



Central Valley Status Update

Getting to Construction

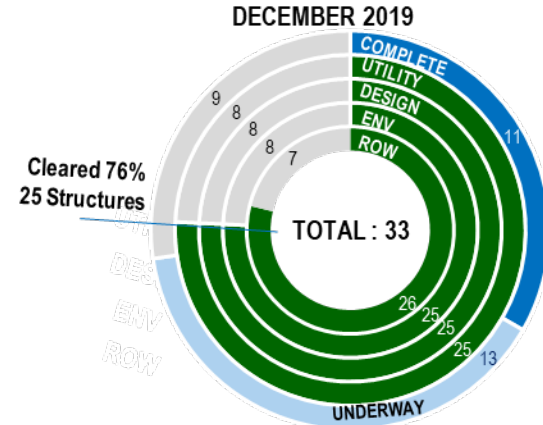
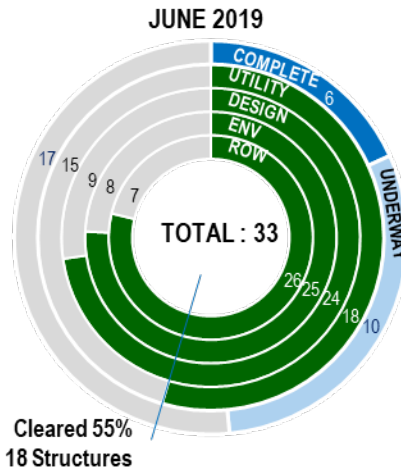
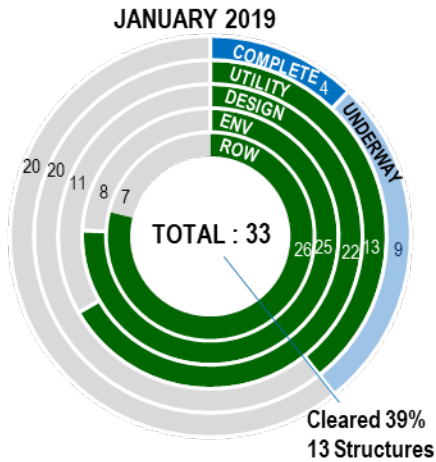
September 17, 2019

July 2019 Data

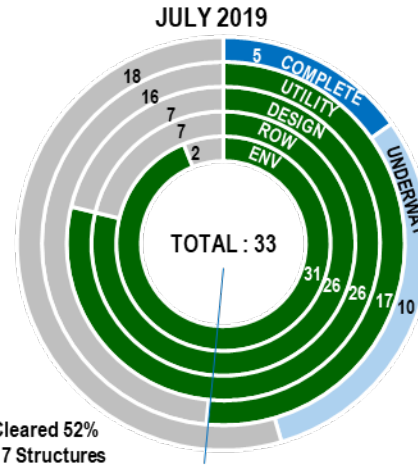
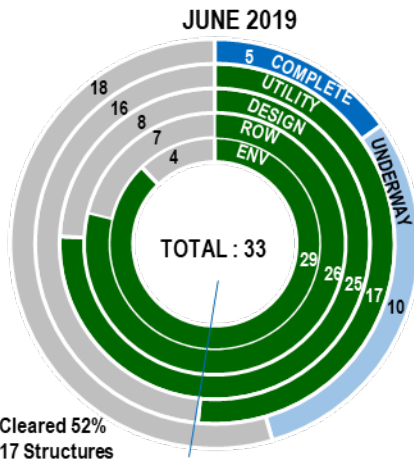
CP 1 Progress Update

Forecast vs. Actual - Structures

CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – NUMBER OF STRUCTURES



ACTUAL PROGRESS - STRUCTURES



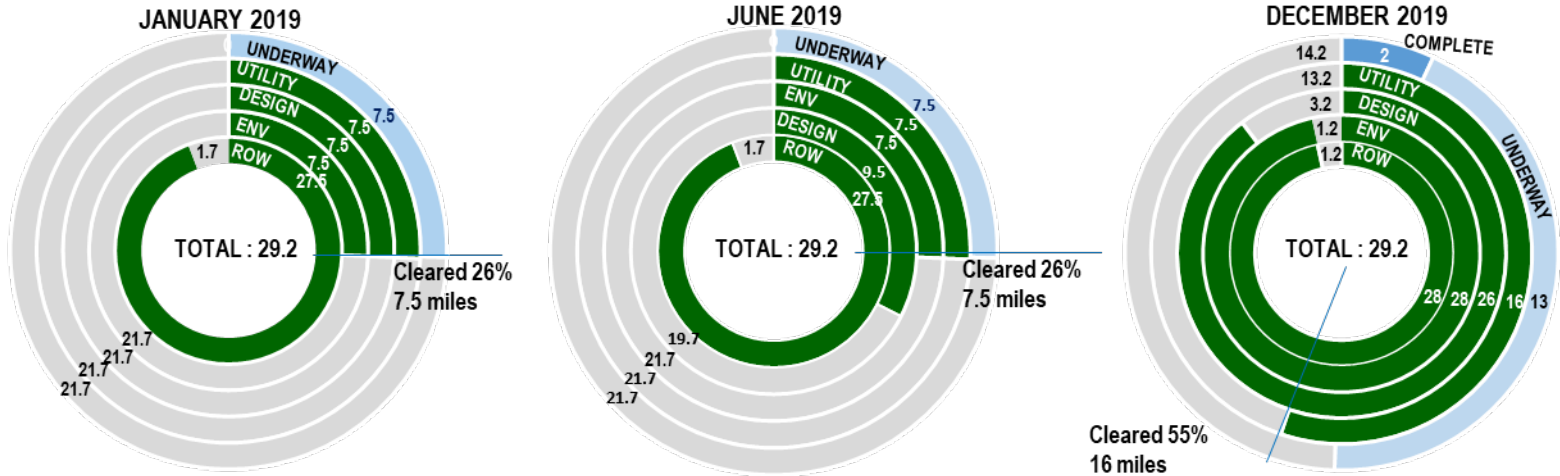
The numbers in the charts represent numbers of structures

- Cleared for Construction
- Construction Underway
- Construction Substantially Complete
- Remaining

