



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

October 2020 Report (data through August 2020)

Executive Summary

Overall - Report projections will be updated with Revised Baseline Schedules (RBS) and 2020 Business Plan finalization.

Cumulative Invoicing to Fulfill American Recovery and Reinvestment Act (ARRA) Grant ([Page 11](#)):

- Total CP Cumulative Actual Invoice – \$2,862.6M compared to Total CP Cumulative Forecasted Invoice – \$2,779.7M.
- Total Estimated Cumulative Contract Value to Fulfill ARRA – \$5,745M.

Construction Packages (CPs) Invoicing ([Pages 10 through 12](#)):

- August Total Actual Invoice – \$93M compared to Total Forecasted Invoice – \$91M.
- Anticipated September Total Invoice – \$108M.
- Total CP Cumulative Actual Invoice – \$2,862.6M compared to Total CP Cumulative Forecasted Invoice – \$2,779.7M. Total Cumulative Current Contract Amount – \$4,805.5M. Expensed to date is at 59.6%.
- Total Executed Change Orders – \$99.6M.
- In the last 12 months, cumulative invoicing for construction was approximately \$848.3M, 29.6% of all construction invoicing since August 2013.

CP Construction Labor ([Page 13](#)):

- Total Monthly Average – 1,031 daily-workers. An increase of 35 (996) daily workers from the previous month, yet, another celebrated increase of over 130% from August 2019's reported 449 daily-workers.
- Daily Average Contracted CP Employees Quarantined for COVID-19 – 10.
- 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/Underway ([Page 14](#)):

- Guideway – 78 miles constructed/underway compared to 119 miles total. No increase from the previous month. On target.
- Structures – 45 constructed/underway compared to 93 structures total. An increase of one structure from the previous month. The number of structures in progress has almost doubled since August 2019. This is one structure (CP 4) behind plan.
- Utility Relocation Status.
 - Relocated: 412 (20%); In Progress: 474 (23%); Scheduled: 76 (7%); 47% of the total (2,067) are complete/underway/scheduled. The majority are in the past 12 months.

Small Business Enterprise ([Page 15](#)):

- Number of Small Business Enterprise Awarded Contracts: 289
- Value of overall SB Goal (30%) \$1,417.3M.
- Value of Current Small Business Enterprise Awarded Contracts: \$912M.
- Value of Small Business expended through July 2020: \$431M.
- Small Business Enterprise Utilization percentage based on Contractor Invoices Paid to Date: 17 %.
- Business Enterprise Utilization towards 30% Goal: 8.4%.

CP Real Property/Right-of-Way ([Pages 16 through 19](#)):

- Parcels Delivered to Design-Builder (DB) – 34 parcels. Zero delinquent critical parcels.
- Total Acquired Parcels (some pending delivery) – 13 parcels.
- Total Parcels Delivered to Date – 1,673 parcels compared to an Estimated Total Parcels Needed – 2,290 parcels.
- For Construction Package 1-4: 36 parcels added and 68 removed due to design optimization, net decrease of 32 parcels.
- Railroad Parcels Delivered to DB – Zero parcels. Zero delinquent critical parcels.
- Total Railroad Parcels Delivered to Date – 112 parcels compared to an Estimated Total Railroad Parcels Needed – 182 parcels.
- Land Right Conveyances (Tier I, Prior to Construction) Received Approval – 12 Land Right Conveyances and zero delinquent critical land conveyances.
- From January 2020 to date, the Authority received approval on 411 land right conveyances (Tier 1, Prior to and Post Construction).

Third-Party Agreements ([Page 20](#)):

- Seven remaining agreements. Two non-critical agreements executed this month.
- In the past year, finalized 41 agreements. Thirty-three of those agreements were critical to supporting construction.

Environmental Permitting ([Page 21](#)):

- Remaining Amendments – Three agreements.

Project Development (Environmental Clearance) Schedule – Record of Decision (ROD) ([Pages 55 and 56](#)):

- The Central Valley Wye Final SEIR/EIS was released on August 7 and will be presented to the Board in September 2020.
- The Authority has published a total of four Draft EIR/EISs within the first eight months of Calendar Year 2020 including: Bakersfield to Palmdale, San José to Merced Burbank to Los Angeles and San Francisco to San José.
- Bakersfield to Palmdale, San José to Merced, and Burbank to Los Angeles public review comment periods have closed. San Francisco to San José closes in early September. Comment period extensions and associated public meetings / hearing accomplished virtually to meet COVID-19 social distancing requirements.
- Resolving Palmdale to Burbank Una Lake avoidance concerns with USACE/EPA. Working steadily to integrate BNSF facilities east of Fullerton into the Los Angeles to Anaheim EIR/EIS in order to meet ARRA December 2022 deadline.

Construction Package 1

Invoicing ([Pages 22 through 24](#)):

- Actual Invoice – \$41.8M compared to Forecasted Invoice – \$41.6M.
- Current Revised Baseline Substantial Completion Forecast Date – December 30, 2022.
- Current Contract Amount – \$2,259.6M compared to Cumulative Total Invoice \$1,316.3M. 58.3% expensed to date.

Change Orders ([Pages 25](#)):

- Executed Change Orders – Eight for a total of \$22.1M.

Risk Contingency ([Page 26](#)):

- Original Contract Contingency – \$1,237M with Remaining Contract Contingency - \$460M.

Construction Labor ([Page 27](#)):

- Total Monthly Average – 298 daily workers. An increase of 41 (257) daily workers from the previous month.

Construction/Underway ([Page 28](#)):

- Guideway – 13 miles constructed/underway compared to a total of 13 miles needed. No increase from the previous month.
- Structures – 17 constructed/underway compared to a total of 17 planned. No increase from the previous month.

Small Business Enterprise ([Page 29](#)):

- Number of Small Business Enterprise Awarded Contracts: 100.
- Value of overall SB Goal (30%) \$671M.
- Value of Current Small Business Enterprise Awarded Contracts: \$491M.
- Value of Small Business expended through July 2020: \$270M.
- Overall Current Small Business Enterprise Status (based on Contractor Paid to Date): 24.36%.
- Overall Current Small Business Enterprise Status: 12.07% towards 30% Goal.

Real Property/Right-of-Way ([Pages 30 through 32](#)):

- Parcels Delivered to Design-Builder (DB) – One parcel and zero delinquent critical parcels.
- Total Parcels Delivered to Date – 832 parcels compared to an Estimated Total Parcels Needed – 1,037 parcels.
- Railroad Parcels Delivered to Design-Builder – Zero and zero delinquent critical parcels.
- Total Railroad Parcels Delivered to Date – 59 parcels compared to an Estimated Total Railroad Parcels Needed – 95 parcels.
- Land Right Conveyances (Tier I, Required Prior to Construction) Received Approval to Date – 70 Land Right Conveyances and zero delinquent critical land conveyances.

Revised Baseline Schedules

- The Authority is currently evaluating the RBS and as such, the recent projections are being analyzed under the Conditional Acceptance of CP 1's forecast.

CP 1 Construction Progress Summary

Category	Status Update
General	<ul style="list-style-type: none"> • Six crossing applications have been approved. • Downtown Shoofly: Delivered out-grants¹ and started utility relocation. • Utility Relocations' Status: <ul style="list-style-type: none"> ▪ Relocated: 202 (17%); In Progress: 428 (36%); Scheduled: 10 (1%); Not Started: 562 (47%); Total: 1,202. • North Extension: The two RFC Structures have been completed and approved. • Herndon Avenue: AT&T and FMFCD system relocations are underway; First order utility work continues to gather momentum; Large diameter seasonal storm drain construction work continues. • Carnegie Avenue: AT&T northern cut-over predecessor work has been completed thereby kicking off further precursor work along Herndon Avenue. • Golden State Boulevard (North): Sewer system and OH power line relocations start in September 2020. • Avenue 10 HST Overcrossing: Fine grading and fencing completed; aggregate base laid in preparation for asphalt. • Shaw Avenue: Gas line relocations have started. • San Joaquin River Viaduct / River Span: Finishing touches on the Arch Span and clean-up work. • Fresno Trench: Top Down Box under SR-180, completed transition from Stage 3 to Stage 4, placed rebar and shotcrete. • PG&E Out-grants progressed, and early civil packages are expected in August 2020. • Downtown Shoofly: Out-grants were delivered allowing the start of utility relocations. • Downtown Fresno Viaduct (Cedar Viaduct) and SR-99 Crossing: Removed falsework from Cedar Overhead and SR-99 Southbound. • Manpower: The daily-worker monthly average of 152 in August 2019 increased by 96% to 298 in August 2020.
Structures	<ul style="list-style-type: none"> • Golden State Boulevard Viaduct: Poured Abutment 5 walls, columns and flare caps for Bents² 3 and 4; drilled Bent 2 and Abutment 1 Cast-In-Drilled-Hole (CIDH) piles. • American Avenue Overcrossing: Placed concrete for east abutment wing walls and placed embankment on the west side abutment. • San Joaquin River - Viaduct River Span: Finishing touches on the Arch Span and clean-up work. • Redesign underway for Central Avenue, Avenue 15½, Avenue 9 and McKinley Avenue to avoid additional Right-of-Way (ROW) requirements. • McKinley Avenue: Detour construction will begin in August 2020 upon completion of the utilities design and relocation efforts.
Guideway	<ul style="list-style-type: none"> • Avenue 15 (North): Major embankment fill and import has commenced. • Intrusion Protection Barrier (IPB) Mobilization: Starting in September 2020, the deployment of this barrier will allow additional guideway to begin north of Cottonwood Creek. • Avenue 10 / Avenue 11: Progress continues with the importing and compacting of the subgrade. • Design started for two miles of guideway in the Caltrans section between Ashlan Avenue and McKinley Avenue Connector. • Thirteen miles has been cleared for utility relocations. • Central Avenue: Work will start in October 2020 when PG&E's overhead power line relocation starts. • Road 27: Contractor resumed night work and the cleaning out of air vents at deck.

Notes:

1. Out-grant refers to grant of interest or right to one to use government real property by a lease, easement, license, or permit. It is an agreement whereby a private party may, depending on the type of real estate instrument issued, enjoy an interest in or use real property.
2. Bents are the basic post and beam structure that forms a cross section for the frame that has been set in place, the bents are then lifted and dropped into place one by one by the crane.

Construction Package 2-3

Invoicing ([Pages 33 through 35](#)):

- Actual Invoice – \$44.2M compared to Forecasted Invoice – \$37.2M.
- Current Revised Baseline Substantial Completion Forecast Date – December 18, 2022.
- Current Contract Amount – \$1,945.2M compared to Cumulative Total Invoice \$1,190.0M. 61% expensed to date.

Change Orders ([Page 36](#)):

- Executed Change Orders – Six for a total of \$64.8M.

Risk Contingency ([Page 37](#)):

- Original Contract Contingency – \$1,085M with Remaining Contract Contingency – \$341M.

Construction Labor ([Page 38](#)):

- Total Monthly Average – 527 daily workers. An increase of 18 (509) daily workers from the previous month.

Construction/Underway ([Page 39](#)):

- Guideway – 45 miles constructed/underway compared to a total of 45 miles needed. No increase from the previous month.
- Structures – 20 constructed/underway compared to a total of 19 planned. No increase from the previous month.

Small Business Enterprise ([Page 40](#)):

- Number of Small Business Enterprise Awarded Contracts: 130.
- Value of overall SB Goal (30%) \$573M Value of Current Small Business Enterprise Awarded Contracts: \$344M.
- Value of Small Business expended through July 2020: \$119.7.
- Overall Current Small Business Enterprise Status (based on Contractor Paid to Date): 11.72%.
- Overall Current Small Business Enterprise Status: 6.34% towards 30% Goal.

Real Property/Right-of-Way ([Pages 41 through 43](#)):

- Parcels Delivered to Design-Builder (DB) – 28 parcels and zero delinquent critical parcels.
- Total Parcels Delivered to Date – 673 parcels compared to Estimated Total Parcels Needed – 1,005 parcels.
- Railroad Parcels Delivered to Design-Builder – Zero and zero delinquent critical parcels.
- Total Railroad Parcels Delivered to Date – 26 parcels compared to Estimated Total Railroad Parcels Needed – 57 parcels.
- Land Right Conveyances (Tier I, Required Prior to Construction) Received Approval to Date – 63 Land Right Conveyances and zero delinquent critical land conveyances.

Revised Baseline Schedules

- The Authority is currently evaluating the RBS and as such, the recent projections are being analyzed under the Conditional Acceptance of CP 2-3's forecast.

CP 2-3 Construction Progress Summary

Category	Status Update
General	<ul style="list-style-type: none"> • Design: 73 out of 100 design packages on CP 2-3 have been approved. • Kings River Test pile program has been completed. • 9th Avenue abutment walls construction has been completed. • Jackson Avenue embankment settlement has been completed. • Hanford Viaduct substructure has been substantially completed. • Two Irrigation design packages have been approved by J.G. Boswell. • Conejo Avenue: Main structure design approved. • Land Right Conveyances: 18 received from various irrigation districts. • Utility Relocations' Status: <ul style="list-style-type: none"> ▪ Relocated: 187 (27%); In Progress: 41 (6%); Scheduled: 11 (2%); Not Started: 453 (65%); Total: 692. • PG&E Design Approvals: Two new Design packages approved in August adding 20 design approvals since August 2019. • Environmental Clearance: <ul style="list-style-type: none"> ▪ All Incidental Take Permits (ITPs) approved. ▪ 34 of 52 required Master Streambed Alteration Agreement (MSAA) sub-notifications approved. ▪ All 408 Minor Applications under review with U.S. Army Corps or California Department of Fish and Wildlife (CDFW). • Review and approval of Hanford Viaduct and the Tule River Bridge designs underway. • BNSF and Construction Agreement (Package A) executed, furthering construction on utility relocations and Type II structures. • Manpower: The daily-worker monthly average of 157 in August 2019 increased more than 336% to 527 in August 2020.
Structures	<ul style="list-style-type: none"> • Adams Avenue Type 2 bridge construction work started. • Four Structures, Peach Avenue, Kent Avenue, Kansas Avenue and Excelsior Avenue are substantially complete. • Hanford Viaduct Type 1 bridge substructure substantially complete. • Conejo Viaduct Type 1 construction progressing at full speed. • Idaho Avenue Type 2 test pile program completed. • 9th Avenue Type 1 Abutment footings completed. • Land Right Conveyance: 10 PG&E utility relocations underway enabling Fowler Avenue, Elkhorn and Dover Avenue bridges to start construction. • Caltrans Early Work Approvals: <ul style="list-style-type: none"> ▪ SR-43 Tied Arch – DFJV Working on the RFC Comment resolution. ▪ SR-43 Tule River – Caltrans Permit Issued. DFJV working on the utility relocations. ▪ SR-43 Curved Bridge – Caltrans approved the detour plans and permit issued on 7/15/20.
Guideway	<ul style="list-style-type: none"> • Design mitigation of Segment 3 soft soils has been extended to September, will open eight miles of additional guideway.

Construction Package 4

Invoicing ([Pages 44 through 46](#)):

- Actual Invoice - \$7M compared to Forecasted Invoice – \$12.2M.
- Current Revised Baseline Substantial Completion Forecast Date – December 15, 2021.
- Current Contract Amount – \$600.7M compared to Cumulative Total Invoice \$356.3M. 59.3% expensed to date, with approximately half of expenditures occurring in the past 12 months.

Change Orders ([Page 47](#)):

- Executed Change Orders – Seven for a total of \$12.7M.

Risk Contingency ([Page 48](#)):

- Original Contract Contingency – \$340M with Remaining Contract Contingency – \$160M.

Construction Labor ([Page 49](#)):

- Total Monthly Average – 207 daily workers. A decrease of 23 (230) daily workers from the previous month.

Construction/Underway ([Page 50](#)):

- Guideway – 20 miles constructed/underway compared to a total of 19 miles needed. No increase from the previous month.
- Structures – Eight constructed/underway compared to a total of nine planned. One structure increase from the previous month.

Small Business Enterprise ([Page 51](#)):

- Number of Small Business Enterprise Awarded Contracts: 59.
- Value of overall SB Goal (30%) \$179.5M.
- Value of Current Small Business Enterprise Awarded Contracts: \$77M.
- Value of Small Business expended through July 2020: \$41.4M.
- Overall Current Small Business Enterprise Status (based on Contractor Paid to Date): 13.49%.
- Overall Current Small Business Enterprise Status: 6.93% towards 30% Goal.

Real Property/Right-of-Way ([Pages 52 through 54](#)):

- Parcels Delivered to Design-Builder (DB) – Five and zero delinquent critical parcels.
- Total Parcels Delivered to Date – 168 parcels compared to the Estimated Total Parcels Needed – 248 parcels.
- Railroad Parcels Delivered to Design-Builder – Zero and zero delinquent critical parcels.
- Total Railroad Parcels Delivered to Date – 27 parcels compared to Estimated Total Railroad Parcels Needed – 30 parcels.
- Land Right Conveyances (Tier I, Required Prior to Construction) Received Approval to Date – 11 Land Right Conveyances and zero delinquent critical land conveyances.

Revised Baseline Schedules

- The Authority is currently evaluating the RBS and as such, the recent projections are being analyzed under the Conditional Acceptance of CP 4's forecast.

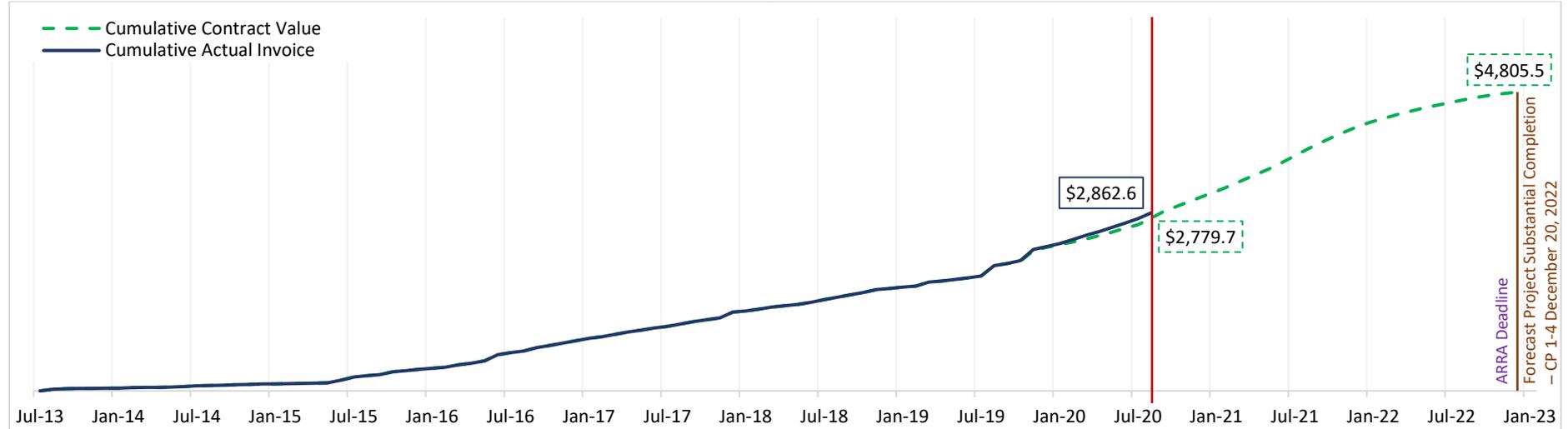
CP 4 Construction Progress Summary

Category	Status Update
General	<ul style="list-style-type: none"> • Guideway and structure designs have been completed; RFC's have been issued. • Intrusion Protection Barrier (IPB): DB is currently reviewing the new design bulletin. • Environmental Clearance: 11 out of 13 required ITPs were completed; the remainder will be acquired within the 3rd quarter of 2020. • Utility Relocations' Status: <ul style="list-style-type: none"> ▪ Relocated: 23 (13%); In Progress: 5 (3%); Scheduled: 55 (32%); Not Started: 90 (52%); Total: 173. • Manpower: The daily-worker monthly average of 140 in August 2019 increased more than 68% to 207 in August 2020.
Structures	<ul style="list-style-type: none"> • Peterson Road Underpass: Redesign is complete, and construction is underway. • McCombs Avenue: Agreements reached with Kern County and Caltrans – Abutment 4 MSE wall started and embankment work resumed. • Wasco Viaduct: 76 pre-cast girders have been over BNSF tracks. Work continued at Bent 7 and Bent 8 upper edge beam; poured sections of Cast-In-Place (CIP) wall 279.9 footing and wall. Set forms for Bent 9 column upper flare and started setting Bent 10 column. • Pond Road Underpass deck poured. • Garces Highway Underpass post tensioning completed and grouting tendons. • Poso Creek Overpass deck and stem walls poured. • Completed Intrusion Protection Barrier (IPB) and CIP wall between McCombs Avenue and SR-46. • Construction continued on seven structures: Garces Highway Underpass, Pond Road Underpass, Poso Creek Overpass, SR-46 HSR, Wasco Viaduct, Merced Avenue Overpass, and the Kimberlina Road Underpass.
Guideway	<ul style="list-style-type: none"> • Started construction on Access Road south of Peterson Road, and on the BNSF Shoofly. • Continued work on the wildlife box culverts at crossings north and south of Garces Highway. • Construction continued on embankment import between Semi-Tropic Canal and Wolloomes Avenue. • Embankment efforts continued between Poso Creek and Tausig Avenue. • Kimberlina Road (South): Access road construction started. • Wasco Viaduct (North): Continued efforts on the CIP wall. • Embankment, slope trimming and topsoil placement ongoing throughout guideway. • Utility relocations, PG&E, SEMPRA, AT&T and others ongoing at numerous sites. • Completed SoCal Edison relocations on Peterson Road.

Infrastructure Delivery Overview – 119-mile Central Valley Segment Construction Packages 1-4 (CP 1-4)

CP 1-4 – Earned Value

CP 1-4 – Planned vs. Actual Expenditures from Contract Award Through Contract Completion - \$ Millions



The chart above shows historical expenditures from the award of the first construction package through August 31, 2020. The planned values are based on the Proposed Revised Baseline Schedules developed for all the construction packages as of August 2020. The completion value (\$4.8B) is based on the current contract values of the construction packages and does not include SR-99. This value does not include change orders that are yet to be executed. It is anticipated that the total current contractual value of \$4.8B will be expended by end of December 2022.

