

ONE INCH AT FULL SIZE	
REVISIONS	
REV	DATE
DRAWN BY: CHECKED BY: APPROVED BY:	
WORK ORDER #:	
DESCRIPTION	

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ENDORSEMENTS	
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DRAWN: CB	9/02/2025
CHECK:	
APPROVED:	



Seattle City Light
Distribution Engineering

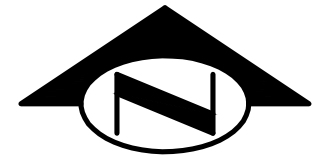
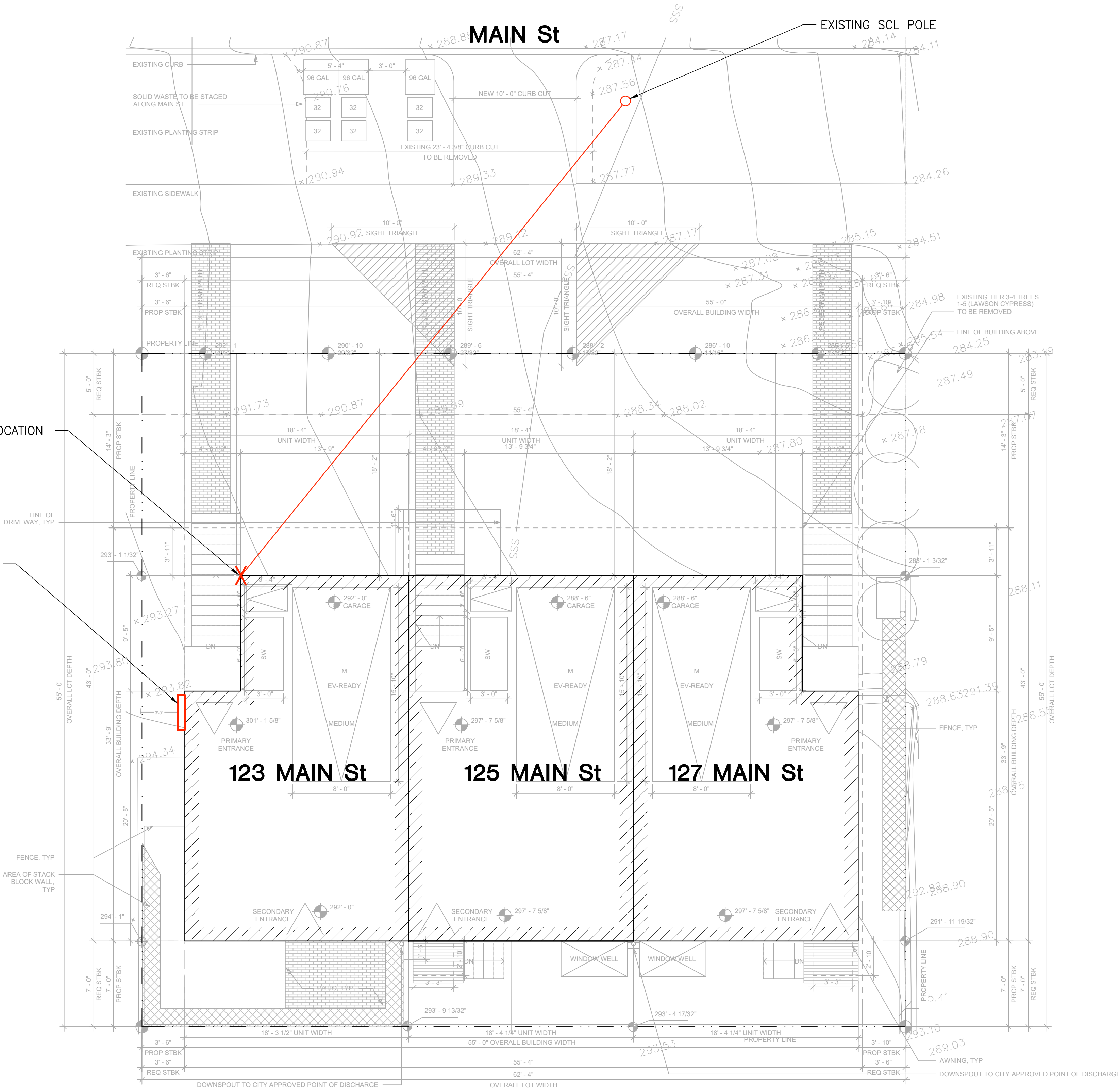
APPROVED FOR SEATTLE CITY LIGHT

PROJECT ENGINEER	SHEET CONTENTS
QUARTERSECTION NUMBER(S)	SECTION / TOWNSHIP / RANGE

PROJECT TYPE	SITE PLAN
PROJECT NAME	TOWNHOUSES
PROJECT ADDRESS	
SHEET 1 of 1	
WORK ORDER NO.-TASK	
CITY	
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	0

