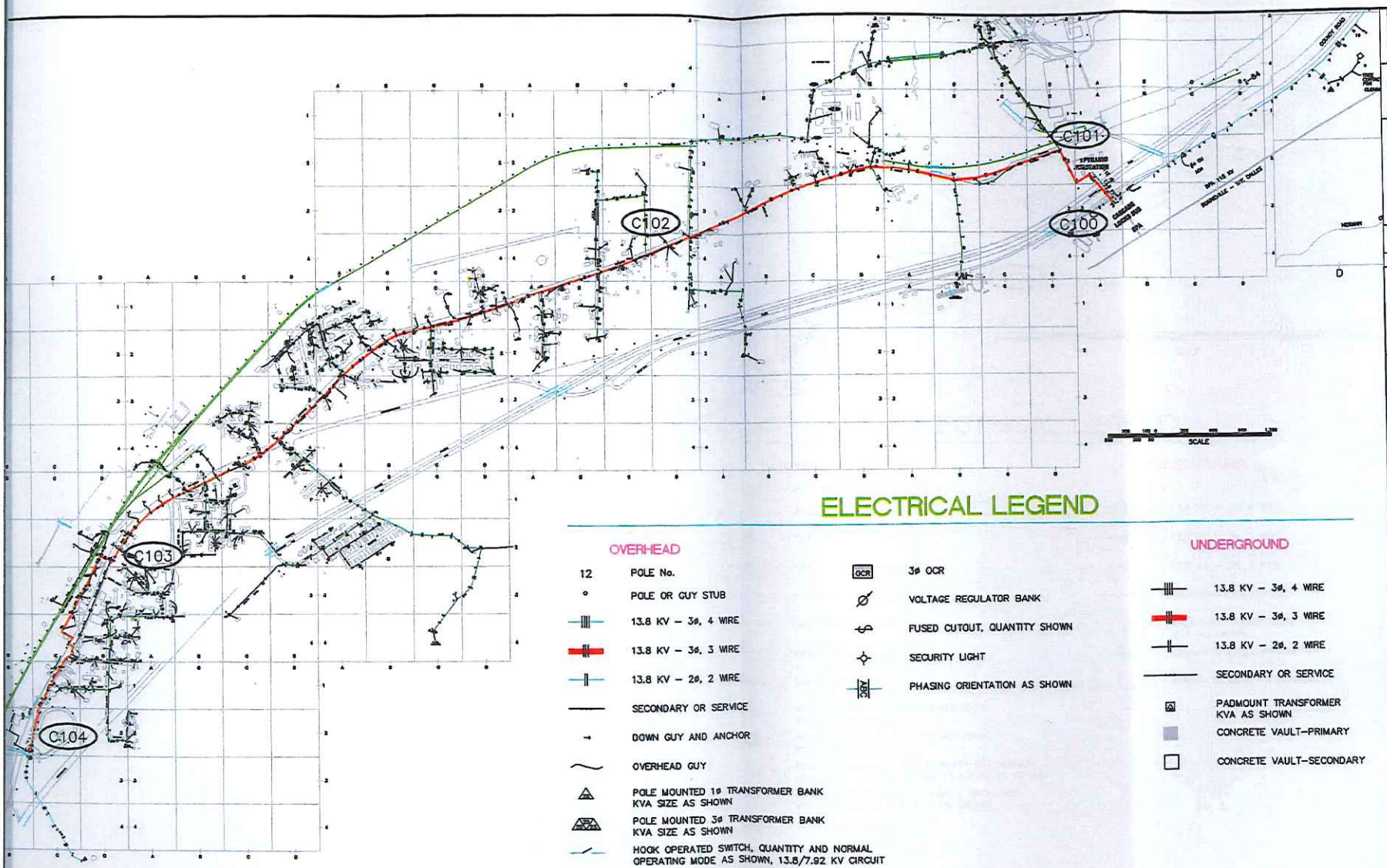


ELECTRICAL LEGEND

OVERHEAD

- 12 — POLE No.
- ° — POLE OR GUY STUB
- 13.8 KV – 3ø, 4 WIRE
- 13.8 KV – 3ø, 3 WIRE
- 13.8 KV – 2ø, 2 WIRE
- SECONDARY OR SERVICE
- DOWN GUY AND ANCHOR
- OVERHEAD GUY
- POLE MOUNTED 1ø TRANSFORMER BANK KVA SIZE AS SHOWN
- POLE MOUNTED 3ø TRANSFORMER BANK KVA SIZE AS SHOWN
- HOOK OPERATED SWITCH, QUANTITY AND NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT
- GANG-OPERATED SWITCH, NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT
- OCR — 3ø OCR
- VOLTAGE REGULATOR BANK
- FUSED CUTOUT, QUANTITY SHOWN
- SECURITY LIGHT
- OBV — PHASING ORIENTATION AS SHOWN