CP 1-4 – Projected Milestones

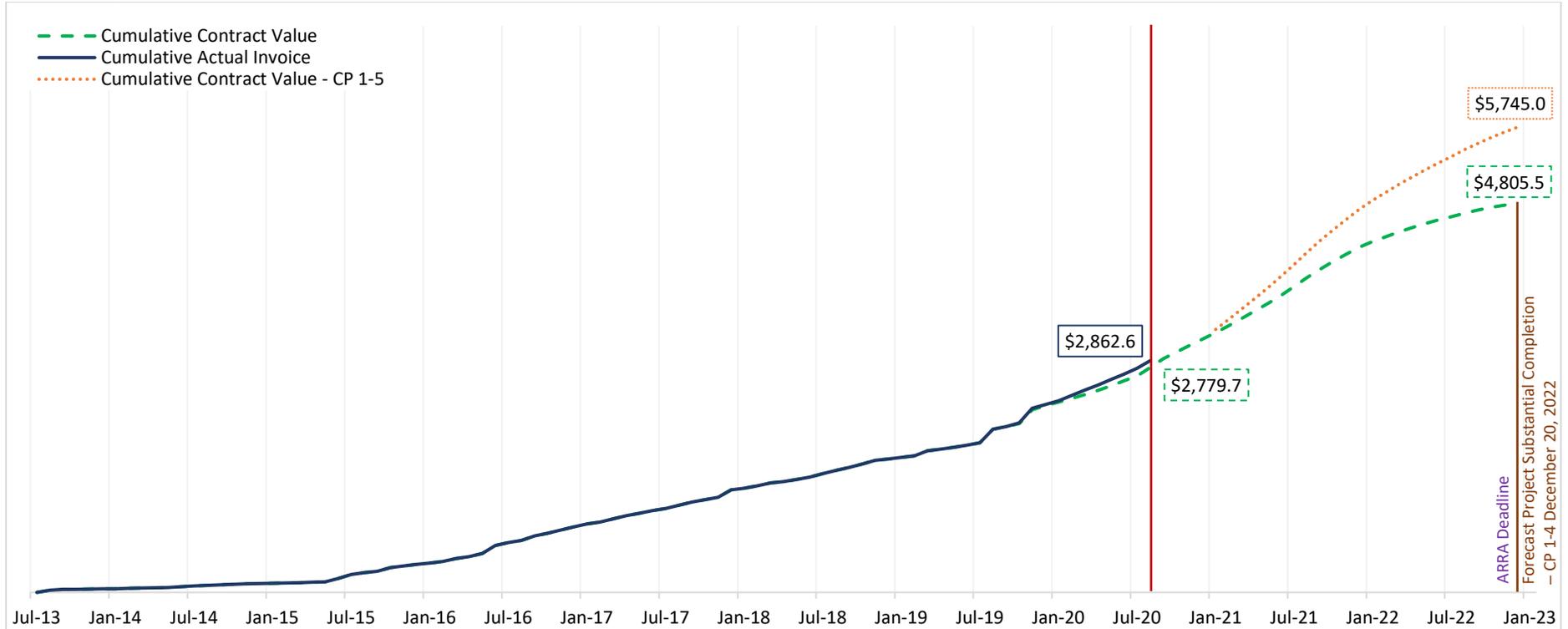
Milestone	Date
01. CP 1 Main Design Complete	Oct-20 ¹
02. CP 1 ROW Critical Parcels Acquisition Complete	Nov-20
03. CP 1 Environmental Clearance Complete	Nov-20 ⁴
04. CP 1 Utility Relocation Complete	Mar-21

Milestone	Date
05. CP 2-3 Main Design Complete	Dec-20 ²
06. CP 2-3 ROW Critical Parcels Acquisition Complete	Jan-21 ³
07. CP 2-3 Environmental Clearance Complete	May-20 (Complete)
08. CP 2-3 Utility Relocation Complete	Mar-21

Milestone	Date
09. CP 4 Main Design Complete	Feb-20 (Complete)
10. CP 4 ROW Acquisition Complete	Dec-20
11. CP 4 Environmental Clearance Complete	Nov-20 ⁵
12. CP 4 Utility Relocation Complete	Mar-21

- Notes:**
- CP 1 Main Design has been pushed to October 2020 as the DB and PCM get the FCN/DCN process into contract compliance to enforce the verification and validation certification. Mitigating issue via NCR and directive letter to ICE/ISE to enforce compliance.
 - CP 2-3 Main Design has been pushed to December 2020 as the DB, PCM, Caltrans and BNSF address design delays for the utility relocations. This is critically impacting the schedules.
 - Projection has been updated based on the Revised Baseline Schedules (RBSs).
 - CP 1 Environmental Clearance pushed to November 2020 to review the Hazardous Abatement designs and incorporate additional utilities and BNSF access roads at the structure and guideway sites.
 - CP 4 Environmental Clearance on lands requiring utility relocations delayed from July 2020 to November 2020 pending issuance of ITP Amendment, per California Rail Builders (CRB).

Remaining Expenditures to Achieve ARRA (DB + CP 5) - \$ Millions



Remaining DB and Track Work Baseline Items:

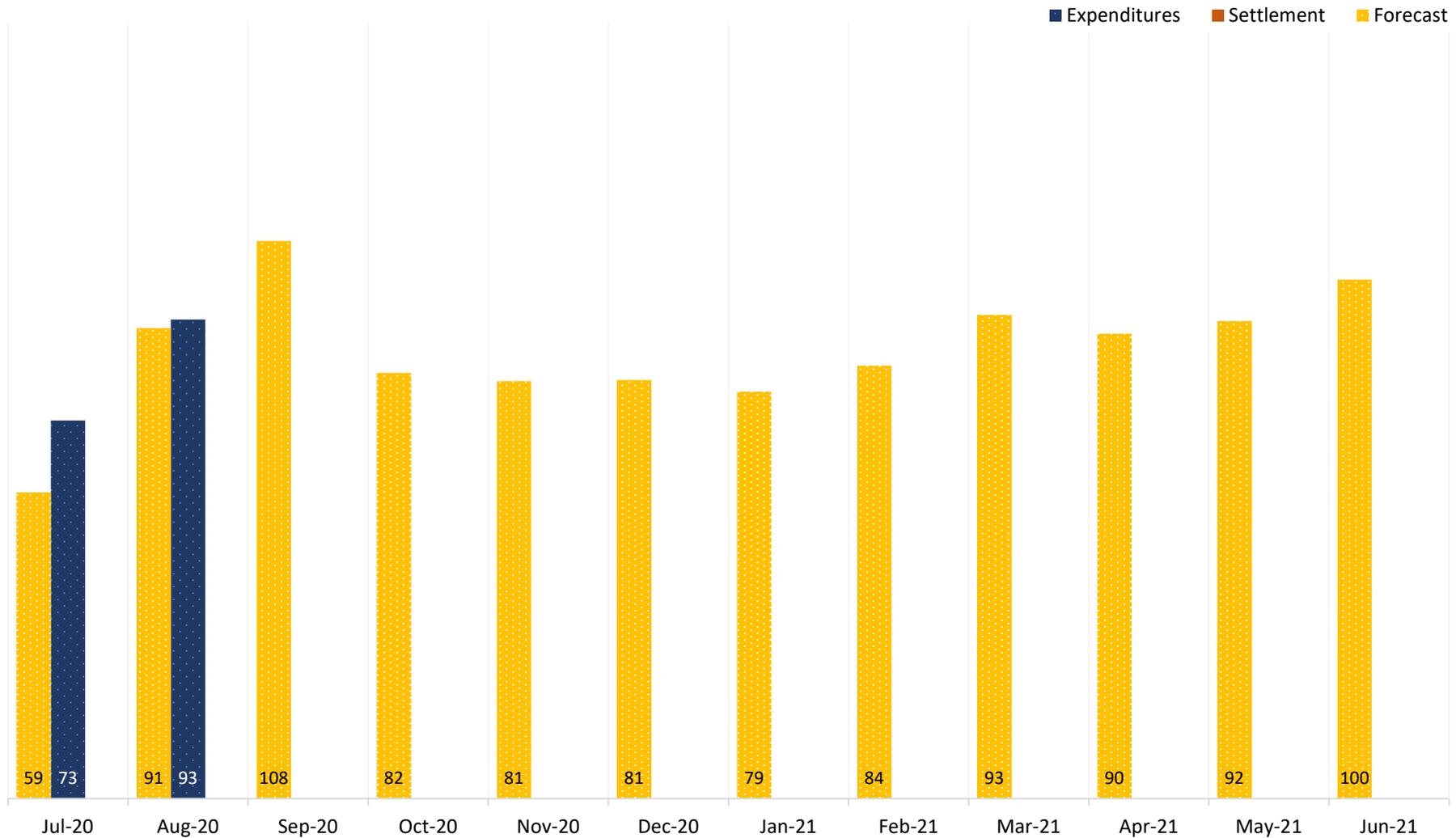
- Intrusion Protection Barriers and other railroad related works.
- North Extension (Avenue 17 to 19 in Madera County).
- Third-Party related work (e.g., Additional PG&E and AT&T work).
- Track Works (Needed for ARRA fulfillment).
- Miscellaneous Works Modifications (e.g., Utility Relocation, Environmental Mitigation, Cast in Place Walls).
- Cumulative Planned – Current Contract Value (dotted green line) is based on the current contract values for CP 1-4. This will be updated once the Revised Baseline Schedules (RBSs) are finalized.

Notes:

1. The Cumulative Contract Value - CP 1-5 curve has been adjusted to reflect only the ARRA scope required to complete the 119-mile infrastructure by December 31, 2022. For the T&S contract, this adjustment includes only the estimated cost to place plain-line track. The November CVSR will provide a reconciliation with the ARRA scope included in the Capital Outlay Report.
2. The December 2022 Cumulative Plan forecast projection increased from \$4,705.9M to \$4,805.5M due to \$99.6M in August 2020 CO executions.

CP 1-4 - Design-Build Planned vs. Actual Expenditures – Near Term

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

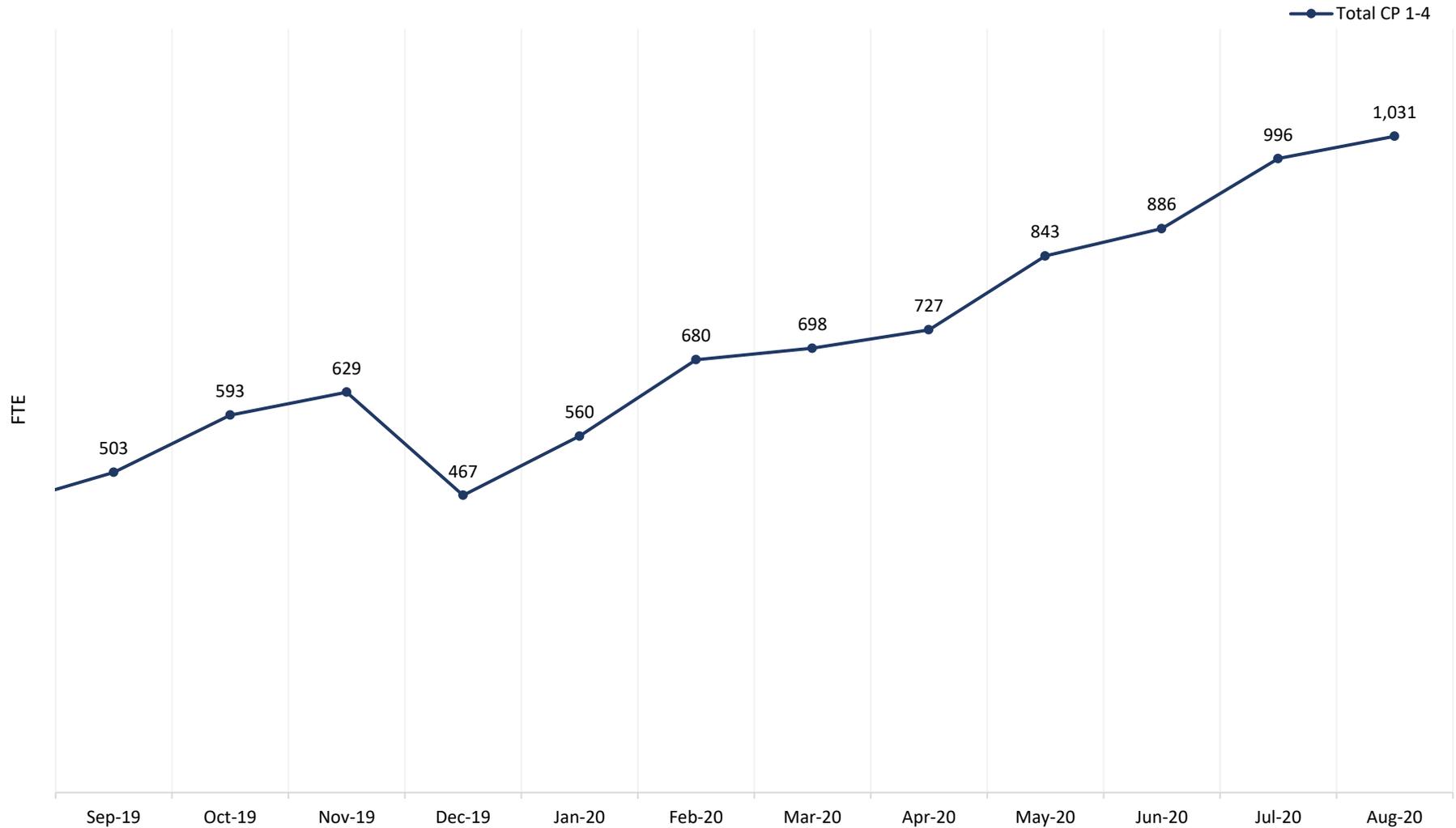


Notes:

1. Expenditures contained in the chart above are specific to the Design-Builder production and based on the certified invoice reported in the respective month and do not include accrual adjustments.
2. All projections are being monitored against the Conditional Acceptance of CP 1-4's Revised Baseline Schedule (RBS) as of August 2020.

CP 1-4 – Monthly Construction Workforce Total

CP 1-4 – Monthly Construction Workforce Total – Actual

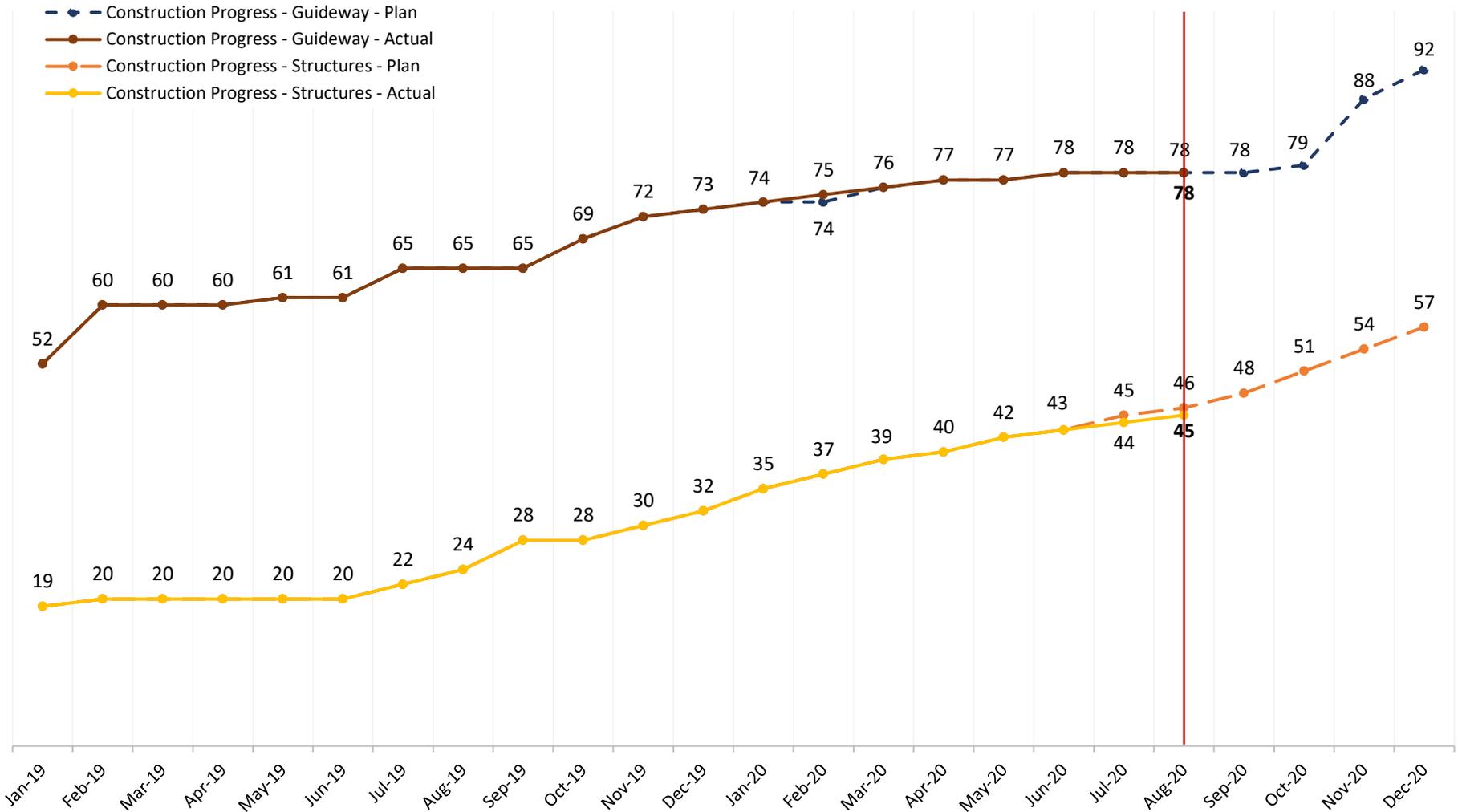


Notes:

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.
2. The December 2019 reporting number shows a sharp decrease due to the holiday week of December 23rd through December 31st.
3. The data from September 2019 to April 2020 was previously presented with data from each month's final week. The data has been updated to represent more accurately the overall total on a per working calendar month average status.

CP 1-4 – Structures and Guideway Progress – Planned vs. Actuals

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

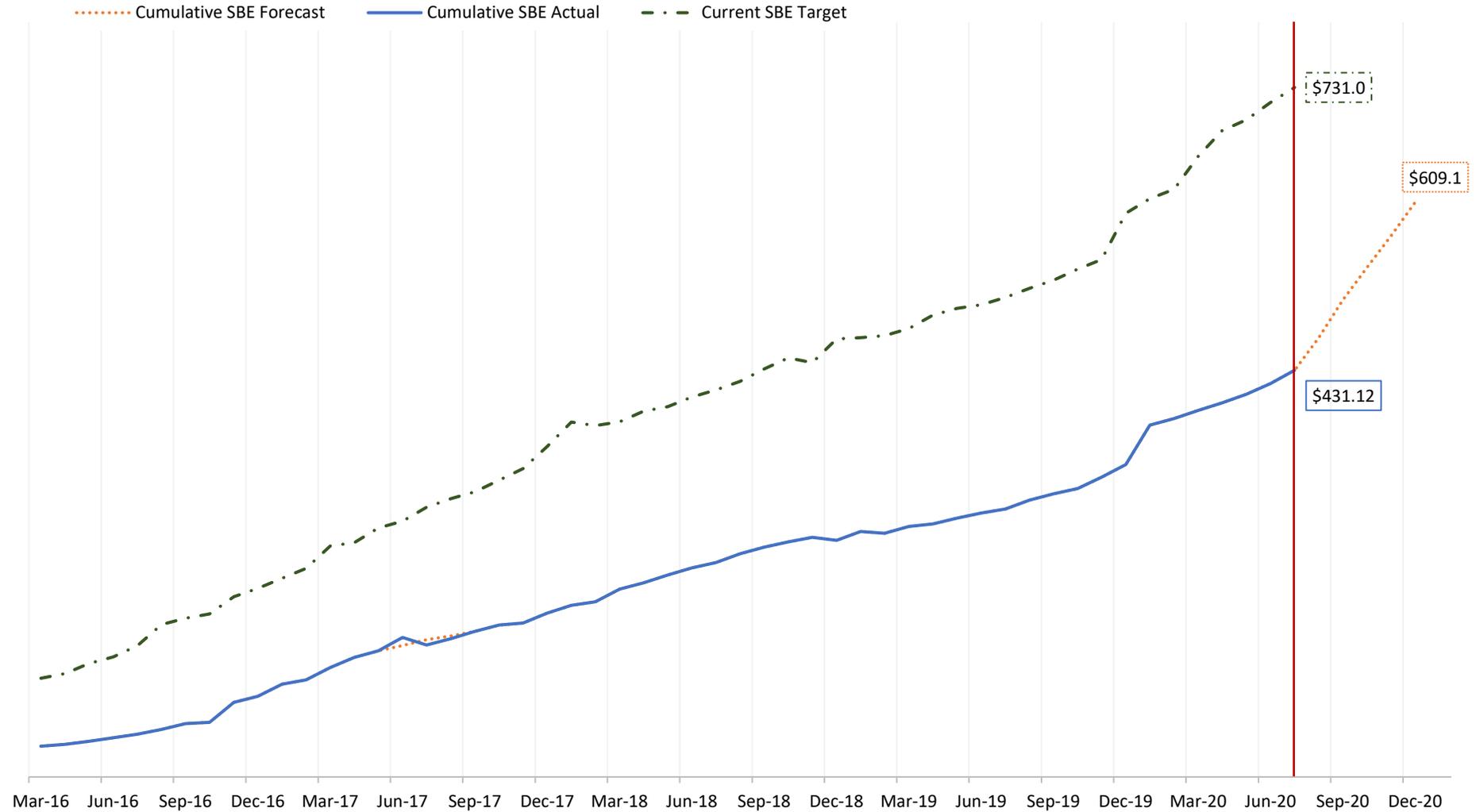


Notes:

1. Total Structures: 93 each.
2. Total Guideway: ~119 miles.
3. The Forecasted Structures and Guideway are based on the Authority's Conditional Acceptance of CP 1-4's Revised Baseline Schedule (RBS) as of July 2020.
4. SR-46 structure was delayed due to coordination with third-parties and is expected to start October 12, 2020.

CP 1-4 – Small Business Enterprise

CP 1-4 Cumulative Values



Notes:

1. Total number of awarded contracts: 289.
2. Total value of awarded contracts: \$911M.
3. Overall Status: 17%. \$ \$431,115,636.52 expended through July 2020.
4. Information reflects ONLY Central Region Construction Package 1-4 Small Business Utilization and DOES NOT include Small Business utilization data for any other California High-Speed Rail Authority contract.

CP 1-4 – Right-of-Way (ROW) Summary

ROW established metrics to track the following:

- Acquisition Tracking
- Parcel: Property rights required from others and public lands (property rights required from public entities and/or multiple parties).
- Railroad: Property rights and other agreements required from railroads.
- Land Right Conveyance Tracking
- Tier 1: Land Right Conveyances (critical); entities requiring transfer of title prior to construction (PG&E, Southern California Edison, Fresno Irrigation District and the Fresno Metropolitan Flood Control District).
- Tier 1: Land Right Conveyances (non-critical); due to the PG&E letter agreement (executed May 6, 2020) temporarily reclassified numerous critical PG&E land right conveyances as non-critical for construction and transfer of title occurs post construction.
- Tier 2: Land Right Conveyances (non-critical); entities where transfer of title occurs post construction.

CP 1-4 – ROW Parcel Acquisition Summary

Construction Package	Total Needed July 31, 2020	Total Needed COS ¹ Modifications ²	Total Needed August 31, 2020	Total Acquired July 31, 2020	Acquired August 31, 2020	Total Acquired August 31, 2020
	(A)	(B)	(C) = (A) + (B)	(D)	(E)	(F) = (D) + (E)
CP 1	1,072	-35	1,037	832	6	838
CP 2-3	1,011	-6	1,005	676	2	678
CP 4	239	9	248	163	5	168
Total	2,322	-32	2,290	1,671	13	1,684

Notes:

1. Certificate of Sufficiency (COS)
2. For Construction Package 1-4: 36 parcels added and 68 removed due to design optimization.

