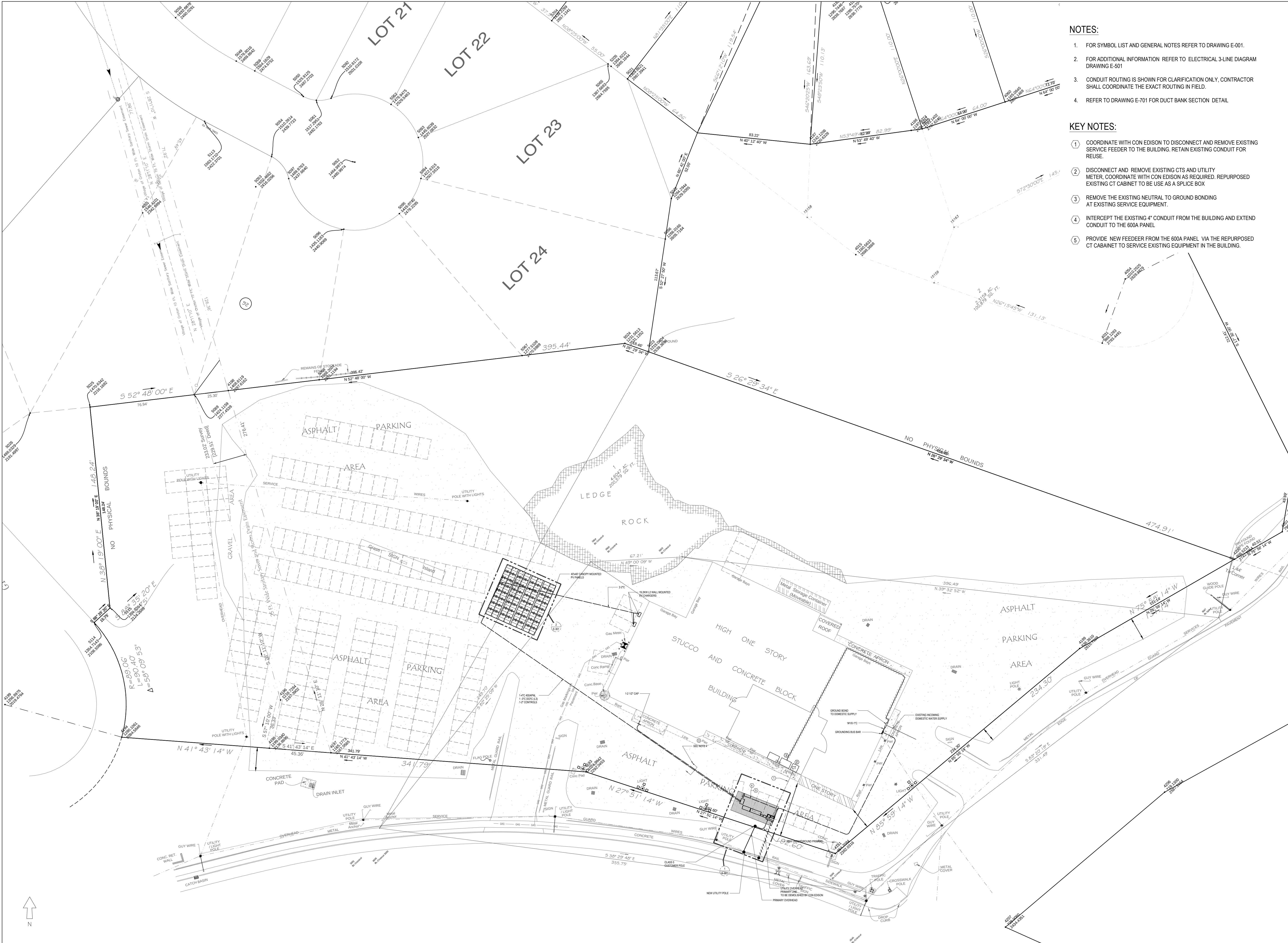




NOTES:

1. FOR SYMBOL LIST AND GENERAL NOTES REFER TO DRAWING E-001.
2. FOR ADDITIONAL INFORMATION REFER TO ELECTRICAL 3-LINE DIAGRAM DRAWING E-501
3. CONDUIT ROUTING IS SHOWN FOR CLARIFICATION ONLY. CONTRACTOR SHALL COORDINATE THE EXACT ROUTING IN FIELD.
4. REFER TO DRAWING E-701 FOR DUCT BANK SECTION DETAIL

KEY NOTES:

1. COORDINATE WITH CON EDISON TO DISCONNECT AND REMOVE EXISTING SERVICE FEEDER TO THE BUILDING. RETAIN EXISTING CONDUIT FOR REUSE.
2. DISCONNECT AND REMOVE EXISTING CTS AND UTILITY METER. COORDINATE WITH CON EDISON AS REQUIRED. REPURPOSED EXISTING CT CABINET TO BE USED AS A SPLICE BOX
3. REMOVE THE EXISTING NEUTRAL TO GROUND BONDING AT EXISTING SERVICE EQUIPMENT.
4. INTERCEPT THE EXISTING 4" CONDUIT FROM THE BUILDING AND EXTEND CONDUIT TO THE 600A PANEL
5. PROVIDE NEW FEEDER FROM THE 600A PANEL VIA THE REPURPOSED CT CABINET TO SERVICE EXISTING EQUIPMENT IN THE BUILDING.

