Permit Application Package (Compiled) (Mock)

P4.2 compiled package | Application: EL-2026-01472 (mock)
EV Charging Site Project — Phase 4 Outputs (MOCK)

This compiled PDF represents the complete permit submission package as uploaded to the AHJ portal: forms + stamped drawings + supporting attachments + submission receipt.

Package sections (mock):

- P4.2_AHJ_ApplicationForms_2026-01-29.pdf
- P4.1_PermitSet_Stamped_2026-01-29.pdf
- P4.SupportingAttachments_Electrical_2026-01-29.pdf
- P4.SubmissionReceipt_AHJ_Confirmation_2026-01-29.pdf

AHJ Permit Application Forms (Mock)

P4.2 forms export | Date: 2026-01-29
EV Charging Site Project — Phase 4 Outputs (MOCK)

Application info (mock)

AHJ:	City of Palo Alto — Building Division (Electrical Permits)
Permit application number:	EL-2026-01472 (mock)
Site address:	Place (Palo Alto, CA) (mock)
Project description:	Install (8) Level-2 EVSE with load management (mock)
Applicant:	Jordan Lee (PM) (mock)
Contractor:	Romero Electric (mock)

Attachments declared (mock):

- Stamped drawings (P4.1)
- Load calc summary (P2.1)
- EVSE cut sheet (P1)
- EMS brief (P2)

Stamped Permit Drawings (Mock)

P4.1 | Stamp date: 2026-01-29 | Engineer-of-Record: Priya Shah, PE (mock)
EV Charging Site Project — Phase 4 Outputs (MOCK)

STAMP BLOCK (mock)

Priya Shah, PE (mock)
CA PE ###### (mock)
Date: 2026-01-29

NOTE: This is not a real stamp. For mock documentation only.

This cover page is added to represent an EOR stamped set. The remainder of the set is the compiled P3.6 unstamped permit set (mock).

Permit Drawing Set — Unstamped (Compiled) (Mock)

P3.6
EV Charging Site Project — Phase 3 Outputs (MOCK)

This file represents the compiled unstamped electrical permit drawing set assembled from P3.1–P3.5. In a real project this compilation is performed under document control with sheet indexing and QA logs.

Included sheets (mock):

- P3.1_OneLine_Prelim_Unstamped_2026-01-26.pdf
- P3.2_SitePlan_EVSE_Locations_Prelim_2026-01-26.pdf
- P3.3_Conduit_Trenching_Details_ElectricalImpacting_2026-01-26.pdf
- P3.4_PanelSchedules_Updated_MDP_and_EVSP_2026-01-26.pdf
- P3.5_ElectricalNotes_CodeSheets_2026-01-26.pdf

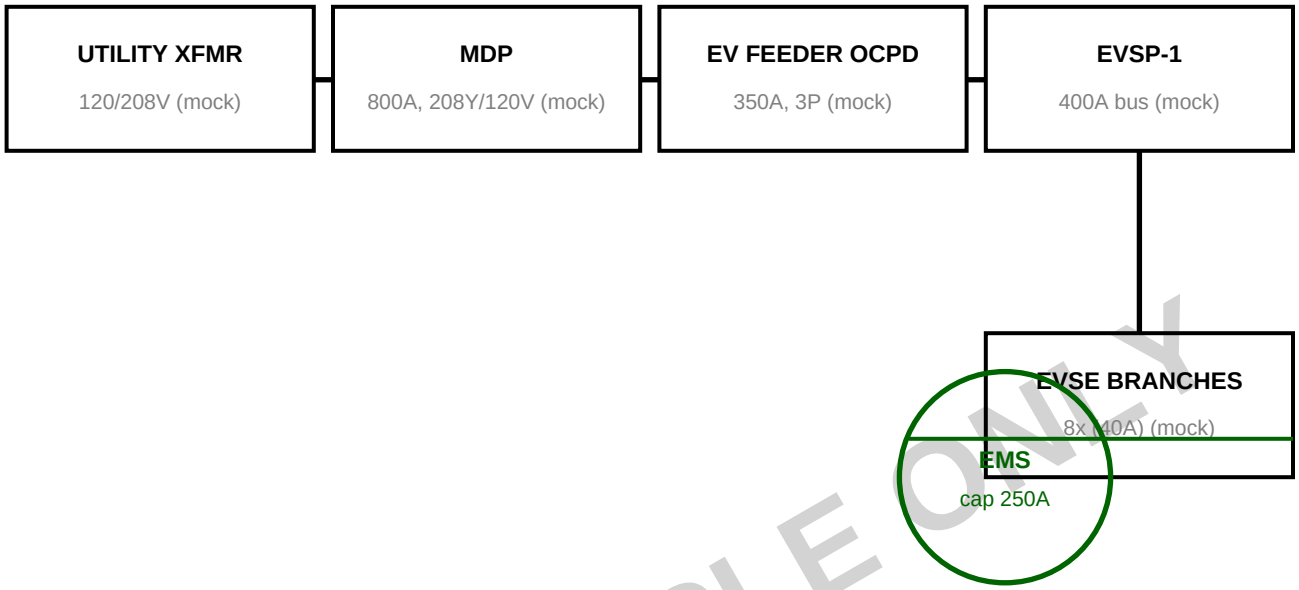
NOTE: This compilation is a mock artifact; replace with real CAD/PDF exports and stamps.

