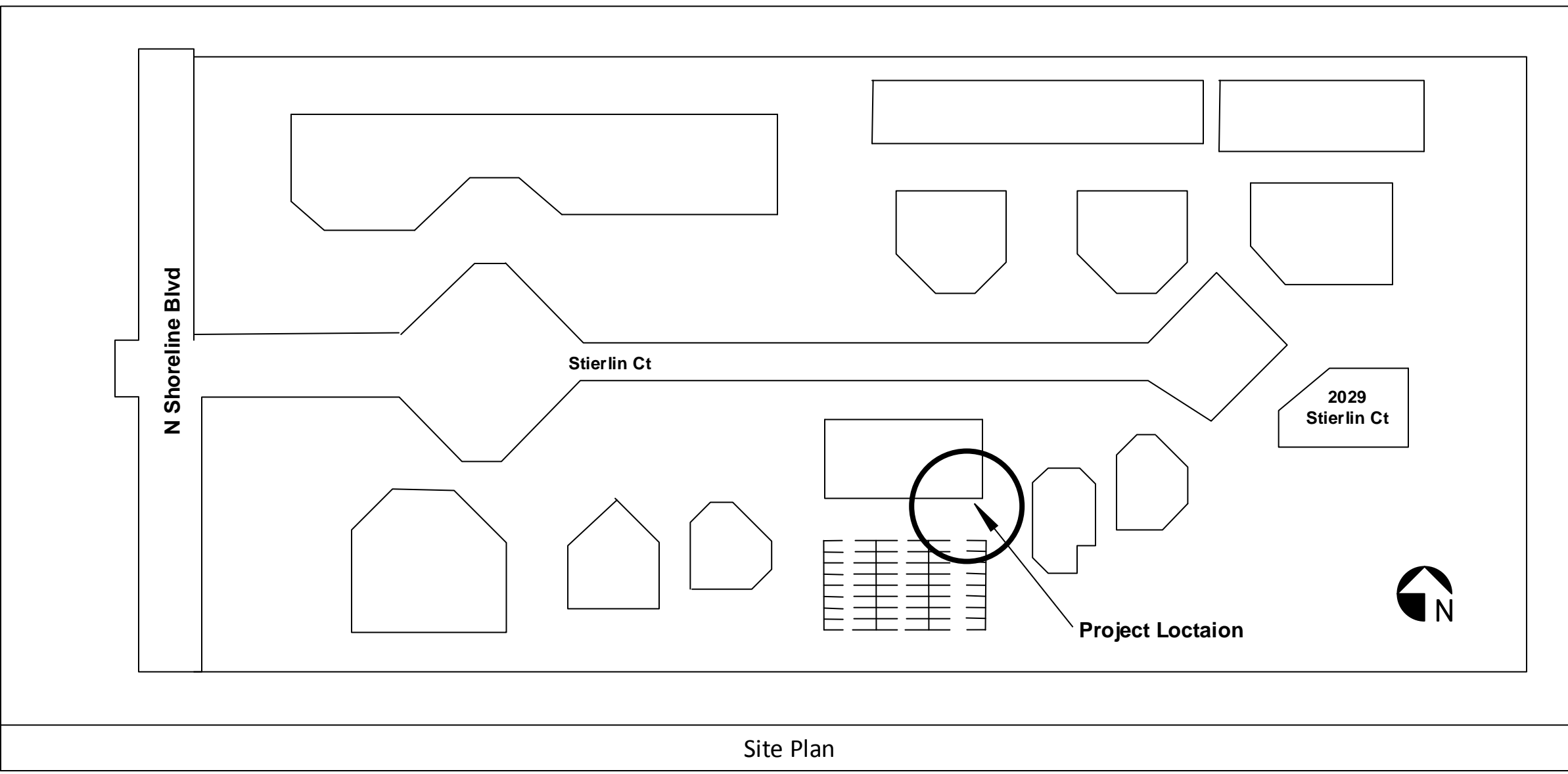