PROJECT NAME

**CROTON AUTO MALL
SOLAR PLUS BATTERY STORAGE**

1 MUNICIPAL PL. CROTON ON HUDSON, NY 10520
UTILITY ACCOUNT NO: 58890203710000
UTILITY METER NO: 009963133

CLIENT PROJECT No. CLIENT PROJECT No.

KEY PLAN:

REV.#	DATE	ISSUE DESCRIPTION
-	04/25/2024	CROTON ON HUDSON APPLICATION
-	04/04/2024	ISSUED FOR PRICING & COORDINATION

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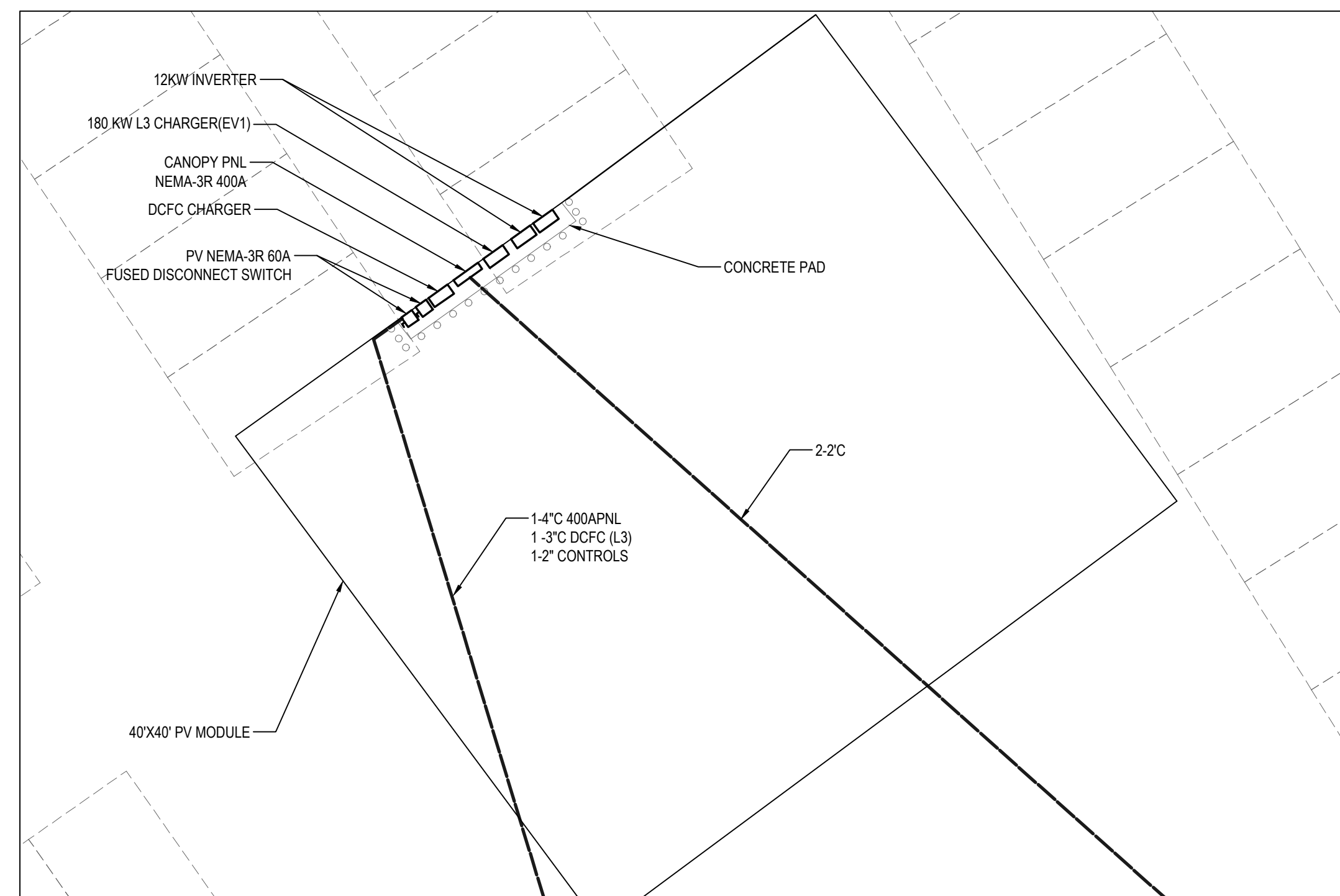
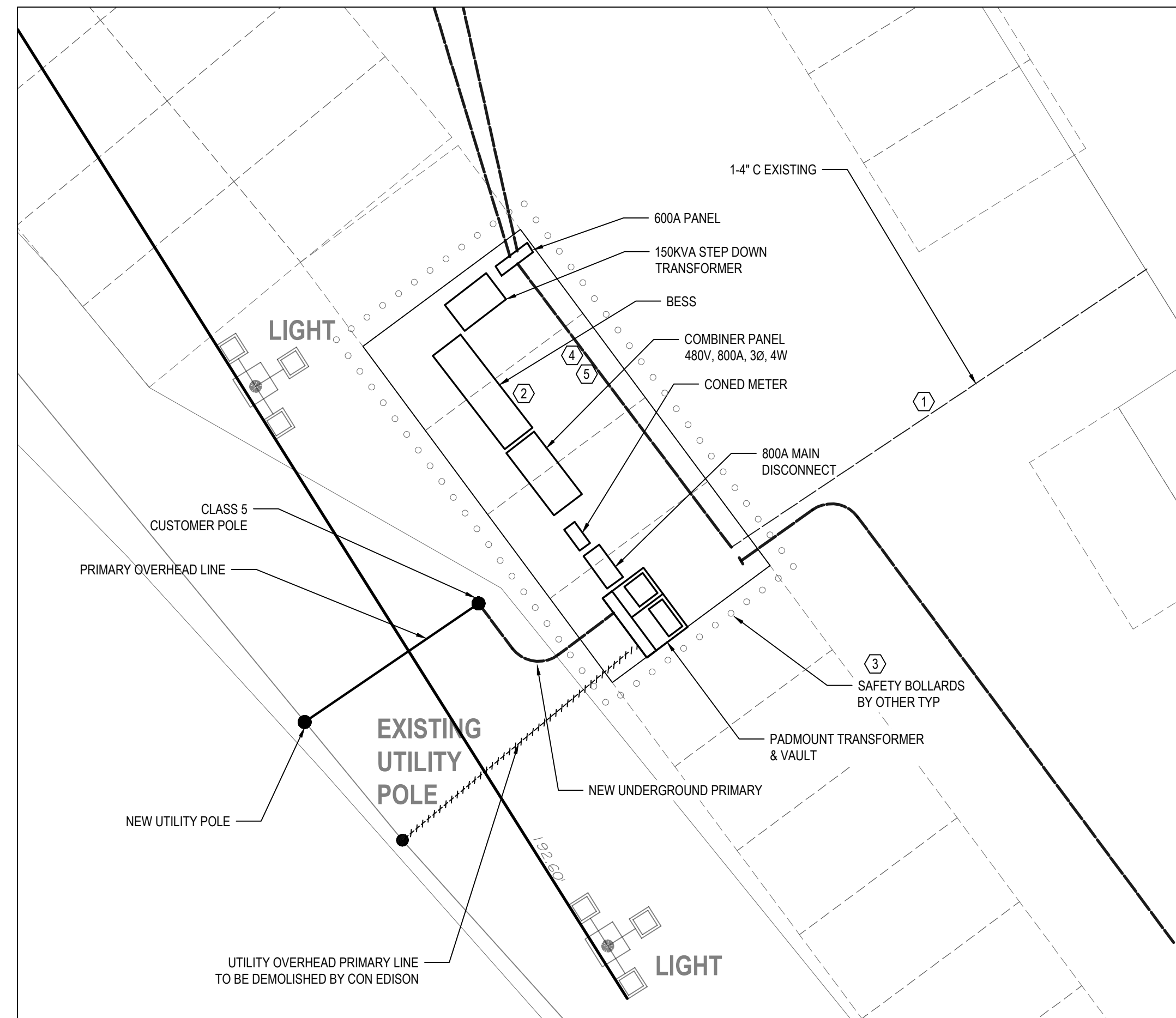
DRAWING TITLE:
ELECTRICAL SITE PLAN

