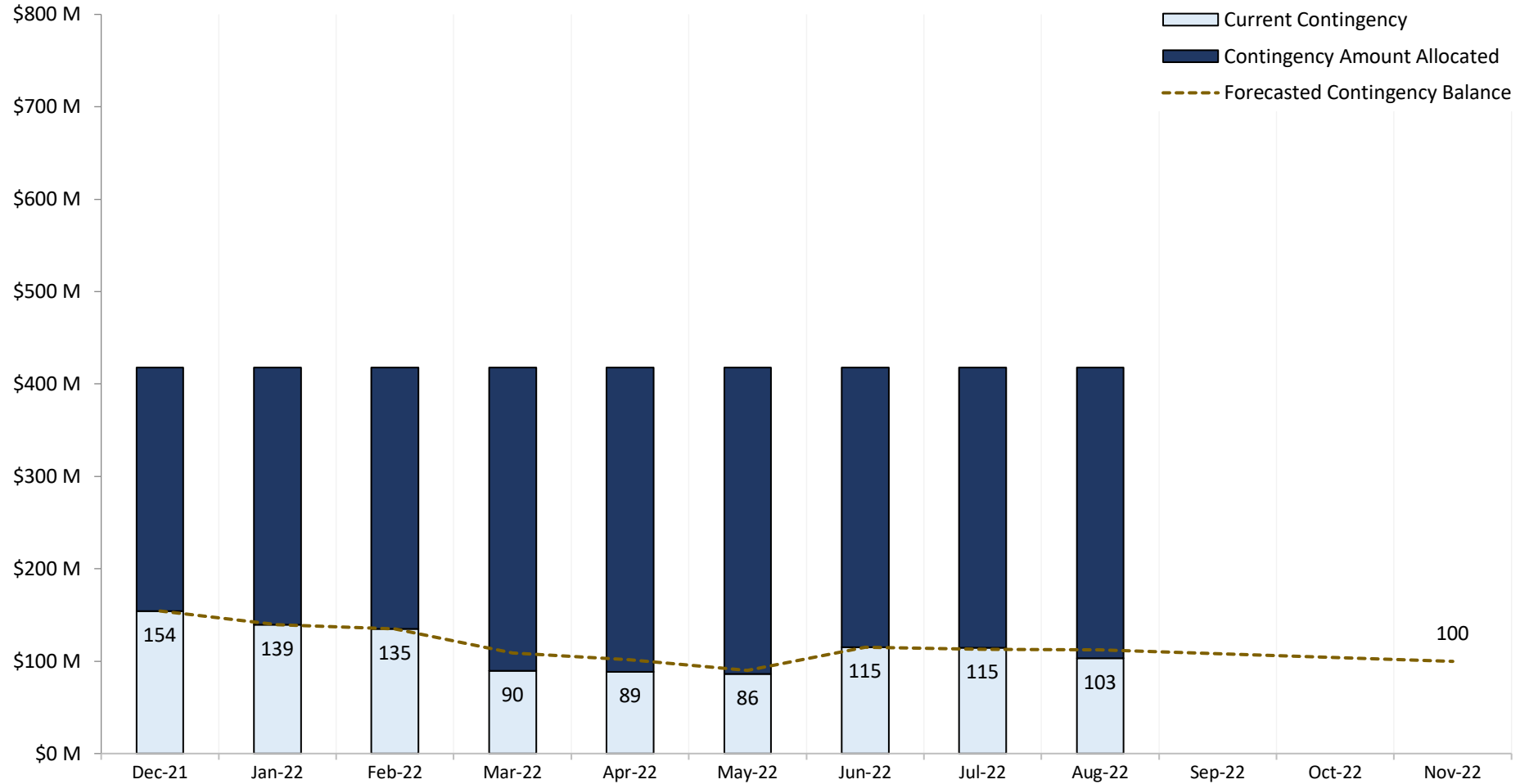
CO Number	Title	Change Status	Amount	Executed Date
135	Reduction of Utility Provisional Sum	Executed	(\$31,000,000.00)	08-27-22
144	Cable Troughs & Emergency Walkways	Executed	\$4,763,573.95	08-17-22
149	Environmental Monitoring Additional Costs from January 2022 through March 2022	Executed	\$527,463.57	08-24-22
151	PG&E Poso Alley Reconductor Mitigations	Executed	\$457,078.32	08-29-22
152	Relocated System Site Design Cost	Executed	\$52,035.64	08-27-22
153	Environmental Monitoring Additional Costs from March 2022 through April 2022	Executed	\$469,673.69	08-24-22
155	Insurance Premium Costs	Executed	\$5,421,961.05	09-06-22
TOTAL			(\$19,308,213.78)	