UNDERGROUND

- 13.8 KV – 3ø, 4 WIRE
- 13.8 KV – 3ø, 3 WIRE
- 13.8 KV – 2ø, 2 WIRE
- SECONDARY OR SERVICE
- PADMOUNT TRANSFORMER KVA AS SHOWN
- CONCRETE VAULT–PRIMARY
- CONCRETE VAULT–SECONDARY

REV	DATE	REVISION DESCRIPTION	DESIGNER	REVIEWER
1	12/24/13	UPDATED TITLE BLOCK	LAS	

Brown & Kysar, Inc.
CONSULTING ENGINEERS
(503) 227-3456 | (541) 617-2339

BKI PROJECT NO: CL12-006
CONTRACT NO:

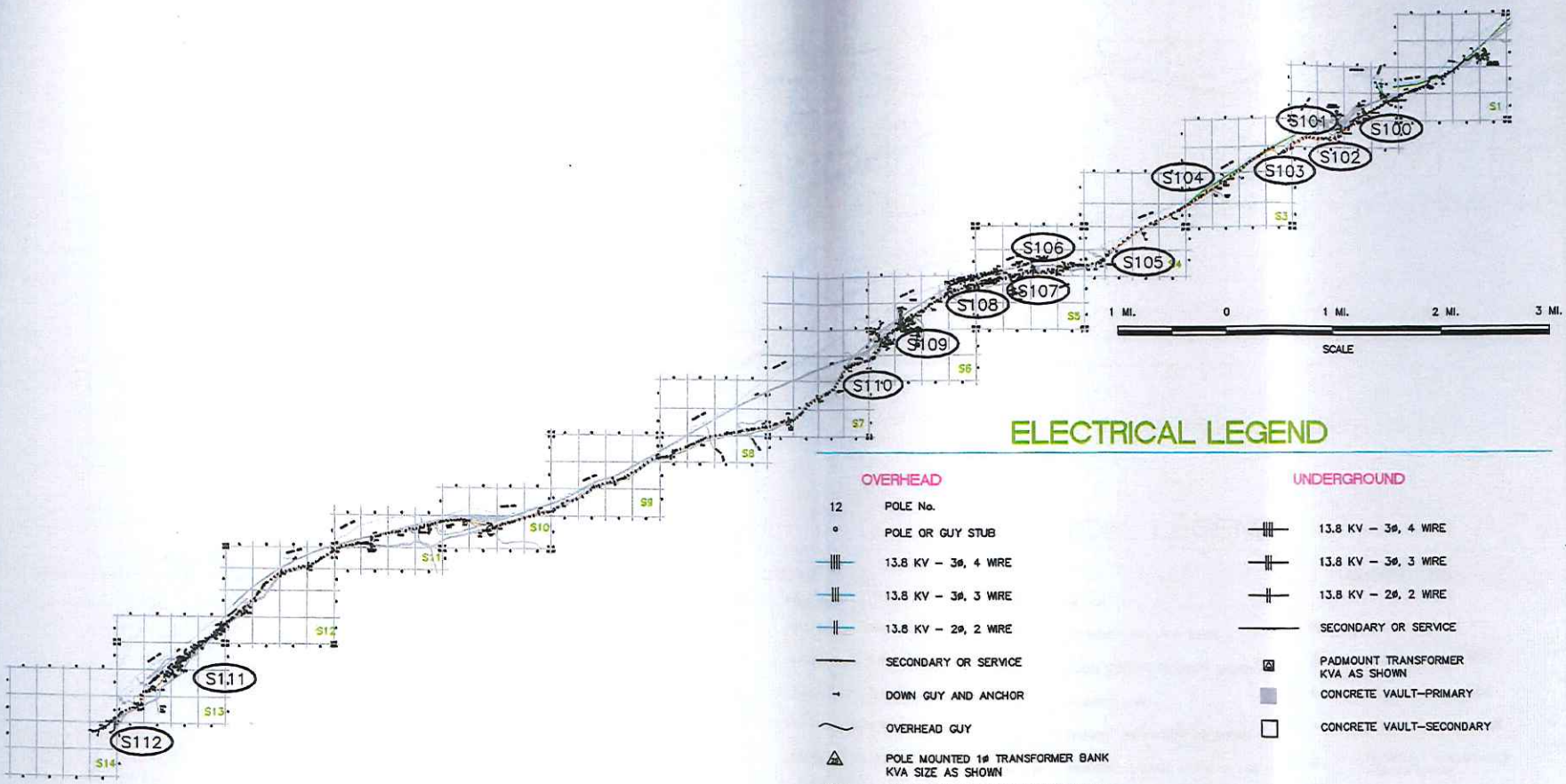
THIS LINE IS 1" LONG
AT THE CORRECT SCALE