GRAPHIC SCALE:
0 8 16 32 FEET

SEAL:	DRAWN: WCP	CHECKED: PC
	APPROVED:	
	LORING JOB No.:	
	DATE:	
	SHEET NUMBER:	

E-002

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.



NOTES:

1. FOR SYMBOL LIST AND GENERAL NOTES REFER TO DRAWING E-001.
2. FOR ADDITIONAL INFORMATION REFER TO ELECTRICAL 3-LINE DIAGRAM DRAWING E-501
3. CONTRACTOR SHALL PROVIDE STAINLESS C CHANNEL MOUNTING RACKS FOR THE FOR THE INSTALLATION OF THE DISCONNECT SWITCHES, METER CABINET, PANELS ETC.

KEY NOTES:

- ① CONTRACTOR WITH CON EDITION TO DISCONNECT AND REMOVE EXISTING SERVICE FEEDER TO THE BUILDING. RETAIN EXISTING CONDUIT FOR REUSE.
- ② PROVIDE APPROVED SIGNAGE AS PER APPLICABLE CODES AND STANDARD. SIGNAGE SHALL READ AS FOLLOWS:
 - ESS TYPE: BATTERY STORAGE SYSTEM
 - LITHIUM ION PHOSPHATE; CAPACITY 280KWH
 - ENERGIZED ELECTRICAL CIRCUITS: MAIN COMBINER SWITCHBOARD.
 - DO NOT APPLY WATER
 - FIRE MITIGATION PERSONNEL TEL #: XXX-XXX-XXXX
- ③ CONTRACTOR SHALL PROVIDE ENGINEERED SAFETY BOLLARDS FOR THE ELECTRICAL EQUIPMENT PROTECTION. SIZE AND SPACE BOLLARDS PER APPLICABLE CODE.
- ④ INTERCEPT THE EXISTING 4" CONDUIT FROM THE BUILDING AND EXTEND CONDUIT TO THE 600A PANEL
- ⑤ PROVIDE NEW FEEDER FROM THE 600A PANEL VIA THE RE-PURPOSED CT CABINET TO SERVICE EXISTING EQUIPMENT IN THE BUILDING.