Note:

1. CO 155 was executed on September 6, 2022, HSR Management has allowed California Rail Builders (CRB) to invoice this item in the August billings.

CP 4 – Risk Contingency

CP 4 – Risk Contingency Status (\$ Millions)

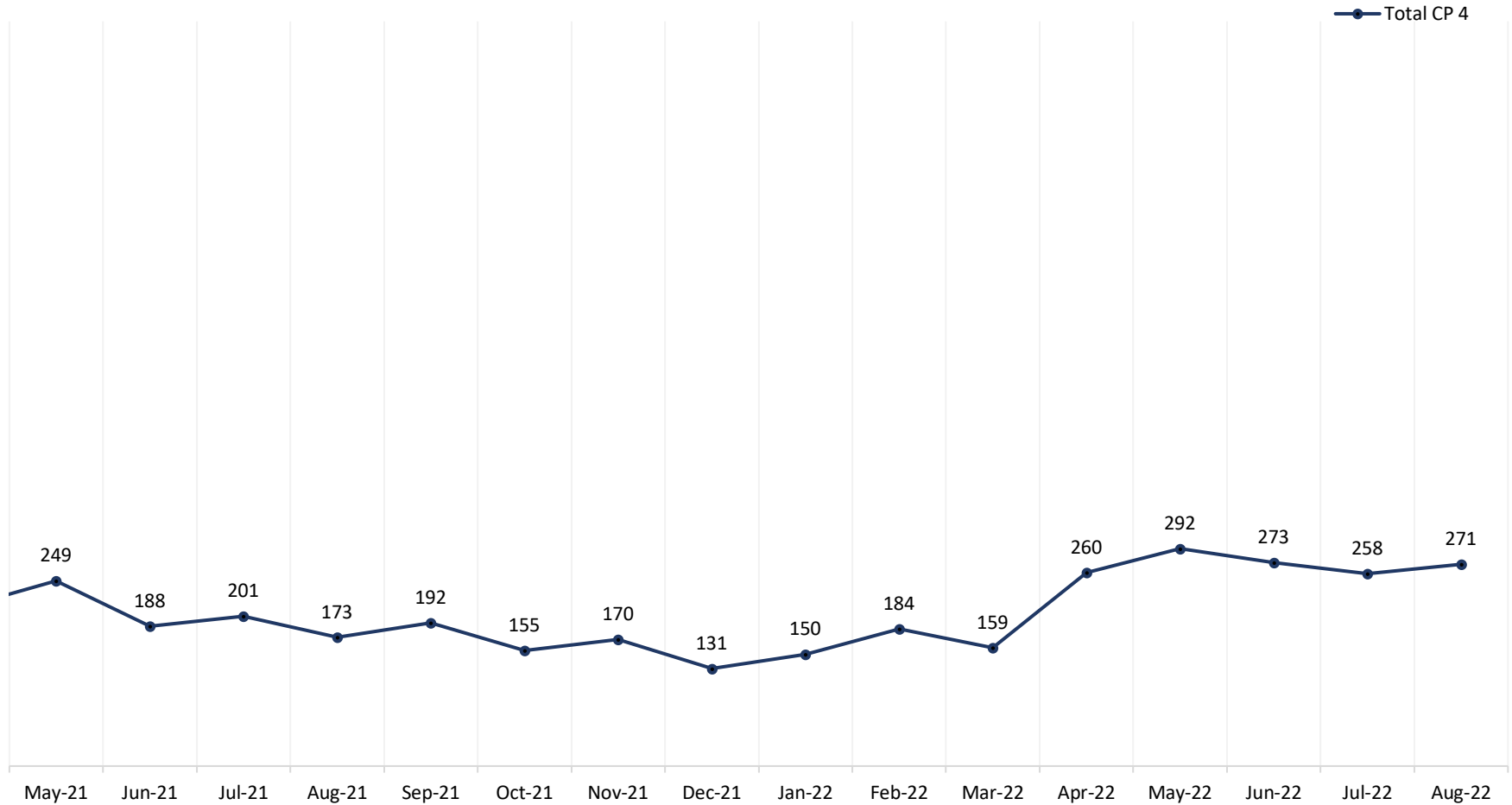


Notes:

1. Program baseline is \$418M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (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.
5. June 2022 increases due to \$31M Business Oversight Committee approved transfer of Utility Provisional Sum from contract to contingency.

CP 4 – Monthly Construction Labor

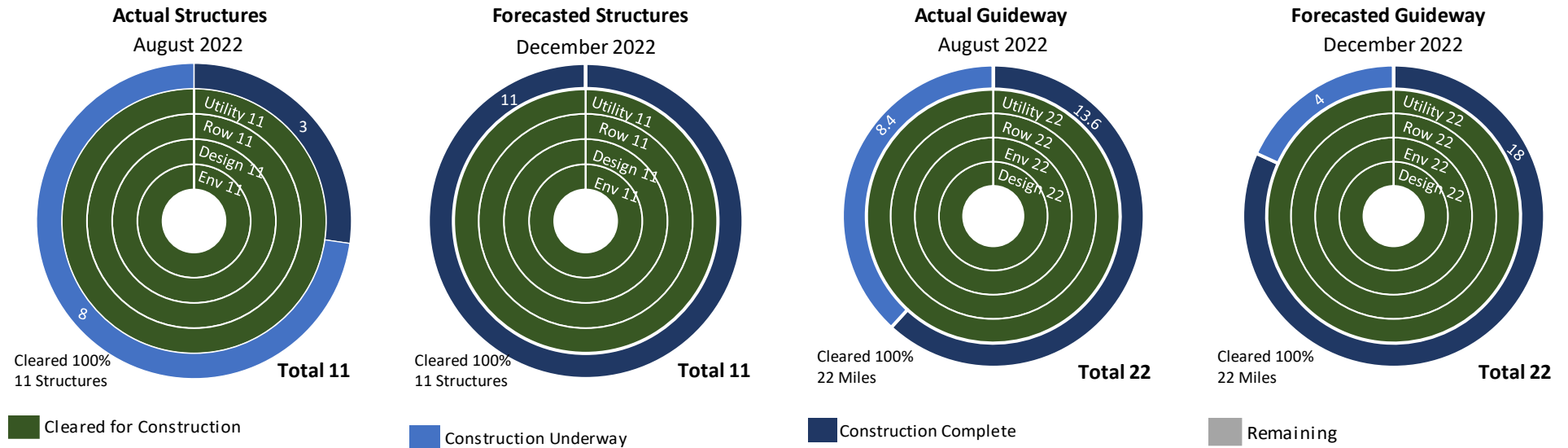
CP 4 – Monthly Construction Workforce Total – Actual (FTE)