CP 1-4 – ROW Acquired but Not Delivered to Design-Builder (DB)

Construction Package	Total Acquired ¹ August 31, 2020	Delivered to DB ² August 31, 2020	Total Delivered to DB ³ August 31, 2020	Total Acquired, Remaining to Deliver to DB August 31, 2020
	(G) = (F)	(H)	(I)	(J) = (G) - (I)
CP 1	838	1	832	6
CP 2-3	678	28	673	5
CP 4	168	5	168	0
Total	1,684	34	1,673	11

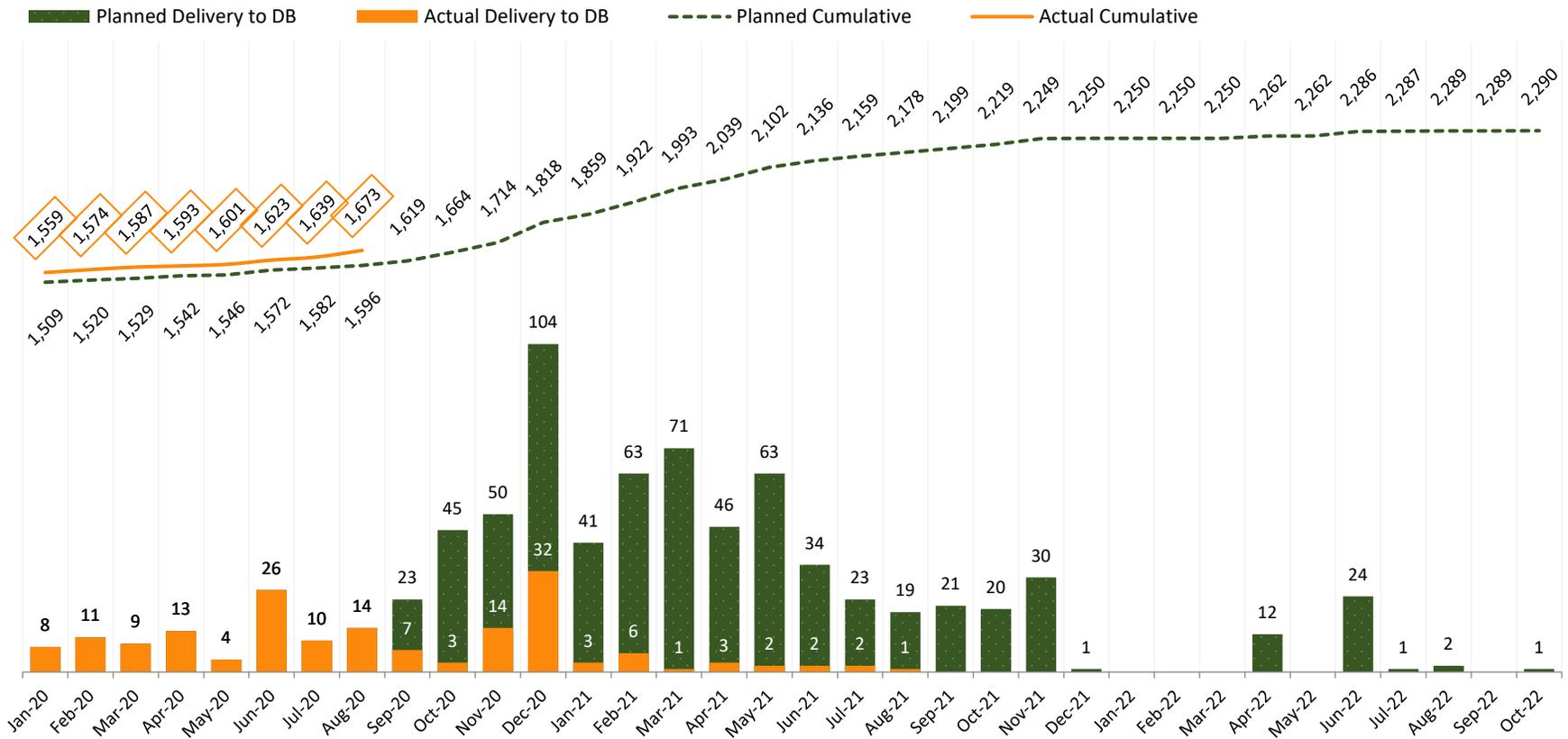
Notes:

1. Total Acquired is defined as parcels that are legally possessed by the Authority.
2. The 34 parcels delivered to the DB includes: one due in August; one in October; six in November; 14 in December; and 12 in 2021.
3. Total Delivered to DB is defined as parcels certified for construction and delivered to the Design-Builder.

CP 1-4 – ROW Summary

Construction Package	Total Needed Parcels August 31, 2020	Total Parcels Delivered to Date August 31, 2020	Remaining Parcels to be Delivered August 31, 2020
CP 1	1,037	832	205
CP 2-3	1,005	673	332
CP 4	248	168	80
Total	2,290	1,673	617

CP 1-4 – Parcel Delivery to DB Summary



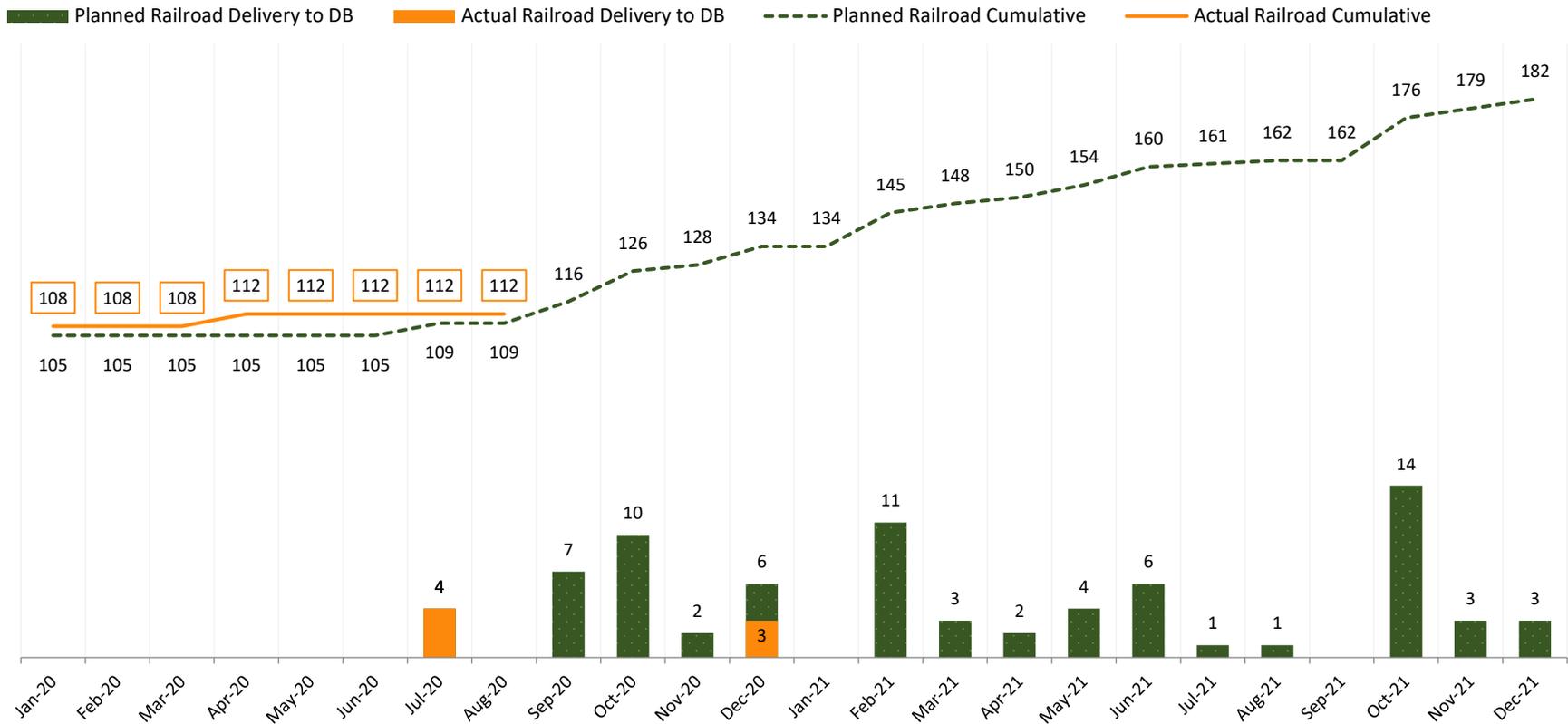
Notes:

1. This reflects the current Revised Baseline Schedules (RBSs) for CP 1, CP 2-3, and CP 4.
2. Planned Delivered to DB parcels may be adjusted periodically based on continued refinement of the RBS.
3. Actual cumulative line for August 2020 reflects delivered parcels that are forecasted in future months.
4. Actual Delivered to DB for July 2020 adjusted by one parcel from last month's report due to quality review. The corrected parcel delivery date is September 9, 2020 and will be reflected next reporting cycle.

CP 1-4 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels August 31, 2020	Total Railroad Parcels Delivered to Date August 31, 2020	Remaining Railroad Parcels to be Delivered August 31, 2020
CP 1	95	59	36
CP 2-3	57	26	31
CP 4	30	27	3
Total	182	112	70

CP 1-4 – Railroad Parcel Delivery to DB Summary



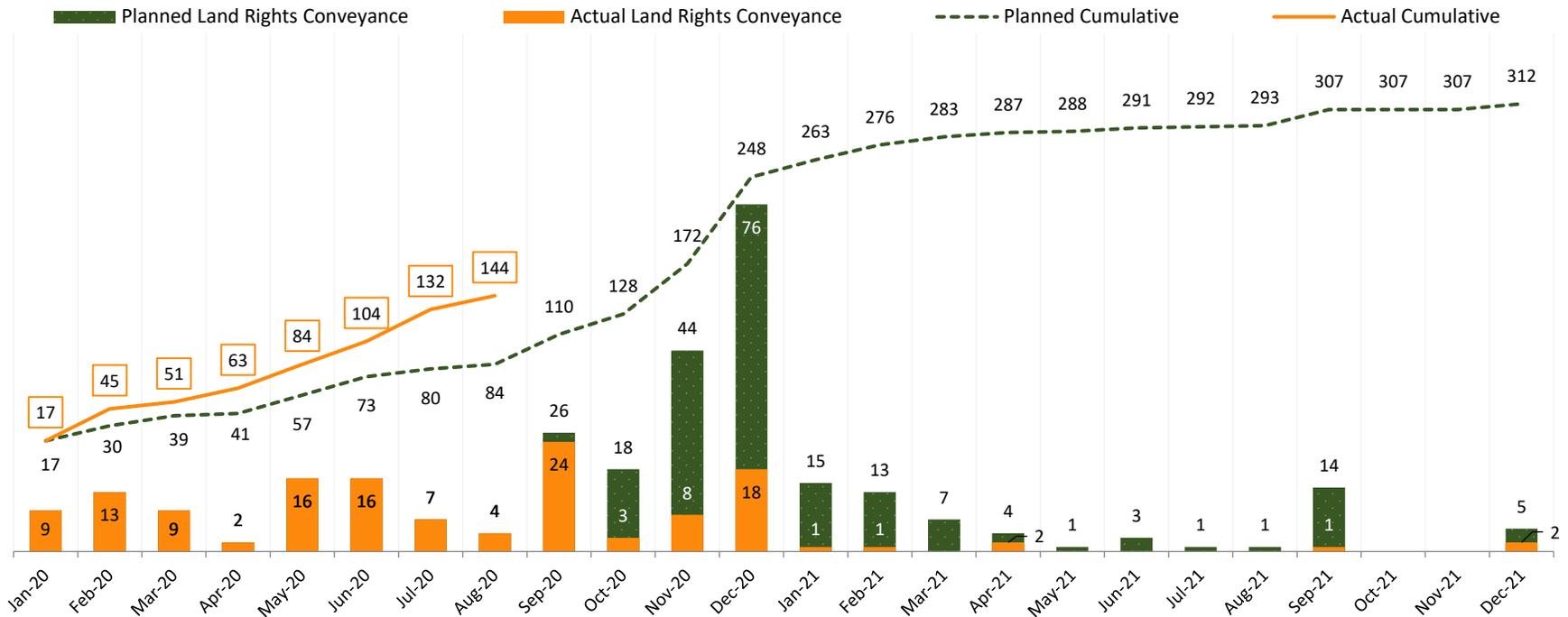
Notes:

1. This reflects the current Railroad Revised Baseline Schedules (RBSs) for CP 1, CP 2-3, and CP 4.
2. Planned Railroad Delivery to DB parcels may be adjusted periodically based on continued refinement of the RBS.
3. Total Needed Railroad Parcels adjusted from last month’s reporting by one parcel due to ownership confirmation.

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 July 31, 2020	Total Needed Land Right Conveyances Modifications	Total Needed Land Right Conveyances August 31, 2020	Total Land Right Conveyances Approved ⁵ to Date July 31, 2020	Total Land Right Conveyances Approved August 31, 2020	Remaining Land Right Conveyances to be Approved August 31, 2020
CP 1	122	0	122	65	5	52
CP 2-3	161	0	161	58	5	98
CP 4	29	0	29	9	2	18
Total	312	0	312	132	12	168

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



Notes:

1. This projection has been revised based on the Revised Baseline Schedules (RBSs).
2. The PG&E letter agreement (executed May 6, 2020) temporarily reclassified numerous critical land right conveyances as non-critical for construction and is reflected above.
3. Actual Cumulative for August 2020 includes completed land right conveyances that are forecasted in future months.
4. Planned land right conveyances were adjusted from last month's report due to continued refinement of the RBS.
5. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

119-Mile Central Valley Segment – Third-Party Agreements

CP 1-4 – Look Ahead - Estimated Completion Timeline for Critical Third-Party Agreements

Entity	Project Section	Result of Resolution	Previous Estimated Completion	Current Estimated Completion
Madera Valley Water Company (MVWC)	CP 1	Obtain MVWC’s cooperation and capture essential terms working together to relocate MVWC facilities. MVWC seeking outside financial consultant to implement audit-prevention measures.	Jul-20	Oct-20
County of Kings	CP 2-3	Covers transfer of ROW between Authority and County. Grants immediate right of possession to Authority and use of existing ROW for construction. Negotiations delayed while County Counsel was on leave for several weeks; negotiations have since resumed.	Sep-20	Nov-20
City of Wasco	CP 4	Covers transfer of ROW between Authority and City. Grants immediate right of possession to Authority and use of existing ROW for construction. City of Wasco halted negotiations due to dispute on additional financial Farmworker Housing support.	Jul-20	On Hold
City of Wasco	CP 4	Defines ownership and maintenance of grade separations between Authority and City in perpetuity. City of Wasco halted negotiations due to dispute on additional financial Farmworker Housing support.	Jul-20	On Hold
Semitropic Water Storage District	CP 4	Design and construction of facilities. Semitropic Board approved March 2020. Semitropic counsel still finalizing provisions with the Authority’s Legal Office.	Jul-20	Sep-20
Semitropic Water Storage District	CP 4	CCUA ¹ template allows prompt execution of land conveyances. Semitropic Board approved March 2020. Semitropic counsel still finalizing provisions with the Authority’s Legal Office.	Jul-20	Sep-20
Semitropic Water Storage District	CP 4	JUA ² template allows prompt execution of land conveyances. Semitropic Board approved March 2020. Semitropic counsel still finalizing provisions with the Authority’s Legal Office.	Jul-20	Sep-20

Notes:

1. Consent to Common Use Agreement (CCUA) - CCUAs recognize/perpetuate a facility owner’s existing rights where a facility is either protected in place in an area that is now within the Authority’s ROW, or relocated to a new position within the Authority’s ROW, but also still within the facility owner’s existing ROW (for example, an open canal is converted to a box culvert under the Authority corridor). CCUAs also establish the facility owner’s and Authority’s respective rights and obligations for occupying, maintaining, and accessing the joint use area.
2. Joint Use Agreement (JUA) - JUAs identify and convey replacement easement rights to facility owners when their utility facility relocates to a position within the Authority’s ROW and outside or partly outside of the facility owner’s existing ROW. JUAs also establish the facility owner’s and Authority’s respective rights and obligations for occupying, maintaining, and accessing the joint use area.

119-Mile Central Valley Segment – Environmental Clearance - Incidental Take Permits (ITP) Summary¹

Merced-Fresno 2081 ITP, Permit Number 2081-2013-025-04, Issued on 12-Mar-14

ITP Name	Amendment Status	Construction Project	ITP Amendment Construction Implications	Previous Date of Approval / Issue	Current Date of Approval / Issue
CP 1AB M-F Clean Up No. 2	In Review with CDFW	CP 1	With CDFW for completeness determination.	Mar-20	Oct-20 ²
Utility Design Refinements	Contractor to Submit	CP 1	Amendment to document the changes in utility design.	Aug-20	Dec-20 ³
All Access Roads and Utility Logistics	In Progress	CP 4	This amendment addresses additional ROW required for the installation of access roads needed to provide: <ul style="list-style-type: none"> • Maintenance access for third-party utilities and private property owners. • Relocation access for third-party utility installations. • Equipment staging areas. • Access to various associated third-party facilities. 	Aug-20	Nov-20

- Notes:**
1. The above table represents a snapshot in time of the ITP amendments needed to complete CP 1-4. Some additional design changes may occur to complete utility relocations. As design progresses and achieves final approval, the risk of additional amendments shrinks.
 2. TPZP provided a response to CDFW notification of incomplete request on June 23, 2020. Waiting for CDFW to review information and deem application complete.
 3. Amendment is currently being drafted with expected submittal by contractor in August 2020.

CONSTRUCTION PACKAGE 1 (CP 1) OVERVIEW

CP 1 – Design-Build Contract Summary

Milestones

Milestone	Date
RFQ Date:	11/15/2011
SOQ Date:	12/19/2011
RFP Date:	03/22/2012
Proposal:	01/18/2013
Bid Open Date:	04/13/2013
Award Date:	08/16/2013
NTP 1 Date:	10/15/2013
NTP 2 Date:	11/22/2013
NTP 3 Date:	07/11/2014
Original Completion Date:	03/31/2018
Current Substantial Completion Date²:	12/30/2022

Contract Time Status

Description	Duration ³
Original Contract Days:	1,628
Extension of Time Awarded:	1,801
Current Contract Days:	3,429
Work Days Spent (thru 08/31/2020):	2,481

Expended to Date

Description	Percentage
Time:	73.4%
Dollars:	58.3%

Growth Percentage

Description	Percentage
Time:	110.6%
Dollars:	120.9%

Contract Value

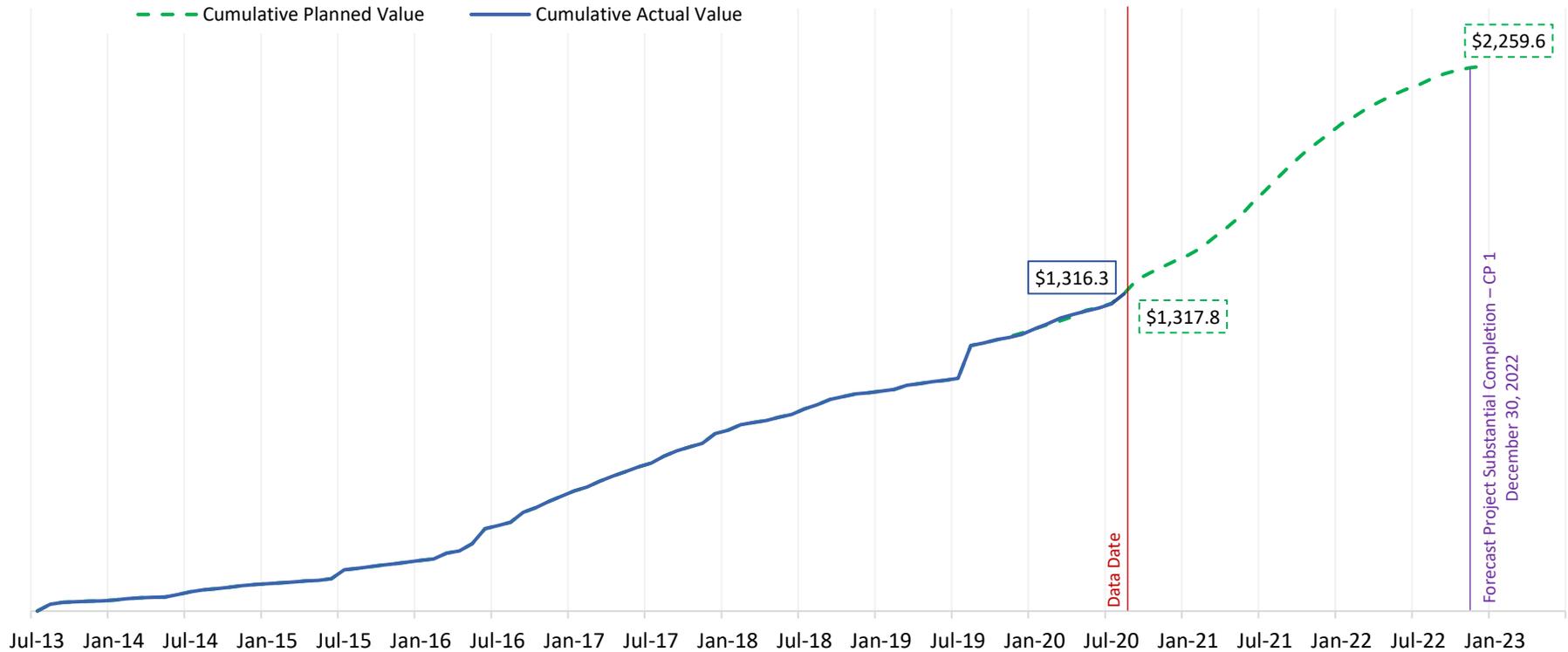
Description	Amount
Fixed Bid Price:	\$969,988,000.00
Provisional Sums:	\$53,000,000.00
Original Contract Price:	\$1,022,988,000.00
Executed Change Orders:	\$1,236,610,080.45
Current Contract Amount:	\$2,259,598,080.45
Approved Invoices to Date ¹ :	\$1,316,327,420.22
Remaining Contract Balance:	\$943,270,660.23

Notes:

1. Includes actuals through August 2020 and estimate for September 2020.
2. Current RBS Substantial Completion Forecast Date (Pending Executed Change Order Letter Issuance) – December 30, 2022.
3. Calendar Days.

CP 1 – Earned Value

CP 1 – Planned vs. Actual Expenditures from Contract Award Through Contract Completion (\$ Millions)



CP 1 – Projected Milestones

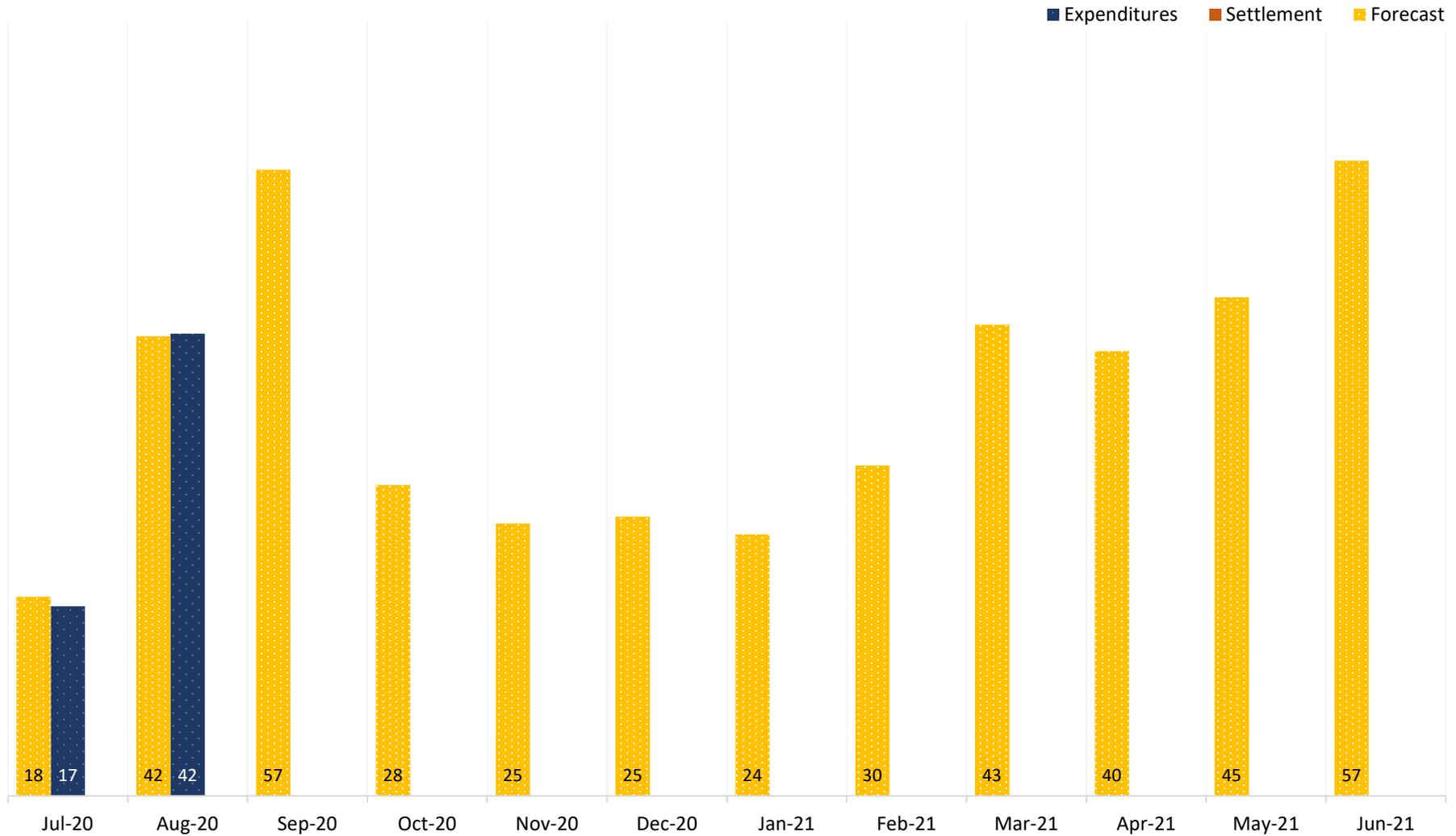
Milestone	Date
Main Design Complete	Oct-20
ROW Critical Parcels Acquisition Complete	Nov-20

Milestone	Date
Environmental Clearance Complete	Nov-20
Utility Relocation Complete	Mar-21

- Notes:**
1. The Current Contract Value at completion does not include unexecuted change orders, including IPB, Herndon, SR-99 section remaining works, and the North Extension Revision.
 2. Main Design has been pushed to October 2020 as the DB and PCM get the FCN/DCN process into contract compliance to enforce the verification and validation certification.
 3. CP 1 Environmental Clearance pushed to November 2020 in order to review the Hazardous Abatement designs and incorporate additional utilities and BNSF access roads at the structure and guideway sites.
 4. The Planned Value and Contract Substantial Completion Date (December 2022) are based on the Authority’s Conditional Acceptance of CP 1’s Revised Baseline Schedule (RBS) as of July 2020. This is expected to be refined as future change orders are issued and finalized.