SYSTEM MAPS
CITY 3-PHASE FEEDER

CITY OF CASCADE LOCKS
140 SW Wahlapa
CASCADE LOCKS, OR 97014

1 REVISION

A-1



ELECTRICAL LEGEND

OVERHEAD

12	POLE No.
○	POLE OR GUY STUB
	13.8 KV – 3ø, 4 WIRE
	13.8 KV – 3ø, 3 WIRE
	13.8 KV – 2ø, 2 WIRE
	SECONDARY OR SERVICE
→	DOWN GUY AND ANCHOR
	OVERHEAD GUY
	POLE MOUNTED 1ø TRANSFORMER BANK KVA SIZE AS SHOWN
	POLE MOUNTED 3ø TRANSFORMER BANK KVA SIZE AS SHOWN
	HOOK OPERATED SWITCH, QUANTITY AND NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT
	GANG-OPERATED SWITCH, NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT
OCR	3ø OCR
	VOLTAGE REGULATOR BANK
	FUSED CUTOUT, QUANTITY SHOWN
	SECURITY LIGHT
240V	PHASING ORIENTATION AS SHOWN

UNDERGROUND

	13.8 KV – 3ø, 4 WIRE
	13.8 KV – 3ø, 3 WIRE
	13.8 KV – 2ø, 2 WIRE
	SECONDARY OR SERVICE
	PADMOUNT TRANSFORMER KVA AS SHOWN
	CONCRETE VAULT–PRIMARY
	CONCRETE VAULT–SECONDARY

REV	DATE	REVISION DESCRIPTION	DESIGNER
1	12-23-13	UPDATED TITLE BLOCK	LJS

Brown & Kysar, Inc.
Engineering & Consulting
(541) 617-1866 | (541) 617-1339

BKI PROJECT NO: CL12-005
CONTRACT NO:

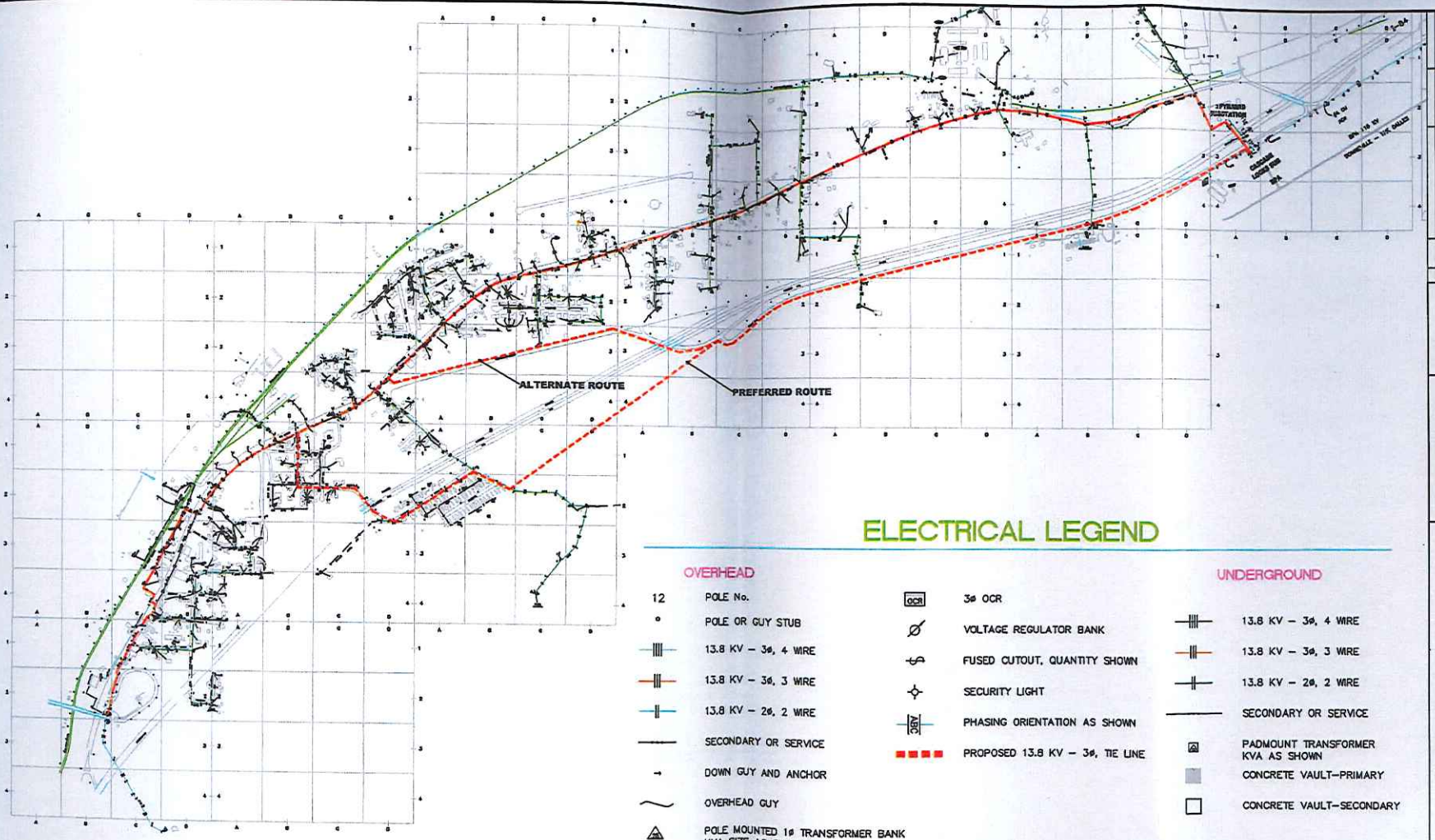
THIS LINE IS 1" LONG AT THE CORRECT SCALE

SYSTEM MAPS
SOUTHBANK FEEDER

CITY OF CASCADE LOCKS
140 SW WaNaPa
CASCADE LOCKS, OR 97014

REVISION 0

A-2



ELECTRICAL LEGEND

OVERHEAD

- 12 — POLE No.
- POLE OR GUY STUB
- 13.8 KV – 3ø, 4 WIRE
- 13.8 KV – 3ø, 3 WIRE
- 13.8 KV – 2ø, 2 WIRE
- SECONDARY OR SERVICE
- DOWN GUY AND ANCHOR
- OVERHEAD GUY
- POLE MOUNTED 1ø TRANSFORMER BANK KVA SIZE AS SHOWN
- POLE MOUNTED 3ø TRANSFORMER BANK KVA SIZE AS SHOWN

HOOK-OPERATED SWITCH, QUANTITY AND NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT

GANG-OPERATED SWITCH, NORMAL OPERATING MODE AS SHOWN, 13.8/7.92 KV CIRCUIT

- OCR — 3ø OCR
- VOLTAGE REGULATOR BANK
- FUSED CUTOUT, QUANTITY SHOWN
- SECURITY LIGHT
- 28Y — PHASING ORIENTATION AS SHOWN
- PROPOSED 13.8 KV – 3ø, TIE LINE

UNDERGROUND

- 13.8 KV – 3ø, 4 WIRE
- 13.8 KV – 3ø, 3 WIRE
- 13.8 KV – 2ø, 2 WIRE
- SECONDARY OR SERVICE
- PADMOUNT TRANSFORMER KVA AS SHOWN
- CONCRETE VAULT–PRIMARY
- CONCRETE VAULT–SECONDARY