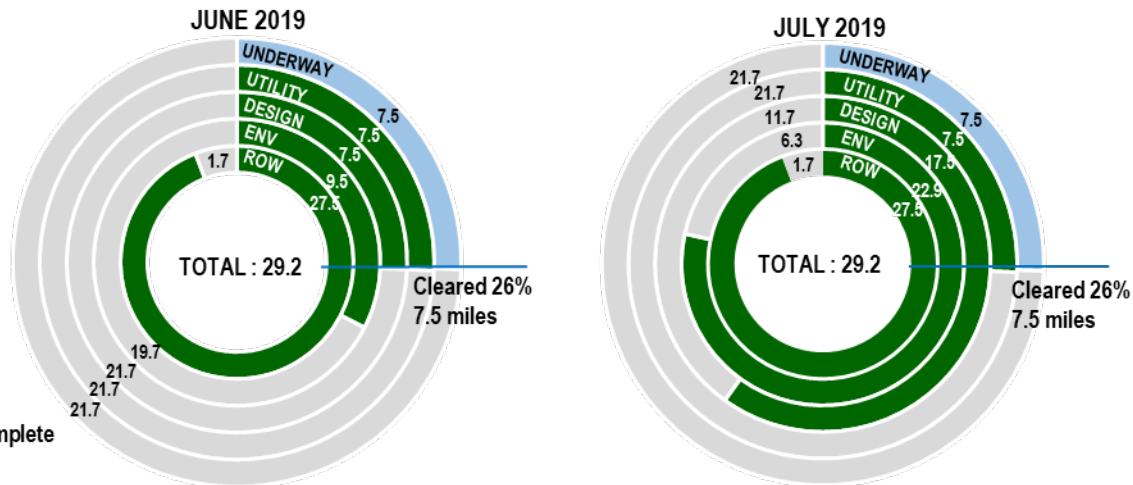
CP 1 Progress Update

Forecast vs. Actual - Guideway

CONSTRUCTION CLEARANCE/PROGRESS FORECAST - MILES OF GUIDEWAY



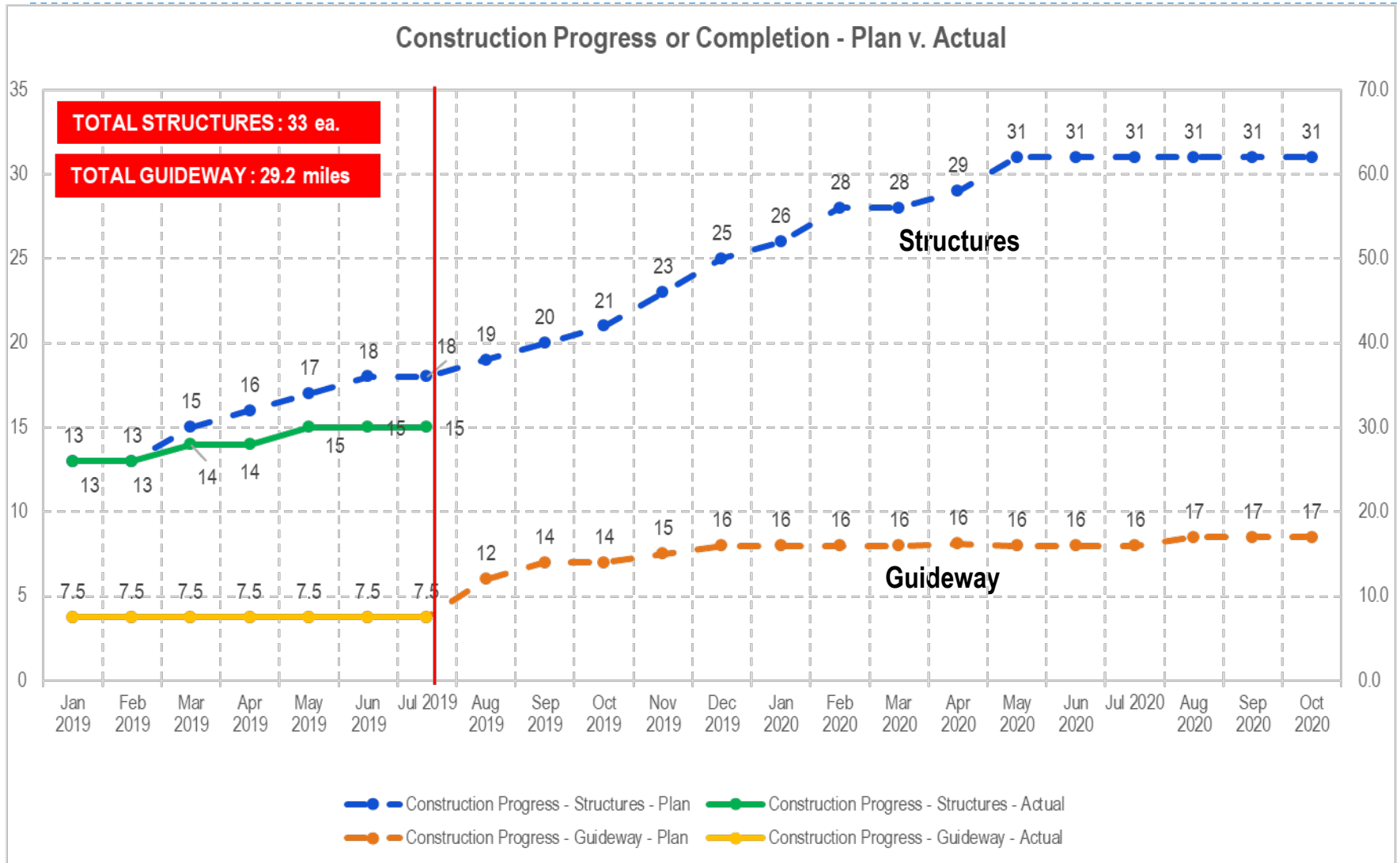
ACTUAL PROGRESS - MILES OF GUIDEWAY



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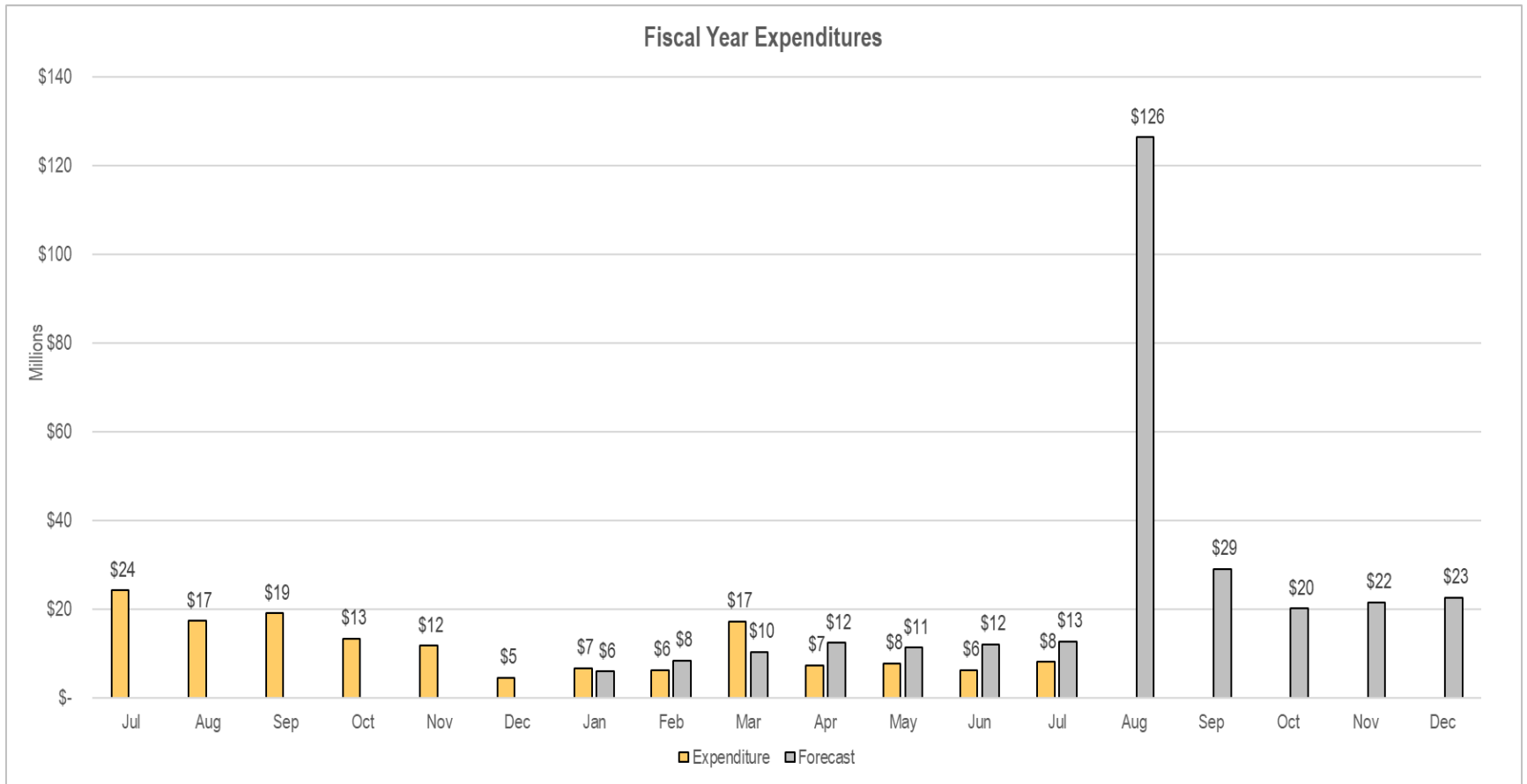
CP 1 Progress to Completion – Plan vs. Actual



CP 1 Planned vs. Actual Expenditures – Near Term

Expenditures lower than forecasted due to required redesigns of third party assets and utility relocations. Delay to start of work at Avenue 9 & 10 due to pending permits and conflict resolution with abutment foundation.

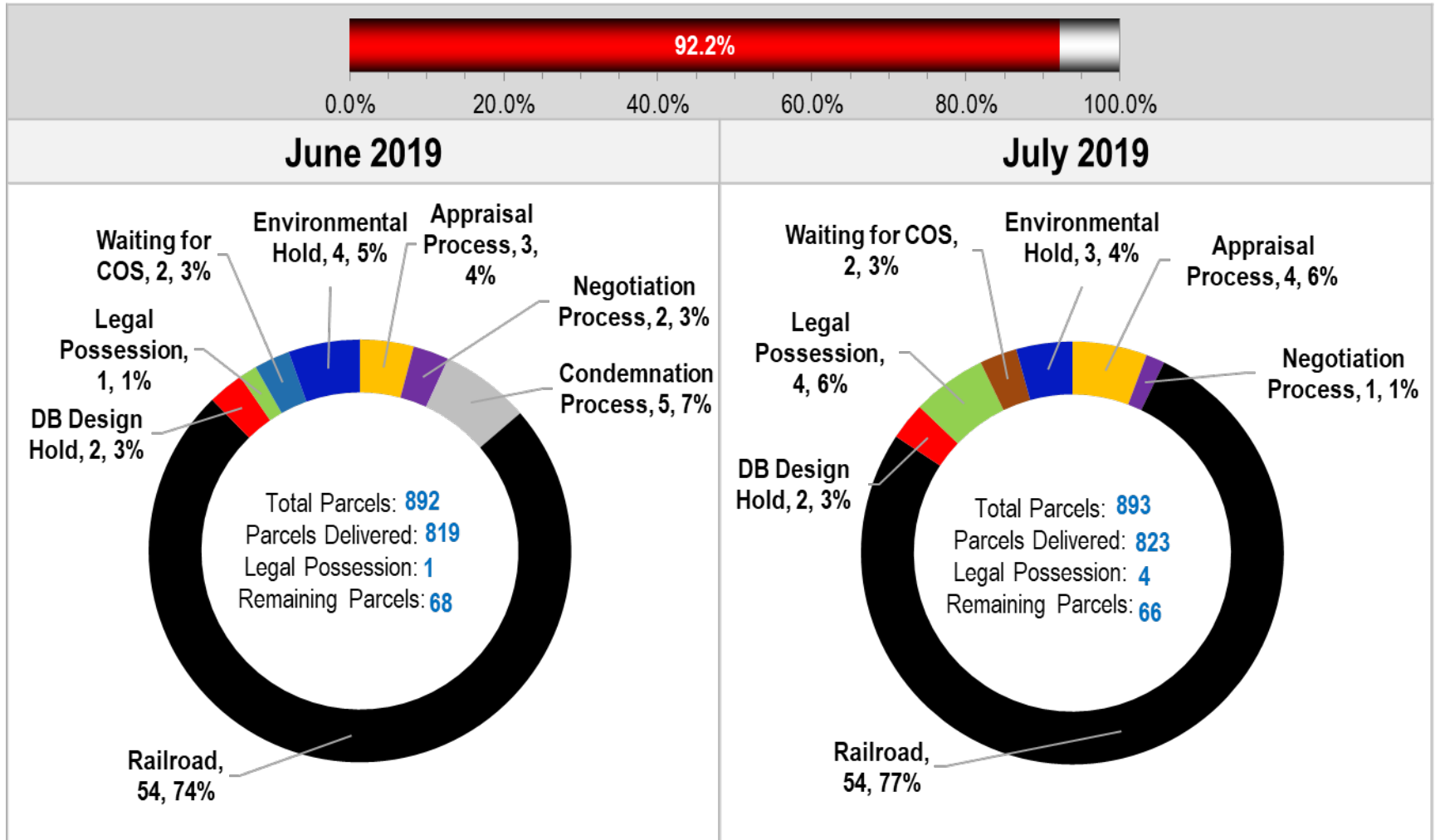
Mitigation: Targeting critical design areas and utility relocations to maximize clearance of guideway and structures



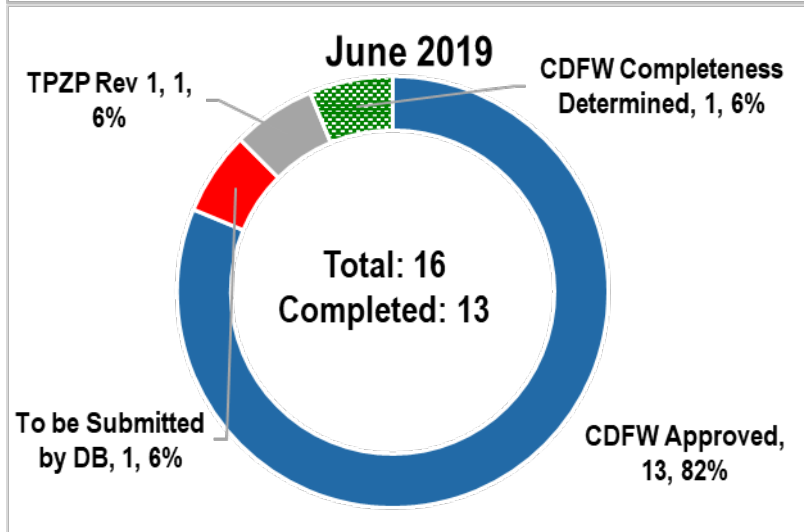
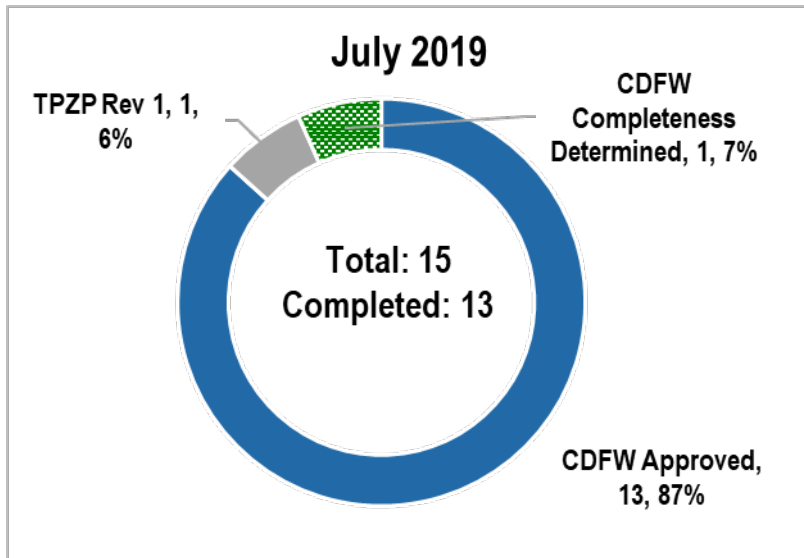
CP 1 Progress Update

