



TO EXISTING SUBSTATION
NEAR NOLANVILLE

24.9 INCOMING LINE

EXISTING UTILITY POLE
(TYP OF 3)

UTILITY METERING

24.9kV - 2.4 kV
3 PH
5 MVA
%Z = 6.91 %

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3 PH
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3 PH
5 MVA
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MAIN BUS 1
3000A
N.C.

MAIN BUS 2
3000A
N.C.

MAIN BUS 3
3000A
N.C.

EXISTING MAIN SWITCHGEAR

BUS 1 - 2400V, 3000A, 3 PH

BUS 2 - 2400V, 3000A, 3 PH

BUS 3 - 2400V, 3000A, 3 PH

EXISTING SPARE CB

TIE
3000A
N.O.

EXISTING SPARE CB

EXISTING
UNDERGROUND
DUCTBANK

ZIG-ZAG
GROUNDING
TRANSFORMER
RESISTOR

ZIG-ZAG
GROUNDING
TRANSFORMER
RESISTOR

ZIG-ZAG
GROUNDING
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EXISTING
UNDERGROUND
DUCTBANK

2400kVAR POWER
FACTOR CORRECTION
CAPACITOR

2.4 kV - 480/277 V
3 PH, 4W
1000 kVA

PLANT 1 (1954)
2400V MCC
1000A BUS

PLANT 2 (1965)
2400V MCC
1200A BUS

HIGH SERVICE PUMP
STATION (HSPS)
2400V MCC (2009)
3000A BUS

PANEL 'MSHA'

1200A LBS - N.C.
(LOAD BREAK SWITCH)

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1200A LBS - N.C.
(LOAD BREAK SWITCH)

PLANT 3 (1977, MODIFIED IN 2009)
2400V MCC
2000A BUS