E-001 — One-Line Diagram (Preliminary, Unstamped) (Mock)

P3.1

EV Charging Site Project — Phase 3 Outputs (MOCK)

ONE-LINE DIAGRAM (mock)



NOTES (mock):

1. Existing service basis: 800A, 208Y/120V, 3Ø (verify in Phase 1 evidence).
2. EVSE loads treated as continuous; branch OCPD basis 40A per 32A continuous (mock).
3. EMS/load management shown to cap aggregate EV demand to ≤250A (mock basis).
4. Final conductor sizing, AIC, and coordination to be confirmed in stamped set.

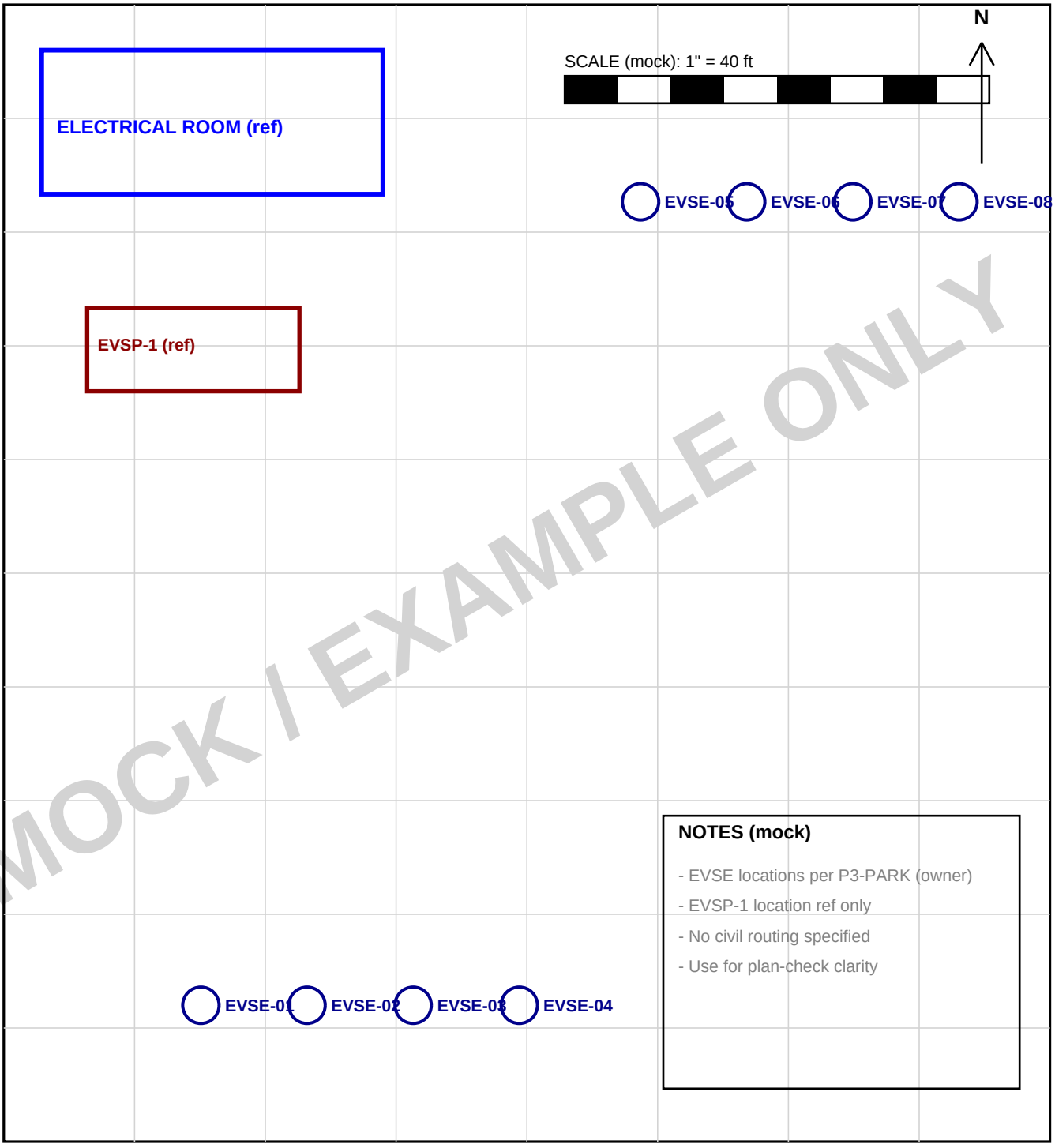
PROJECT (mock):	EV Charging Site Project	**SHEET:**	E-001	**ISSUED FOR:**	
SHEET TITLE:	One-Line Diagram (Preliminary)	**REV:**	0	UNSTAMPED	
ADDRESS:	Place (Palo Alto, CA) (mock)	**DATE:**	2026-01-26	(electrical-only)	