ROW Acquisition Status

10 new parcels were identified primarily for utility relocations and railroads



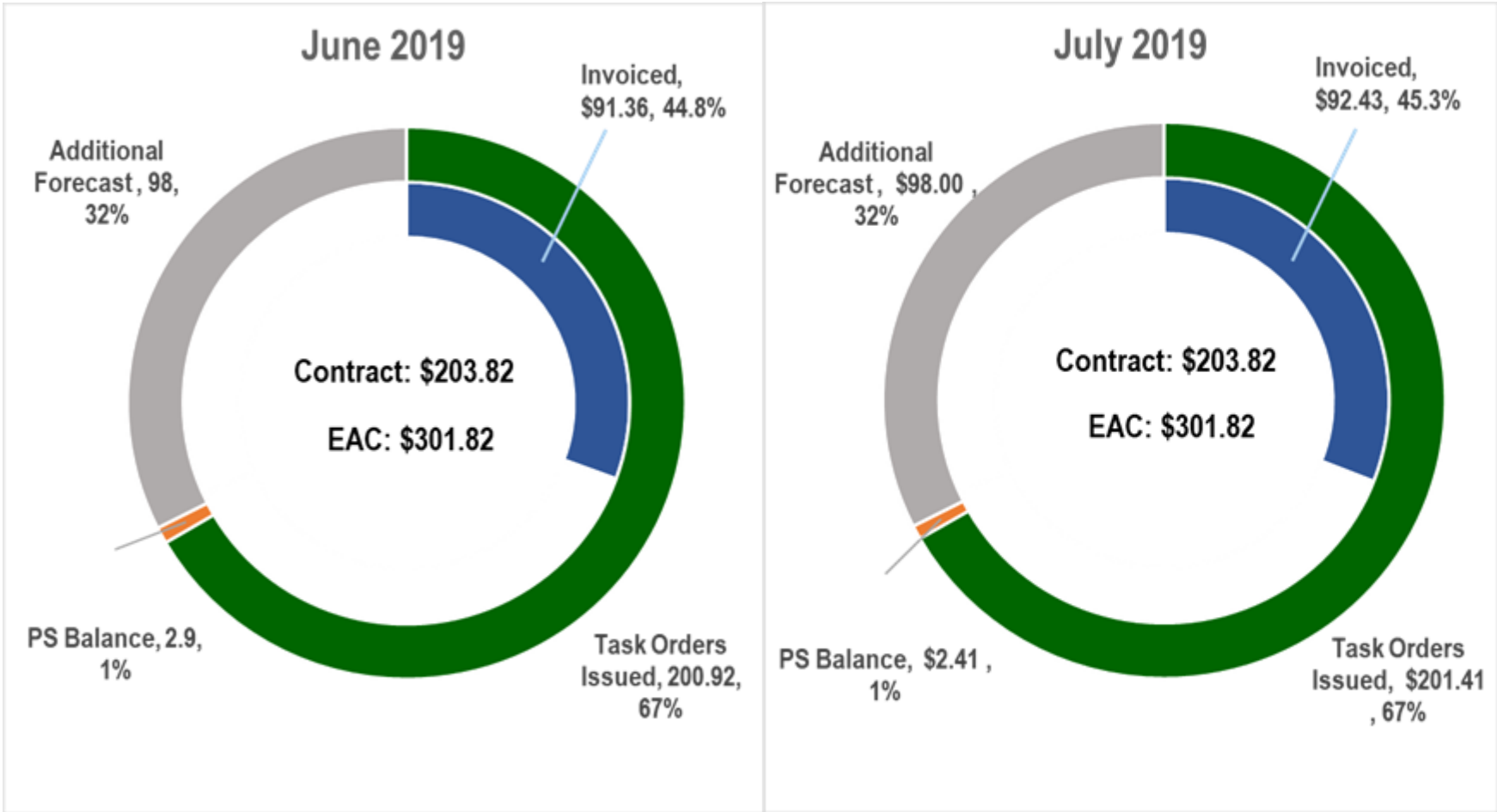
CP 1 Environmental Clearance – ITP Amendments



No.	CP-1 ITP Amendment Package	Current Status (July 2019)	CDFW Permit Amendment Issuance
1MF	M-F Language Amendment	Completed	8/22/2014
2MF	M-F Language, FRV Design Refinements, SJR Staging, GSB Yard	Completed	6/15/2015
3MF	M-F Lvl 12+, Ave 13, HOG, CP1D RD 27, Ave 17	Completed	9/20/2016
4MF	M-F Lazy K	Completed	11/1/2016
1FB	F-B Language, Acreages (Major)	Completed	4/16/2017
5MF	M-F CP1D, Utility Clean up	Completed	6/27/2017
2FB	F-B Map Books, Pre-con Surveys	Completed	9/26/2018
6MF	M-F CP1D Mitigation Amendment	Completed	9/28/2018
3FB	F-B Language	Completed	10/5/2018
7MF	M-F Fresno Trench IPB and Dry Creek Canal	Completed	3/1/2019
4FB	F-B CP-1C IPB	Completed	5/1/2019
8MF	M-F Impacts, HaOrGr	Completed	5/31/2019
9MF	M-F CP-1AB Cleanup/IPB	Completed	6/17/2019
10MF	M-F Road 27	CDFW Completeness Determined	8/10/2019
11MF	M-F Utility Design Refinements #1	TPZP Rev 1	11/28/2019
11MF	M-F Utility Design Refinements #2	To Be Submitted by DB	11/29/2019

CP 1 Progress Update

Provisional Sums



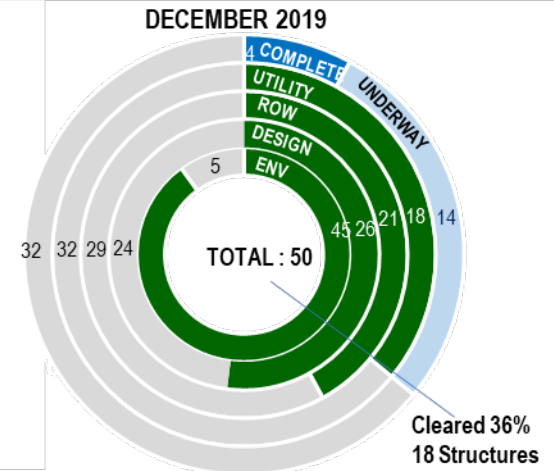
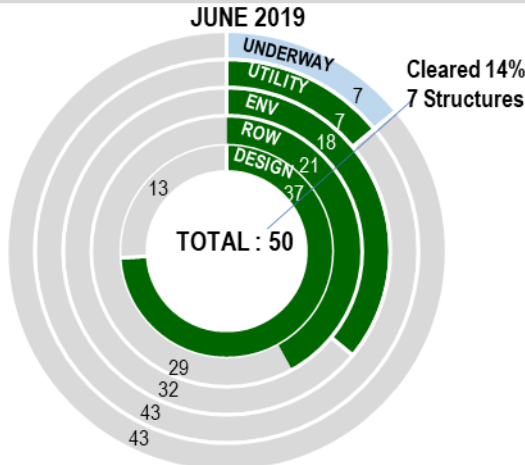
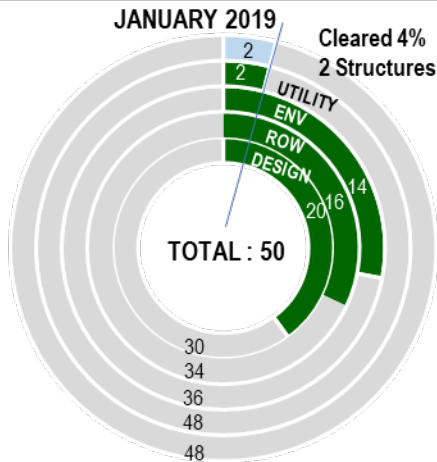
CP 1 Critical Actions – Getting to Construction

- ▶ Third Party - Resetting relationships
 - CDFW
 - Intrusion Protection Barrier (IPB) Re-Exam
 - Hairy Orcutt Grass Occupied Pools – signed and executed agreement to commence construction prior to mitigation
 - PG&E – Finalizing design and access issues & complete 6-month shelf reviews
 - Irrigation Districts
 - Finalize construction and post-construction requirements
 - AT&T: Stagger cut-over and DB designed workarounds
 - UPRR Design Variances: Focus Team targeting to resolve quickly
- ▶ Commercial
 - Time Impact Analysis (TIA) to Improve baseline schedule
 - Intrusion Protection Barrier (IPB) System
 - Negotiation underway:
 - Mechanically Stabilized Earth (MSE) Walls
 - Northern Extension
 - Herndon Avenue CPO going to BOC for approval
- ▶ Design - Engaging Team members to:
 - Resolve utility design and Rail Road variances
 - Finalize designs in cooperation with third-party requirements
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ ROW – working with DB to identify and acquire DB requested additional ROW for utility relocations

CP 2-3 Progress Update

Forecast vs. Actual - Structures

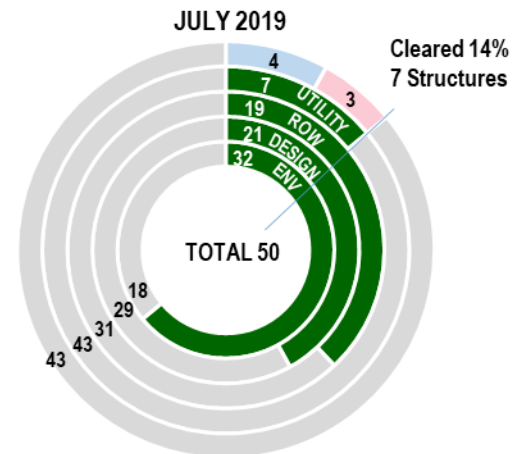
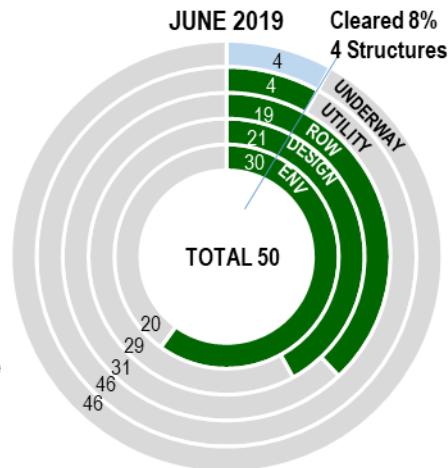
CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – NUMBER OF STRUCTURES