CP 1 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 1 – Fiscal Year Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoices.
2. The projections are being monitored against the Conditional Acceptance of CP 1’s Revised Baseline Schedule (RBS) as of August 2020.

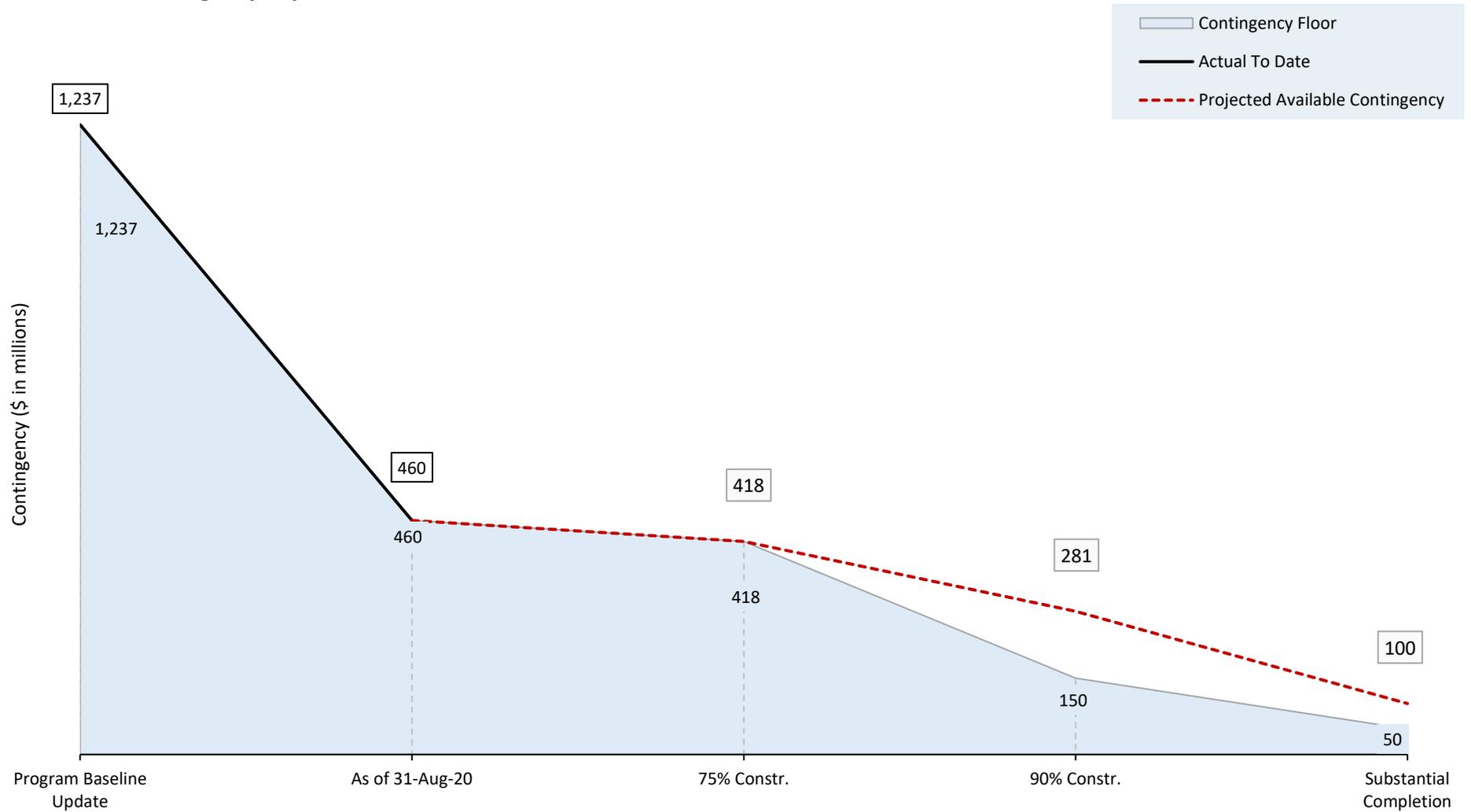
CP 1 – Executed Change Order Status

CP 1 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00348	CPUC at Church Avenue - Construction	Executed	\$3,563,048.00	06-Aug-20
00048.5	PG&E and AT&T Facilities Relocation Provisional Sum Supplement 5	Executed	\$9,500,000.00	11-Aug-20
00347	UPRR and BNSF Future Track Locations - Design	Executed	\$337,883.00	14-Aug-20
00346	Maintenance Setback from BNSF ROW - Design	Executed	\$1,170,936.06	14-Aug-20
00345	RM Tool Submittal Specific RVTM and CIL Modules	Executed	\$106,154.00	14-Aug-20
00350	Dry Creek Canal Culvert - Design	Executed	\$71,983.00	14-Aug-20
00328.01	Transfer of Funds from Contingency to Utility Provisional Sums - Supplementary 1	Executed	\$7,000,000.00	19-Aug-20
00349	Fresno Trench South Spur Lid - Design	Executed	\$334,106.00	26-Aug-20
Total:			\$22,084,110.06	

CP 1 – Risk - Contingency Report

CP 1 – Risk - Contingency Report

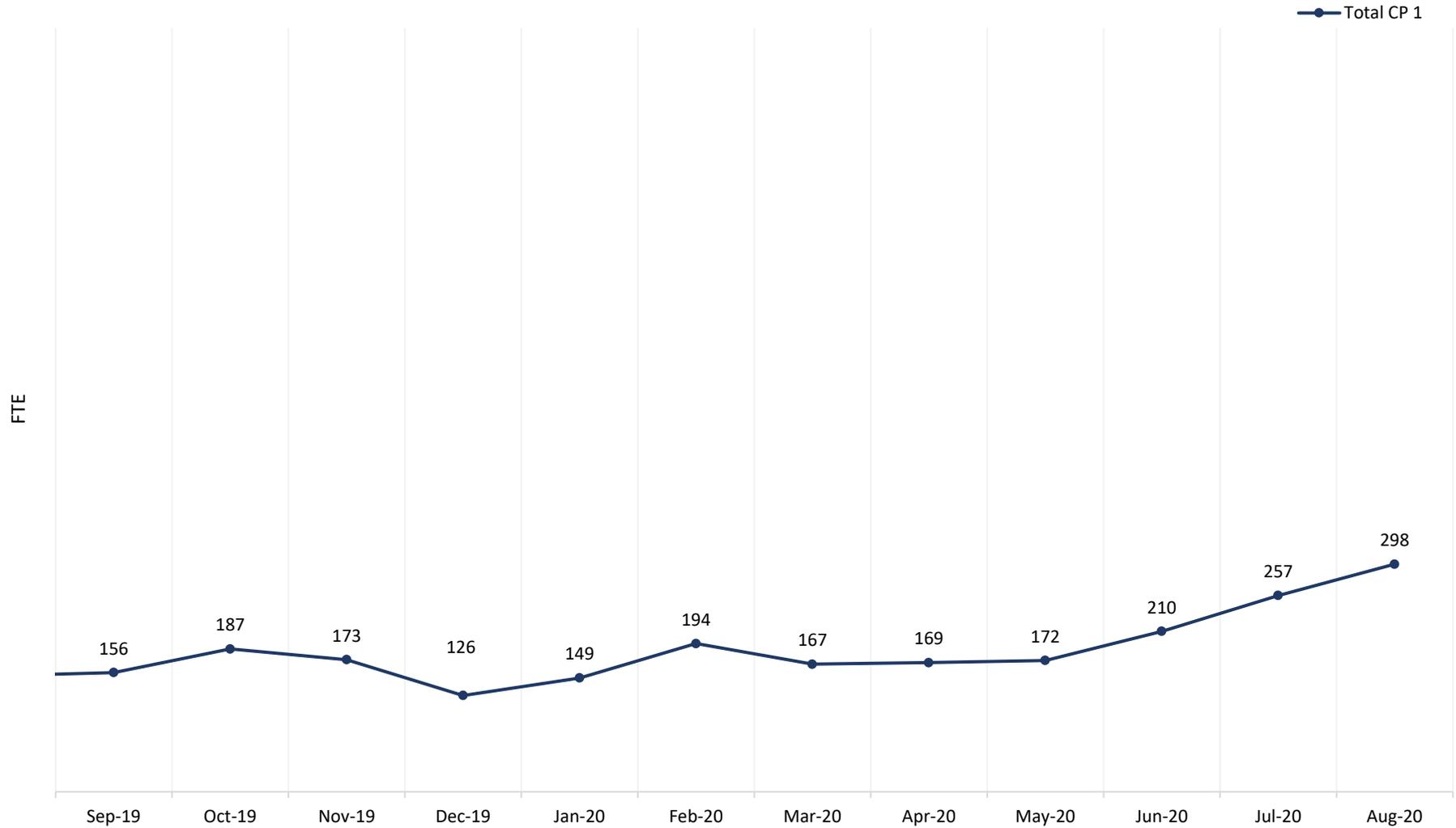


Notes:

1. The Program Baseline Update was presented to and accepted by the Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 1 Project.
2. Contract through August 31, 2020.
3. Remaining contingency balance reflects Executed change orders only.

CP 1 – Monthly Construction Workforce Total

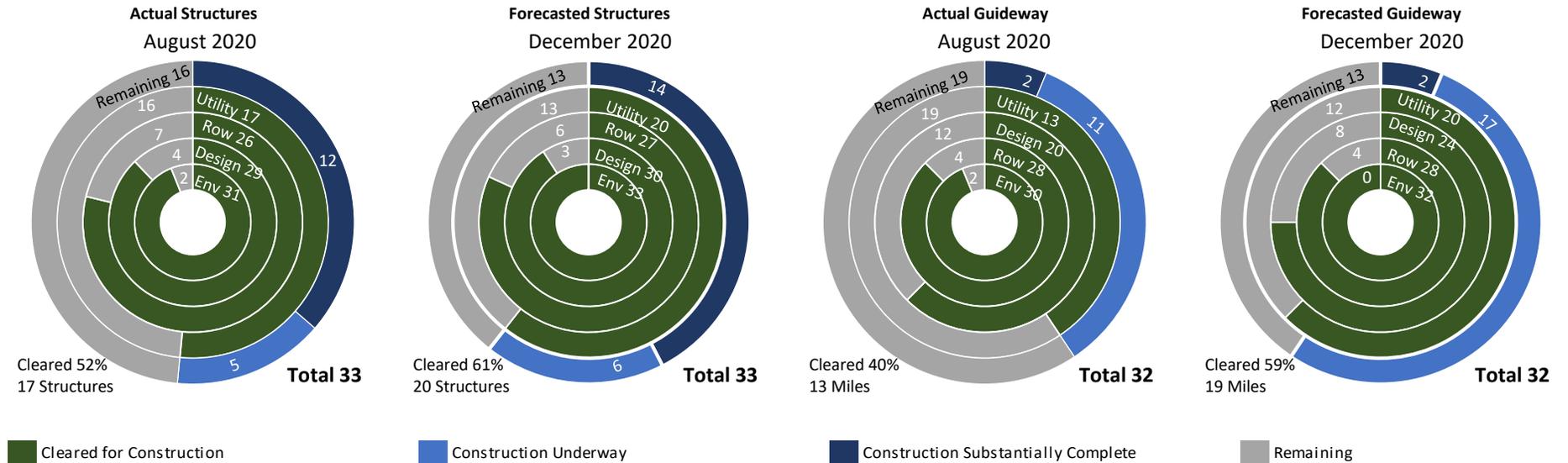
CP 1 – Monthly Construction Workforce Total – Actual



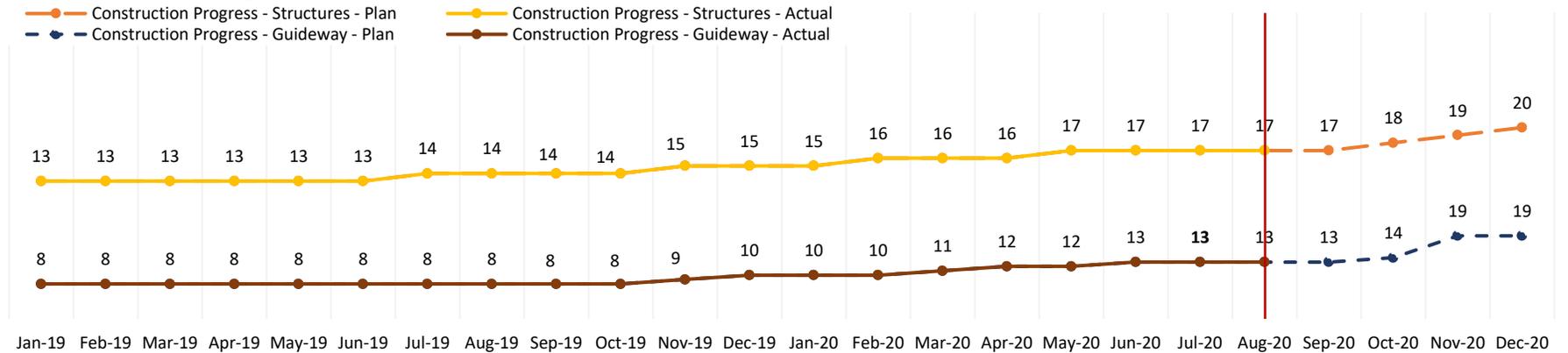
- Notes:**
1. The Construction Labor numbers (Full-Time Employees) are based on the working calendar month.
 2. The December 2019 reporting number shows a sharp decrease due to the holiday week of December 23rd through December 31st.
 3. The data from July 2019 to April 2020 was previously presented with data from each month's final week. The data has been updated to represent more accurately the overall total on a per working calendar month average status.

CP 1 – Construction Progress

CP 1 – Construction Progress



CP 1 – Construction Progress to Completion – Planned vs. Actual

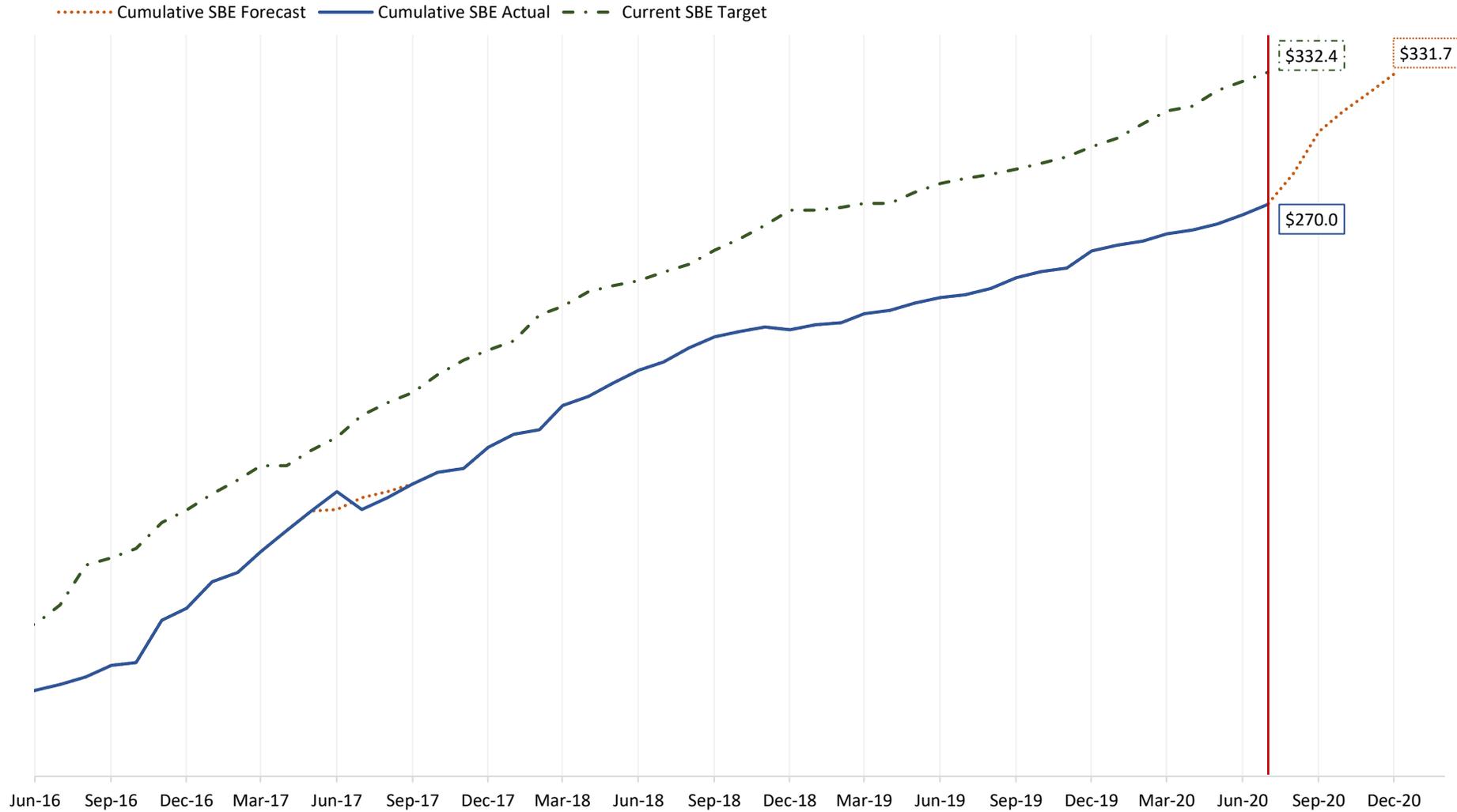


Notes:

1. Total Structures: 33 structures.
2. Total Guideway: 32 miles (this does not include SR-99 section) Guideway was added to the Caltrans contract resulting in a guideway total of approximately 32 miles.
3. The Forecasted Structures and Guideway are based on the Authority's Conditional Acceptance of CP 1's Revised Baseline Schedule (RBS) as of August 2020.

CP 1 – Small Business Enterprise

TPZP CP-1 – Historical Progress Toward 30% SB Goal Based on Paid to Date Values (\$M)



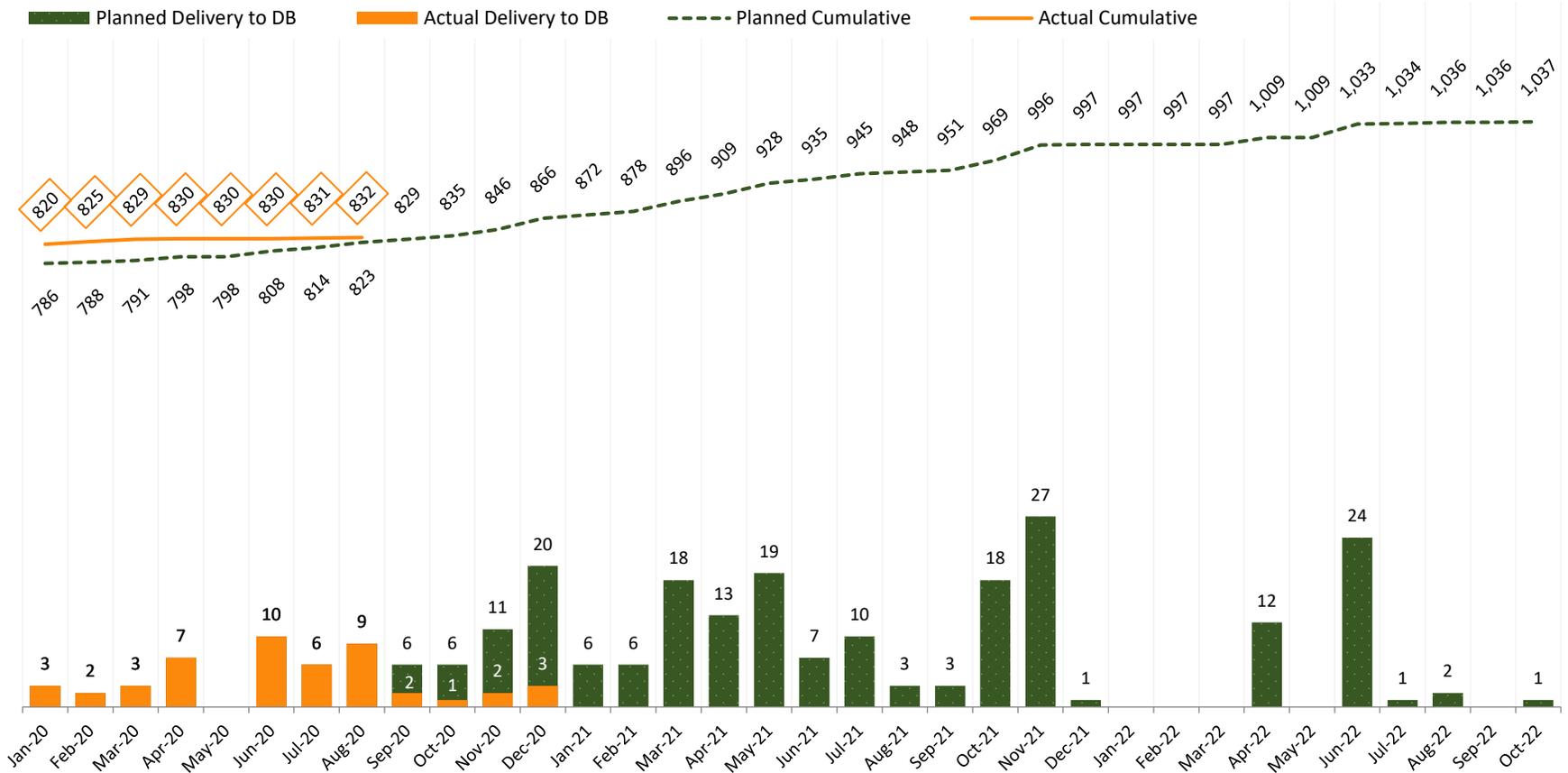
Notes:

1. Number of SBE Awarded Contracts: 100 Contracts.
2. Value of Current SBE Awarded Contracts: \$491M.
3. Overall Current SBE Status: 24.36%. \$270,013,712.41 expended through July 2020.
4. Information reflects ONLY Central Region Construction Package 1-4 Small Business Utilization and DOES NOT include Small Business utilization data for any other California High-Speed Rail Authority contract.