PROJECT NAME

CROTON AUTO MALL
PLUS BATTERY STORAGE

1 MUNICIPAL PL. CROTON ON HUDSON, NY 10520

CLIENT PROJECT No.	CLIENT PROJECT No.
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-	04/25/2024	CROTON ON HUDSON APPLICATION
-	04/04/2024	ISSUED FOR PRICING & COORDINATION
REV.#	DATE	ISSUE DESCRIPTION

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DRAWING TITLE:

GRAPHIC SCALE:

0 8 16 32 FEET

A horizontal scale bar with four segments. The first segment is labeled '0', the second '8', the third '16', and the fourth '32 FEET'. The segments are black and white alternating, with the first segment being black.

RAWN:	CHECKED:
WCP	PC

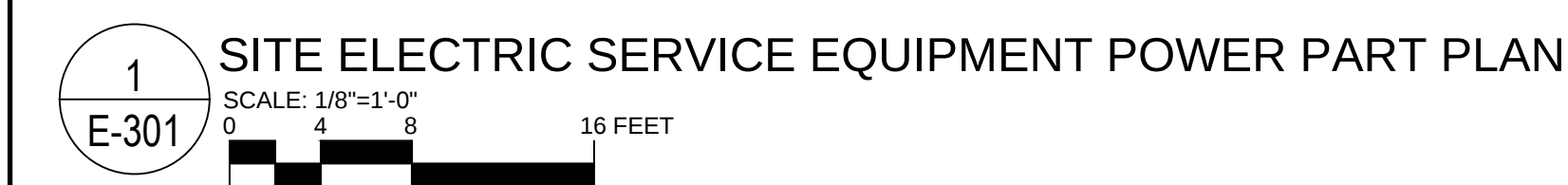
APPROVED:

DRING JOB No.:

DATE: _____

SHEET NUMBER:

E-401



EQUIPMENT	DIMENSIONS W, D, H	PHOTO #
800A COMBINER PANEL	93.5" x 88.5" x 49.21"	#6
150KVA TRANSFORMER	44.5" x 31.5" x 29.5"	#1
BATTERY STORAGE SYSTEM	92.13" x 51.18" x 51.18"	#2
800A SERVICE SWITCH	48" x 36.62" x 17.75 "	#5
800A METERING CABINET	48" x 24" x 10"	#4
600A PANEL	36" x 30" x 90"	#7
UTILITY TRANSFORMER	71" x 63" x 61"	#3

2 ELECTRIC SERVICE EQUIPMENT
E-301

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PROJECT NAME

CROTON AUTO MALL
SOLAR PLUS BATTERY STORAGE

1 MUNICIPAL PL. CROTON ON HUDSON, NY 10520

UTILITY ACCOUNT NO: 58890203710000
UTILITY METER NO: 009983133

CLIENT PROJECT No. CLIENT PROJECT No.

KEY PLAN:

-	04/25/2024	CROTON ON HUDSON APPLICATION
-	04/04/2024	ISSUED FOR PRICING & COORDINATION
REV.#	DATE	ISSUE DESCRIPTION

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DRAWING TITLE:

SITE ELECTRICAL SERVICE POWER PART PLAN

GRAPHIC SCALE:

SEAL:

DRAWN:	CHECKED:
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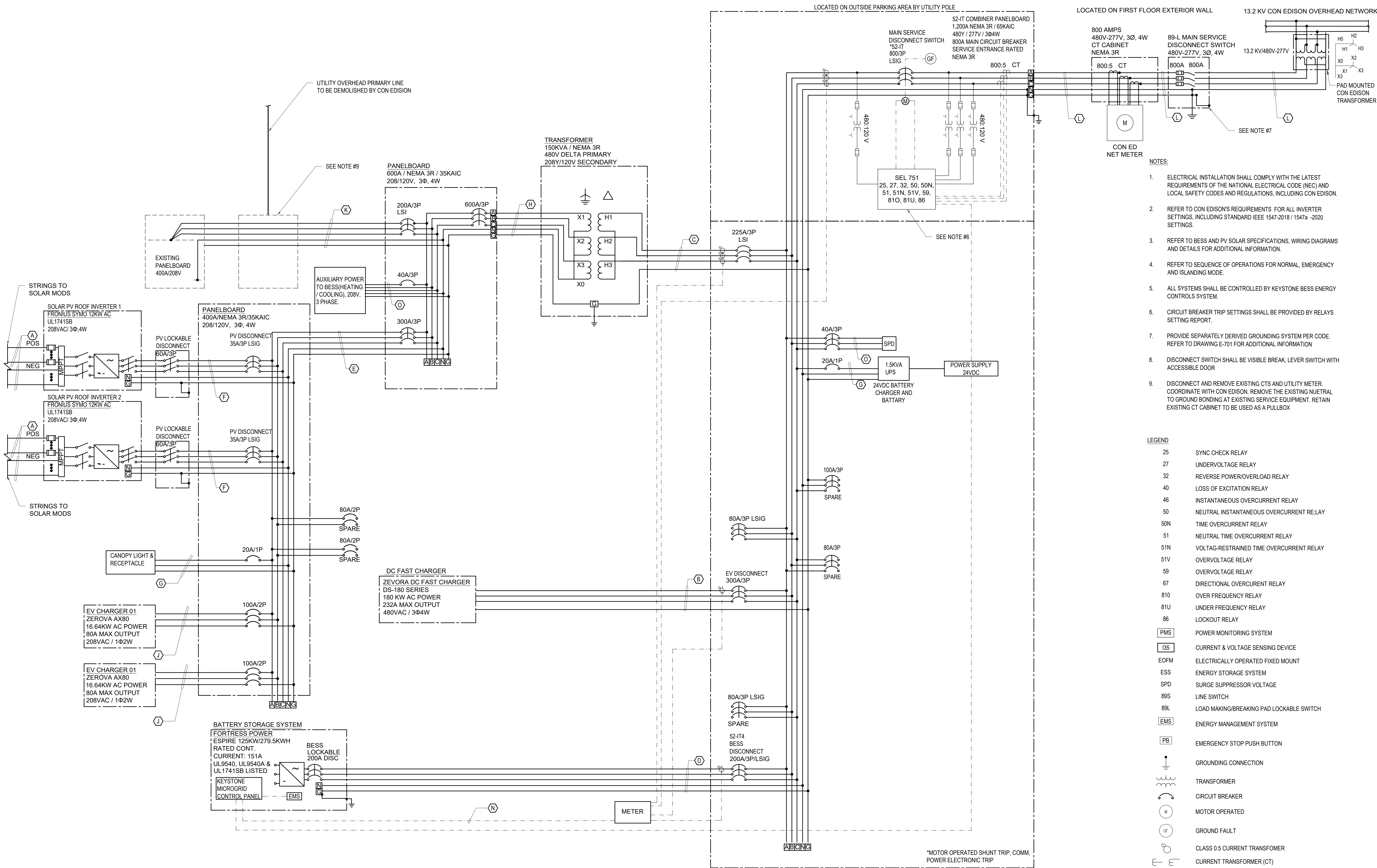
APPROVED:

LORING JOB No.:

DATE: _____

SHEET NUMBER:

E-402



INVERTER SETTINGS				
SETTINGS		PICKUP		TIME (S)
27-1	80%	0.8 pu	V L-L	3.0
27-2	50%	0.5 pu	V L-L	1.1
59-1	110%	1.1 pu	V L-L	2.0
59-2	120%	1.2 pu	V L-L	2.0
81-01		61.0 Hz		300
81-02		62.0 Hz		0.16
81-U1		58.5 Hz		300
81-U2		56.5 Hz		0.16
INVERTER VOLTAGE: 600V L-L				
UTILITY INTERACTIVE INVERTER FUNCTION STATUS				
FUNCTION	DEFAULT			
POWER FACTOR	1.0			
VOLT-VAR	OFF			
SOFT START RAMP RATE	2% MAX CURRENT OUTPUT PER SEC			
FREQ-WATT FUNCTION	ON			
	OFF			

CABLE SCHEDULE						
CALLOUT ID	WIRE SIZE	PARALLEL RUNS 1 PER STRING	PHASE SIZE	NEUTRAL SIZE	GROUND SIZE & TYPE	INSULATION
A	2Φ PER STRING, G		#10 AWG CU	-	#6 AWG CU EGC	2KV PWWIRE
B	3Φ, N, G	1	#350 KCMIL CU	#350 KCMIL CU	#2 AWG CU EGC	600V THWN2
C	3Φ, G	1	#4/0 AWG CU	-	#6 AWG CU EGC	600V THWN2
D	3Φ, N, G	1	#3/0 AWG CU	#3/0 AWG CU	#6 AWG CU EGC	600V THWN2
E	3Φ, N, G	1	#500 AWG CU	#500 AWG CU	#2/0 AWG CU EA	600V THWN2
F	3Φ, N, G	1	#8 AWG CU	#8 AWG CU	#12 AWG CU SSB	600V THWN2
G	1Φ, N, G	1	#12 AWG CU	#12 AWG CU	#12 AWG CU EGC	600V THWN2
H	3Φ, N, G	2	#350 KCMIL CU	#350 KCMIL CU	#2 AWG CU SSB	600V THWN2
J	2Φ, N, G	1	#2 AWG CU	#2 AWG CU	#8 AWG CU EGC	600V THWN2
K	3Φ, N, G	1	#3/0 AWG CU	#3/0 AWG CU	#6 AWG CU	600V THWN2
L	3Φ, N	2	#500 KCMIL CU	#500 KCMIL CU	#1/0 AWG CU EA	600V THWN2
N	1 CABLE	1	RS485	-	-	BELDEN 3106A
O	3PH, N, G	1	#8 AWG CU	#10 AWG	#10AWG	600V THWN2

NOT FOR CONSTRUCTION

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PROJECT NAME

CROTON AUTO MALL
SOLAR PLUS BATTERY STORAGE

1 MUNICIPAL PL. CROTON ON HUDSON, NY 10520
UTILITY ACCOUNT NO: 58890203710000
UTILITY METER NO: 009983133

CLIENT PROJECT No. CLIENT PROJECT No.