NO.	DATE	REVISION DESCRIPTION	DESIGNER	REVISIONS

Brown & Kysar, Inc.
Engineering & Consulting
(541) 923-3668 | (541) 923-3339

BKI PROJECT NO: CL12-005
CONTRACT NO:

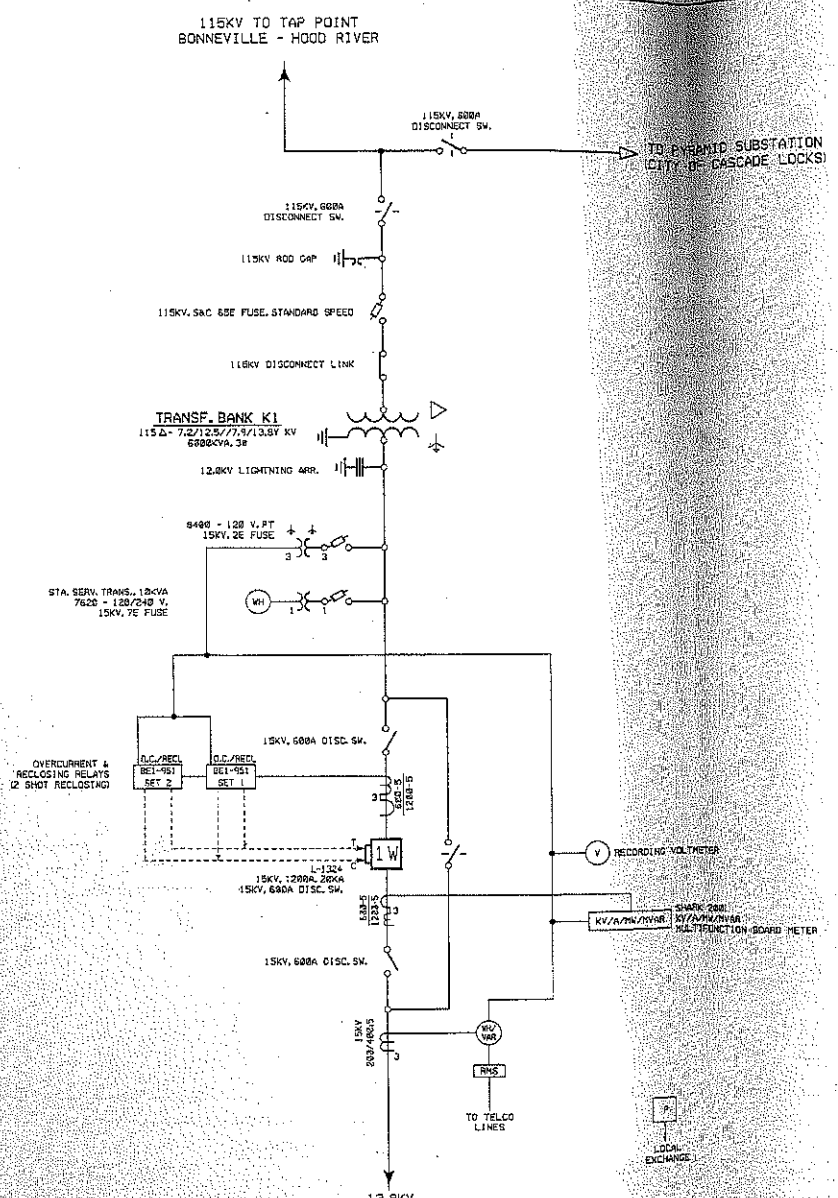
TYP LINE IS 1" LONG AT THE CORRECT SCALE

SYSTEM MAPS
CITY 3-PHASE LOOP ROUTE

CITY OF CASCADE LOCKS
140 SW WaNaPa
CASCADE LOCKS, OR 97014

0
REVISION

B
1 / 1



RA*7685

S	R	22580	REVISED BY RR GROUP PER FIELD MODIFICATION	JAV 09/03/10	
S	FA	224383	REPL'D PCB 1W, O.C.-A RECLR RELAYS	DA 05/28/09	TEJ
			REVISION 4 DATED 8/12/03 CONVERTED TO CAD.		RPM
NO	FA	W.O. 224383	COMPUTER REVISION ONLY	BY DATE	APPROVED