CP 1 – ROW Summary

Construction Package	Total Needed Parcels August 31, 2020	Total Parcels Delivered to Date August 31, 2020	Remaining Parcels to be Delivered August 31, 2020
CP 1	1,037	832	205

CP 1 – Parcel Delivery to DB Summary



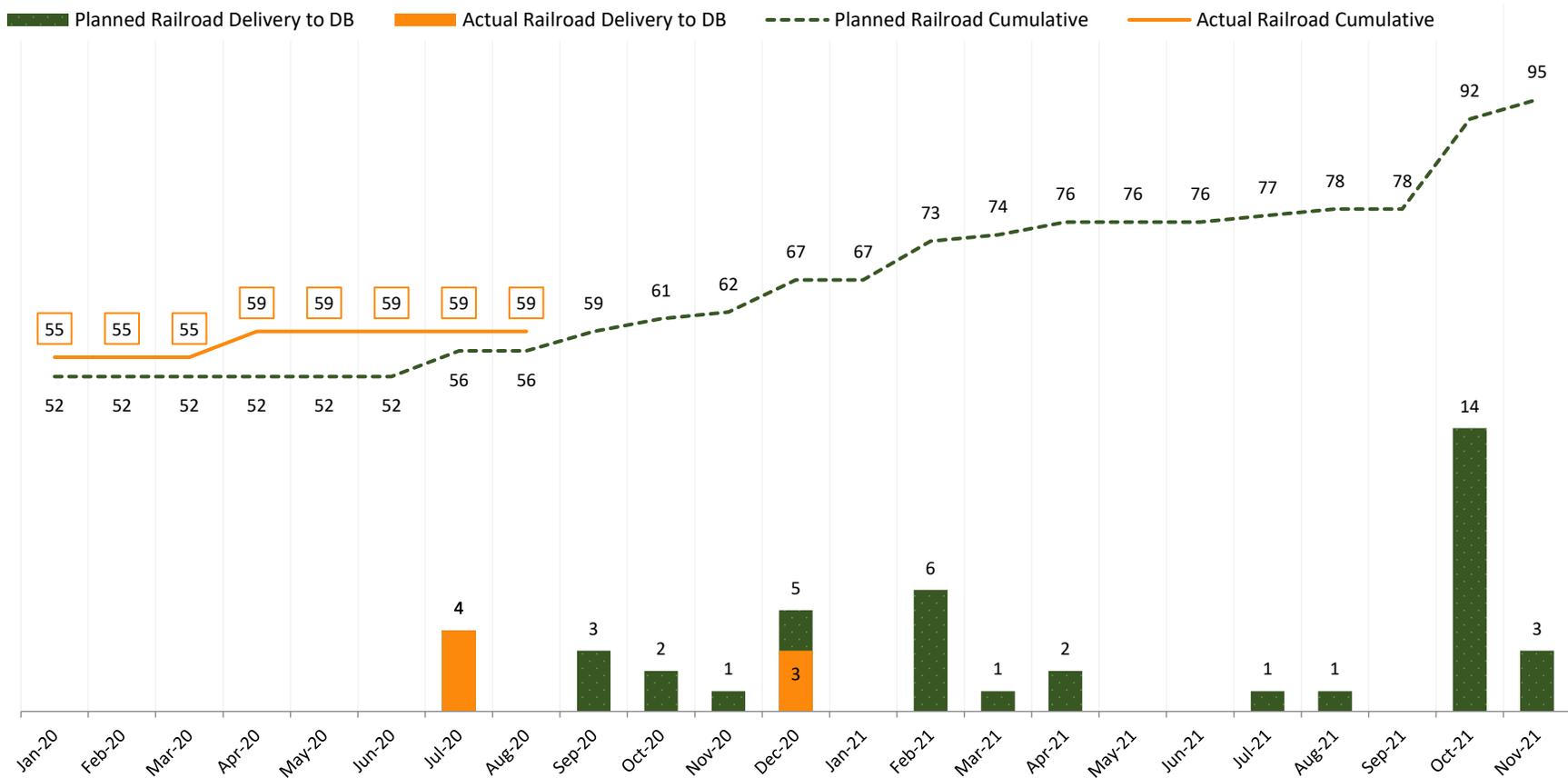
Notes:

1. This reflects the current Revised Baseline Schedules (RBSs) for CP 1.
2. Planned Delivered to DB parcels may be adjusted periodically based on continued refinement of the RBS.
3. Actual cumulative line for August 2020 reflects delivered parcels that are forecasted in future months.
4. Actual Delivered to DB for July 2020 adjusted from last month's report due to parcel recategorization.

CP 1 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels August 31, 2020	Total Railroad Parcels Delivered to Date August 31, 2020	Remaining Railroad Parcels to be Delivered August 31, 2020
CP 1	95	59	36

CP 1 – Railroad Parcel Delivery to DB Summary



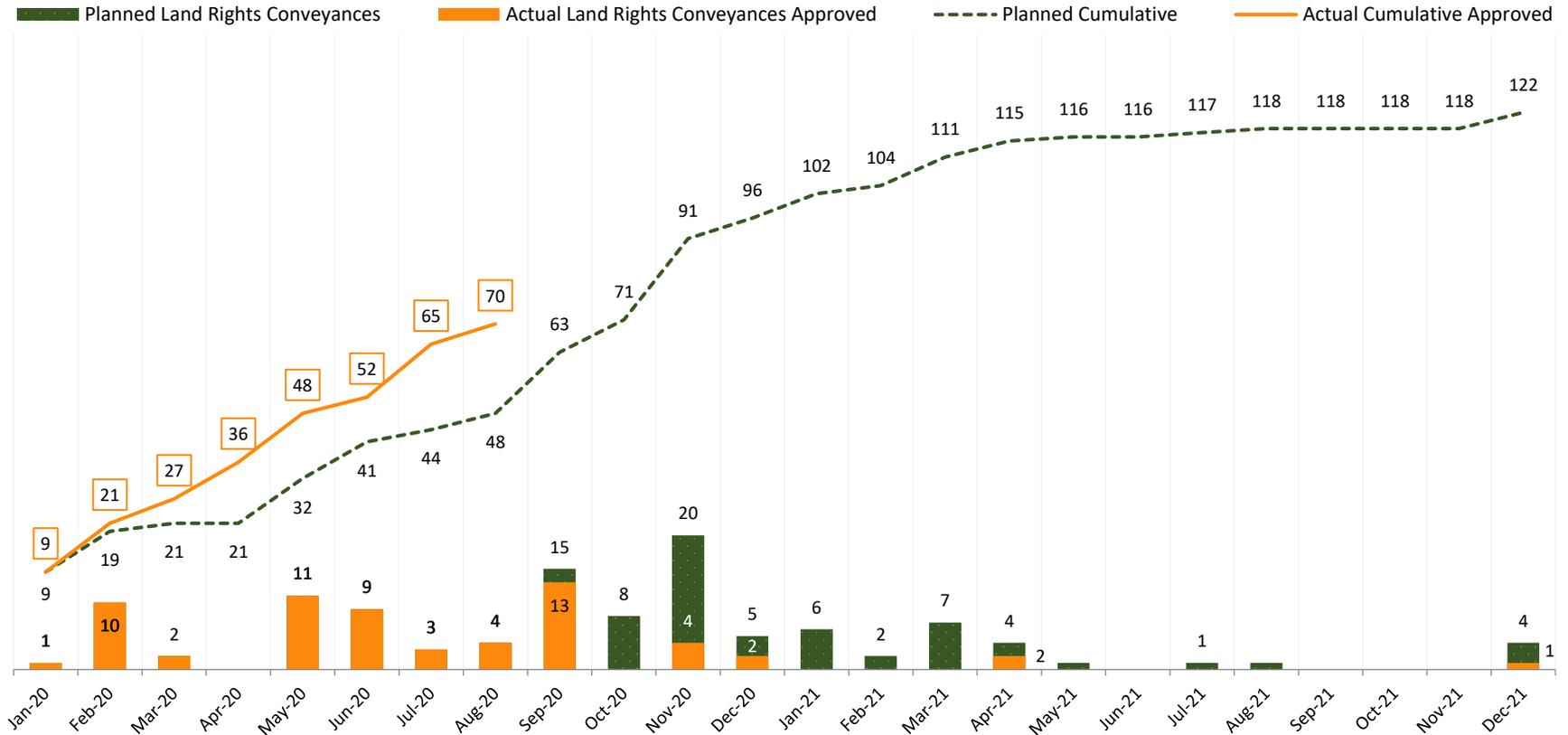
Notes:

1. This reflects the current Railroad Revised Baseline Schedules (RBSs) for CP 1.
2. Planned Railroad Delivery to DB parcels may be adjusted periodically based on continued refinement of the RBS.

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, 2020	Total Land Right Conveyances Approved ⁵ to Date August 31, 2020	Remaining Land Right Conveyances to be Approved August 31, 2020
CP 1	122	70	52

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



Notes:

1. This projection has been revised based on the Revised Baseline Schedules (RBSs).
2. The PG&E letter agreement (executed May 6, 2020) temporarily reclassified numerous critical land right conveyances as non-critical for construction and is reflected above.
3. Actual Cumulative for August 2020 includes completed land right conveyances that are forecasted in future months.
4. Planned land right conveyances were adjusted from last month's report due to continued refinement of the RBS.
5. 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

Milestones

Milestone	Date
RFQ Date:	10/09/2013
SOQ Date:	12/13/2013
RFP Date:	04/03/2014
Proposal:	10/30/2014
Bid Open Date:	12/11/2014
Award Date:	06/10/2015
NTP 1 Date:	06/12/2015
NTP 2 Date:	07/25/2015
Original Completion Date:	08/19/2019
Current Substantial Completion Date²:	12/18/2022

Contract Time Status

Description	Duration ³
Original Contract Days:	1,486
Extension of Time Awarded:	1,284
Current Contract Days:	2,770
Work Days Spent (thru 08/31/2020):	1,864

Expended to Date

Description	Percentage
Time:	67.3%
Dollars:	61.1%

Growth Percentage

Description	Percentage
Time:	86.4%
Dollars:	37.7%

Contract Value

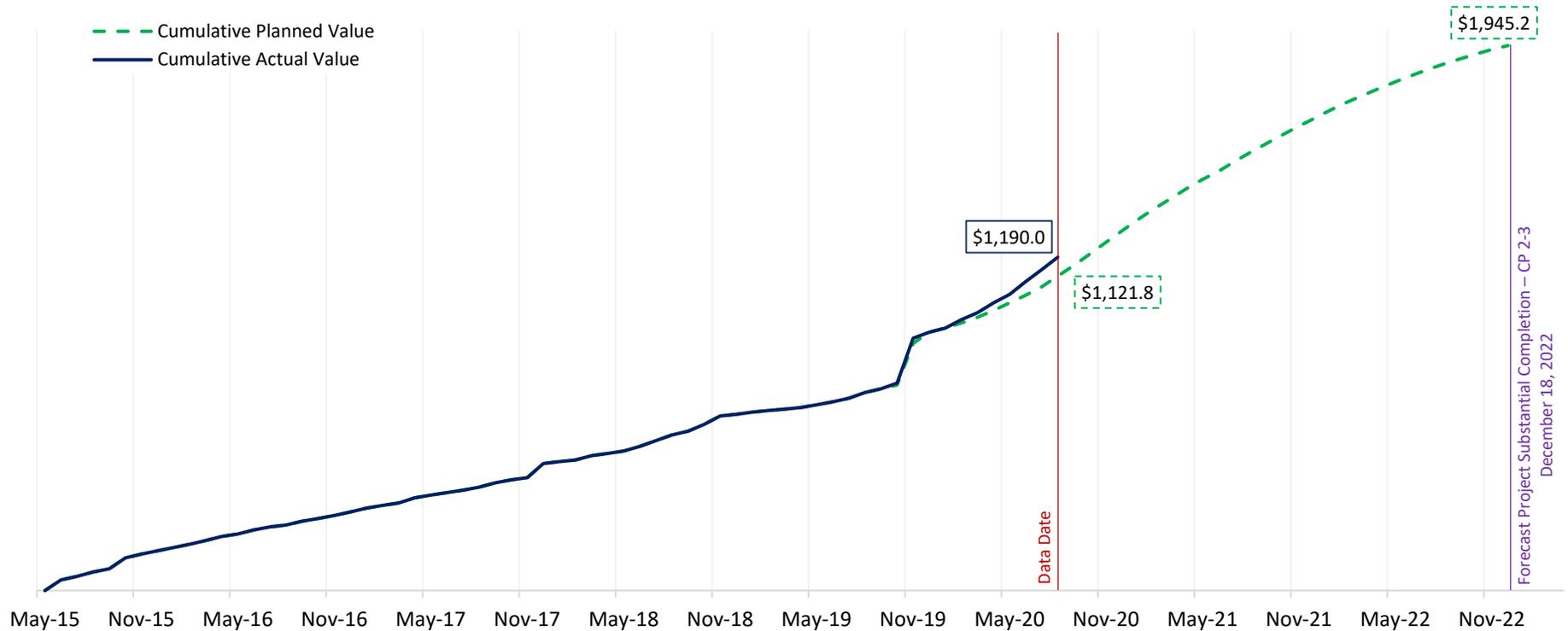
Description	Amount
Fixed Bid Price:	\$1,205,335,890.00
Provisional Sums:	\$160,000,000.00
Original Contract Price:	\$1,365,335,890.00
Executed Change Orders:	\$579,902,819.00
Current Contract Amount:	\$1,945,238,709.00
Approved Invoices to Date ¹ :	\$1,190,019,035.04
Remaining Contract Balance:	\$755,219,673.96

Notes:

1. Includes actuals through August 2020 and estimate for September 2020.
2. Current RBS Substantial Completion Forecast Date (Pending Executed Change Order Letter Issuance) – December 18, 2022.
3. Calendar Days.

CP 2-3 – Earned Value

CP 2-3 – Planned vs. Actual Expenditures from Contract Award through Contract Completion (\$ Millions)



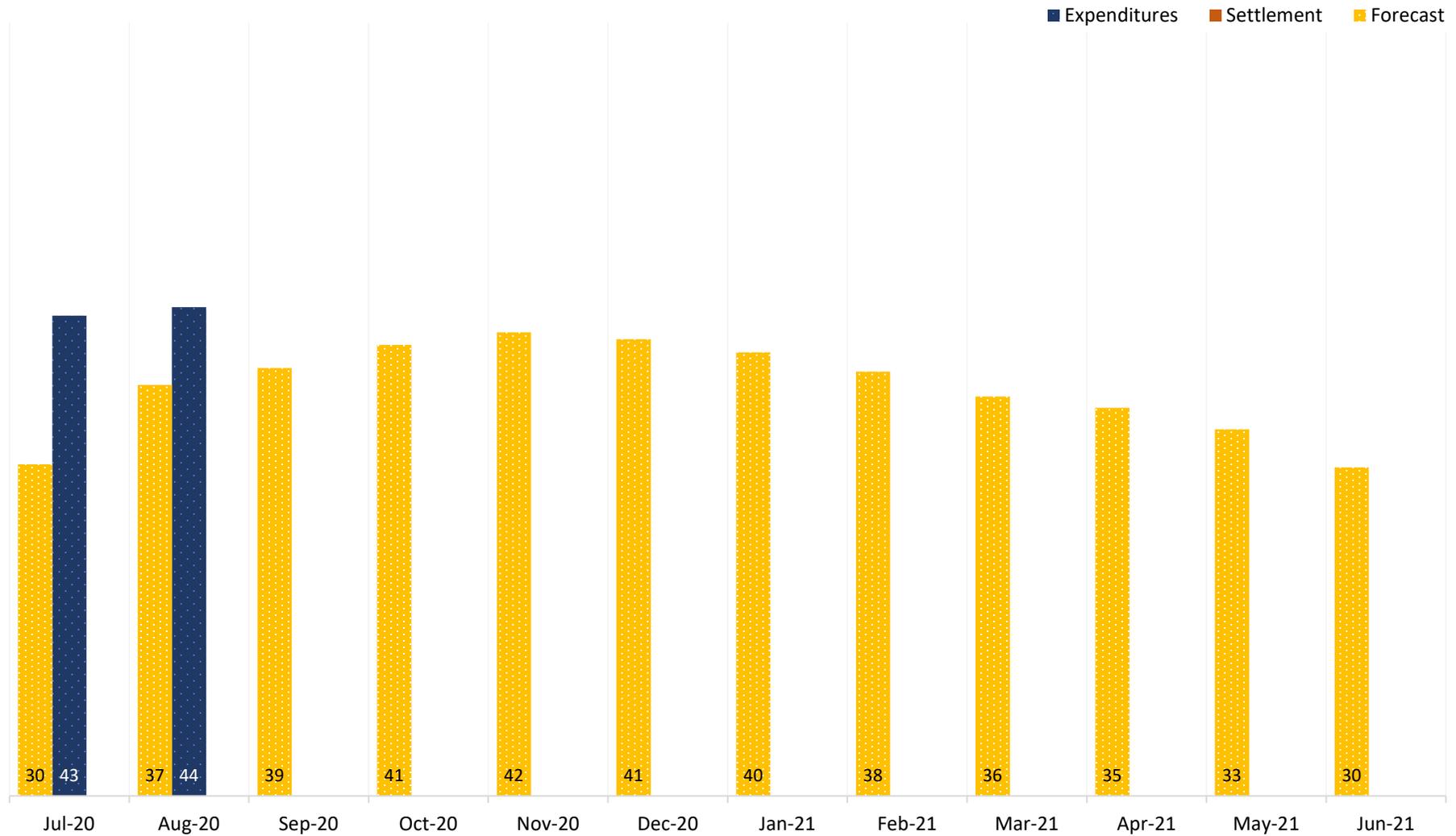
CP 2-3 – Projected Milestones

Milestone	Date	Milestone	Date
Main Design Complete	Dec-20 ⁴	Environmental Clearance Complete	May-20 Complete
ROW Critical Parcels Acquisition Complete	Jan-21	Utility Relocation Complete	Mar-21

- Notes:**
1. The Planned Value and Contract Substantial Completion Date are based on the CP 2-3 Proposed Revised Baseline Schedule as of July 2020. This is expected to be refined as future change orders are issued.
 2. The Current Contract Value does not include unexecuted change orders including Project 517, the latest TIA settlement, and IPB change orders.
 3. Main Design has been pushed to December 2020 as the DB, PCM, Caltrans and BNSF address design delays for the utility relocations, which is critically impacting the schedules.

CP 2-3 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 2-3 – Fiscal Year Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoices.
2. The projections are being monitored against the Conditional Acceptance of CP 2-3's Revised Baseline Schedule (RBS) as of August 2020.

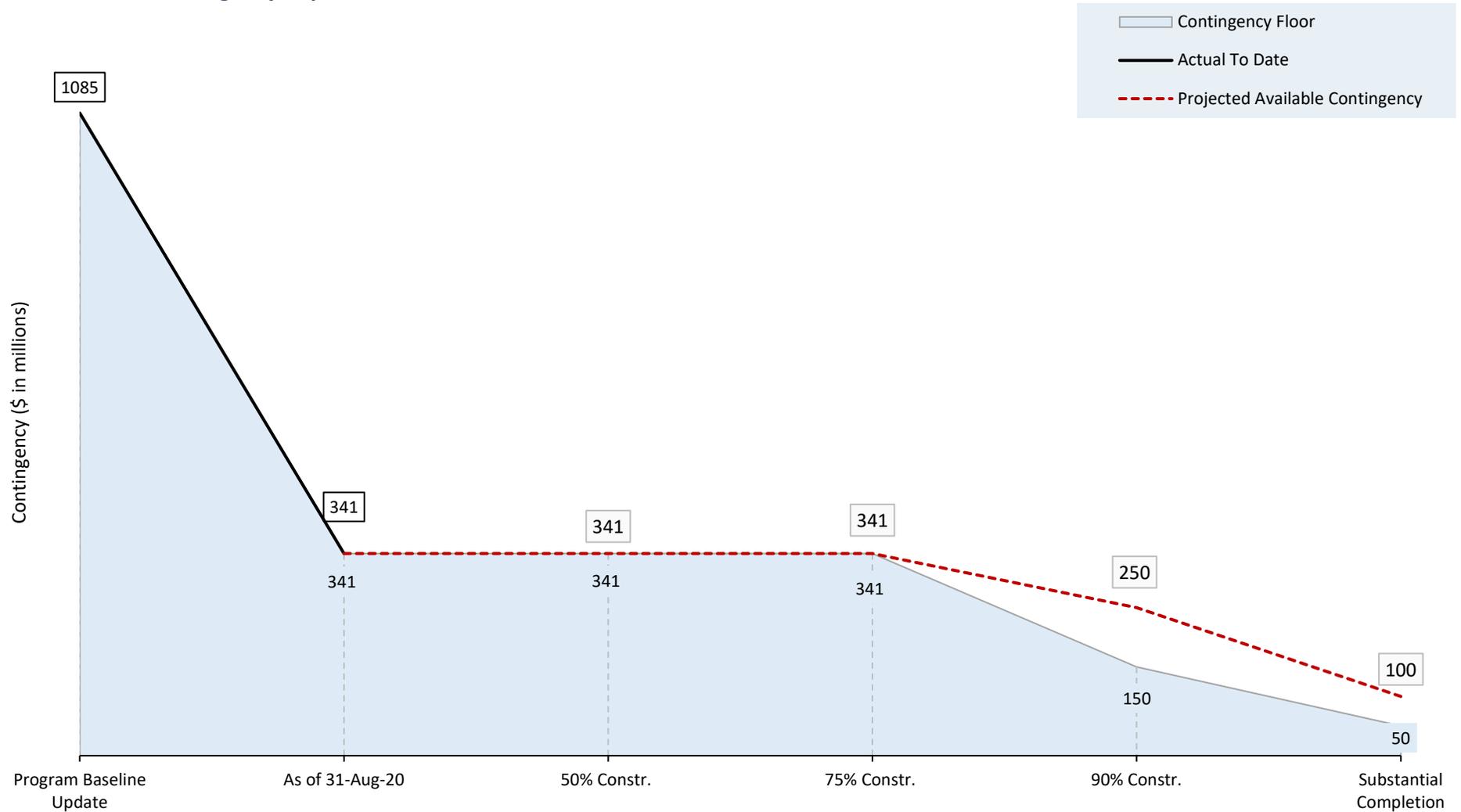
CP 2-3 – Executed Change Order Status

CP 2-3 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
000160	Hanford HST Access Road	Executed	\$66,953.00	5-Aug-20
00153	Loss of Ditch - Subsidence	Executed	\$61,000,000.00	10-Aug-20
00161	Shoring on PDC at Flint Avenue	Executed	\$5,000.00	21-Aug-20
00158	Alpaugh Well Removal	Executed	\$14,418.00	21-Aug-20
0045.10	Escalation Costs - June 2020	Executed	\$599,785.00	21-Aug-20
00162	Tule River Detour	Executed	\$3,076,896.00	26-Aug-20
Total:			\$64,763,052.00	

CP 2-3 – Risk - Contingency Report

CP 2-3 – Risk - Contingency Report

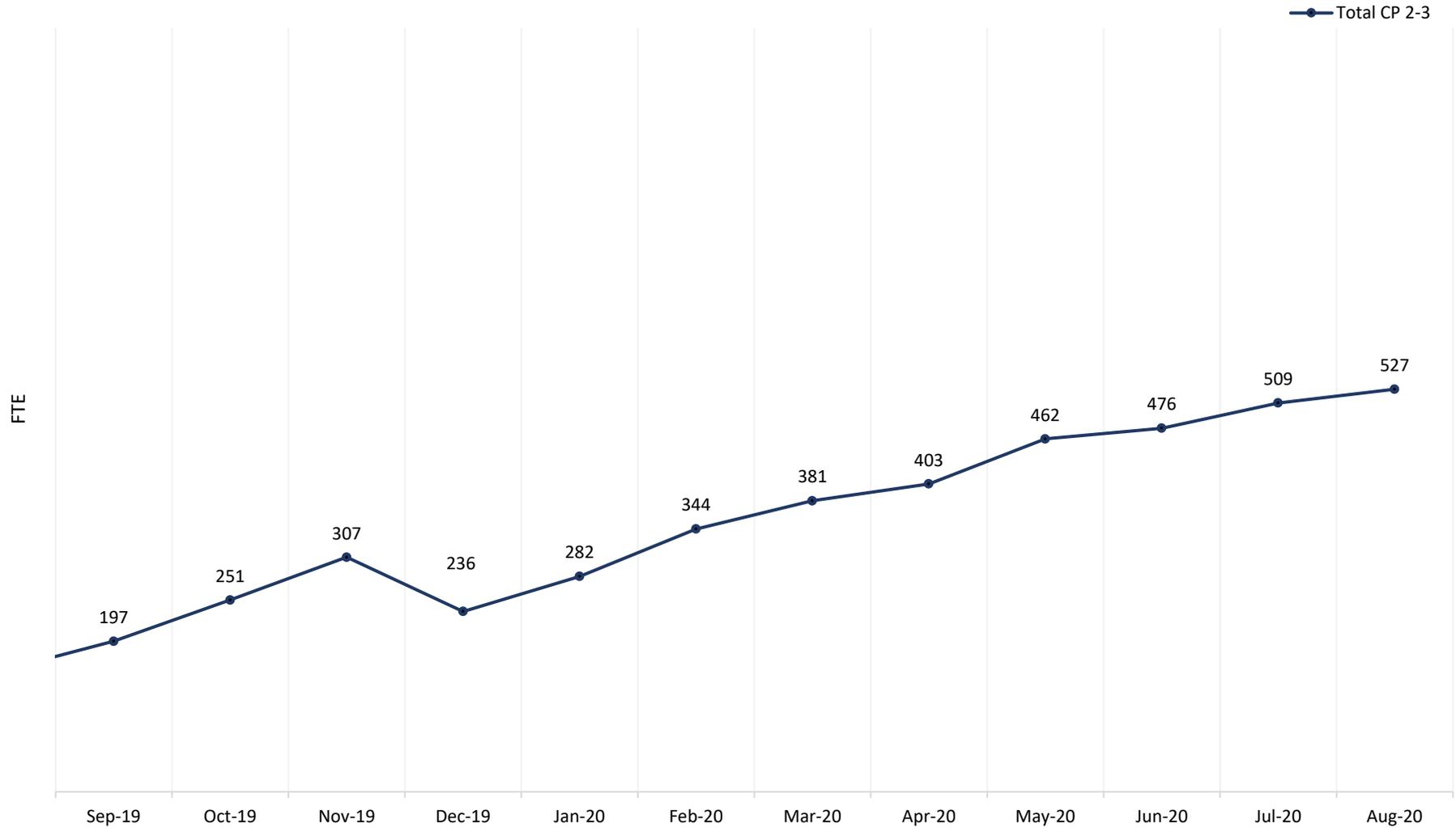


Notes:

1. The Program Baseline Update was presented to and accepted by the Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 2-3 Project.
2. Contract through August 31, 2020.
3. Remaining contingency balance reflects Executed change orders only.