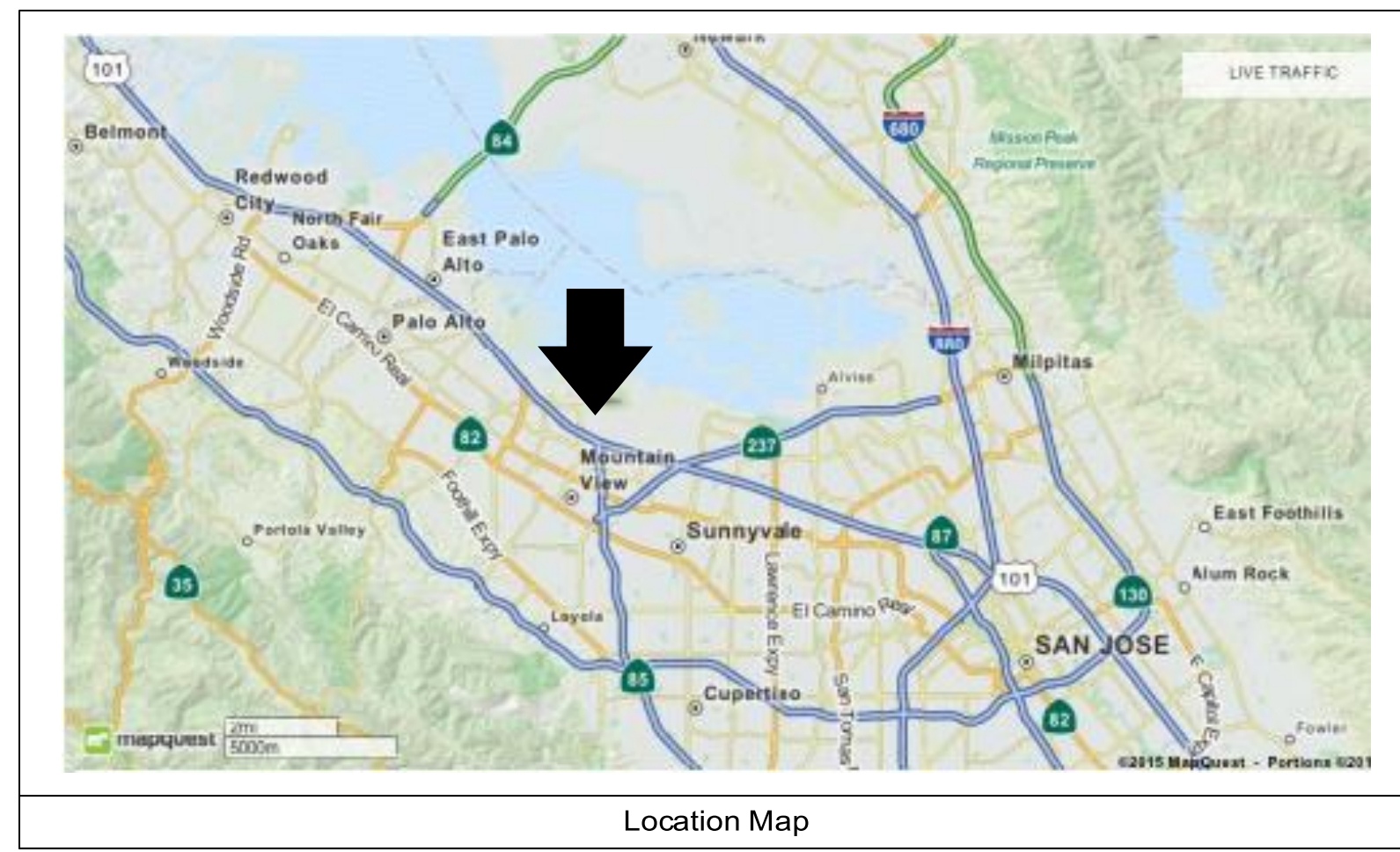