ACTUAL PROGRESS – NUMBER OF STRUCTURES

The numbers in the charts represent numbers of structures

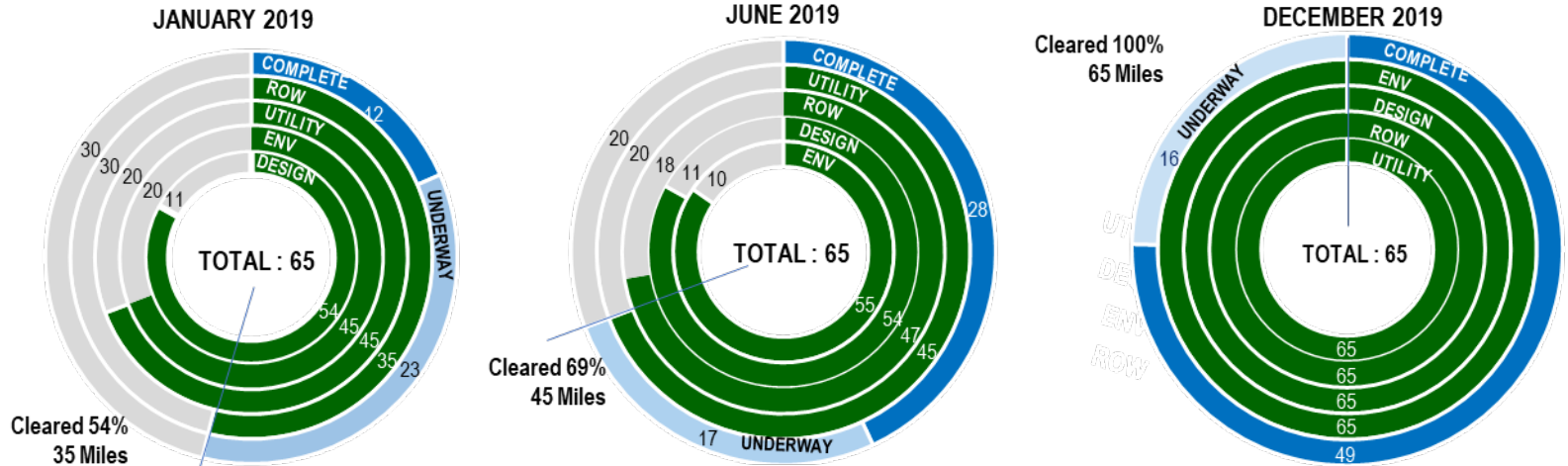
- Cleared for Construction
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- Construction Substantially Complete
- Remaining
- Cleared Not Started



CP 2-3 Progress Update

Forecast vs. Actual - Guideway

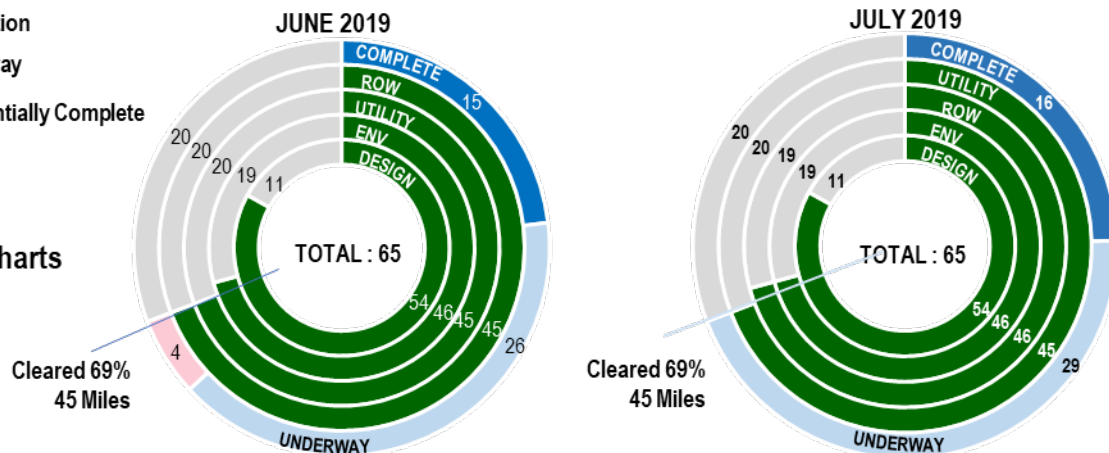
CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – MILES OF GUIDEWAY



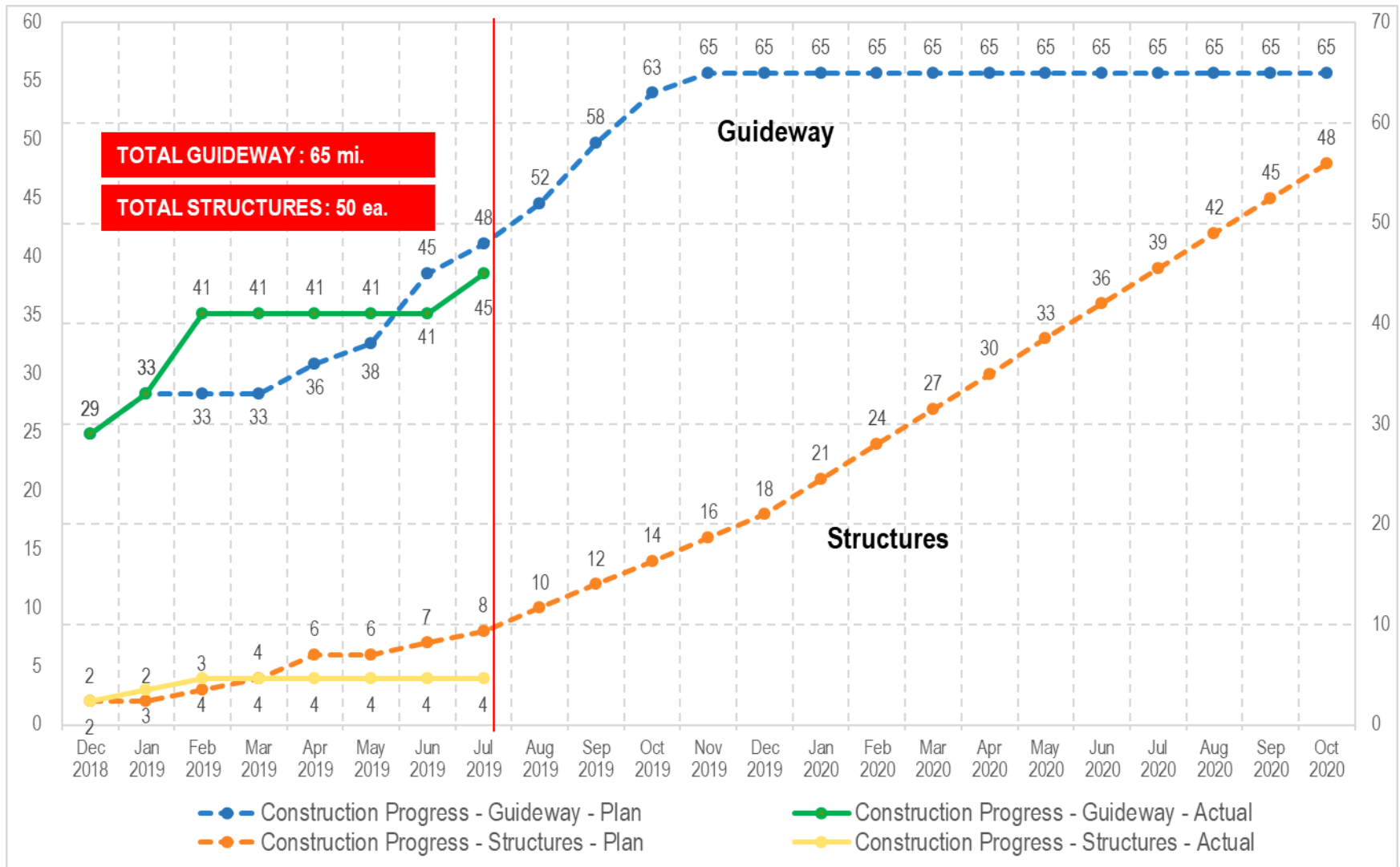
ACTUAL PROGRESS – MILES OF GUIDEWAY

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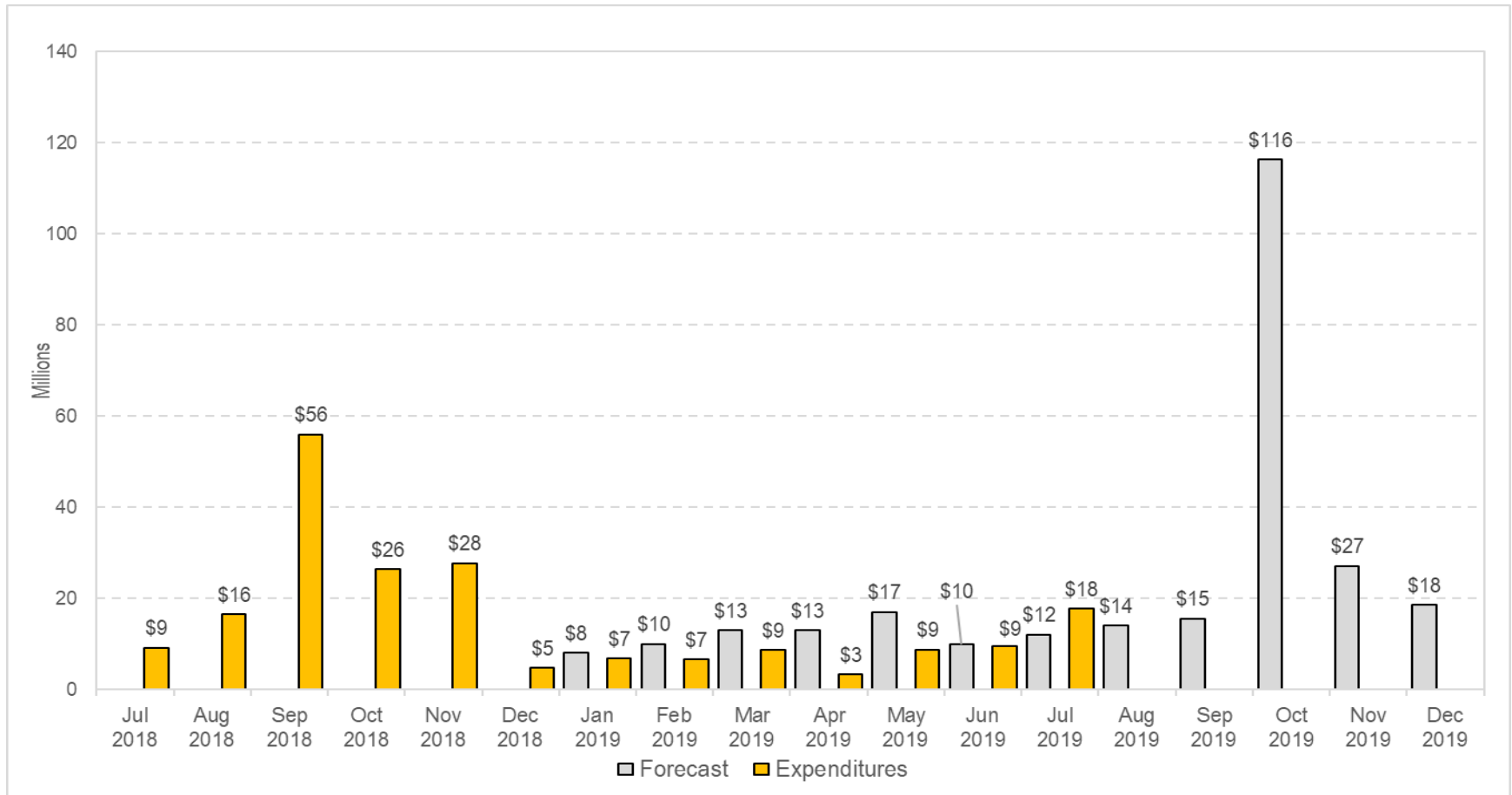