E-002 — Site Plan with EVSE Locations (Preliminary) (Mock)

P3.2

EV Charging Site Project — Phase 3 Outputs (MOCK)

GARAGE PLAN — EVSE LOCATION OVERLAY (mock)



PROJECT (mock):	EV Charging Site Project	**SHEET:**	E-002	**ISSUED FOR:**	
SHEET TITLE:	Site Plan — EVSE Locations	**REV:**	0	UNSTAMPED	
ADDRESS:	Place (Palo Alto, CA) (mock)	**DATE:**	2026-01-26	(electrical-only)	

E-003 — Conduit & Trenching Details (Electrical-Impacting) (Mock)

P3.3

EV Charging Site Project — Phase 3 Outputs (MOCK)

This sheet documents electrical-impacting routing assumptions, transition points, and typical details. It is not a civil/constructability plan.

DETAIL 1 — Feeder Path (mock)

MDP → EVSP-1 assumed path length: 165 ft (basis)

DETAIL 2 — Typical Raceway Notes (mock)

- Raceway sized per NEC/CEC Chapter 9 (mock).
- Parallel conductors permitted as designed (mock).
- Provide EGC with feeder conductors.
- Maintain separation from comms wiring (as applicable).

DETAIL 3 — EVSE Branch Typical (mock)

- Branch: 40A OCPD for 32A continuous (mock basis).
- Conductor sizing per terminal temp rating + derating.
- Provide disconnecting means as required by code/AHJ.
- Label EVSE circuit ID at equipment and panel.

DETAIL 4 — Grounding/Bonding Intent (mock)

- Bond raceways where required (mock).
- EGC sized per code basis (final by EOR).
- Panel ground bars bonded to GES (reference).
- Provide bonding jumpers at transitions.

PROJECT (mock):	EV Charging Site Project	**SHEET:**	E-003	**ISSUED FOR:**	
SHEET TITLE:	Conduit & Trenching Details (Electrical-	**REV:**	0	UNSTAMPED	
ADDRESS:	Place (Palo Alto, CA) (mock)	**DATE:**	2026-01-26	(electrical-only)	

E-004 — Updated Panel Schedules (MDP + EVSP-1) (Mock)

P3.4

EV Charging Site Project — Phase 3 Outputs (MOCK)

MDP — Updated (excerpt) (mock)

Slot	Breaker	Load	Notes
40/42/44	350A 3P	EVSP-1 feeder	Managed to 250A (mock)
17	200A 3P	SUBP-1	Existing
57	Spare	Spare/Space	Available 3-pole

EVSP-1 — New (excerpt) (mock)

Slot	Breaker	Load	Notes
1	40A 3P	EVSE-01	32A cont (mock)
2	40A 3P	EVSE-02	32A cont (mock)
3	40A 3P	EVSE-03	32A cont (mock)
4	40A 3P	EVSE-04	32A cont (mock)
5	40A 3P	EVSE-05	32A cont (mock)
6	40A 3P	EVSE-06	32A cont (mock)
7	40A 3P	EVSE-07	32A cont (mock)
8	40A 3P	EVSE-08	32A cont (mock)

NOTE: schedules are mock excerpts; full schedules included per P1 evidence in real project.