Project Name

**Mobi EV Charger Installation
at LinkedIn Corporation**
2029 Stierlin Ct
Mountain View CA 94043



General Notes

1. All work shall comply with local ordinances.
2. Requirements of the national electrical code, national electrical safety code, applicable regulations of standards of UL, ANSI, NEMA and EEL.
3. All work shall conform to construction practices as recommended by American electricians handbook by Croft and applicable instructions of manufacturers of material supplied for this project.
4. All materials, equipment, and wiring located outdoor shall be suitable for weatherproof locations.
5. Upon completion of project, contractor shall provide owner with As-built drawing.

Project Summary

Project Name: Mobi Electric Vehicle Charger Installation at LinkedIn

Site Owner: LinkedIn Corporation
2029 Stierlin Ct.
Mountain View, CA 94043

Prime Contractor: Freewire Technologies, Inc
1933 Davis St, #220
San Leandro, CA 94577

Electrical Contractor: D'Alfonso Electric
EVStructure Division
2155 S. Bascom Ave, #214
Campbell, CA 95008

Project Description

The project consists of the placement of a new 200A service panel, transformer and disconnect to operate new receptacles to charge the batteries of a mobile electric vehicle charging unit. The new service equipment shall be located in a secure area near the loading dock of the LinkedIn parking. The proposed installation shall be fed from the existing building main switch board.

Sheet Index

T-00 Title Page
E-01 Single Line / Load Schedule
E-02 Work Plan / Lay out Detail

Revisions		
REV	DESCRIPTION	DATE

Submittal		
%	DESCRIPTION	DATE
100%	Submitted for Comments	5/26/15

Plan Check: _____

Scale: _____

Project Number: _____

T-00

Panel	Existing - "MSB"	Volts		480	
Location	Main Elec Room	Phase		3	
Amps	2500	Wire		4	
kVA					
Load	Cont	Rec	Other	Total	A
Panel HX	13.0	5.0	13.5	34.8	42
Spare					
Future Chem Storage Yard panel					
Exist Elev #1			33.3	41.6	50
Exist Elev #2			33.3	41.6	50
Exist Panel HR		0.7	395.1	409.4	492
Exist DPH1	17.6	80.5	60.4	127.7	154
Exist DPH2	17.6	84.6	32.0	101.3	122
Future ATS1					
Future ATS2					
Sub Total	48.2	170.8	567.5	718.2	kVA
25% of Largest Motor				13.5	kVA
Total				731.7	kVA
880.1 Amps @ 480V					

MSB Existing Loads

Panel	Mobi P1 - Daytime	Volts	120/208			
Location	New - Loading Dock Parking Area	Phase	3			
Amps	200	Wire	4			
Voltage Amperes						
Circuit #	Load Description	Phases			Load Description	Circuit #
		A	B	C		
1	Daytime Charge	5.76			Not Used	2
3	Daytime Charge		5.76		Not Used	4
5	Daytime Charge			5.76	Not Used	6
7	Daytime Charge	5.76			Not Used	8
9	Daytime Charge		5.76		Not Used	10
11	Daytime Charge			5.76	Not Used	12
13	Daytime Charge	5.76			Not Used	14
15	Daytime Charge		5.76		Not Used	16
17	Daytime Charge			5.76	Not Used	18
19	Daytime Charge	5.76			Not Used	20
21	Daytime Charge		5.76		Not Used	22
23	Daytime Charge			5.76	Not Used	24
		23.04	23.04	23.04	Total VA per Phase	
		69.12			Total VA	
		17.28			1.25 Demand Factor	
		86.4			Total VA	
		104			Total Amps	