CP 2-3 – Monthly Construction Workforce Total

CP 2-3 – Monthly Construction Workforce Total – Actual

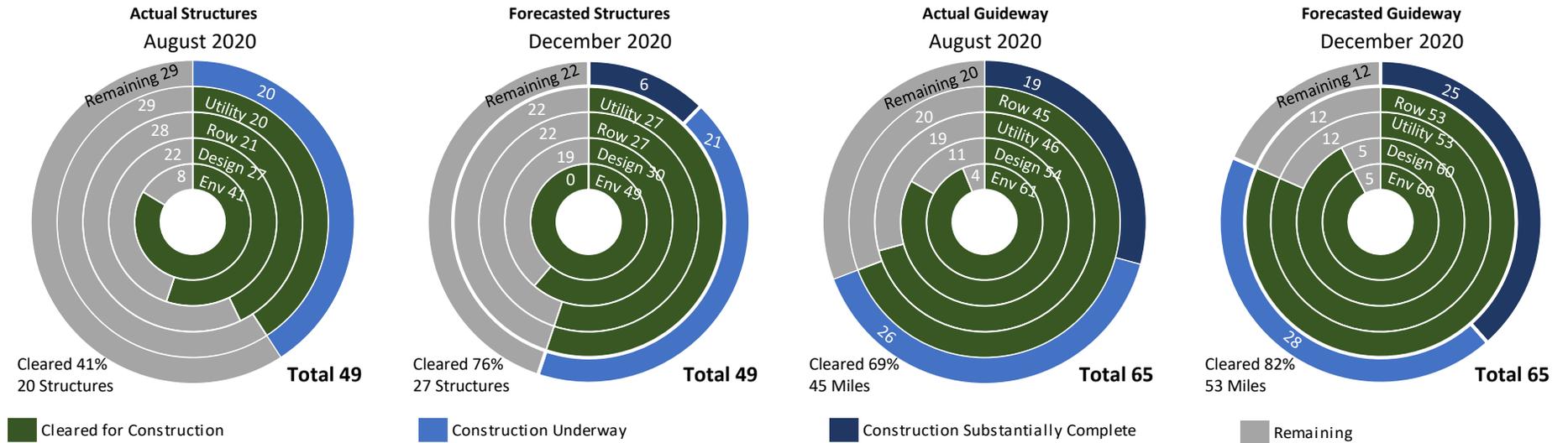


Notes:

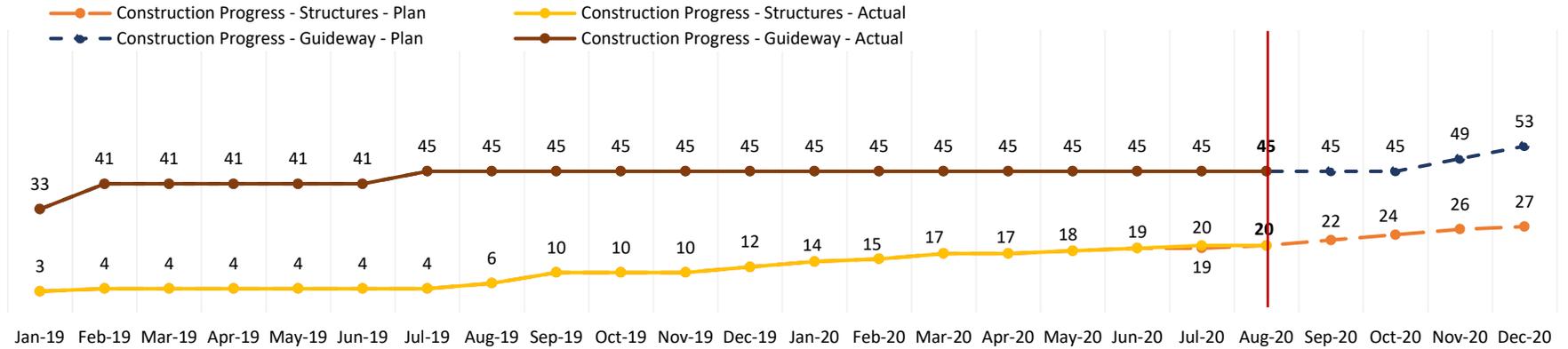
1. The Construction Labor numbers (Full-Time Employees) are based on the working calendar month.
2. The December 2019 reporting number shows a sharp decrease due to the holiday week of December 23rd through December 31st.
3. The data from July 2019 to April 2020 was previously presented with data from each month's final week. The data has been updated to represent more accurately the overall total on a per working calendar month average status.

CP 2-3 – Construction Progress

CP 2-3 – Construction Progress



CP 2-3 – Construction Progress to Completion – Planned vs. Actual

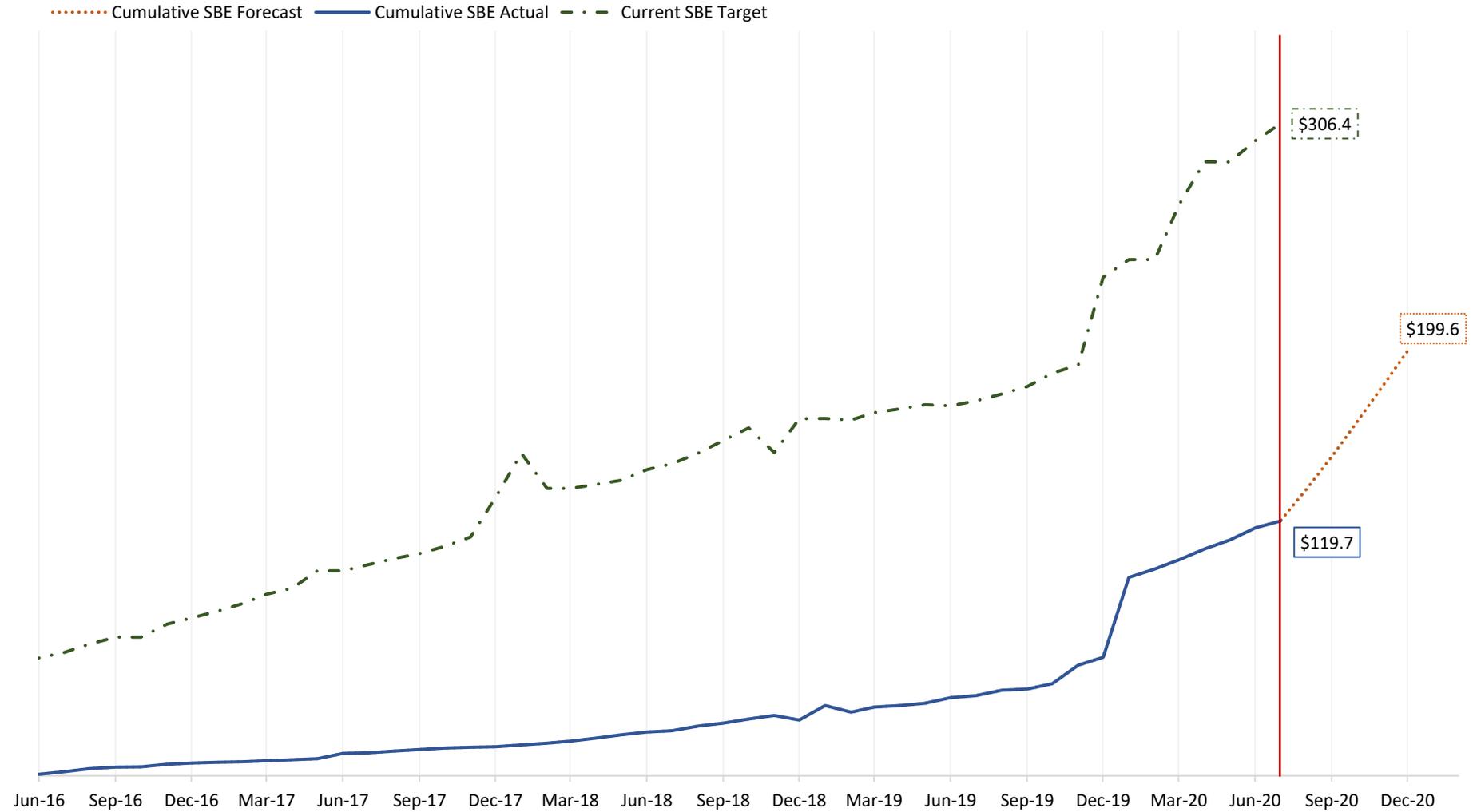


Notes:

1. Total Structures: 49 each. This count has been reduced from 50 due to combining the structures resulting from Project 517.
2. Total Guideway: 65 miles.
3. The Forecasted Structures and Guideway are based on the Authority's Conditional Acceptance of CP 2-3's Revised Baseline Schedule (RBS) as of August 2020.

CP 2-3 – Small Business Enterprise

DFJV CP 2-3 – Historical Progress Toward 30% SB Goal Based on Paid to Date Values (\$M)



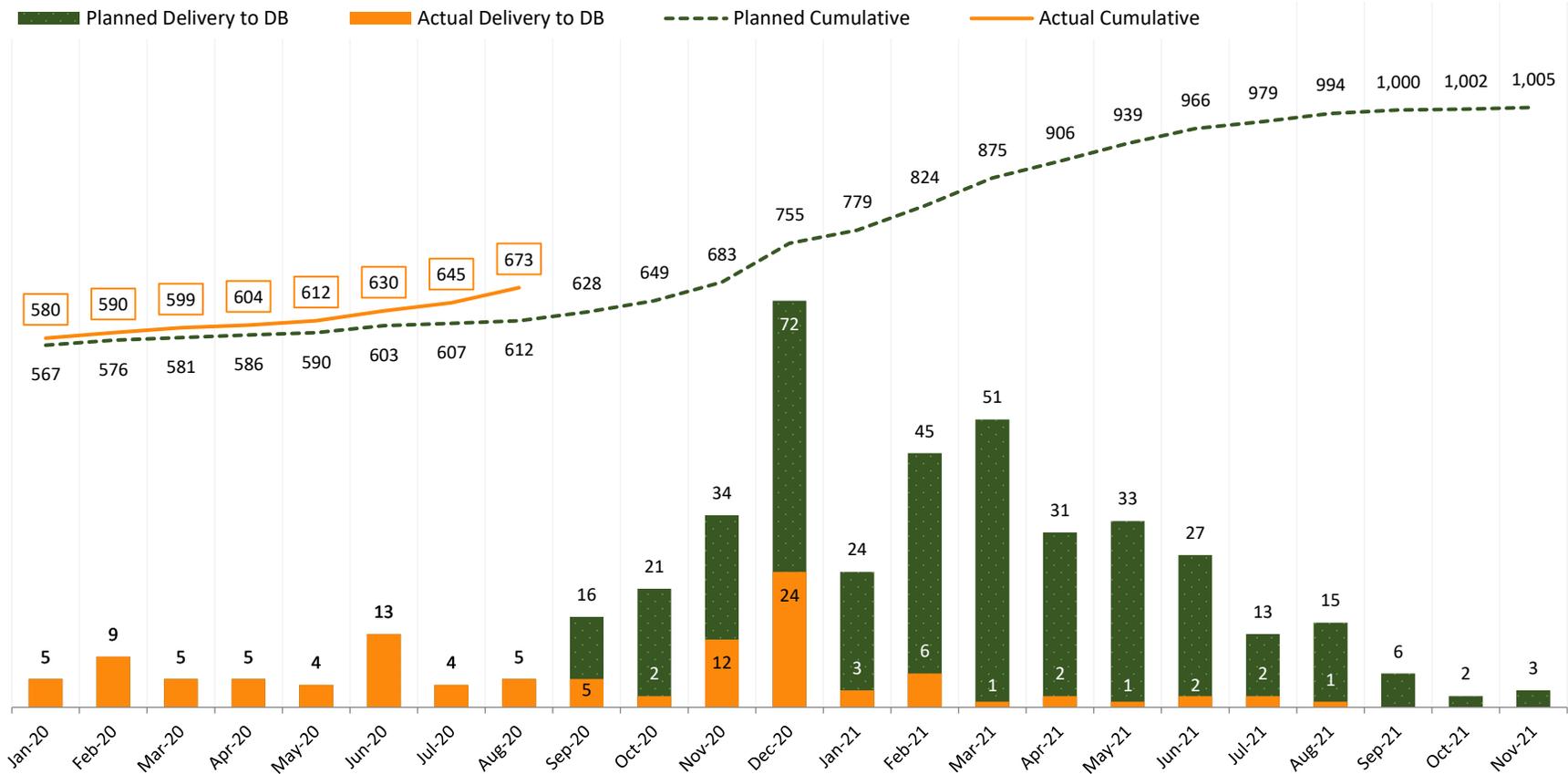
Notes:

1. Number of SBE Awarded Contracts: 130 Contracts.
2. Value of Current SBE Awarded Contracts: \$344M.
3. SBE Overall Status: 11.72%. \$119,655,924.11 expended through July 2020.
4. Information reflects ONLY Central Region Construction Package 1-4 Small Business Utilization and DOES NOT include Small Business utilization data for any other California High-Speed Rail Authority contract.

CP 2-3 – ROW Summary

Construction Package	Total Needed Parcels August 31, 2020	Total Parcels Delivered to Date August 31, 2020	Remaining Parcels to be Delivered August 31, 2020
CP 2-3	1,005	673	332

CP 2-3 – Parcel Delivery to DB Summary



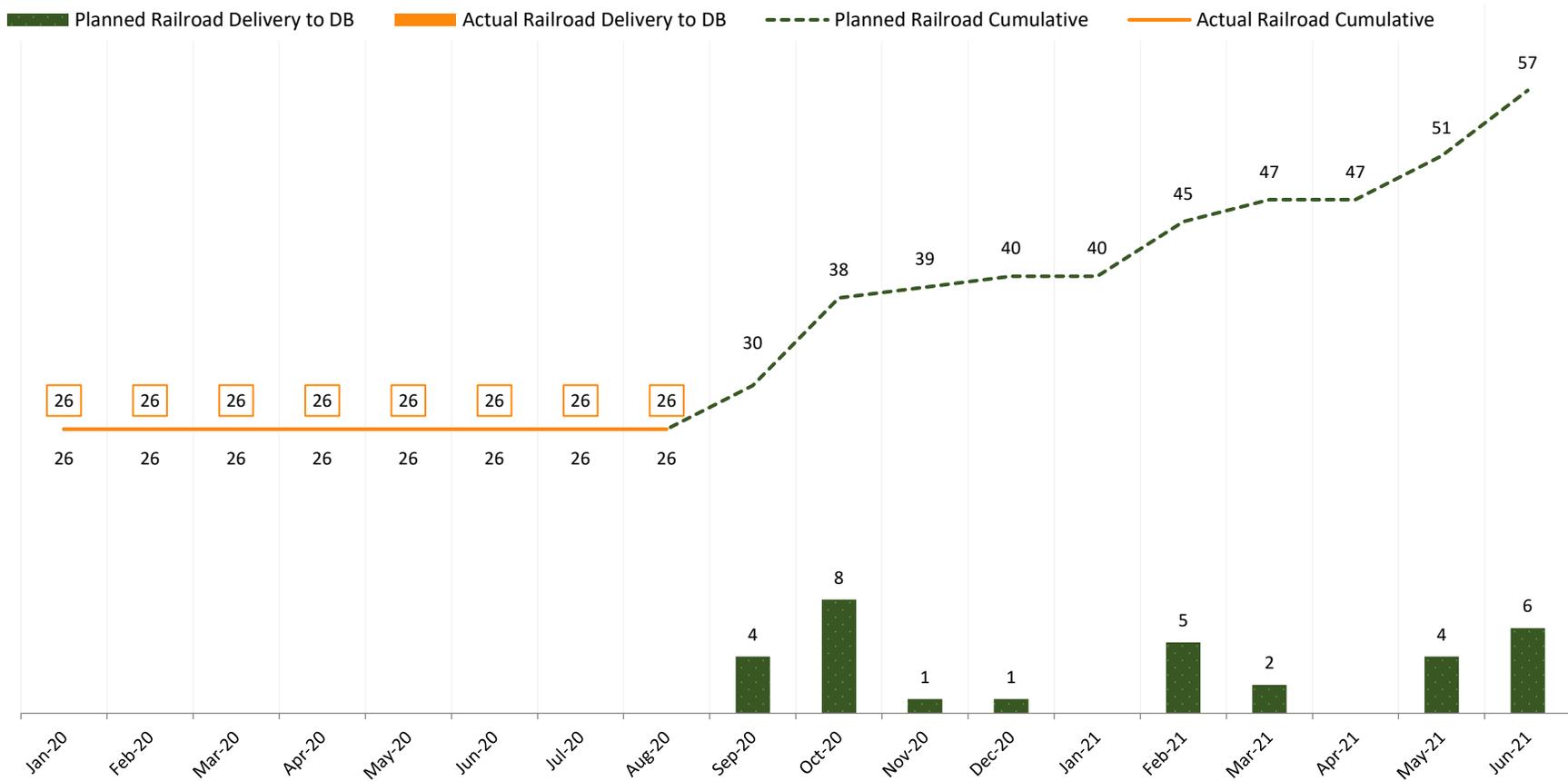
Notes:

1. This reflects the current Revised Baseline Schedules (RBSs) for CP 2-3.
2. Planned Delivered to DB parcels may be adjusted periodically based on continued refinement of the RBS.
3. Actual cumulative line for August 2020 reflects delivered parcels that are forecasted in future months.

CP 2-3 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels August 31, 2020	Total Railroad Parcels Delivered to Date August 31, 2020	Remaining Railroad Parcels to be Delivered August 31, 2020
CP 2-3	57	26	31

CP 2-3 – Railroad Parcel Delivery to DB Summary



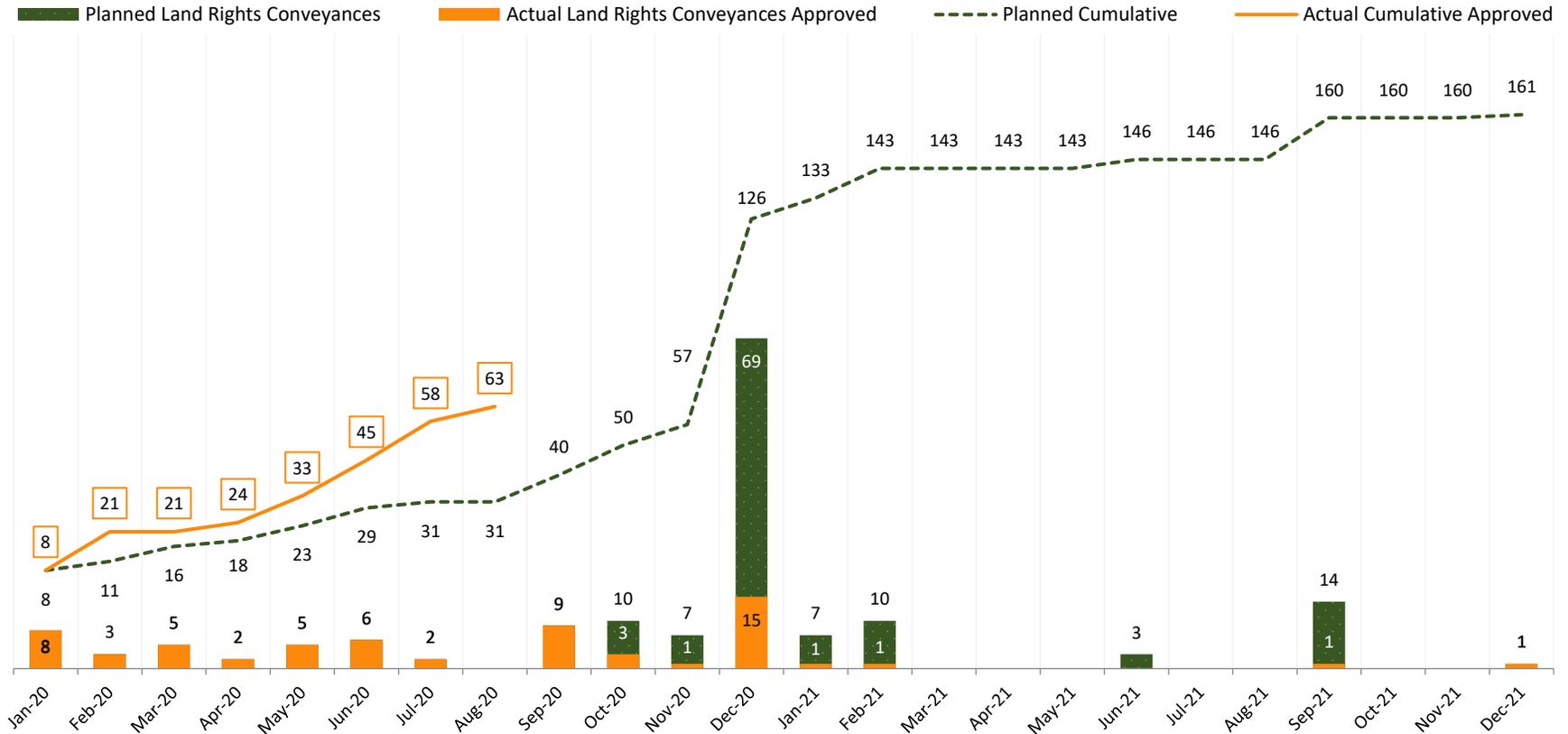
Notes:

1. This reflects the current Railroad Revised Baseline Schedules (RBSs) for CP 2-3.
2. Planned Delivered to DB parcels may be adjusted periodically based on continued refinement of the RBS.
3. Total Needed Railroad Parcels in CP2-3 adjusted from last month's reporting by one parcel due to ownership redetermination.