CONTRACT CONSTRUCTION, FASFORCE ACCOUNT CONSTRUCTION, AS-RECORD

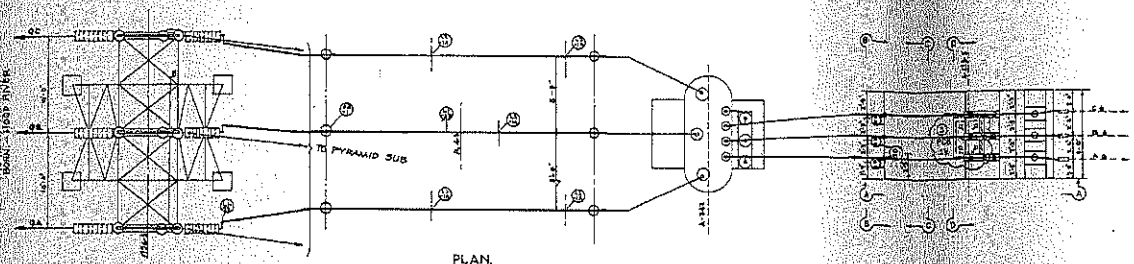
DSGN RPA
DRWN RA/JAH
CHKD TEJ/DA
REVW
DWCR

UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS, PORTLAND, OREGON

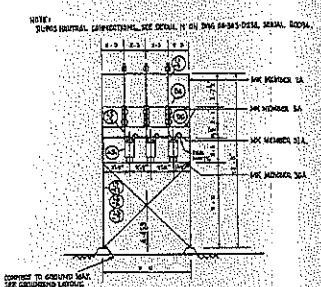
CASCADE LOCKS SUBSTATION
ONE LINE DIAGRAM

C-1

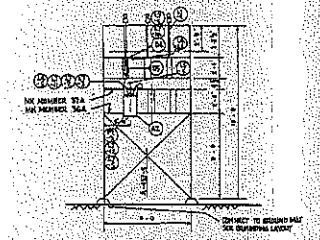
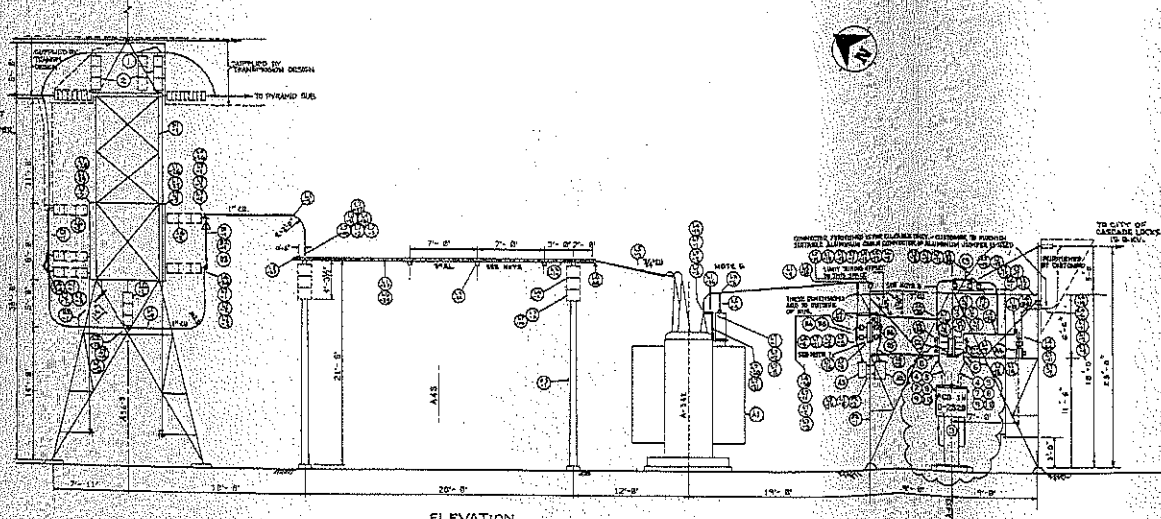
NOTES:
1. ALL [illegible] SHALL BE IN CONFORMANCE TO CONSTRUCTION STANDARD DWGS. & BASE LINES FOR DESIGN PASTE-UP DWG'S. A-154
2. CONTRACTOR TO INSTALL ALL STEEL STRUCTURES. ALL OTHER EQUIPMENT WILL BE DONE BY THE GOVERNMENT.



PLAN.



SECTION B-B



SECTION C-C