300 A, 240V/1P
METER STACK LOCATION

WEATHERHEAD LOCATION

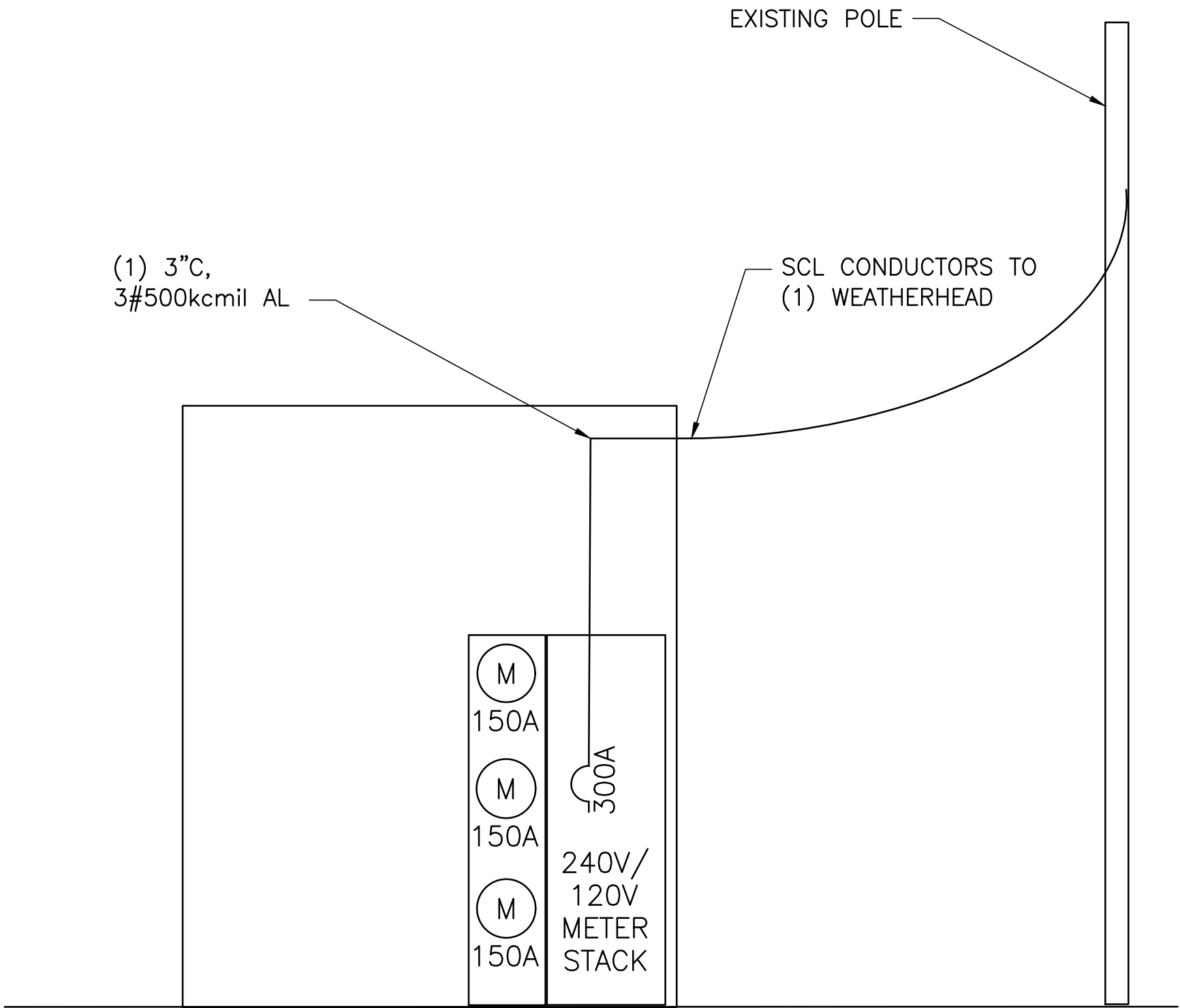


2' 1' 0' 1' 2'
SCALE: 3/16"=1'-0"

LEGEND
SITE PLAN
○ **TP46** TERMINAL POLE
□ **V123** VAULT
⊠ **V123** VAULT UNKNOWN SIZE
[CONDUIT STUB
[BUILDING OUTLINES
— PAVEMENT EDGE
- - - PARCEL LINES
— CONDUIT
— INDICATES CHANGE TO CONDUIT
— DIRECT BURIED CABLE
- - - EASEMENTS
- - - QUARTER SECTION BOUNDARY
DUCT SIZE: 6-4"
DUCT QUANTITY: 6-4"
TOP OF DUCT BANK
DIRECT BURIED DUCT BANK FLAG
"X" INDICATES SCL OCCUPIED BUT UNSPECIFIED USE
CONCRETE ENCASED
CONDUIT END

