

CHUGACH STUDIO

ELECTRICAL SERVICE DESIGN

COVER SHEET

CONCEPT - NOT FOR CONSTRUCTION

01 / DESIGN BASIS

Parameter	Design basis
Scope	Electrical service concept
Primary / secondary	7200/12470 V / 120/240 V
Transformer	pole mounted; kVA / phase availability pending
Routing	Pole line + underground crossings
Road crossing policy	Underground preferred; OH fallback requires clearance review
Estimate	\$14,557 priced subtotal; exclusions apply

02 / WORK-ORDER REQUIREMENTS

ROW: not recorded | Easement: not recorded | Permit: not recorded | Fence: not recorded | Clearing: not recorded

03 / SHEET INDEX

G-001 Cover / Q-001 Bid / S-001 Staking / C-001 Address map / E-001 Electrical facility map. Continuation sheets appear where needed.

04 / ENGINEERING REVIEW

Confirm survey control, source capacity, phases, conductor sizes, transformer ratings, easements, access, clearances, pulling limits, grounding and protection. No seal or construction approval is implied.

Among found candidates, existing pole reuse and approved corridor coverage preferred; Pole-line candidates preferred; perpendicular underground road crossings preferred, overhead fallback requires clearance review. Costs exclude unpriced electrical equipment. Concept only; CEA design review required.

PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET G-001 Cover sheet	
DATE 2026-10-21 REV 0 / CONCEPT	DESIGN / CHECK: PENDING UNITS m LOCAL / VERIFY CONTROL	CEA REVIEW REQUIRED	PAGE 1 OF 7

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BID SHEET

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ITEMIZED TAKEOFF / ASSEMBLY MAPPING PENDING

Item / procedure	Circuit / install	Quantity	Rate (\$)	Amount (\$)
conductor / install	primary OH	58.89 m	5.50/ft	\$1062.66
conductor / install	primary UG	33.15 m	35.00/ft	\$3806.42
conductor / install	secondary UG	25.59 m	35.00/ft	\$2938.05
conduit / install	primary UG	33.15 m	Unpriced	In UG rate
conduit / install	secondary UG	25.59 m	Unpriced	In UG rate
meter / install	secondary	1.00 each	Unpriced	Review
pole / install		7.00 each	900.00/ea	\$6300.00
pedestal / install	secondary	1.00 each	450.00/ea	\$450.00
vault / inspect	primary	1.00 each	Unpriced	Review
transformer / install	primary-secondary	1.00 each	Unpriced	Review

Rates are study assumptions. UG cable rate includes one conduit run. Transformers, vault equipment, protection, grounding, civil work and installation allowances remain excluded unless separately estimated. Existing facilities are retained, not billed as new.

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STAKING SHEET

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FACILITY SCHEDULE / VERIFY CONTROL AND ELEVATIONS

Facility ID / type	Action	X	Y	Z
SERVICE-METER / meter	install	11.563	-3.000	1.500
POLE-1 / pole	install	1.000	74.000	0.000
POLE-2 / pole	install	0.000	58.000	0.000
POLE-3 / pole	install	0.000	46.000	0.000
POLE-4 / pole	install	0.000	40.000	0.000
POLE-5 / pole	install	0.000	22.000	0.000
POLE-6 / pole	install	0.000	10.000	0.000
POLE-7 / pole	install	1.000	4.000	0.000
PED-1 / pedestal	install	3.000	2.000	0.000
PRIMARY-VAULT-1 / vault	inspect	-0.021	13.299	0.000
XFMR-1 / transformer	install	1.000	4.000	9.000

IDs match the facility map. Pole points are ground positions; transformer elevations are model positions. Confirm offsets, datum, easements, equipment access and construction assemblies before field use.