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, 2020	Total Land Right Conveyances Approved ⁵ to Date August 31, 2020	Remaining Land Right Conveyances to be Approved August 31, 2020
CP 2-3	161	63	98

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



Notes:

1. This projection has been revised based on the Revised Baseline Schedules (RBSs).
2. The PG&E letter agreement (executed May 6, 2020) temporarily reclassified numerous critical land right conveyances as non-critical for construction and is reflected above.
3. Actual Cumulative for August 2020 includes completed land right conveyances that are forecasted in future months.
4. Planned land right conveyances were adjusted from last month's report due to continued refinement of the RBS.
5. 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

Milestones

Milestone	Date
RFQ Date:	11/20/2014
SOQ Date:	01/30/2015
RFP Date:	05/27/2015
Proposal:	11/25/2015
Bid Open Date:	01/05/2016
Award Date:	02/29/2016
LNTP Date:	03/01/2016
NTP Date:	04/15/2016
Original Completion Date:	06/03/2019
Current Substantial Completion Date²:	12/15/2021

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:	\$156,403,552.62
Current Contract Amount:	\$600,650,552.62
Approved Invoices to Date ¹ :	\$356,289,663.00
Remaining Contract Balance:	\$244,360,889.62

Contract Time Status

Description	Duration ³
Original Contract Days:	1,144
Extension of Time Awarded:	987
Current Contract Days:	2,131
Work Days Spent (thru 08/31/2020):	1,579

Expended to Date

Description	Percentage
Time:	75.0%
Dollars:	59.3%

Growth Percentage

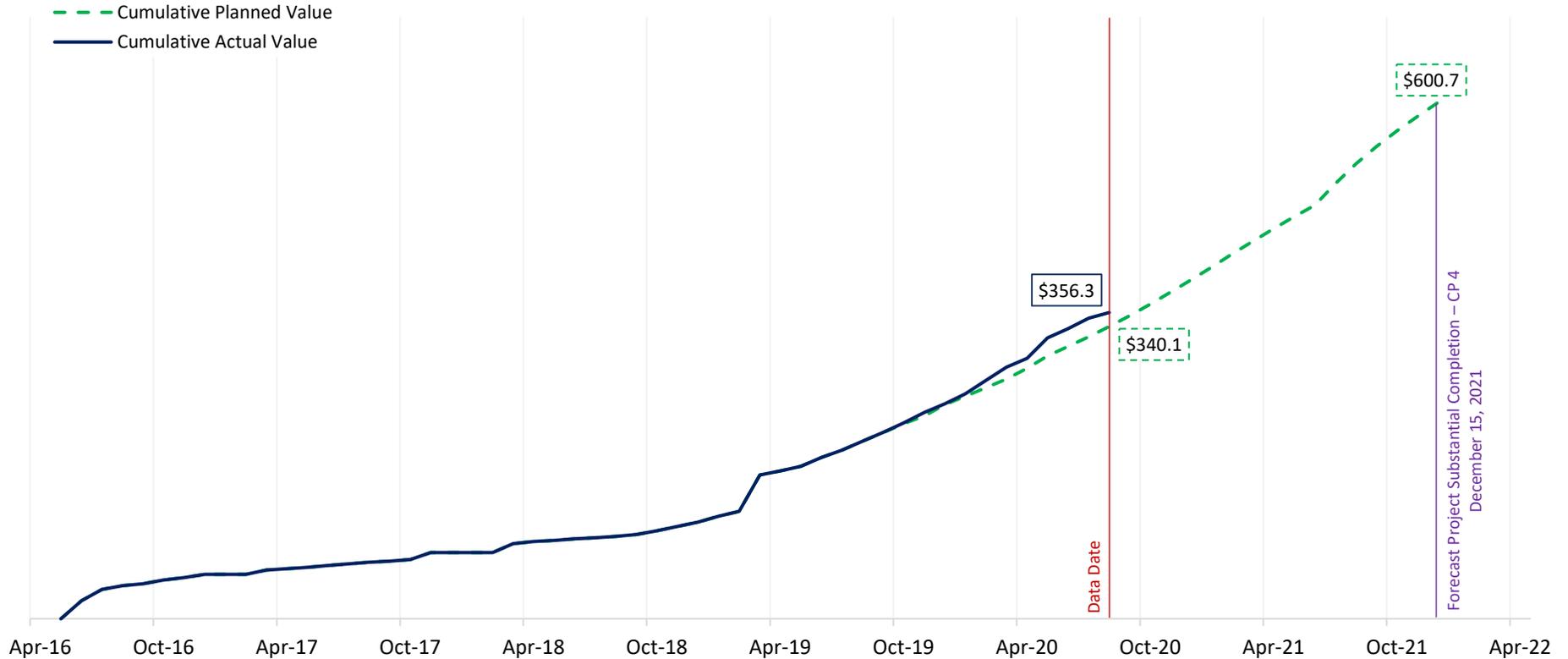
Description	Percentage
Time:	86.3%
Dollars:	35.2%

Notes:

1. Includes actuals through August 2020 and estimate for September 2020.
2. Current RBS Substantial Completion Forecast Date (Pending Executed Change Order Letter Issuance) – December 15, 2021.
3. Calendar Days.

CP 4 – Earned Value

CP 4 – Planned vs. Actual Expenditures from Contract Award Through Contract Completion (\$ Millions)



CP 4 – Projected Milestones

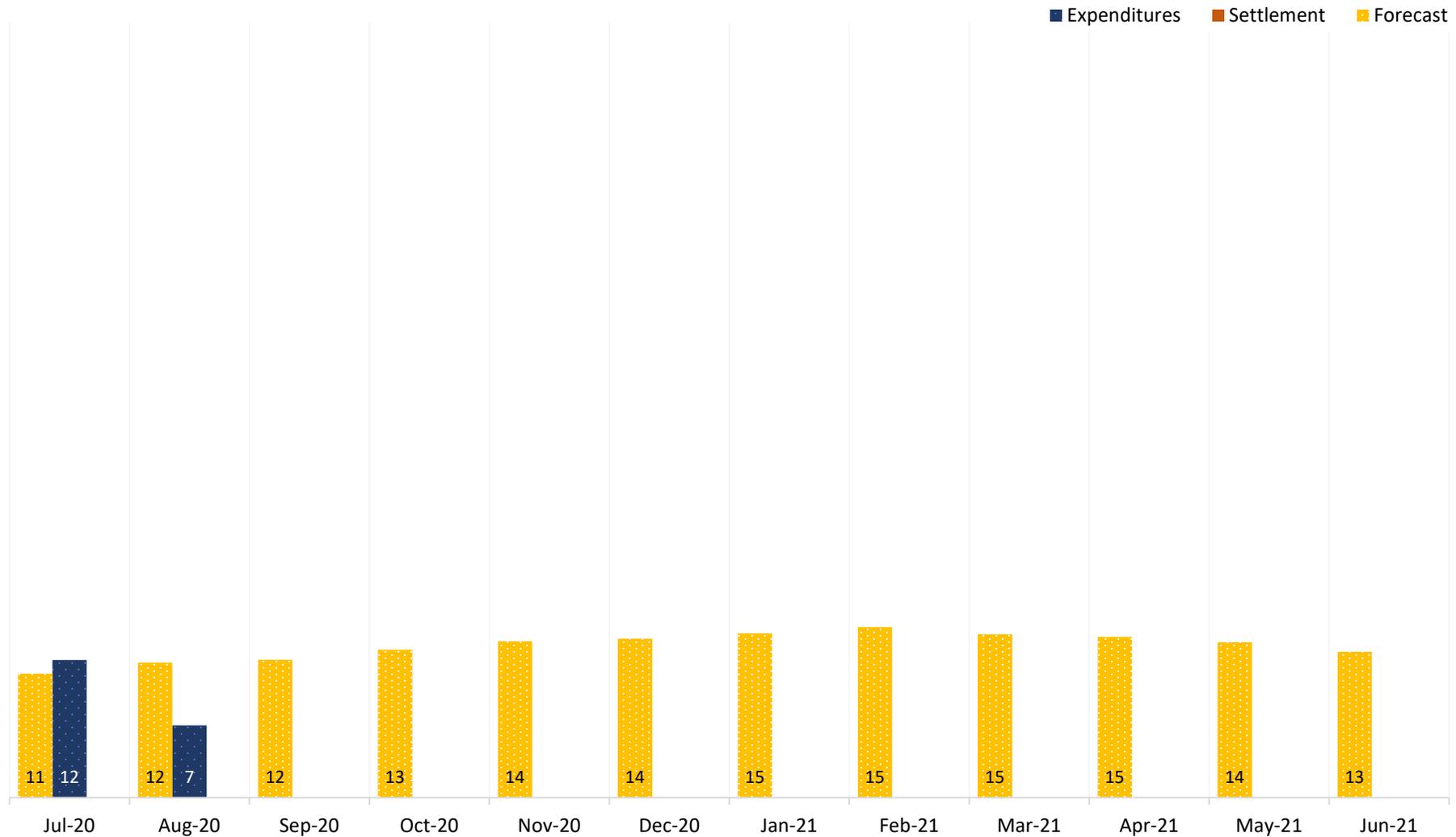
Milestone	Date
Main Design Complete	Feb-20 (Complete)
ROW Acquisition Complete	Dec-20

Milestone	Date
Environmental Clearance Complete	Nov-20 ³
Utility Relocation Complete	Mar-21

- Notes:**
- The above contract value does not include unexecuted change orders including SR-46 BNSF structure.
 - Environmental Clearance on lands requiring utility relocations delayed from July 2020 to November 2020 pending issuance of ITP Amendment, per California Rail Builders (CRB).
 - The Planned Value and Contract Substantial Completion Date (December 2021) are based on the Authority's Conditional Acceptance of CP 4's Revised Baseline Schedule (RBS) as of July 2020. This is expected to be refined as future change orders are issued and finalized.

CP 4 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 4 – Fiscal Year Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.
2. The projections are being monitored against the Conditional Acceptance of CP 4's Revised Baseline Schedule (RBS) as of August 2020.
3. Additional design review and third-party requirements resulted in unanticipated delays in construction at State Route 46, Poso Avenue undercrossing, and Peterson Road overcrossing.

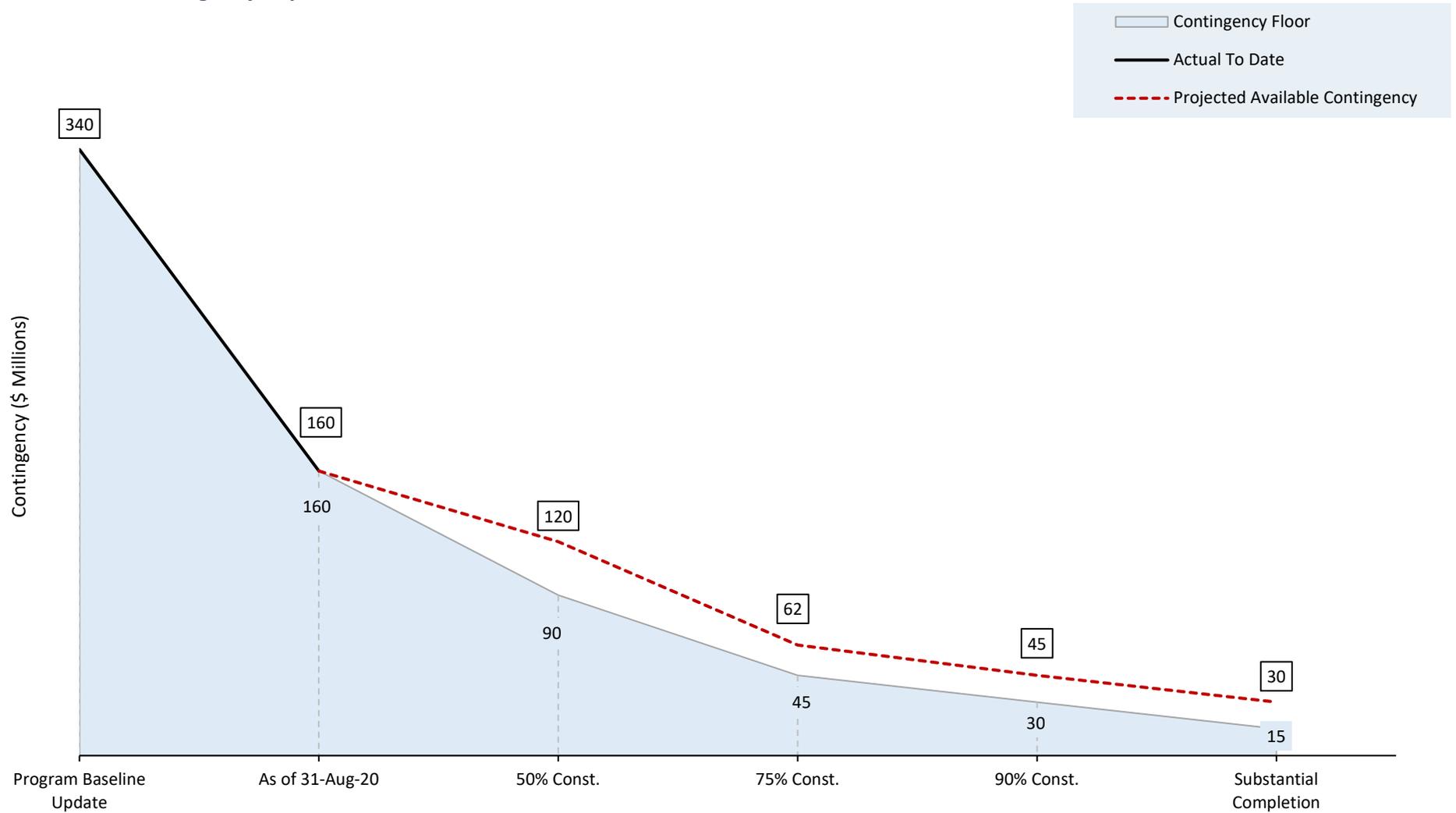
CP 4 – Executed Change Order Status

CP 4 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
0070	Additional Costs to Keep Active Zones Environmentally Cleared	Executed	\$1,171,185.66	12-Aug-20
0071	RAM Deliverables Accelerated Costs	Executed	\$36,191.65	20-Aug-20
0068	Lighting at McCombs and Merced Overpassing	Executed	\$1,510,728.93	27-Aug-20
0073	Kimberlina and Merced Access Road	Executed	\$42,016.58	27-Aug-20
0074	Mitigation Measures Semi-Tropic Conflict	Executed	\$3,531,000.00	28-Aug-20
0075	PGE Conflict Out of Sequence #3	Executed	\$968,522.57	28-Aug-20
0051R1	Claim Settlement for DL-00058 Dedicated Wildlife Crossing	Executed	\$5,444,957.80	31-Aug-20
Total:			\$12,704,603.19	

CP 4 – Risk - Contingency Report

CP 4 – Risk - Contingency Report

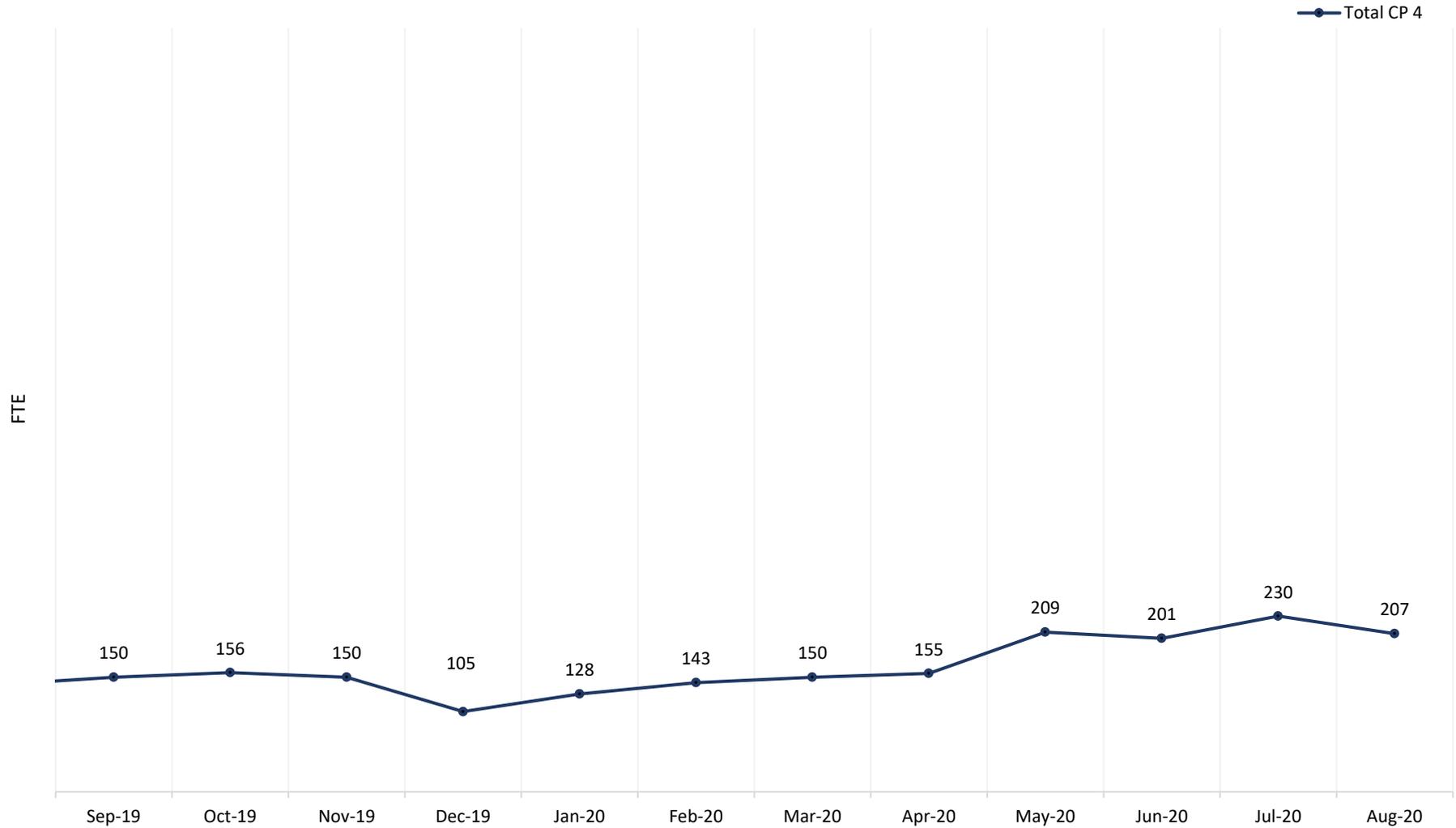


Notes:

1. The Program Baseline Update was presented to and accepted by the Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 4 Project.
2. Contract through August 31, 2020.
3. Remaining contingency balance reflects Executed change orders only.

CP 4 – Monthly Construction Workforce Total

CP 4 – Monthly Construction Workforce Total – Actual

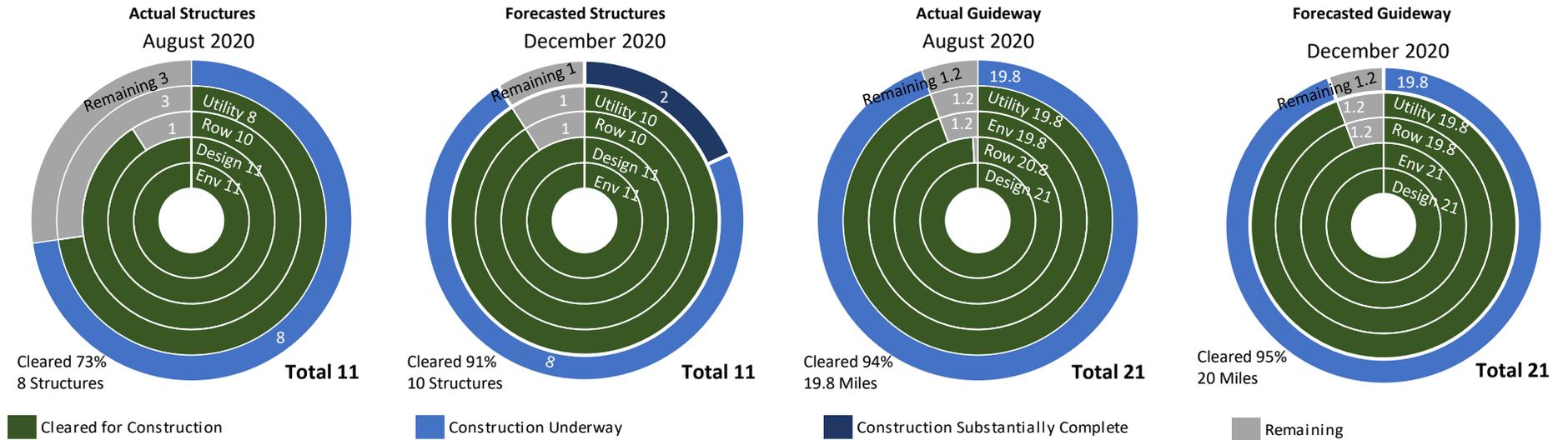


Notes:

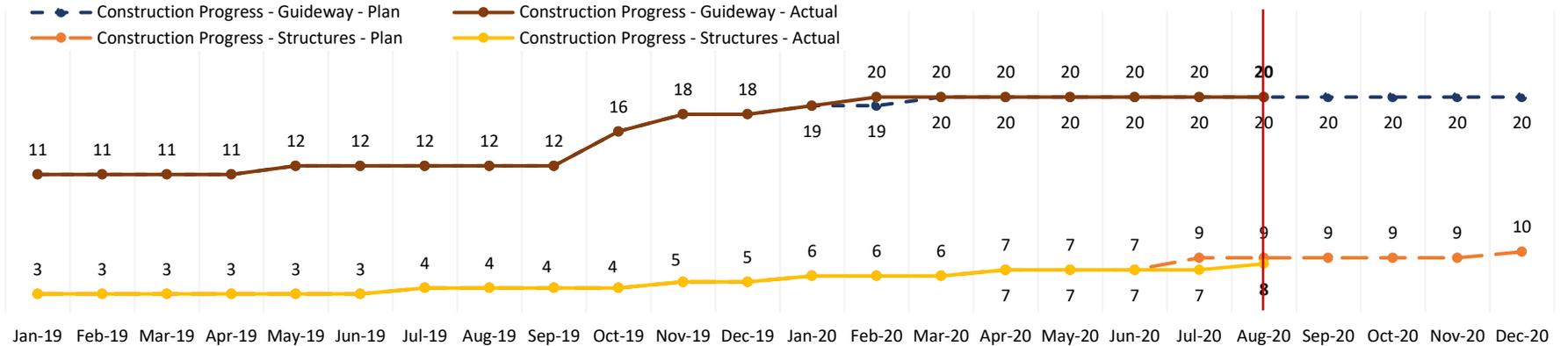
1. The Construction Labor numbers (Full-Time Employees) are based on the working calendar month.
2. The December 2019 reporting number shows a sharp decrease due to the holiday week of December 23rd through December 31st.
3. June 2020's total was overstated (225) and has been corrected to 201.
4. The data from July 2019 to April 2020 was previously presented with data from each month's final week. The data has been updated to represent more accurately the overall total on a per working calendar month average status.