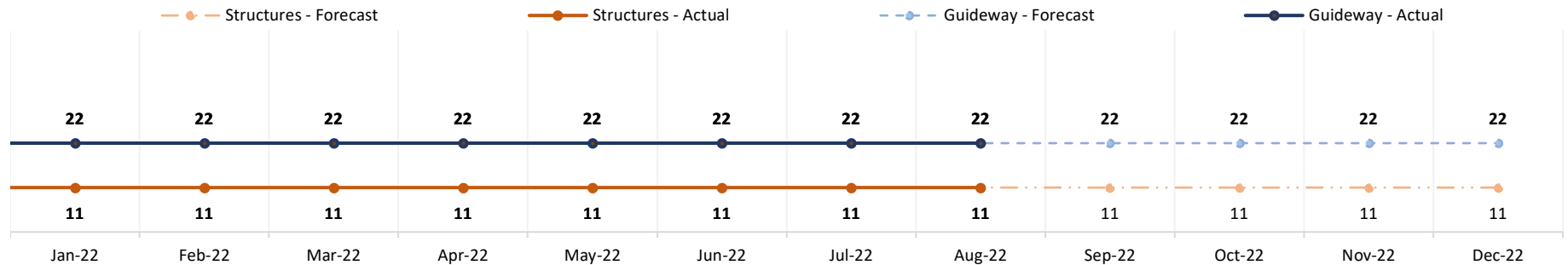
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 13 workers from the previous month (258).

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 (RBS3) 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 structures underway/Construction complete.
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.

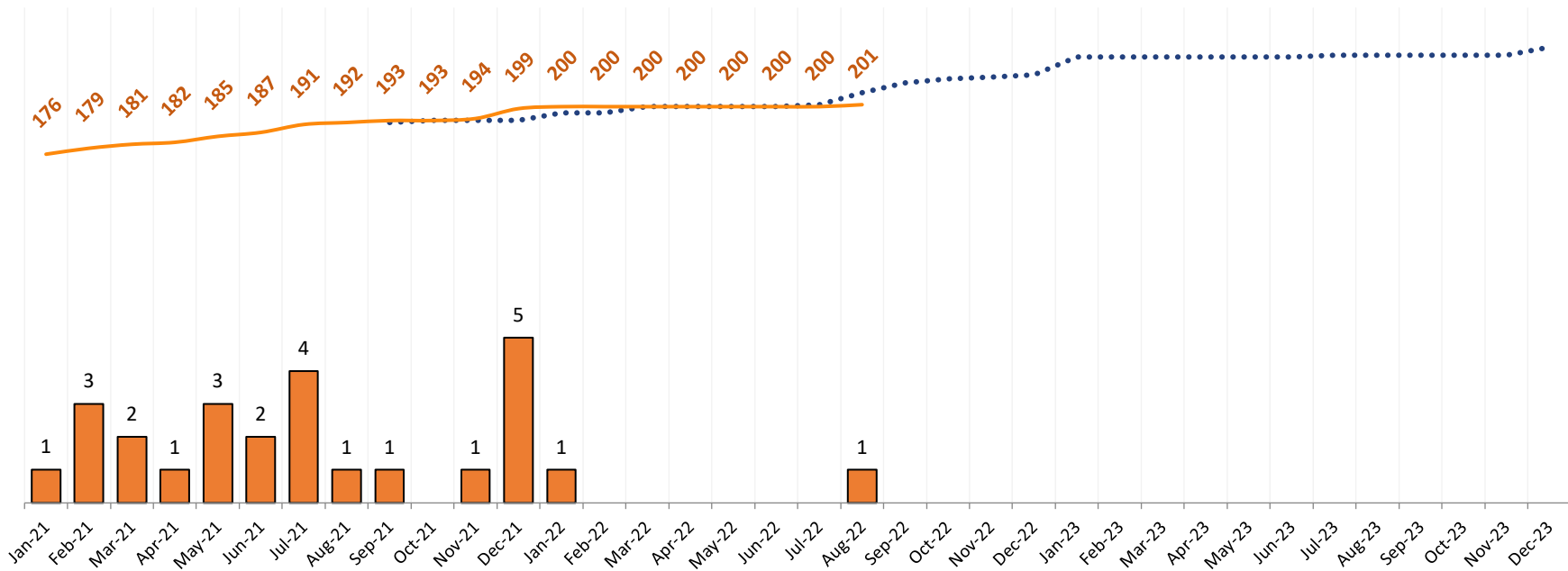
CP 4 – Real Property/Right-of-Way (ROW)

CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2022	Total Parcels Delivered to Date August 31, 2022	Remaining Parcels to be Delivered August 31, 2022
CP 4	251	201	50

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

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



Notes:

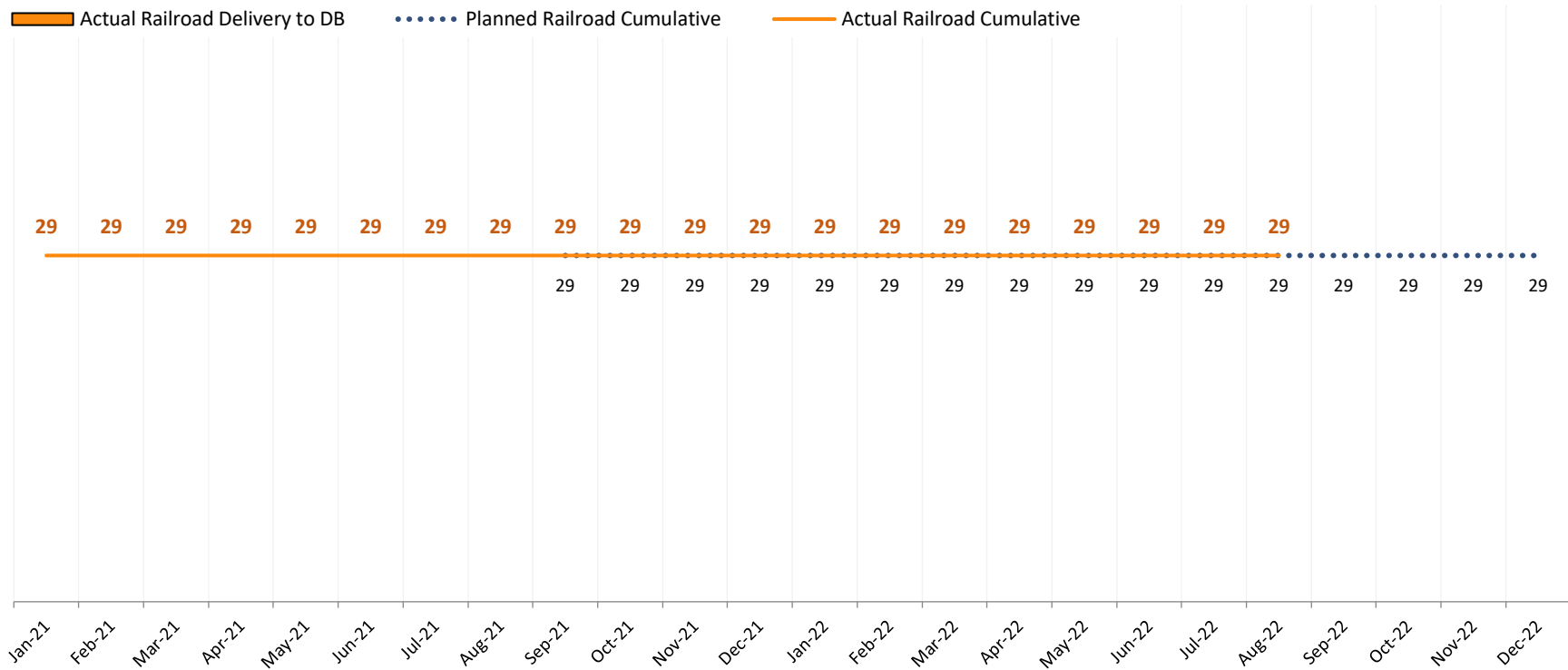
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.
2. Needed Parcels increased by 11 parcels added to meet Third Party design requirements.