CP 2-3 Progress to Completion – Plan vs. Actual



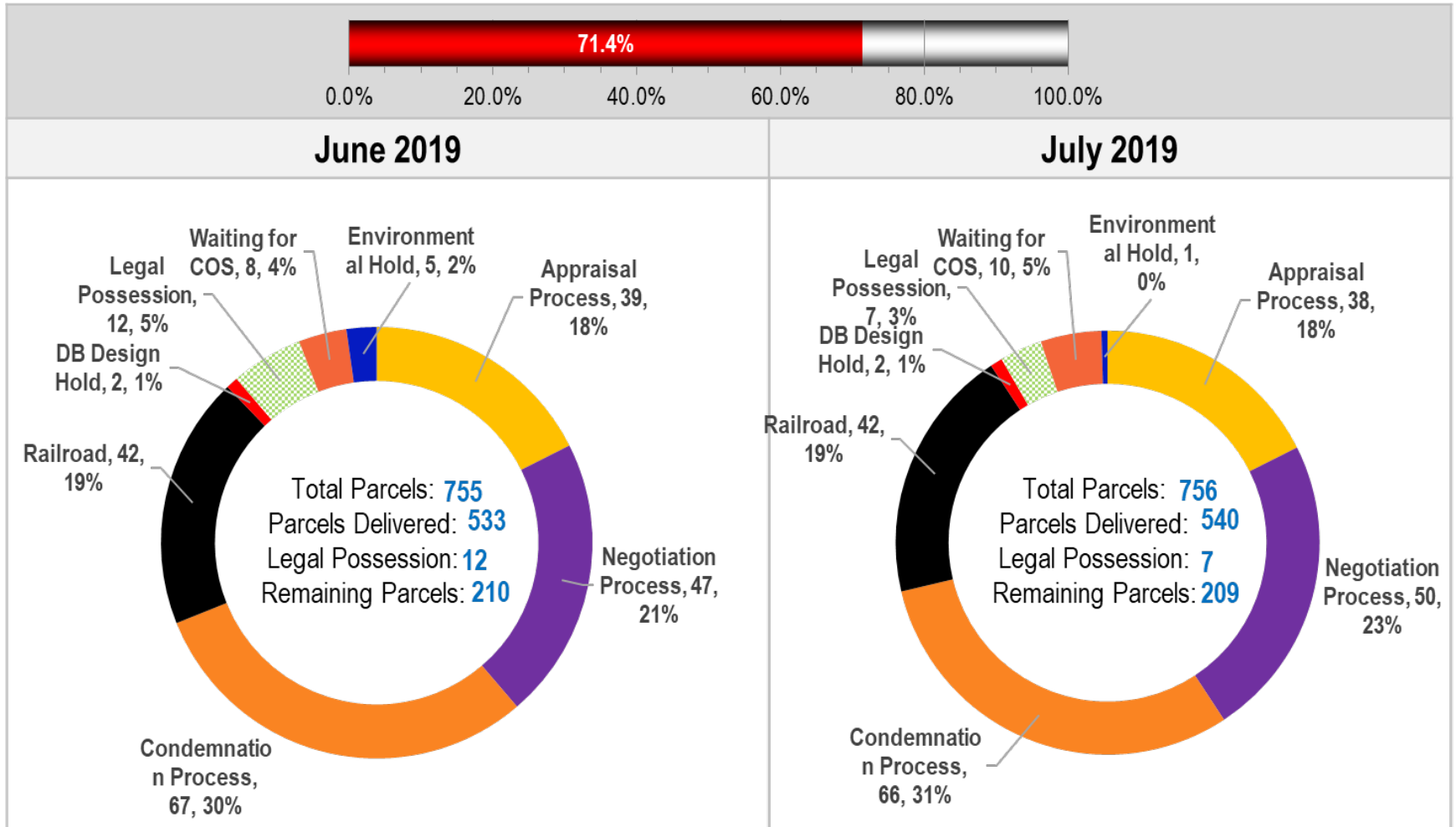
CP 2-3 Expenditures Near-term – Planned v. Actual

Expenditures higher than forecasted due to increasing work force and catch up of items that had been denied in previous billing cycles and have now been agreed upon.

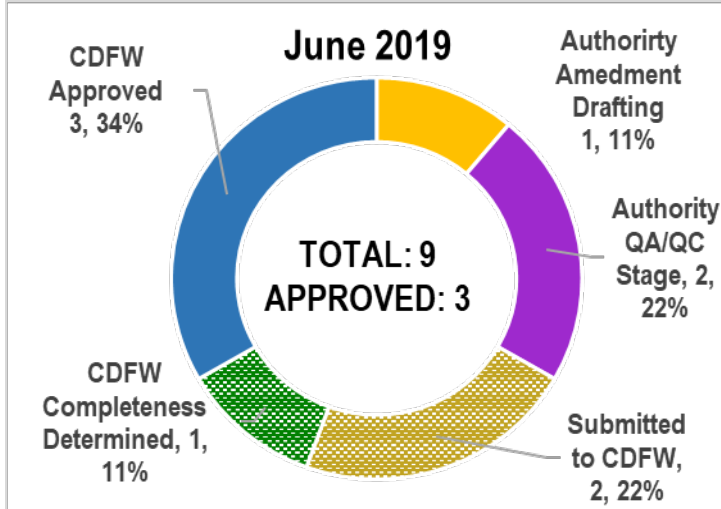
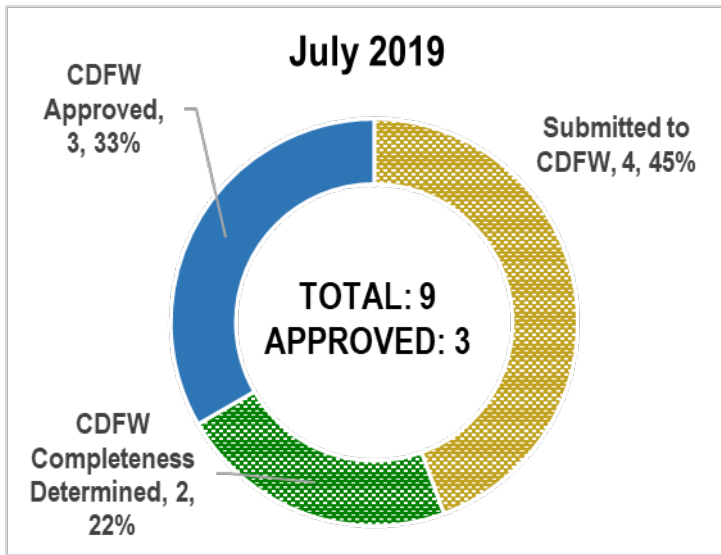


CP 2-3 Progress Update

ROW Acquisition Status



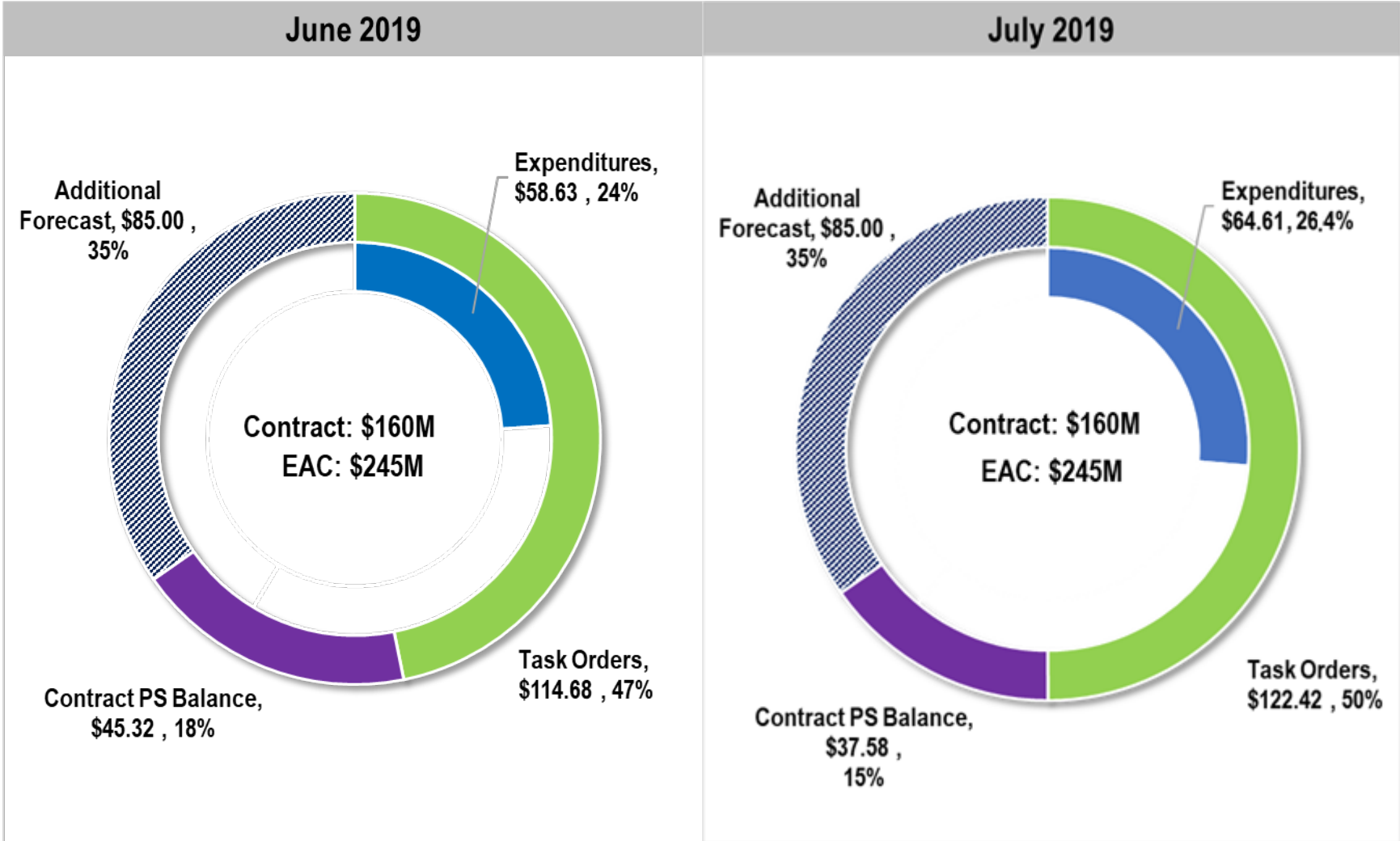
CP 2-3 Environmental Clearance – ITP Amendments