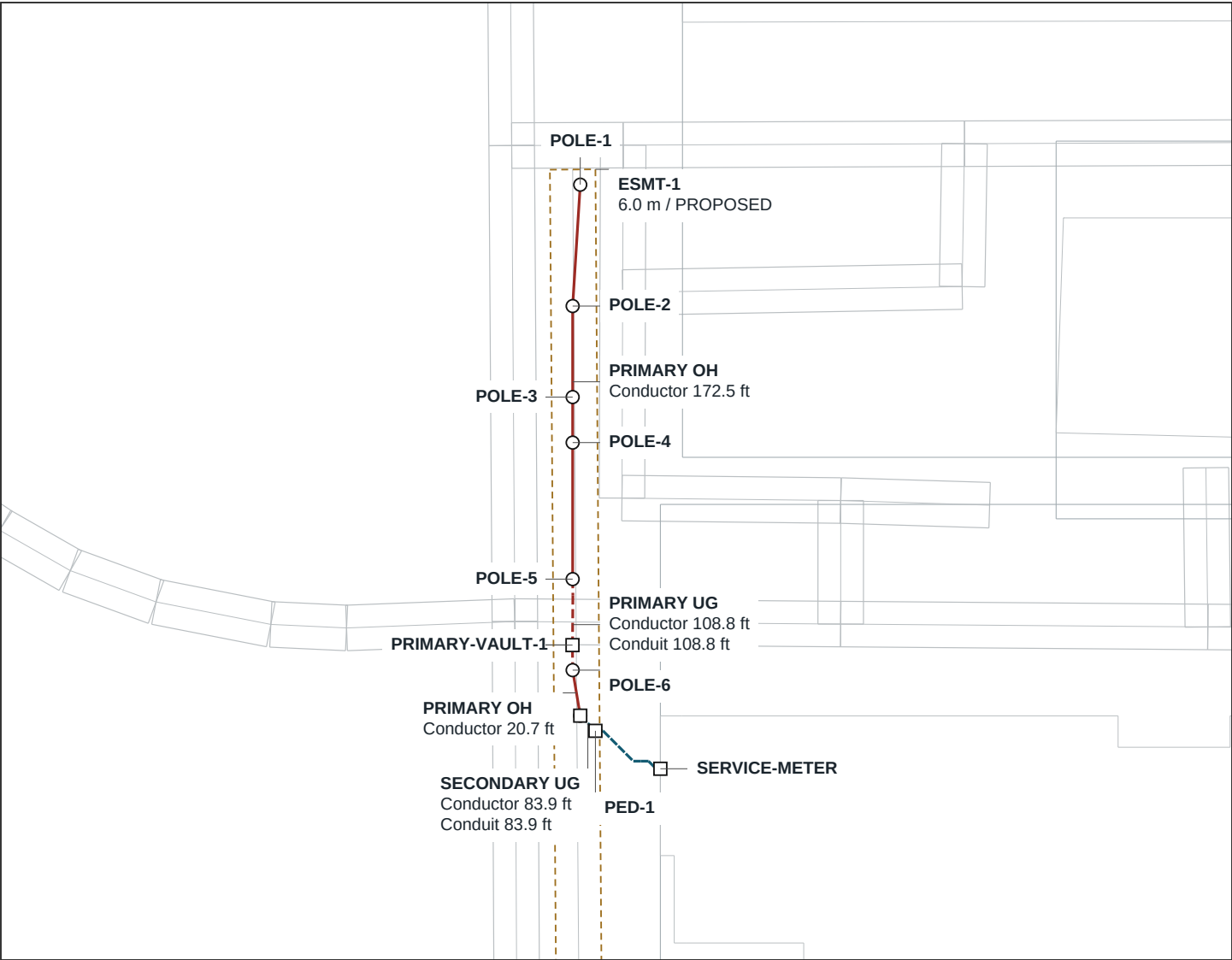
PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET S-001 Staking sheet	
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ELECTRICAL SERVICE DESIGN

ADDRESS MAP

CONCEPT - NOT FOR CONSTRUCTION



LEGEND: primary red / secondary blue; solid OH / dashed UG; circle pole / square equipment. Dashed ochre: proposed corridor; green: approval recorded.

ESMT callouts show modeled corridor width and recorded approval status. Proposed geometry is not a recorded legal easement. Confirm boundaries and rights.