KEY PLAN:

-	04/25/2024	CROTON ON HUDSON APPLICATION
-	04/04/2024	ISSUED FOR PRICING & COORDINATION

REV.#	DATE	ISSUE DESCRIPTION
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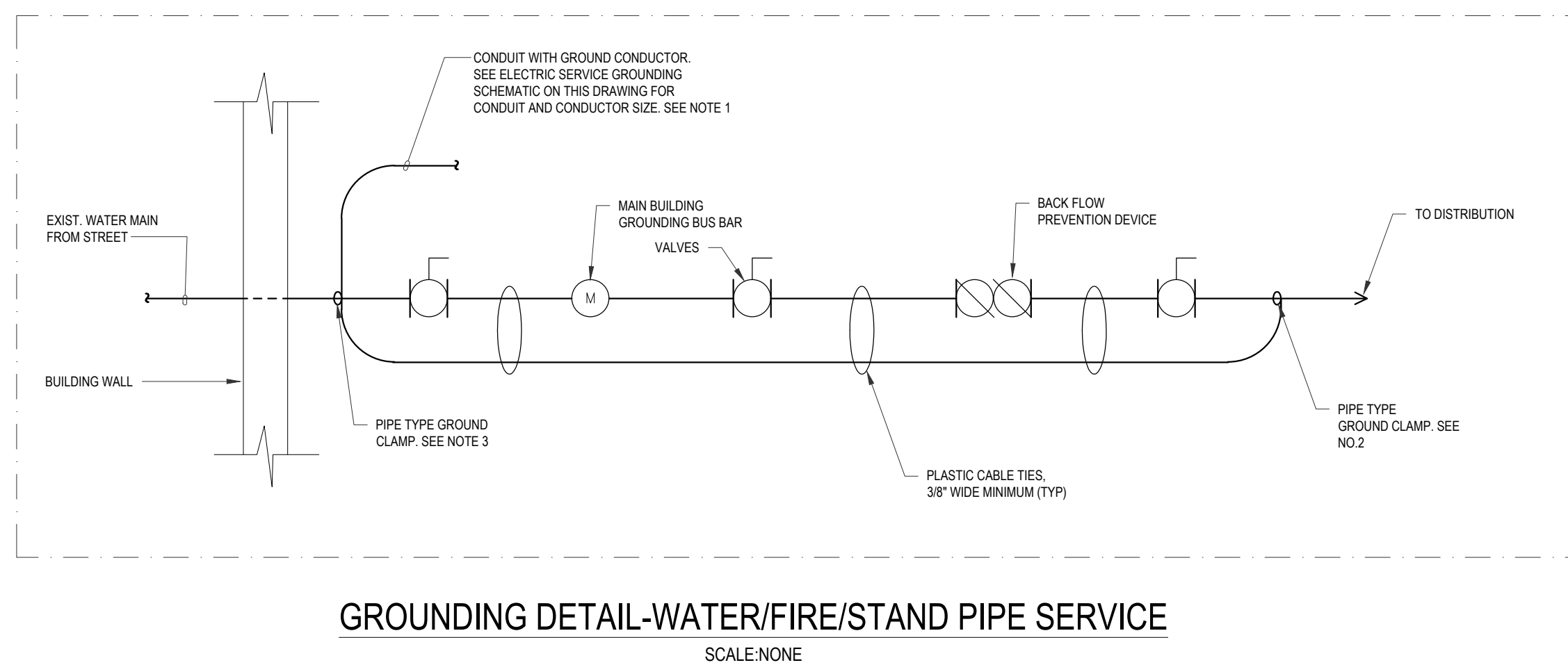
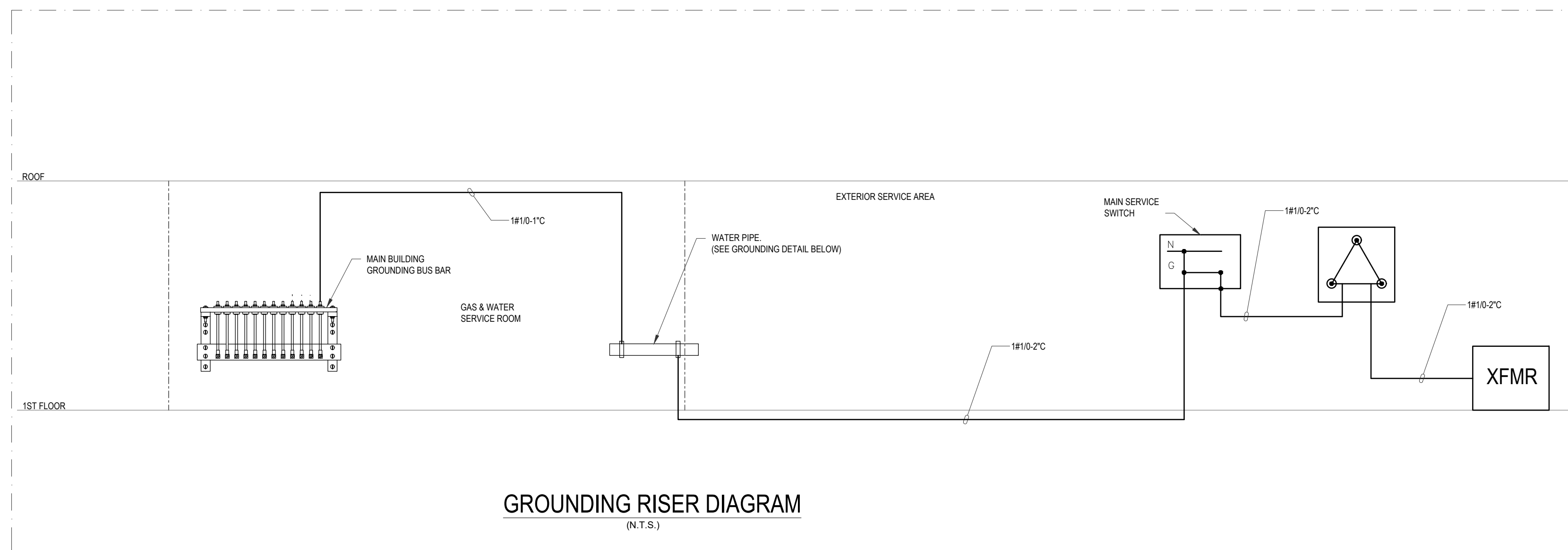
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DRAWING TITLE:
ELECTRICAL THREE LINE DIAGRAM