ID	CP-1 ITP Amendment Package	Current Status	CDFW Permit Amendment Issuance
1	Critical Path Overcrossing	Issued	2/15/2019
2	PG&E Distribution/ Utilities/ Access Roads	Issued	4/2/2019
3	Fresno County	Issued	5/2/2019
4	Kings River Complex ATC	Pending Issuance	11/19/2019
5	Tulare County	Pending Issuance	9/7/2019
6	Transmission/ Utilities	Issued	8/9/2019
7	IPB	Pending Issuance	11/17/2019
8	Deer Creek/Cross Creek	Submitted	10/27/2019
9	Table 5/ Table 8 ITP Amendment	Submitted	10/20/2019

CP 2/3 Progress Update

Provisional Sums



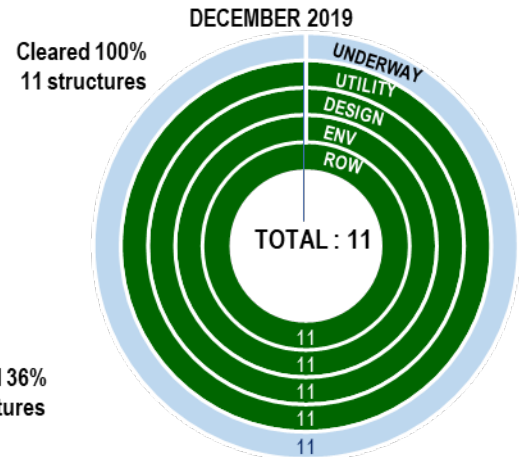
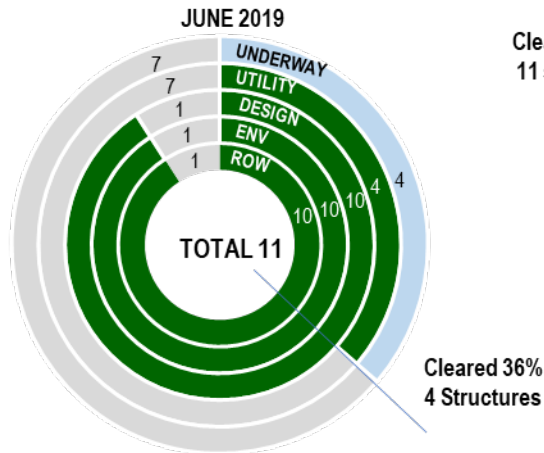
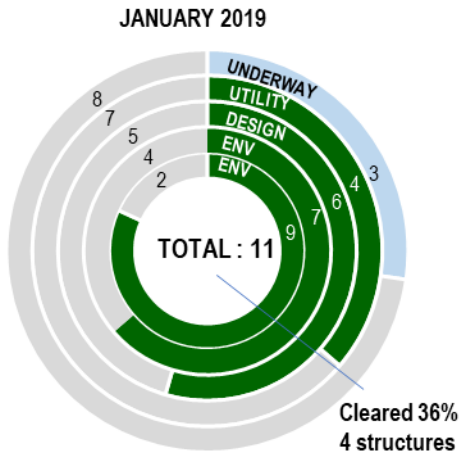
CP 2-3 Critical Actions – Getting to Construction

- ▶ Third Party - Resetting Relationships
 - Fresno County permit – CP Team leader and Regional Director meeting with Fresno County Director monthly to work through issues
 - Kings County
 - Irrigation Districts – execute agreements & approval of CDFW sub-notifications
 - Sempra – optimize design and construction schedules and finalize out grants for Sempra relocated utilities
 - PG&E – reset design and access expectations, move approved packages to construction
 - CDFW
 - Multiple Incidental Take Permit (ITP) amendments being proposed to CDFW to align with Design Builder's concepts
 - Trapping season has begun for San Joaquin Antelope squirrel
 - BNSF Relocation & Construction agreement executed
- ▶ Commercial - Project Change Orders
 - Time Impact Analysis (TIA)
 - Intrusion Protection Barrier (IPB) System
 - Mechanically Stabilized Earth (MSE) Walls
 - Deer Creek and Cross Creek Bridges
- ▶ Design - Form Focus Team to drive completing design in line with ROW and Environmental
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ ROW - Focus Team targeting DB-identified critical parcels
 - Delivery dates linked to schedule meets or exceeds forecasted delivery date on majority of acquisitions
 - Obtaining Permits to Enter (PTE) to facilitate design completion

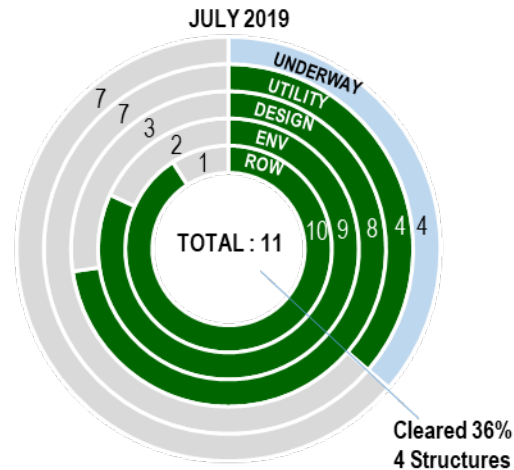
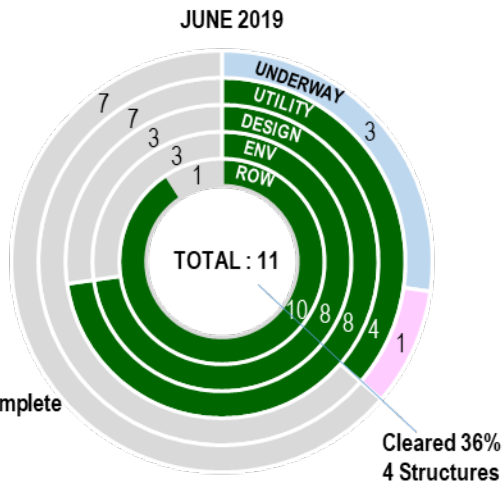
CP 4 Progress Update

Forecast vs. Actual - Structures

CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – NUMBER OF STRUCTURES



ACTUAL PROGRESS - NUMBER OF STRUCTURES



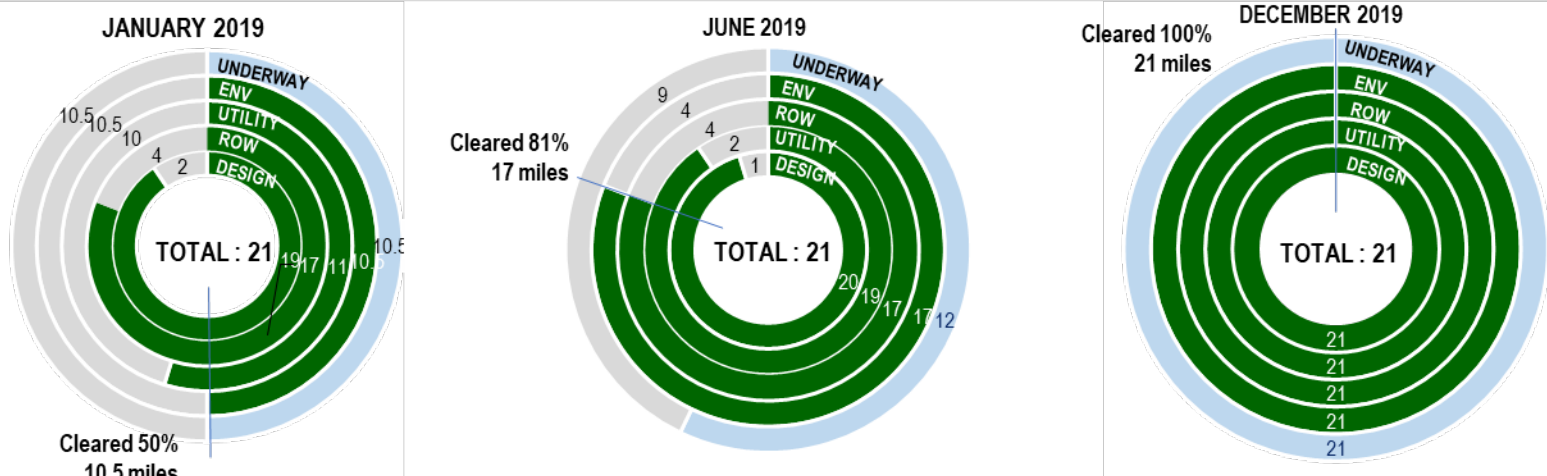
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CP 4 Progress Update

Forecast vs. Actual - Guideway

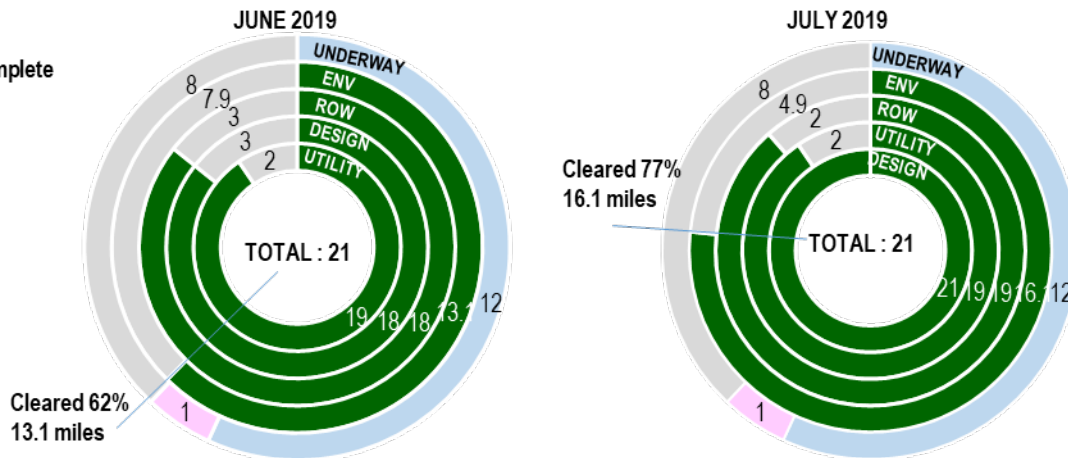
CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – MILES OF GUIDEWAY