CP 4 – Construction Progress

CP 4 – Construction Progress



CP 4 – Construction Progress to Completion – Planned vs. Actual



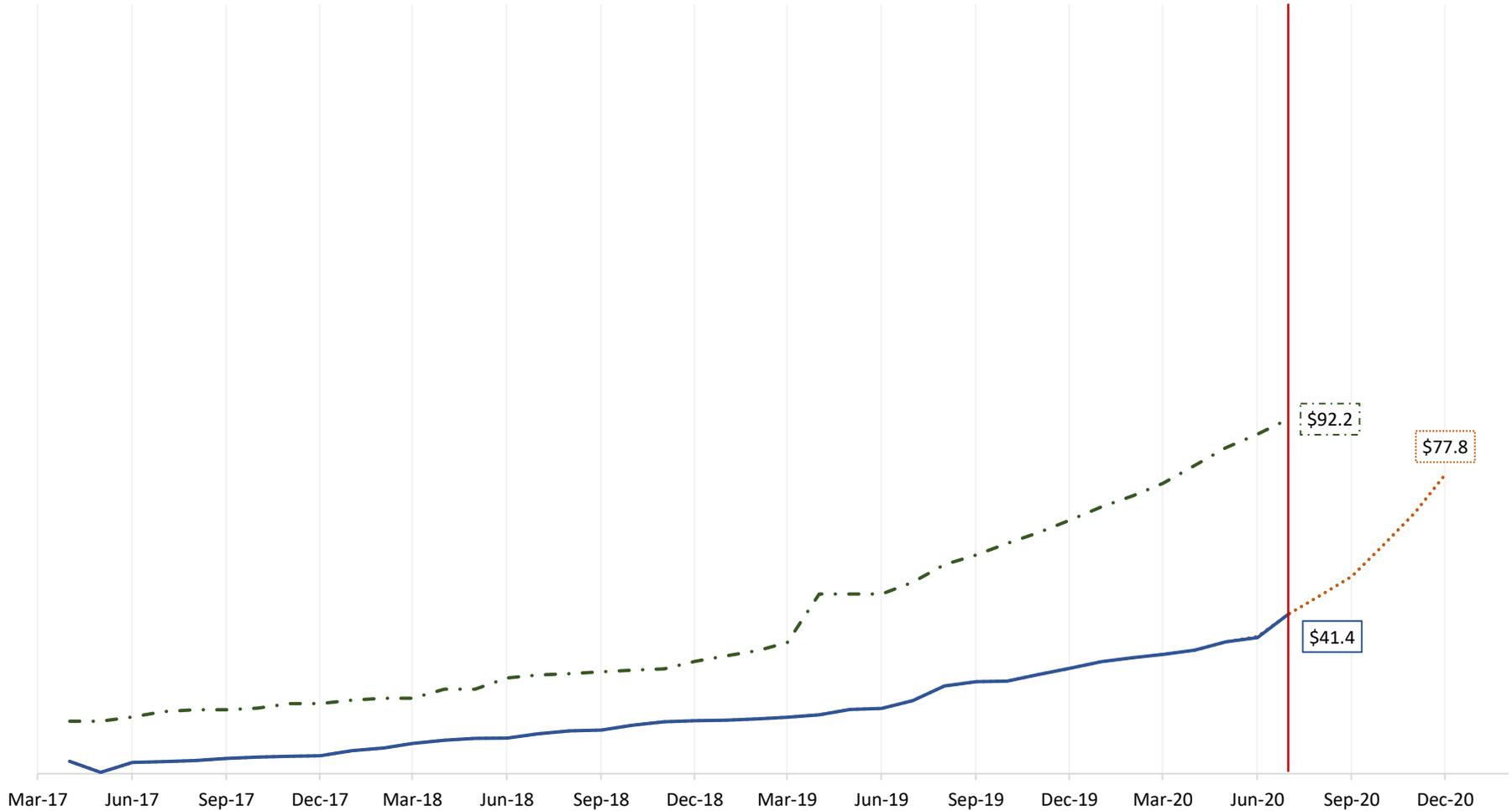
Notes:

1. Total Structures: 11 structures.
2. Total Guideway: 21 miles.
3. Actual Guideway progress for May 2020 was 19.8 miles. The graph reflects 20 miles due to the rounding up within the mathematical formula.
4. The Forecasted Structures and Guideway are based on the Authority's Conditional Acceptance of CP 4's Revised Baseline Schedule (RBS) as of August 2020.
5. SR-46 structure was delayed due to coordination with third-parties and is expected to start October 12, 2020.

CP 4 – Small Business Enterprise

CRB CP-4 – Historical Progress Toward 30% SB Goal Based on Paid to Date Values (\$M)

..... Cumulative SBE Forecast — Cumulative SBE Actual - - - Current SBE Target



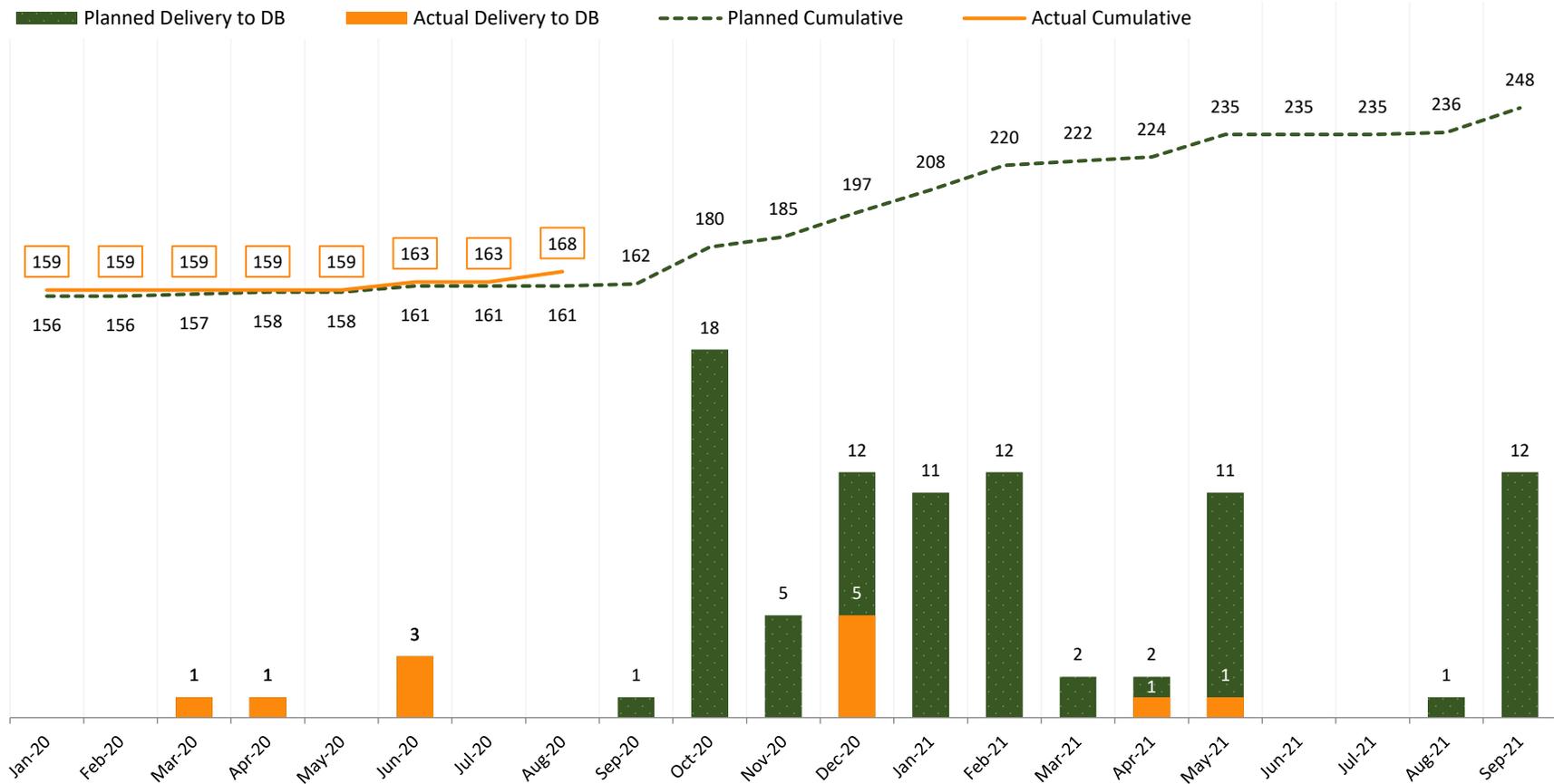
Notes:

1. Number of SBE Awarded Contracts: 59 Contracts.
2. Value of Current SBE Awarded Contracts: \$77M.
3. SBE Overall Status: 13.49%. \$41,446,089.17 expended through July 2020.
4. Information reflects ONLY Central Region Construction Package 1-4 Small Business Utilization and DOES NOT include Small Business utilization data for any other California High-Speed Rail Authority contract.

CP 4 – ROW Summary

Construction Package	Total Needed Parcels August 31, 2020	Total Parcels Delivered to Date August 31, 2020	Remaining Parcels to be Delivered August 31, 2020
CP 4	248	168	80

CP 4 – Parcel Delivery to DB Summary



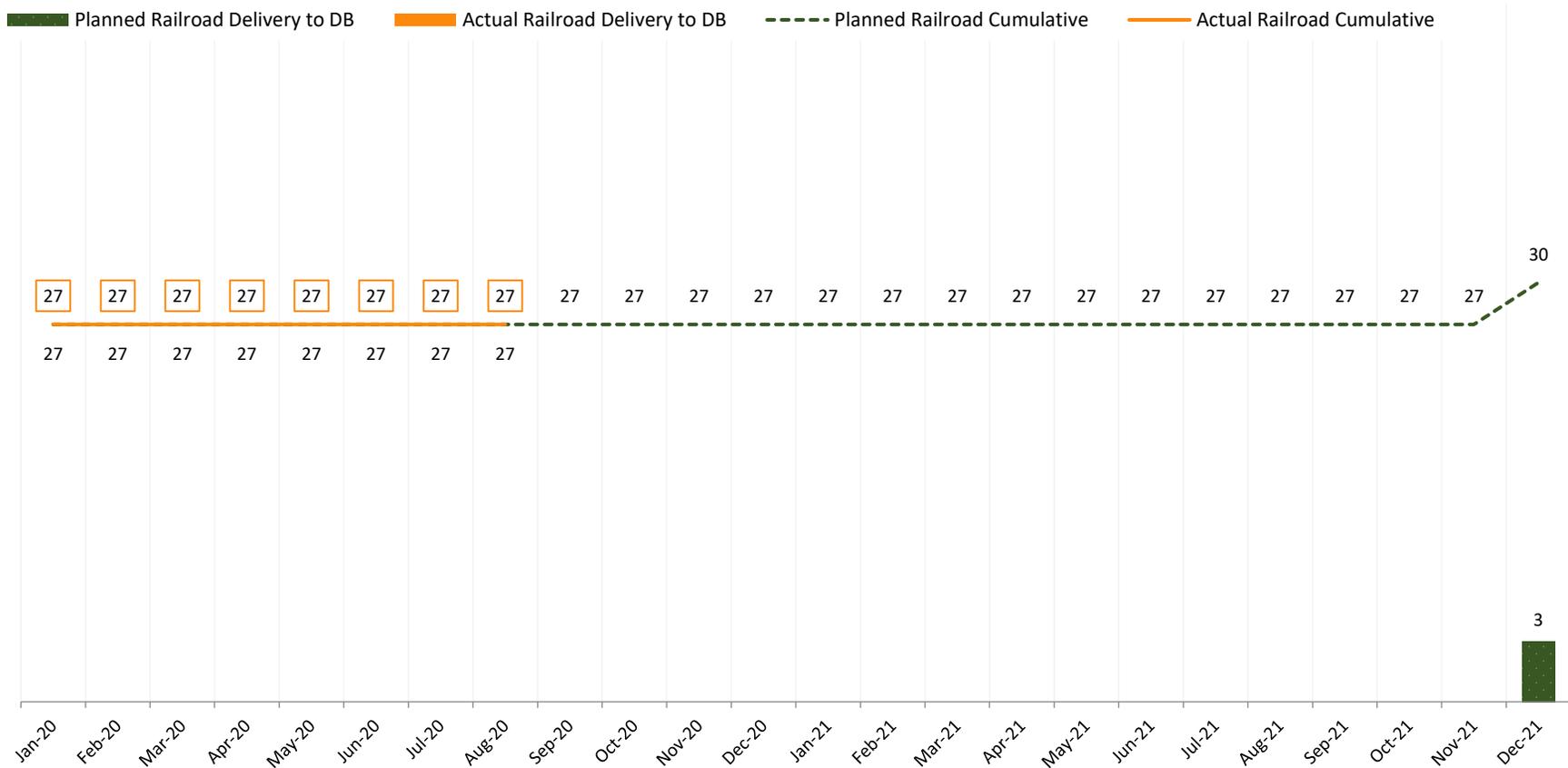
Notes:

1. This reflects the current Revised Baseline Schedules (RBSs) for CP 4.
2. Planned Delivered to DB parcels may be adjusted periodically base on continued refinement of the RBS.
3. Actual cumulative line for August 2020 reflects delivered parcels that are forecasted in future months.

CP 4 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels August 31, 2020	Total Railroad Parcels Delivered to Date August 31, 2020	Remaining Railroad Parcels to be Delivered August 31, 2020
CP 4	30	27	3

CP 4 – Railroad Parcel Delivery to DB Summary



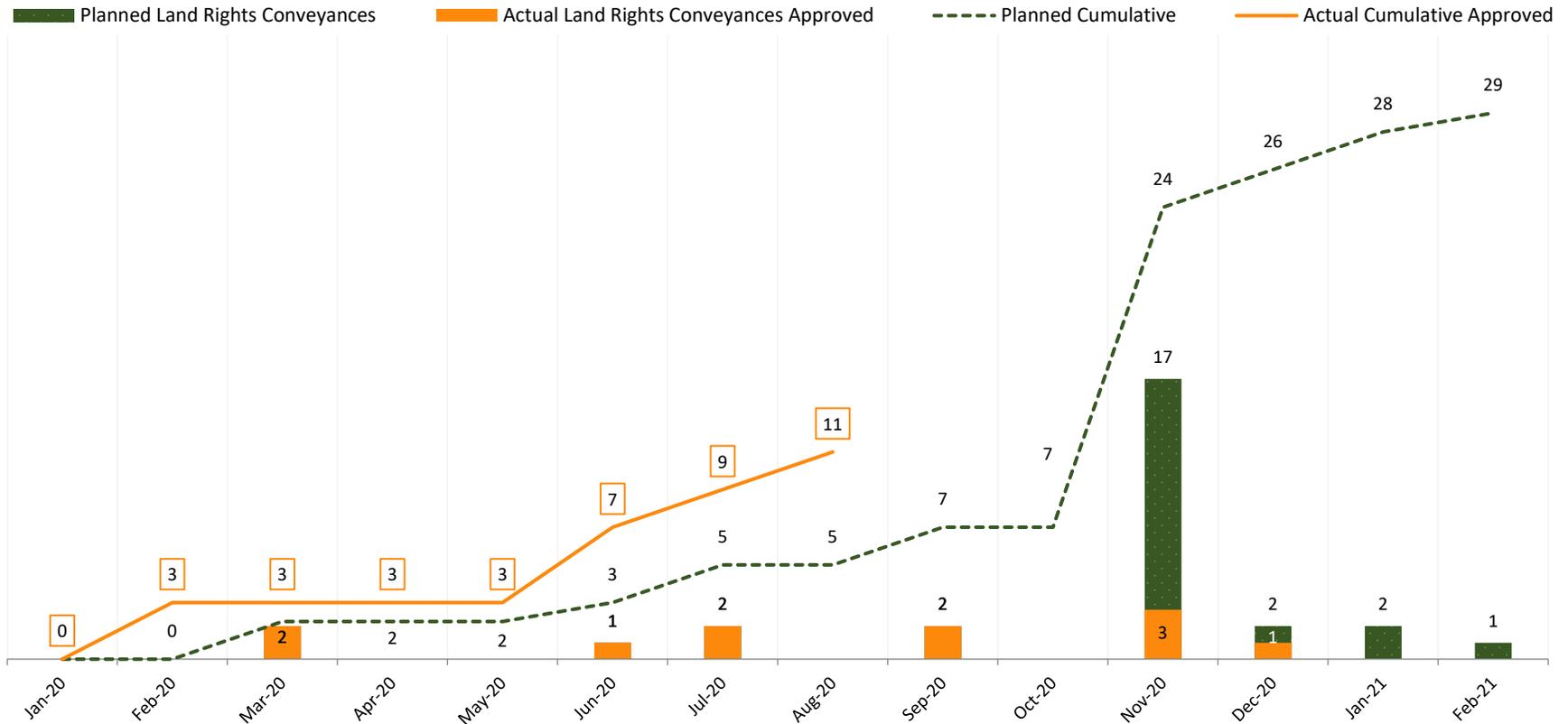
Notes:

1. This reflects the current Railroad Revised Baseline Schedules (RBSs) for CP 4.
2. Planned Delivered to DB parcels may be adjusted periodically based on continued refinement of the RBS.

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, 2020	Total Land Right Conveyances Approved ⁵ to Date August 31, 2020	Remaining Land Right Conveyances to be Approved August 31, 2020
CP 4	29	11	18

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



Notes:

1. This projection has been revised based on the Revised Baseline Schedules (RBSs).
2. The PG&E letter agreement (executed May 6, 2020) temporarily reclassified numerous critical land right conveyances as non-critical for construction and is reflected above.
3. Actual Cumulative for August 2020 includes completed land right conveyances that are forecasted in future months.
4. Planned land right conveyances were adjusted from last month's report due to continued refinement of the RBS.
5. 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 – Record of Decision (ROD)

Project Development Schedule (to ROD)

Program Priority	Segment	Progress	Complete Purpose & Need Statement		Complete Alternatives Analysis		Board Concurrence of Preliminary Preferred Alt. Draft EIR/EIS		Publish Draft EIR/EIS		Publish Final EIS & 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	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Document Complete	Fresno to Bakersfield	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Document Complete	CV Electrical Interconnections	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Document Complete	Locally Generated Alternative (F-B)	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
1	San Francisco to San Jose	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Jun-21	Jun-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Oct-21	Sep-21 ¹	Oct-21
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	5%	
2	San Jose to Merced	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Apr-21	Apr-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Aug-21	Aug-21 ²	Aug-21
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	7%	10%	
3	Central Valley Wye (M-F)	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Sep-20	Sep-20	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Sep-20	Sep-20	Sep-20
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	94%	98%	
4	Los Angeles to Anaheim	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Dec-21	Dec-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Jul-22	Jul-22 ³	Jul-22
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	
5	Burbank to Los Angeles	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Jan-21	Jan-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Aug-21	Aug-21 ⁴	Aug-21
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	5%	
6	Palmdale to Burbank	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Aug-21	Aug-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Jun-22	May-22 ⁵	Jun-22
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	
7	Bakersfield to Palmdale	Plan	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Feb-21	Feb-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	May-21	Apr-21 ⁶	May-21
		% Complete	100%	100%	100%	100%	100%	100%	100%	100%	100%	12%	14%	
8	HMF	Plan	Complete	Complete	Complete	Complete	Complete	Apr-16	Apr-16	Sep-16	Sep-16	Feb-21	Feb-21	
		Forecast	Complete	Complete	Complete	Complete	Complete	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		% Complete	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	

Notes:

1. Three-month delay due to late submittal of cooperating agency comments, remediation time to meet Web Content Accessibility Guidelines (WCAG), internal reviews and resource constraints, allowance for 15-day extension of Draft EIR/EIS comment period, and program-wide resolution of Cooperating Agency review constraint. ROD date revised to reflect date Board approves project.
2. Four-month delay due to late submittal of cooperating agency comments, remediation time to meet WCAG, internal reviews and resource constraints, agreement to include a new NAT quality review cycle, 15-day extension of Draft EIR/EIS comment period, receipt of substantial comments on Draft EIR/EIS in excess of baseline assumptions, and program-wide resolution of Cooperating Agency review constraint.
3. Seven-month delay due to late submittal of BNSF environmental deliverables, time required to reach concurrence with BNSF on design issues, and full incorporation of a modified V30 Legal and Environmental Review Process.
4. Seven-month delay due to extension of the Draft EIR/EIS public comment period from July 16 to August 31, late submittal of cooperating agency comments, and time to address internal reviews & resource constraints.
5. Publication of draft corrected to address delay due to additional consultation with the U.S. Army Corps of Engineers (USACE) and U.S. Environmental Protection Agency (EPA). Nine-month delay in delivery of ROD because of additional design and analysis for developing the avoidance alternative at Una Lake, to provide additional review by National Environmental Policy Act (NEPA) Assignment Team before CEO signature, and to incorporate internal resource constraints. (Mitigations for minimizing delays are being evaluated.)
6. Two-month delay due to design revision to accommodate Cesar Chavez National Monument (CCNM) and full incorporation of a modified V30 Legal and Environmental Review Process.

Project Development – Key Actions

In August 2020, the Authority conducted Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) document reviews for several project sections. San Francisco to San José Project Section Draft EIR/EIS public release extended to September 9. Continuing to draft responses to 2,375 individual comments received in 777 submittals on the San José to Merced Draft EIR/EIS with active coordination by ES, NAT, Legal, and Rail Ops. The CVY Final SEIR/EIS was released on August 7. CVY Notifications & Board Materials completed. The Burbank to Los Angeles project section hosted a virtual Main St grade separation workshop on August 25. The comment period for the Burbank to Los Angeles Draft EIR/EIS was extended from July 16, 2020 to August 31, 2020. The Los Angeles to Anaheim revised scoping period began on August 25 and will continue through September 24. Permitting for the Central Valley Wye and the Locally Generated Alternative will progress following Board action on the Merced and Bakersfield extensions.

Project Development – Key Actions Summary

Project Section	Key Actions
San Francisco to San Jose	<ul style="list-style-type: none"> Draft EIR/EIS was released for public circulation on July 10, 2020. CEO has extended the public review period to September 9, 2020. Conducted final open house August 5 and public hearing August 19. Continued outreach activities to support the Draft EIR/EIS, public hearing, and office hours. Continued feasibility study of Millbrae Reduced Site Plan.
San José to Merced	<ul style="list-style-type: none"> Preparing standard and individualized responses to 2,375 separate comments received on the Draft EIR/EIS. Project staff are coordinating with Rail Ops, ES, Permitting, and Legal on proof-of-concept OCS design refinements to avoid strike or electrification of California condor, Golden eagle, or Sandhill crane (CA fully protected species) within occupied extents of alignment. Permitting is coordinating with the B-P and P-B teams using program-wide factors for determining other affected alignment extents. Determining cost-escalation factors for OCS refinements for estimate of potential capital cost increases. Developing approach for expediting preparation and review of a Draft EIR/EIS limited recirculation for new special-status specie listings to minimize potential NOD/ROD delay and minimize budget impacts. Coordinating with cooperating agencies to determine need for administrative
Central Valley Wye	<ul style="list-style-type: none"> CVY Final SEIR/EIS released on August 7. Proposal sent to CESD for school bus routes impacts 8/19 and was accepted in principle August 26. A draft MOU is being prepared by Legal. Comments from Madera County on draft agreement related to Fairmead community center received August 27. Follow-up meeting for discussion with Madera County scheduled for September 2. Advanced draft agreements with the City of Chowchilla and Fairmead Community and Friends on mitigation measures for the Fairmead community. Follow-up meeting for discussion with City of Chowchilla, and Fairmead Community & Friends scheduled for September 2.
Locally Generated Alternative	<ul style="list-style-type: none"> The Combined Supplemental Record of Decision and Final Supplemental Environmental Impact Statement was completed on October 31, 2019. Permitting for the Locally Generated Alternative will progress following Board action on the Merced and Bakersfield extensions.
Bakersfield to Palmdale	<ul style="list-style-type: none"> The Bakersfield to Palmdale Administrative Final EIR/EIS was submitted to Legal, NAT, and ES for review on August 17. A workshop with Legal, NAT, and ES was hosted on August 25 to discuss the Various Engineering Refinements (VERs) and their engineering and environmental implications. Continued to advance Section 106, Section 7, Section 106, and other permitting activities related to ROD. Cooperating Agency review is expected in November 2020.
Palmdale to Burbank	<ul style="list-style-type: none"> The Una Lake Avoidance Alternatives have been incorporated into the footprint and environmental analysis. The CEO was briefed on the new Preferred Alternative, SR-14A. Checkpoint B was submitted to USACE and EPA on July 31 and is anticipated to be completed in October 2020. Cooperating Agency review is expected in December 2020.
Burbank to Los Angeles	<ul style="list-style-type: none"> The Burbank to Los Angeles project section hosted a virtual Main Street grade separation workshop on August 25 for the Draft EIR/EIS. The comment period for the Burbank to Los Angeles Draft EIR/EIS was extended from July 16, 2020 to August 31, 2020.
Los Angeles to Anaheim	<ul style="list-style-type: none"> Continued work to incorporate BNSF facilities east of Fullerton into the LA-A environmental document. Continued addressing Step 2 comments from ES and NAT on the EIR/EIS chapters and technical reports.