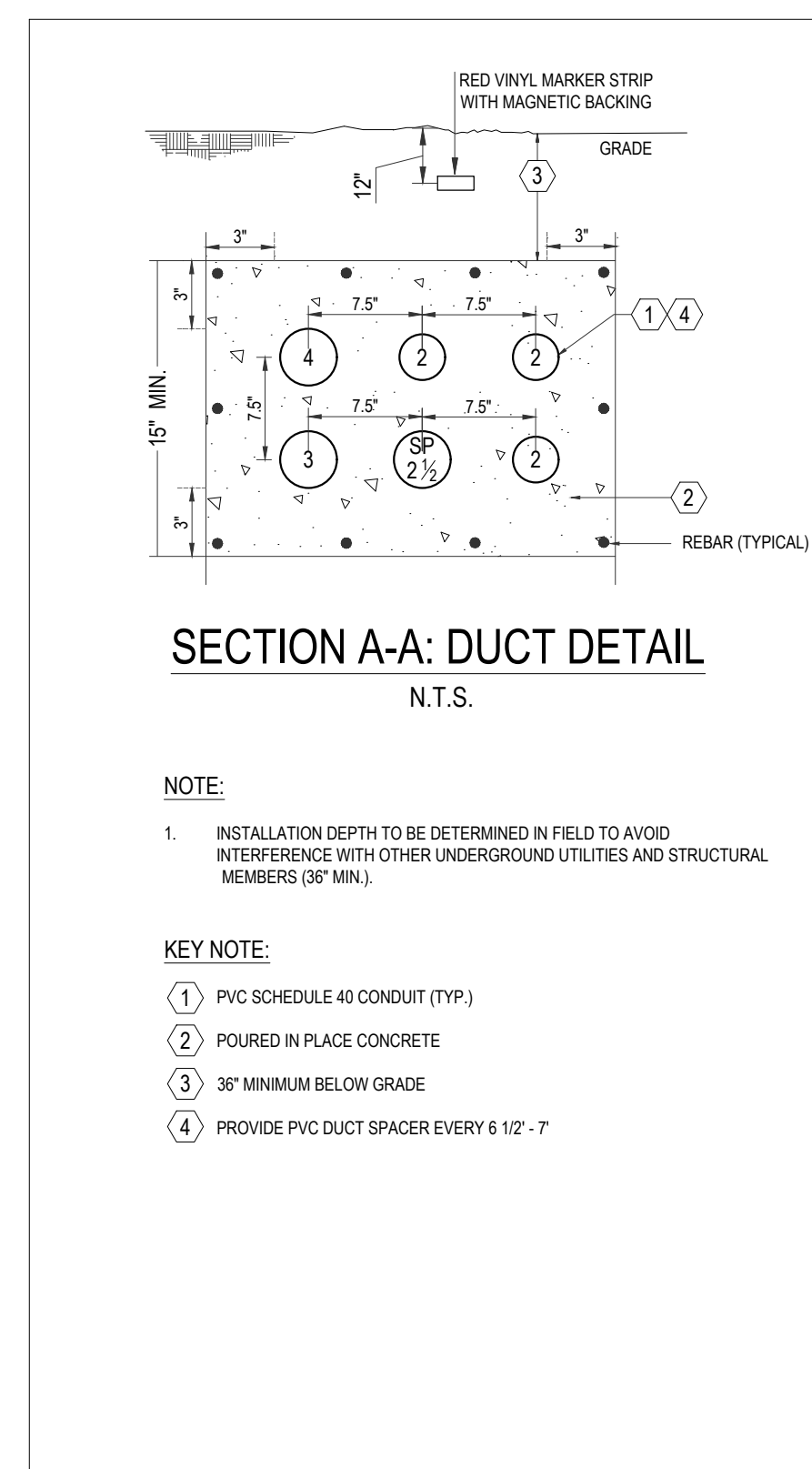
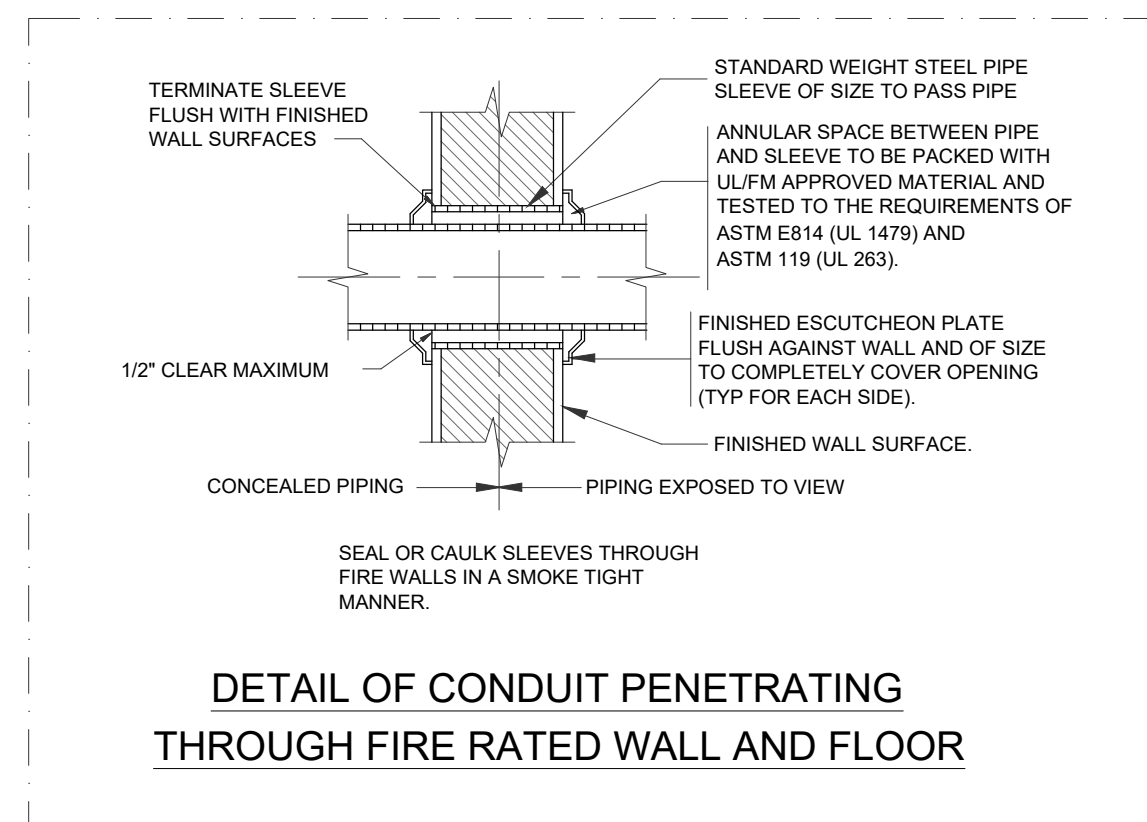
GRAPHIC SCALE: NTS