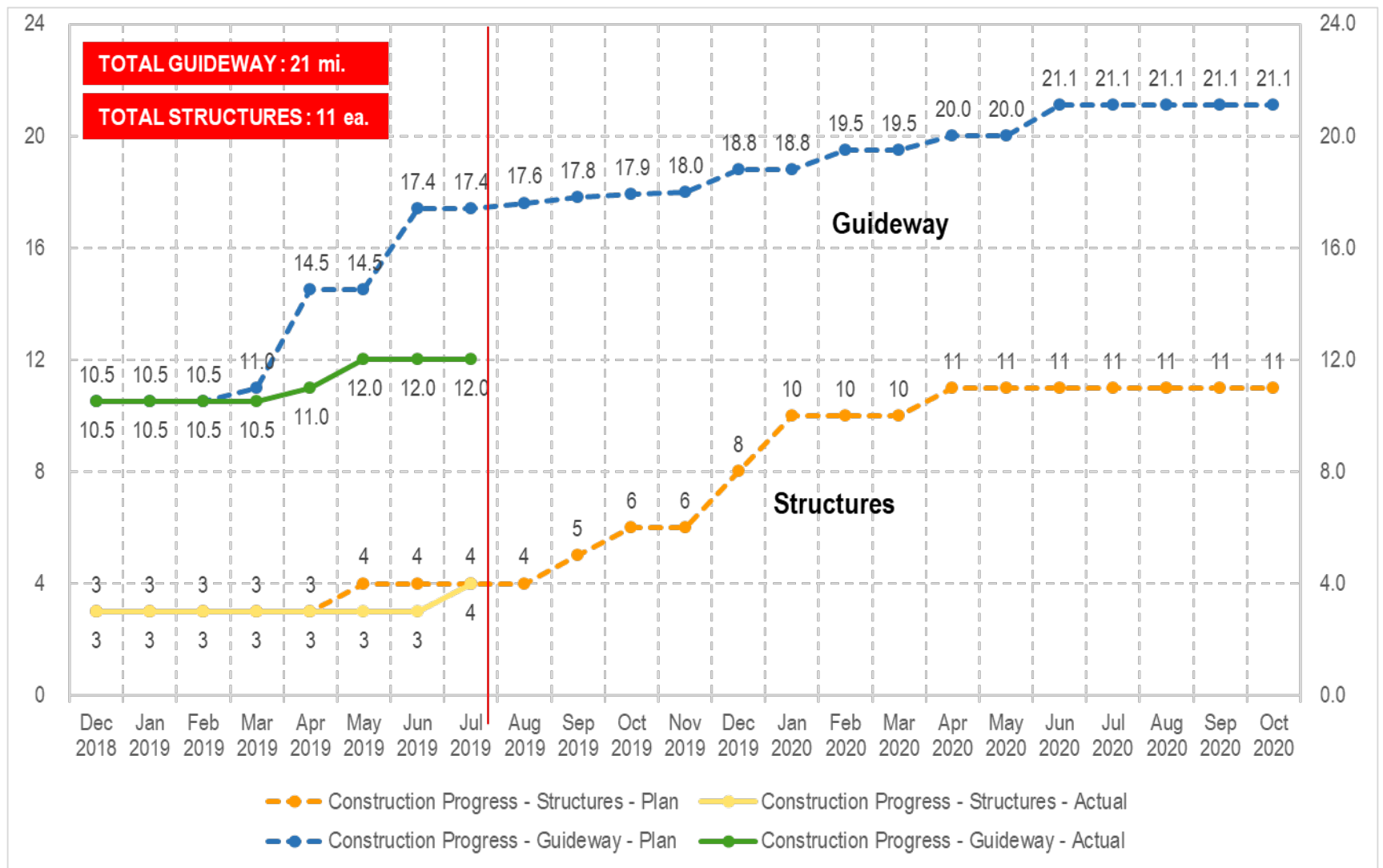
ACTUAL PROGRESS – MILES OF GUIDEWAY

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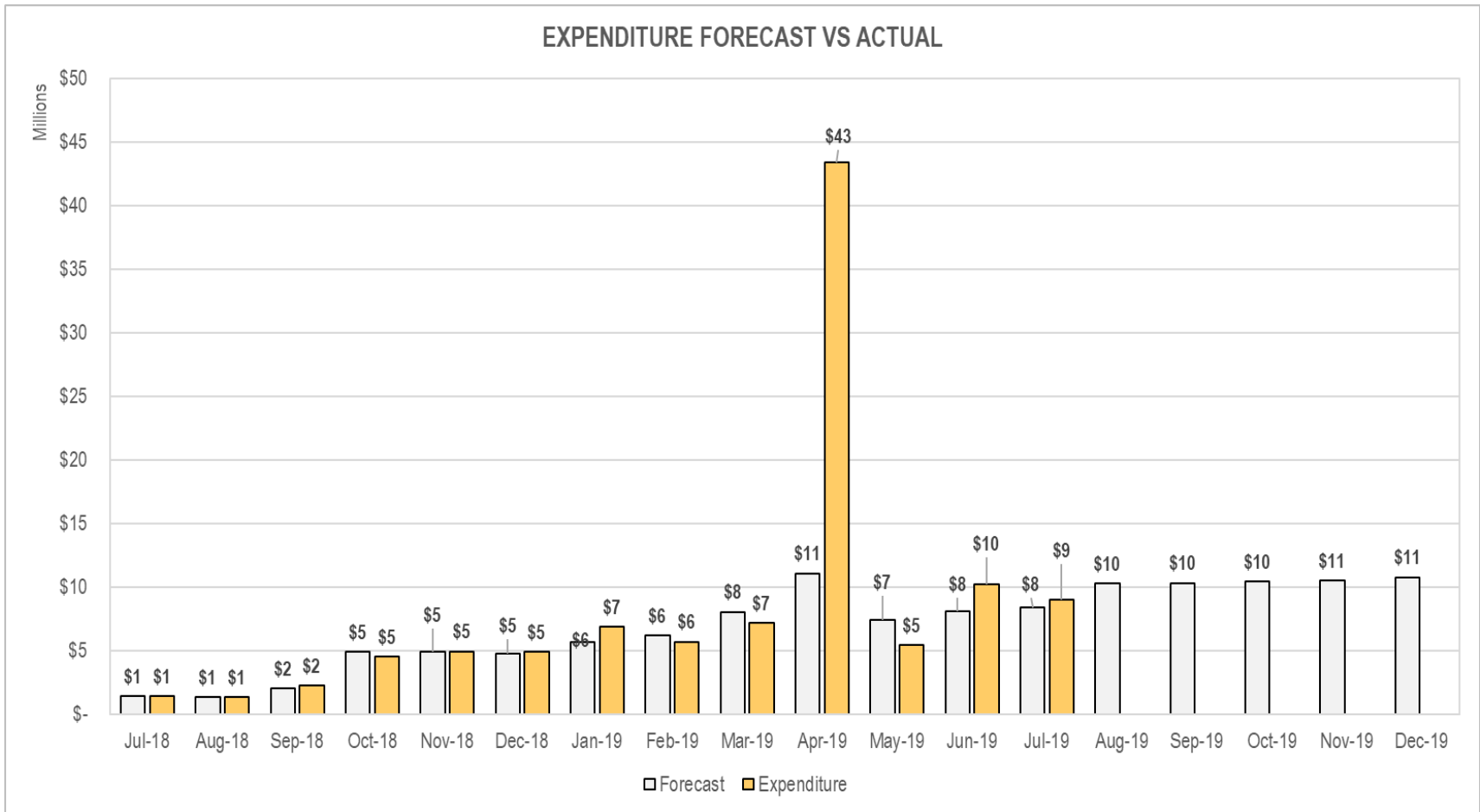


CP 4 Progress to Completion – Plan vs. Actual

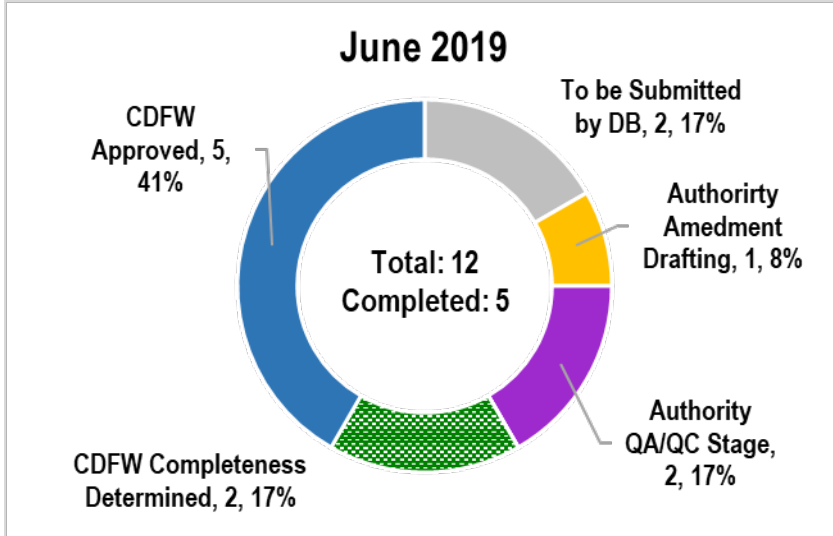
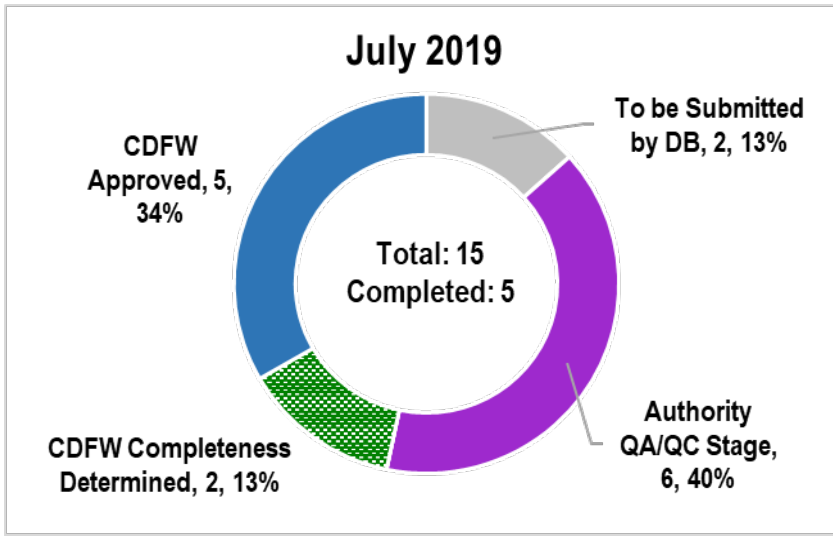


CP4 - Planned vs. Actual Expenditures- Near Term

Expenditures are higher than forecasted due to increase in guideway and abutment construction activity at Pond and Garces.