PROJECT (mock):	EV Charging Site Project	**SHEET:**	E-004	**ISSUED FOR:**	
SHEET TITLE:	Panel Schedules (MDP + EVSP-1)	**REV:**	0	UNSTAMPED	
ADDRESS:	Place (Palo Alto, CA) (mock)	**DATE:**	2026-01-26	(electrical-only)	

E-005 — Electrical Notes & Code Sheet (Mock)

P3.5

EV Charging Site Project — Phase 3 Outputs (MOCK)

GENERAL NOTES (electrical-only, mock)

1. Applicable code basis: 2022 California Electrical Code (CEC) (mock). Verify AHJ amendments.
2. EVSE loads treated as continuous; size OCPD and conductors accordingly (125% basis).
3. EMS/load management (if used) shall be listed and configured to enforce aggregate cap (mock: 250A).
4. Provide identification labeling for EV equipment and circuits; coordinate with panel schedules.
5. Provide grounding and bonding per code; bond raceways as required.
6. Verify available fault current and minimum AIC ratings in final stamped set.

SYMBOLS / LEGEND (mock)

EVSE location marker

EMS / Load management annotation

PROJECT (mock):	EV Charging Site Project	**SHEET:**	E-005	**ISSUED FOR:**	
SHEET TITLE:	Electrical Notes & Code Sheet	**REV:**	0	UNSTAMPED	
ADDRESS:	Place (Palo Alto, CA) (mock)	**DATE:**	2026-01-26	(electrical-only)	

Supporting Attachments — Electrical (Mock)

P4 supporting bundle | Date: 2026-01-29
EV Charging Site Project — Phase 4 Outputs (MOCK)

This file represents a compiled bundle of common electrical supporting attachments included with an AHJ permit submission (mock). It references Phase 1 and Phase 2 evidence pointers.

Included (mock):

- P2/Outputs/P2.1_LoadCalc_Summary_2026-01-22.pdf
- P2/Outputs/P2.2_Architecture_Decision_Record_2026-01-22.pdf
- P1/Inputs/P1-I04_EVSE_CutSheet_ElectriCharge_L2-7.6-G_revA.pdf
- P2/Inputs/P2-W04_EMS_TechnicalBrief_revB_2026-01-21.pdf
- P1/Inputs/P1-I05_AHJ_Electrical_Permitting_CodeBasis_2026-01-17.pdf

P2.1 Load Calculation Summary (Mock)

Prepared: 2026-01-22 (v1.0) | Basis: Phase 1 evidence pointers (mock)
EV Charging Site Project — Phase 2 Outputs (MOCK)

This summary captures the key results of the Phase 2 load calculation. Replace with an Engineer-of-Record signed calculation and jurisdiction-specific methodology where required.

Inputs (by evidence pointer, mock):

- Panel schedules: P1/Inputs/P1-I02_PanelSchedules_MDP_and_Subpanels_2026-01-16.pdf
- EVSE cut sheet: P1/Inputs/P1-I04_EVSE_CutSheet_ElectriCharge_L2-7.6-G_revA.pdf
- AHJ/code basis: P1/Inputs/P1-I05_AHJ_Electrical_Permitting_CodeBasis_2026-01-17.pdf
- EMS brief: P2/Inputs/P2-W04_EMS_TechnicalBrief_revB_2026-01-21.pdf

Key calculation results (mock):

Parameter	Value
Ports	8
EVSE continuous current / port	32A
Continuous factor	125%
Design current / port	40A
Total unmanaged EV current	320A
Headroom basis (screening)	250A
Result	Unmanaged exceeds headroom by 70A → EMS required

NOTE: Mock summary only; final engineering must be stamped where required.

P2.2 Architecture Decision Record (Mock)

Prepared: 2026-01-22 (v1.0) | Decision: Managed-load architecture
EV Charging Site Project — Phase 2 Outputs (MOCK)

This record documents the selected EV electrical architecture based on the Phase 2 load calculation and Phase 1 site constraints. Replace with an Engineer-of-Record signed decision where required.

Decision drivers (mock):

- Project constraint: avoid service upgrade unless unavoidable.
- Unmanaged EV load (320A) exceeds headroom basis (250A).
- Maintain 8-port scope without reducing EVSE count.
- Adopt listed EMS/load management to cap aggregate EV demand.