PRIMARY DIAGRAM
26C234 3-PHASE FEEDER CABLE
W1 SINGLE PHASE CONDUCTOR
VAULT ENCLOSURE
FACILITY TYPE & NUMBER
TP15 038NE 3-65K 3-B LIM 3 PHASE TERMINAL POLE WITH CUTOUPS
QUARTER SECTION NUMBER
FUSE QUANTITY, SIZE & TYPE
LIMITER QUANTITY & TYPE
SUBLIMITER
CONDUCTOR END
STRAIGHT SPLICE
FUSE
TERMINATOR
SWITCH
MOV LIGHTNING ARRESTER
GAP LIGHTNING ARRESTER
T CONNECTOR
1-PHASE TRANSFORMER
1-PHASE TWO-BUSHING TRANSFORMER
3-PHASE Y SINGLE TRANSFORMER
3-PHASE DELTA SINGLE TRANSFORMER
3-PHASE Y TRANSFORMER BANK
OPEN-DELTA TRANSFORMER BANK
3 POSITION J-BOX DEAD BREAK
INOPERABLE LOAD BREAK
OPERABLE LOAD BREAK
UG FAULT INDICATOR
OH STROBE FAULT INDICATOR
UG CABLE ON PARKING STAND

VAULT DETAILS
SUBMERSIBLE TRANSFORMER
3Ø CS123 kVA
XFMR PHASE
XFMR TYPE & NUMBER
kVA RATING
SUBMERSIBLE TRANSFORMER
W1 SY1234 XFMR PHASE
XFMR TYPE & NUMBER
kVA RATING
SOLID LINE REPRESENTS TRANSFORMER FOOTPRINT
DASHED LINE REPRESENTS OCCUPIED SPACE



RISER DIAGRAM
NOT TO SCALE

LEGEND

SITE PLAN

TP46

Terminal Pole

V123

Vault

V123

Vault Unknown Size

[

Conduit Stub

—

Building Outlines

—

Pavement Edge

—

Parcel Lines

—

Conduit Indicates Change to Conduit

—

Direct Buried Cable

—

Easements

—

Quarter Section Boundary

DUCT SIZE
DUCT QUANTITY

6-4"

TOP OF DUCT BANK

DIRECT BURIED

DUCT BANK FLAG

"X" INDICATES SCL OCCUPIED BUT UNSPECIFIED USE

PAD123

PAD

H123

Handhole

QSEC

QSEC Corners

|

Conduit End

PRIMARY DIAGRAM

26C234

3-Phase Feeder Cable

W1

Single Phase Conductor

—

Vault Enclosure

TP15

0.38NE

3-65K

3-B LIM

Facility Type & Number

3-Phase Terminal Pole with Cutouts

Quarter Section Number

Fuse Quantity, Size & Type

Quarter Section Number

Fuse Quantity, Size & Type

Sublimiter

Conductor End

Straight Splice

1-Phase Transformer

3-Phase Y Single Transformer

3-Phase Delta Single Transformer

1-Phase Two-Bushing Transformer

Open-Delta Transformer Bank

3-Position J-Box Dead Break

3-Position J-Box Load Break

IOB

Operable Load Break

UG Fault Indicator

OH Strobe Fault Indicator

UG Cable on Parking Stand

Submersible Transformer

XFMR Phase

XFMR Type & Number

kVA Rating

Solid Line Represents Transformer Footprint

Dashed Line Represents Occupied Space

PRELIMINARY LOAD CALCULATIONS																						
	UNIT NAME	UNIT SQUARE FOOTAGE	220.82(B)(1) 3W/SF GENERAL	210.11(C)(1) SMALL-APPLIANCE CIRCUITS	210.11(C)(2) LAUNDRY CIRCUIT	RANGE	WATER HEATER	DW	GD	MW/HOOD COMBO	DRYER	FUTURE EV CHARGING	SUBTOTAL GENERAL LOAD (W)	FIRST 10kVA AT 100% (W)	REMAINING GENERAL LOAD AT 40%	220.82(B) NET GENERAL LOAD (W)	AIR HANDLING UNIT N/A	MINI-SPLIT LOAD	220.82 DEMAND LOAD TOTAL (kW)	Amps @ 240V	PANEL SIZE	METER STACK AND SERVICE SIZE CALCULATIONS
1	TOWNHOUSE 1	1536	4608	3000	1500	11000	5000	1200	890	1500	5000	9600	43298	10000	13319.2	23319.2	0	7680	31.0	129.2	150	
2	TOWNHOUSE 2	1536	4608	3000	1500	11000	5000	1200	890	1500	5000	9600	43298	10000	13319.2	23319.2	0	7680	31.0	129.2	150	
3	TOWNHOUSE 3	1536	4608	3000	1500	11000	5000	1200	890	1500	5000	9600	43298	10000	13319.2	23319.2	0	7680	31.0	129.2	150	
TOTAL 3													129894	W CALCULATED APPLIANCES + 3W/SF				23040	W CALCULATED HTG			TOTAL METER STACK SERVICE 3 TOTAL UNITS 152.9 TOTAL kW BEFORE DEMAND 45% NEC 220.84 DEMAND FACTOR 68.8 kW DIVERSIFIED 286.75 Amps @ 240V/1 PHASE 300 Amps SERVICE @ 240V

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PROJECT ENGINEER SHEET CONTENTS

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PROJECT TYPE

RISER DIAGRAM AND LOAD CALCULATIONS

PROJECT NAME

TOWNHOUSES

PROJECT ADDRESS

SHEET

1 of 1

WORK ORDER NO.-TASK

CITY

DRAWING NO. REV. NO.

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