OpenStreetMap context approximate local metres OpenStreetMap contributors

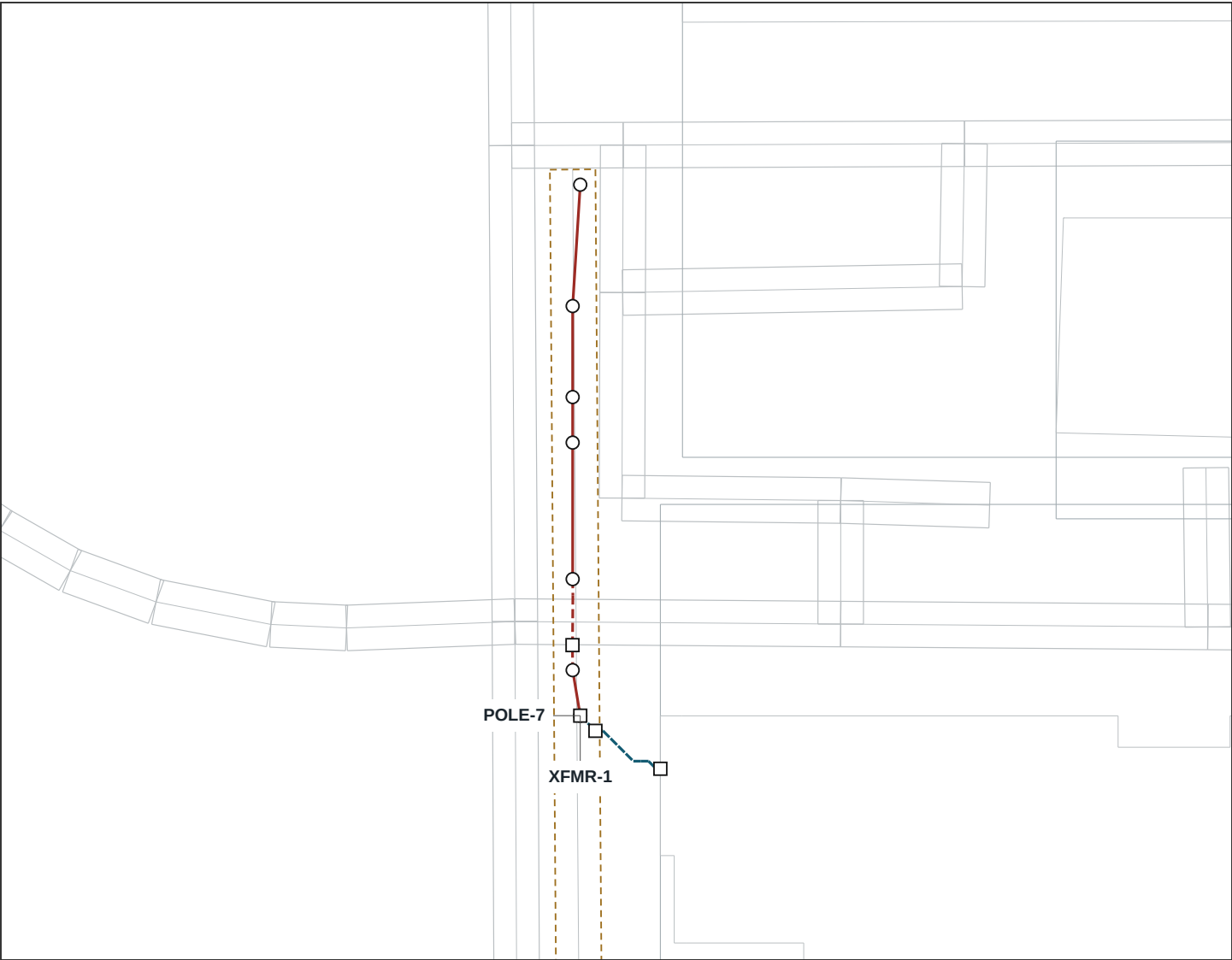
PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET C-001 Address map	
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ELECTRICAL SERVICE DESIGN