Selected architecture (mock):

- New EV subpanel: EVSP-1, 400A bus (mock).
- Feeder OCPD: 350A, 3-pole (mock).
- Branch circuits: (8) 40A OCPD for EVSE-01..EVSE-08 (mock).
- EMS: cap aggregate EV demand to ≤250A (setpoint documented on drawings).

Downstream impacts (mock):

- P3.1 one-line must depict EMS and cap logic; include fail-safe note placeholder.
- P3.4 schedules must reflect EVSP-1 and branch circuit IDs.
- P6 utility package should include EMS brief and cap statement.

NOTE: Mock decision record; replace with signed EOR memo and attachments.

EVSE Cut Sheet (Mock) — ElectriCharge L2-7.6-G (revA)

Installer/Vendor PDF (mock format) | Rev: A
EV Charging Site Project — Phase 1 Inputs (MOCK)

Key Electrical Ratings (mock)

Supply system:	208Y/120V, 3-phase (line-to-line load) (mock)
Nominal output power:	7.6 kW (nominal)
Continuous current:	32A
Recommended OCPD:	40A
Enclosure:	NEMA 3R (mock)
Communications:	OCPP 1.6J (mock)
Listing:	UL 2594 / UL 2231 (mock)

Installation Notes (mock)

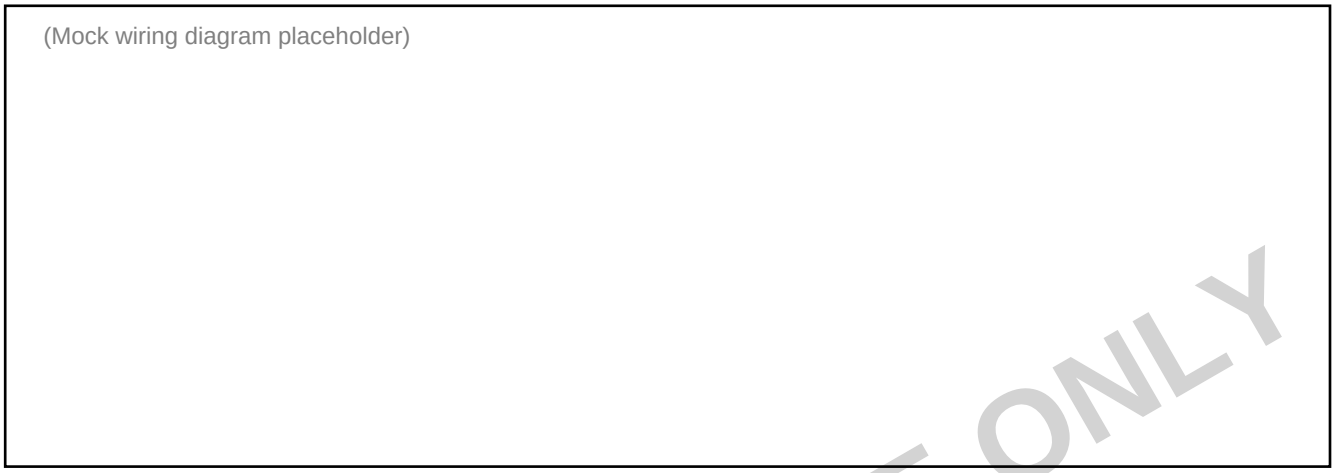
Branch circuit sizing shall comply with applicable NEC/CEC requirements for continuous loads. A 40A breaker is typical for 32A continuous output. Final breaker and conductor sizing per Engineer-of-Record.

EVSE Cut Sheet (Mock) — Wiring/Dimensions (revA)

ElectriCharge — Product Data Sheet (mock)
EV Charging Site Project — Phase 1 Inputs (MOCK)

Wiring (mock excerpt)

Input: L1, L2, L3, G (no neutral required). Optional control wiring per network kit (mock).



Dimensions (mock)

- Height: 18.5 in
- Width: 12.0 in
- Depth: 6.0 in
- Mounting: wall or pedestal (mock accessory)

NOTE: Generated mock cut sheet for documentation format realism only.

EVSE Cut Sheet (Mock) — Labeling / Installation Checklist (revA)

Field-install notes (mock)
EV Charging Site Project — Phase 1 Inputs (MOCK)

This page summarizes common electrical-only installation considerations typically included in manufacturer documentation or installer checklists. Final requirements must follow the AHJ-adopted code basis and the EOR permit set.