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

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

Construction Package	Total Needed Railroad Parcels August 31, 2022	Total Railroad Parcels Delivered to Date August 31, 2022	Remaining Railroad Parcels to be Delivered August 31, 2022
CP 4	29	29	0

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

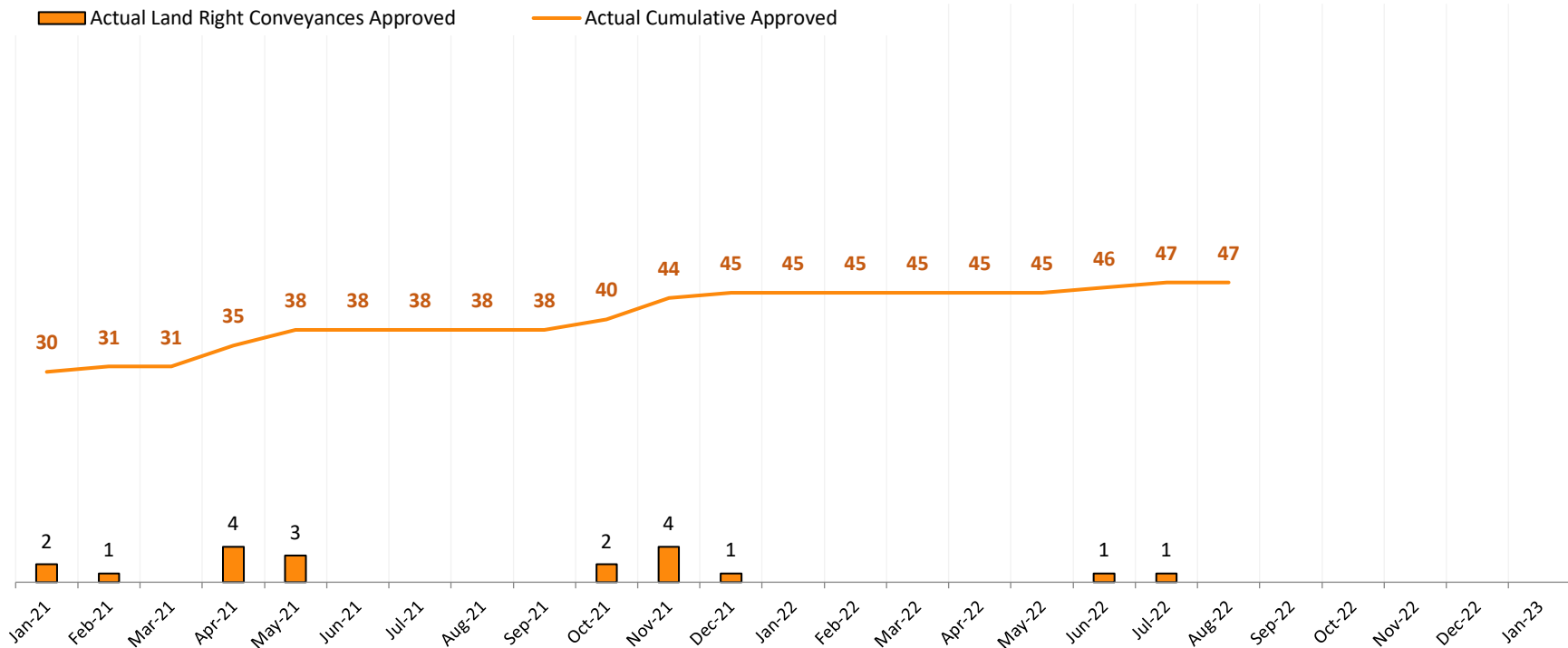


CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Right Conveyances August 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date August 31, 2022	Remaining Land Right Conveyances to be Approved August 31, 2022
CP 4	88	47	41

CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

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

Project Development Schedule (to ROD)

Number	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	
			Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current
Document Complete	Merced to Fresno	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Fresno to Bakersfield	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	CV Electrical Interconnections	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Locally Generated Alternative (F-B)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Central Valley Wye (M-F)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Bakersfield to Palmdale	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Burbank to Los Angeles	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	San Jose to Merced	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
1	San Francisco to San Jose ³	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 98%	Complete Complete 99%	Aug-22	Aug-22
2	Los Angeles to Anaheim	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	May-23 May 23 84%	May-23 May-23 86%	Jun-24 Jun-24 0%	Jun-24 Jun-24 ¹ 0%	Jun-24	Jun-24
3	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Aug-22 Sep-22 99%	Aug-22 Sep-22 ² 99%	Sep-23 Oct-23 0%	Sep-23 Oct-23 0%	Oct-23	Oct-23
4	Heavy Maintenance Facility (HMF)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Apr-16 TBD 0%	Apr-16 TBD 0%	Sep-16 TBD 0%	Sep-16 TBD 0%	Feb-21 TBD 0%	Feb-21 TBD 0%	TBD	TBD

Notes:

1. The Los Angeles to Anaheim project segment completion dates were extended in February 2022 due to additional discussions with various stakeholders such as BNSF, the City of Colton, and the Lenwood community.
2. In June 2022, the release of the Draft EIR/EIS for Palmdale to Burbank was extended to September 2022 due to additional time needed to prepare the document for release.
3. The Authority Board certified the San Francisco to San Jose Final EIR/EIS at the August 2022 Board Meeting. The ROD will be finalized and signed after the CEQA Statute of Limitations period ends in late September 2022.

Project Development – Key Actions

Project Development (Environmental Clearance) – Key Actions Summary

Project Section	Key Actions
San Francisco to San Jose	The Authority Board certified the Final EIR/EIS on August 18, 2022. The Record of Decision will be signed by the Authority’s Chief Executive Officer (CEO) after the California Environmental Quality Act (CEQA) statute of limitations 30-day period closes in September 2022. Update: The Final Record of Decision (ROD) is scheduled to be signed by the Authority’s CEO by October 17, 2022.
San Jose to Merced	The Final ROD was signed by the Authority’s CEO on June 1, 2022. Administrative Record being assembled and organized. Third batch of materials was submitted on August 31, 2022.
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	Production and noticing activities are underway in advance of the scheduled release date for the Draft EIR/EIS on September 2, 2022.
Burbank to Los Angeles	The Authority’s CEO signed the ROD on March 7, 2022. Work through NOD/ROD has been completed. Project closeout activities are ongoing, including Authority review and acceptance of the Administrative Record.
Los Angeles to Anaheim	Continued integrating additional revised environmental deliverables from Burlington Northern Santa Fe Corporation (BNSF) pertaining to the Colton and Lenwood project components into the assembled Administrative Draft EIR/EIS. Continued draft Preliminary Engineering for Project Definition (PEPD) reviews with external stakeholders.

Project Development (Post-ROD) – Key Actions Summary

Project Section	Key Actions
<p>Merced Extension (Merced to Madera)</p>	<p>On August 10, 2022, U.S.DOT announced that the Authority would receive a \$25M Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant for Merced to Madera project design efforts.</p> <p>On August 17, 2022, the Board authorized the Authority’s CEO to execute the design services contract with Stantec Consulting Services Inc. for up to \$41M.</p>
<p>Bakersfield Extension (Locally Generated Alternative (LGA))</p>	<p>On August 17, 2022, the Board authorized the Authority’s CEO to execute the design services contract with HNTB Corporation for up to \$44.9M.</p>