ADDRESS MAP / CONTINUED 2

CONCEPT - NOT FOR CONSTRUCTION



10 m

Scale 1:852 at 100% / verify control

CALLOUTS 2 / 2

N

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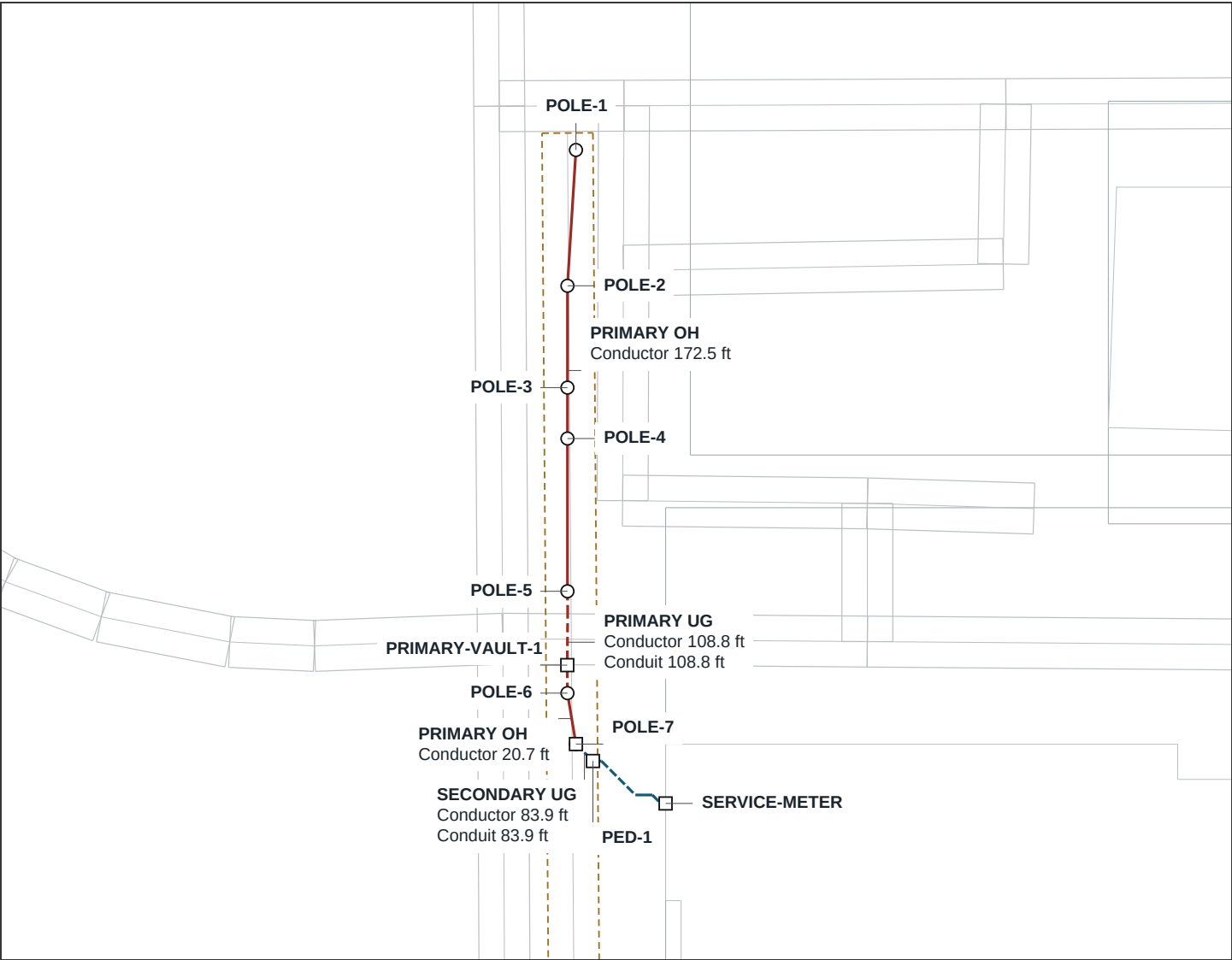
PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET C-001.2 Address map	
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ELECTRICAL SERVICE DESIGN

ELECTRICAL FACILITY MAP

CONCEPT - NOT FOR CONSTRUCTION



LEGEND: primary red / secondary blue; solid OH / dashed UG; circle pole / square equipment. Dashed ochre: proposed corridor; green: approval recorded.

Circuit callouts pair conductor and conduit totals in feet, including vertical leads. Equipment breaks remain separate in the takeoff. Sizes and clearances require review.

OpenStreetMap context approximate local metres OpenStreetMap contributors

PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET E-001 Electrical facility map	
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ELECTRICAL FACILITY MAP / CONTINUED 2

CONCEPT - NOT FOR CONSTRUCTION



10 m

Scale 1:761 at 100% / verify control

CALLOUTS 2 / 2

N

LEGEND: primary red / secondary blue; solid OH / dashed UG; circle pole / square equipment. Dashed ochre: proposed corridor; green: approval recorded.

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OpenStreetMap context approximate local metres OpenStreetMap contributors

PROJECT / WORK ORDER CONCEPT-TIMBERLINE Timberline Dr, Girdwood neighborhood concept		SHEET E-001.2 Electrical facility map	
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