CP 4 Environmental Clearance – ITP Amendments



ID	ITP Amendment Package	Status	CDFW Permit Amendment Issuance
1	8 Irrigation Casings/Level 3 Utility Work	Completed	1/25/2019
2	IPB (CP\$)	Completed	2/27/2019
3	Kimberlina	Completed	2/5/2019
4	ATC2	In Progress	8/21/2019 Submitted to CDFW (resubmittal) 10/1/2019 ITP Amendment
5	SR46	In Progress	4/12/2019 Submitted to CDFW 5/9/2019 Determination of Completeness 8/9/2019 ITP Amendment
6	Utilities No.3	Authority Review	6/3/2019 Determination of Completeness 9/3/2019 ITP Amendment
7	Table 5/Table 8	In Progress	8/21/2019 to CDFW (resubmittal) 10/1/2019 ITP Amendment
8	McCombs/Merced/Scaroni/Caltrans	Delayed/ In Progress	9/3/2019 to CDFW 10/14/19 ITP Amendment
9	Semitropic Utilities	In Progress	7/5/19 to CDFW 10/25/19 ITP Amendment
10	Gromer Utilities	In Progress	8/16/19 to CDFW 09/27/19 ITP Amendment

CP 4 Progress Update

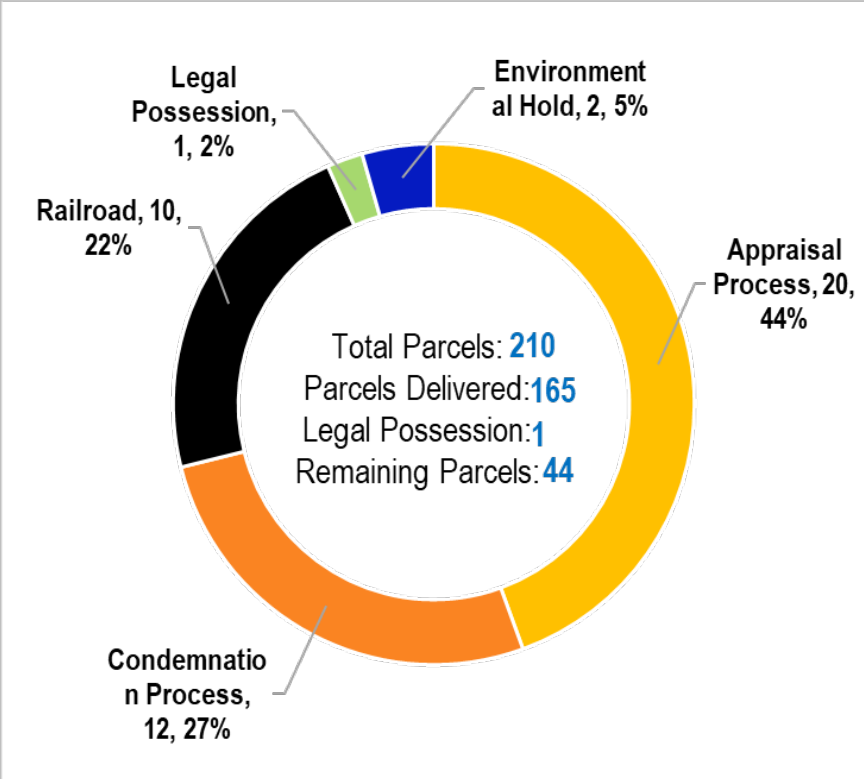
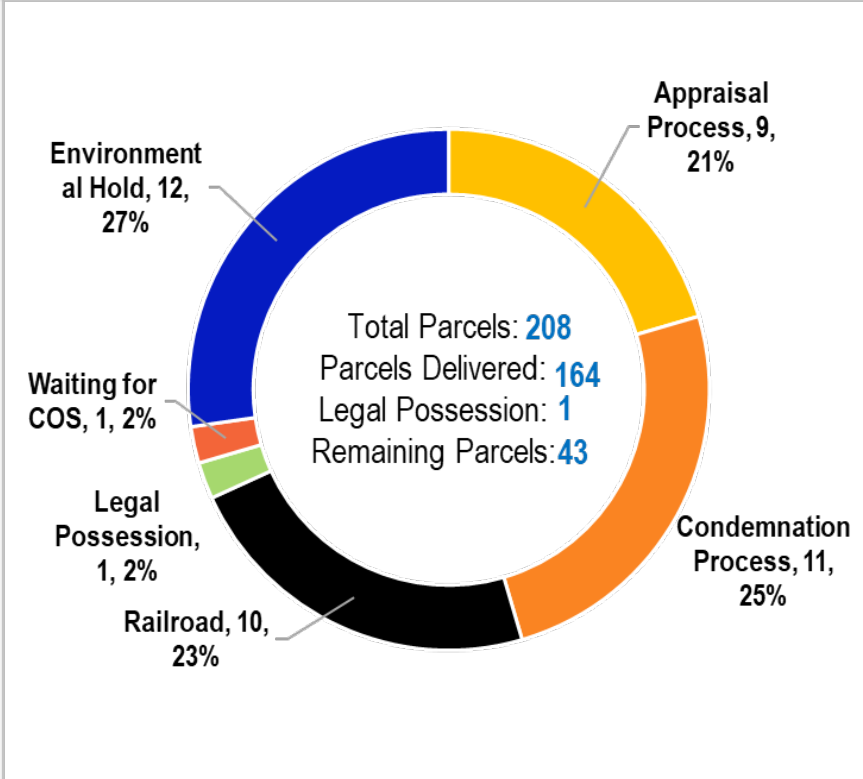
ROW Acquisition Status



0.0% 20.0% 40.0% 60.0% 80.0% 100.0%

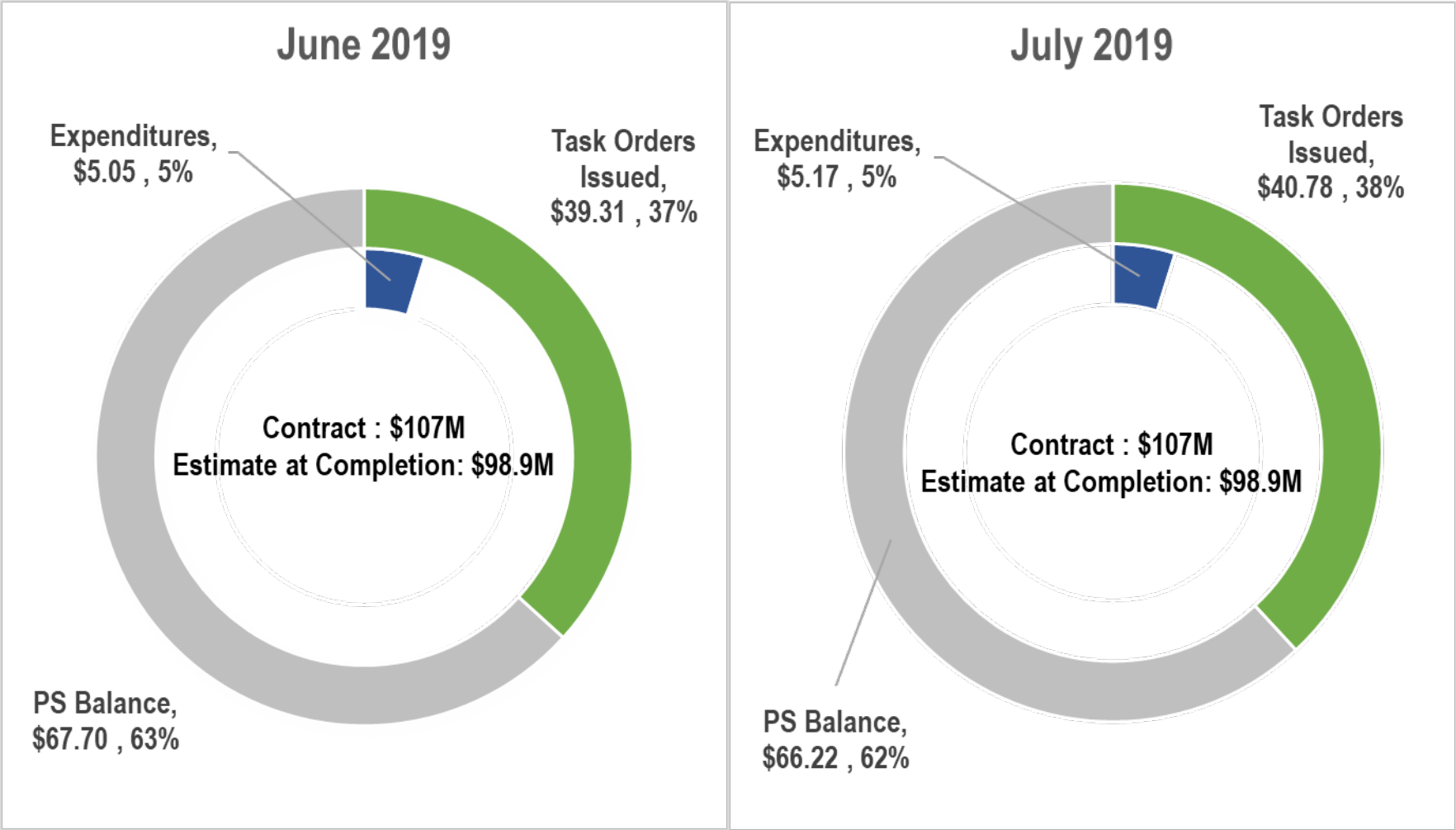
June 2019

July 2019



CP 4 Progress Update

Provisional Sums



CP 4 Critical Actions

- ▶ Third party relationships – Resolve design and access issues with key third party utility owners
 - PG&E
 - Sempra
 - Semitropic
 - Kern County
 - CDFW - Multiple Incidental Take Permit (ITP) amendments being proposed to CDFW to align with DB design
- ▶ Third Party design development and reviews for AT&T, PG&E, Semitropic Water Storage District, North Kern Water Storage District, Level 3 Communications and Southern California Gas Company.
- ▶ Facilitation of Environmental Re-examination and ITP Amendment processes.
- ▶ BNSF Railroad access discussions, track relocation coordination and design work required to generate relocation and construction and/or grade separation agreements.
- ▶ Commercial – Project Change Orders
 - Semitropic additional facilities
 - Intrusion Protection Barrier (IPB) System
 - Mechanically Stabilized Earth (MSE) Walls
- ▶ Design - Forming joint Focus Team for design review Wasco Viaduct
- ▶ DB QA/QC program and process
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ Select utility conflicts have reached design approval and are fully cleared for construction.
- ▶ Drilled shaft work at Wasco Viaduct continues.
- ▶ Abutment work at Pond and Garces structures ongoing.
- ▶ ROW – DB Critical ROW Remaining
 - 23 parcels remain