Labeling / placarding (mock):

- Circuit identification label at EVSE and at panel schedule.
- If an EMS/load management system is used, label the controlled system and setpoint.
- Mark EVSE as continuous load; confirm breaker sizing basis (125%).

Electrical notes (mock):

- No neutral required for line-to-line EVSE supply (if configured as such).
- Provide equipment grounding conductor with branch circuit conductors.
- Verify maximum OCPD per manufacturer listing.
- Final conductor sizing per terminal temperature ratings and derating factors.

NOTE: This checklist is illustrative for mock documentation realism.

EMS Technical Brief (revB) — Load Management for EVSE (Mock)

Vendor brief (mock) | Rev: B | Date: 2026-01-21
EV Charging Site Project — Phase 2 Inputs (MOCK)

This document is a mock technical brief for a listed Energy Management System (EMS) used to cap aggregate EV charging demand. Replace with actual vendor documentation and listing evidence.

Key capabilities (mock):

- Aggregate current cap setpoint (mock): 250A at EV feeder.
- Per-port load allocation across up to 16 ports (mock).
- Fail-safe behavior: on comms loss, enforce conservative cap (mock).
- Listed to applicable standards (mock listing placeholders).
- Provides configuration export for as-built documentation (Phase 7).

Integration points (mock):

- Measures feeder current via CTs at EVSP-1 feeder (monitoring point).
- Controls EVSE output via network interface (OCPP) or hardwired control (mock).
- Setpoint documented on one-line and notes sheet (Phase 3).

EMS Technical Brief (revB) — Configuration + Compliance Notes (Mock)

Appendix: configuration fields (mock)
EV Charging Site Project — Phase 2 Inputs (MOCK)

Configuration fields (mock):

Project ID:	EV-PA-001 (mock)
Cap setpoint:	250A
Monitoring point:	EV feeder at MDP/EVSP-1
Fail-safe mode:	Cap enforced on fault
Export format:	PDF + JSON (mock)

NOTE: This is a generated mock EMS brief for documentation realism only.

AHJ Electrical Permitting + Code Basis Evidence Capture (Mock)

Capture date: 2026-01-17 | Source: AHJ website (mock capture)
EV Charging Site Project — Phase 1 Inputs (MOCK)

This PDF represents a mock evidence capture of the Authority Having Jurisdiction (AHJ) electrical permitting page and adopted code basis. Replace with an actual screenshot/capture and preserve metadata.

City of Palo Alto — Building Division (Electrical Permits) (mock)

https://www.cityofpaloalto.example/building/electrical-permits (mock)

AHJ (electrical permitting):	City of Palo Alto — Building Division (Electrical Permits)
Adopted electrical code:	2022 California Electrical Code (CEC) (mock)
Amendments noted:	Local amendments may apply (mock note)
Permit submittal method:	Online portal upload (mock)
Plan check contact:	electricalpermits@paloalto.example (mock)

Metadata: captured_by=Jordan Lee (mock) | method=PDF print | timezone=PT | browser=Chrome (mock)

AHJ Electrical Permitting — Submittal Requirements Excerpt (Mock)

Source: AHJ checklist page (mock capture)
EV Charging Site Project — Phase 1 Inputs (MOCK)

This page captures a mock summary of common AHJ electrical submittal requirements, preserved as evidence for Phase 1 intake and Phase 4 application packaging.

Requirements checklist (mock):

- Stamped electrical plans (PDF) with title blocks and sheet index.
- Load calculation summary (where applicable).
- Equipment cut sheets (EVSE + EMS if used).
- Site/address and applicant/contractor information.
- Single-line / one-line diagram included in plan set.

Code adoption excerpt (mock):

> The City has adopted the 2022 California Electrical Code (CEC). Project documents shall reference the adopted code edition and any local amendments as applicable. (Mock excerpt.)

AHJ Submission Receipt / Confirmation (Mock)

Portal confirmation export | Date: 2026-01-29
EV Charging Site Project — Phase 4 Outputs (MOCK)

AHJ:	City of Palo Alto — Building Division (Electrical Permits)
Application number:	EL-2026-01472 (mock)
Submission method:	Online portal upload (mock)
Submitted by:	Jordan Lee (PM) (mock)
Submission date/time:	2026-01-29 14:18 PT (mock)
Status:	Submitted (mock)

NOTE: Mock receipt; replace with actual portal download/screenshot PDF.