SEAL:	DRAWN: WCP	CHECKED: PC
	APPROVED:	
	LORING JOB No.:	13551
	DATE:	
	SHEET NUMBER:	

E-501



- NOTES:**
1. TERMINATE CONDUIT NEAR WATER MAIN WITH A THREE-STEP, CAST-BRONZE GROUND CLAMP, WITH A BRASS CONDUCTOR SET SCREW, CLAMP SHALL BE 0-2 INCH TYPE 3/4-8 SERIES OR APPROVED EQUAL.
 2. GROUNDING CLAMP SHALL BE UL LISTED CONSISTING OF A COPPER GROUND CONNECTOR, A U-BOLT AND A CONDUCTOR CLAMP TO SECURE THE GROUND CONDUCTOR. CLAMP SHALL BE 0-2 INCH TYPE 3/4-8 SERIES TYPE GAR SERVICES
 3. GROUND CONDUCTOR SHALL BE CONTINUOUS TO THE SECOND GROUND CLAMP ON THE OPPOSITE SIDE OF REMOVABLE EQUIPMENT, SUCH AS METERS, VALVES ETC., AS REQUIRED BY ARTICLE 250.68(B) OF NFPA 70.
 4. SECURE CABLE TO PIPE WITH 3/8" WIDE NYLON CABLE TIES. LEAVE ADEQUATE SLACK IN CABLE TO ALLOW EQUIPMENT TO BE REMOVED WITHOUT DISCONNECTING CABLE
 5. GROUNDING AT FIRE PROTECTION SERVICES SHALL BE INSTALLED IN A SIMILAR MANNER



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PROJECT NAME		
CROTON AUTO MALL SOLAR PLUS BATTERY STORAGE 1 MUNICIPAL PL. CROTON ON HUDSON, NY 10520 UTILITY ACCOUNT NO: 58890203710000 UTILITY METER NO: 009883133		
CLIENT PROJECT No. CLIENT PROJECT No.		
KEY PLAN:		
-	04/25/2024	CROTON ON HUDSON APPLICATION
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DRAWING TITLE: ELECTRICAL DETAIL SHEET		
GRAPHIC SCALE: NTS		
SEAL:	DRAWN: PC	CHECKED: WCP
	APPROVED:	
	LORING JOB No.:	13551
	DATE:	
	SHEET NUMBER:	E-701