

Exhibit 2.3: Time and Effort Required for Cultural Resources Compliance

The time and effort required to complete cultural resources compliance will vary greatly depending on the nature of the project and the number and types of resources that may be impacted by it.

The table below indicates potential requirements in person-hours for the major activities in the Work Breakdown Structure (WBS)¹, based primarily on the Caltrans “Workload Estimating Norms” and the Central Region Environmental Division’s September 2009 “Workload Estimating Norms, Based on WBS 10.1”.² Also included are estimates of standard person-hour requirements and elapsed schedule time for some activities, based on Caltrans’ Standard Environmental Reference Volume 2- Cultural Resources (SERv2). In estimating schedule time, it should be noted that some activities could be done at the same time and can occur in different project phases.

Estimated Preparation Time (does not include external agency review time)

WBS Task ID	Activity / Product	Sched. Months	Est. Hours Standard	Est. Hours Range
150.20.30	Conduct Initial Records/Literature Search	1 month	20 hours	0 – 100 hours
150.20.30	Conduct Initial Archaeology Study	0 - 2 months	50 hours	10 - 100 hours
150.20.30	Conduct Initial Built Environment Study	0 - 2 months	50 hours	10 - 100 hours
150.20.70	Conduct Initial Native American Coordination	0 - 2 months	50 hours	10 - 100 hours
165.20.05.05	Prepare Preliminary APE Map	0 – 2 months	48 hours	0 –80 hours

¹ WBS codes are used in the delivery of capital outlay projects; the WBS is a deliverable-oriented grouping of project elements that organizes and defines the total scope work of a project. Each descending level represents an increasingly detailed definition of a project component or phase. Project components or phases may be products or services.” (Caltrans Workplan Standards Guide, Release 11.0, 2014, p.2.)

² The tool is available only to Caltrans staff on the Caltrans Intranet.

165.20.05.10	Conduct Native American Consultation	1 month	80 hours	0 – 240 hours
165.20.05.15	Conduct Records/Literature Search	1 month	30 hours	0 – 80 hours
165.20.15	Prepare Screened Undertaking Memo	1 month	8 hours	0 - 10 hours
165.20.05.20	Conduct Field Survey	1 month	80 hours	0 - 600 hours
165.20.05.25	Conduct Archaeological Survey	1 - 3 months	450 hours	0 -1200 hours
165.20.05.99	Prepare ASR with no sites present	1.5 months	40 hours	0 -1070 hours
165.20.10	Conduct Extended Phase I (XPI)	6 months	360 hours	0 -1576 hours
165.20.15	Prepare ASR with sites present	6 months	300 hours	0 – 1070 hours
165.20.20	Conduct Built-Environment Resources Survey	1 - 3 months	360 hours	0 – 720 hours
165.20.20.15	Prepare Historical Resources Evaluation Report (HRER)	1 - 2 months	160 hours	0 – 320 hours
165.20.20.20	Prepare HRER, Bridge Evaluation	1 - 3 months	20 hours	0 –320 hours
165.20.15	Conduct Phase II (PII)	12 months	1200 hours	0 - 8880 hours
165.20.25.05	Prepare Final APE Map(s)	1 month	16 hours	8 – 240 hours
165.20.25.15	Prepare HPSR / HRCR	1 - 2 months	140 hours	8 – 300 hours
165.20.25.20	Prepare FNAE with Standard Conditions	1 - 2 months	80 hours	8 – 160 hours
165.20.25.20	Prepare FNAE without Standard Conditions	1 - 3 months	320 hours	8 – 400 hours

165.20.25.20	Prepare Finding of Adverse Effect (FAE) with Standard Mitigation Measures ³ (for PRC 5024 only)	1 - 3 months	80 hours	8 – 160 hours
165.20.25.20	Prepare FAE	3 – 6 months	750 hours	0 – 800 hours
165.20.25.30	Prepare MOA	1.5 - 24 months	120 hours	0 - 1240 hours
165.20.25.25	Prepare Data Recovery Plan/Treatment Plan	12 months	640 hours	80 - 1400 hours
165.25.10	Prepare Section 4(f) Determination	1 - 3 months	80 hours	30 – 500 hours
235.05.05.05	Conduct Historic Built Environment Mitigation	15 months	80 hours	40 - 1000 hours
235.05.10	Conduct Phase III (PIII)	15 months	160 hours	0 - 1768 hours

The WBS codes are specific to project phases. As depicted in the table, the most common codes for cultural resources activities begin with 150, 165 and 235, which correlate to the following project phases:

- Phase K—Project Initiation: WBS Code 150 and its number extensions, e.g., 150.20, 150.20.30 etc. (develop project initiation document).
- Phase 0—Project Approval and Environmental Document: WBS Code 165 (perform environmental studies and prepare environmental document).
- Phase 1—Plans, Specifications and Estimates (PS&E): WBS Code 235 (mitigate environmental impacts).

³ Used only for Caltrans-owned archaeological resources that have been determined or assumed eligible for the National Register of Historic Places or for registration as California Historical Landmarks and are not on the Master List of Historical Resources.