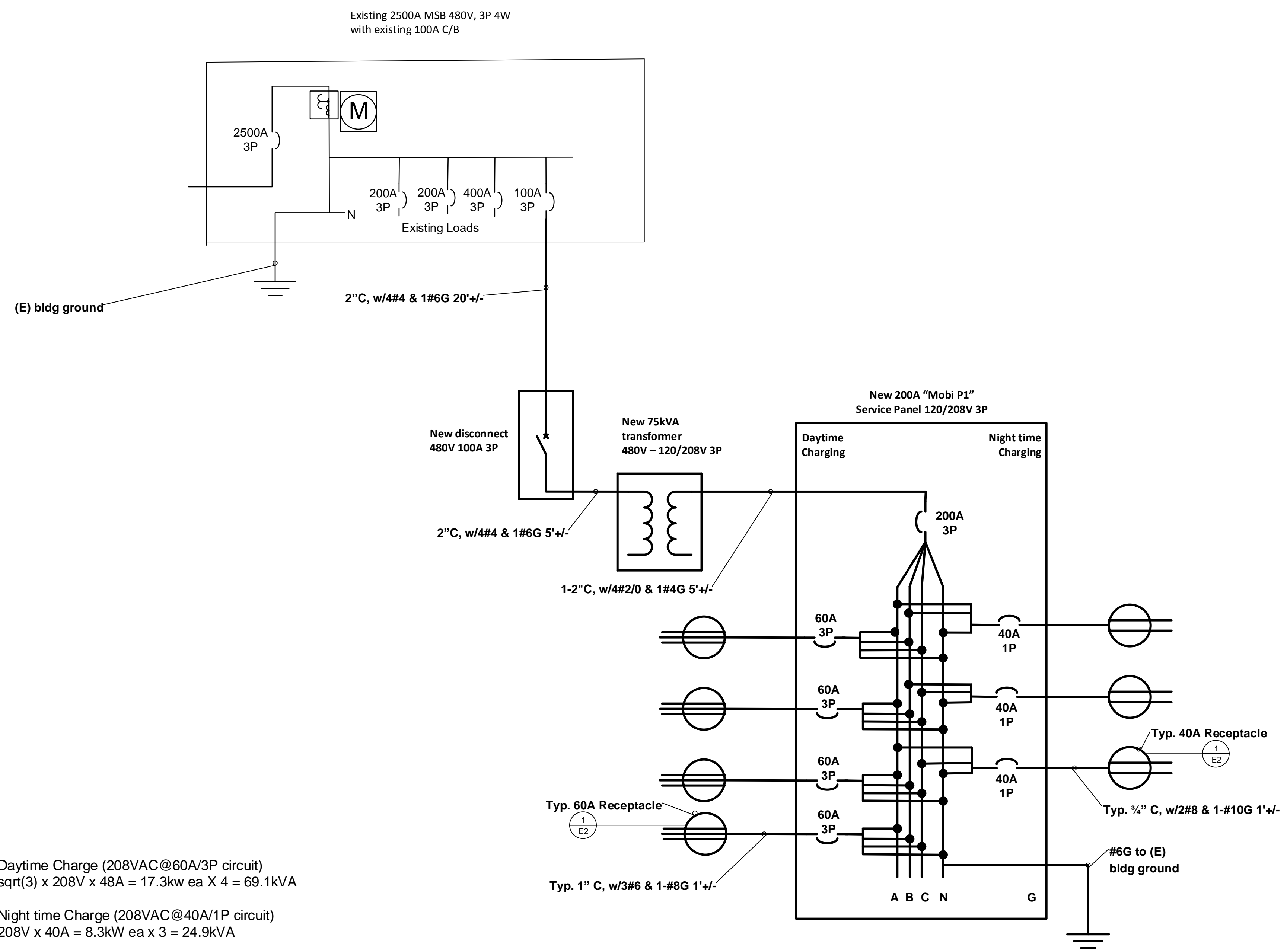
Daytime Charging Loads

Panel	Mobi P1 - Night Time	Volts	120/208			
Location	New - Loading Dock Parking Area	Phase	3			
Amps	200	Wire	4			
Voltage Amperes						
Circuit #	Load Description	Phases			Load Description	Circuit #
		A	B	C		
1	Not Used	4.15			Night Time Charge	2
3	Not Used		4.15		Night Time Charge	4
5	Not Used			4.15	Night Time Charge	6
7	Not Used	4.15			Night Time Charge	8
9	Not Used		4.15		Night Time Charge	10
11	Not Used			4.15	Night Time Charge	12
13	Not Used				Spare	14
15	Not Used				Spare	16
17	Not Used				Spare	18
19	Not Used				Spare	20
21	Not Used				Spare	22
23	Not Used				Spare	24
		8.3	8.3	8.3	Total VA per Phase	
		24.9			Total VA	
		6.22			1.25 Demand Factor	
		31.12			Total VA	
		37.4			Total Amps	

Night Time Charging Loads

Panel	Existing - "MSB"	Volts		480
Location	Main Elec Room	Phase		3
Amps	2500	Wire		4
kVA				
Load			kVA	Amps
Existing Loads			731.7	880.1
New Mobi P1			117.5	141.4
Sub Total			849.2	1021.5
Total			849.2	kVA
1021.5 Amps @ 480V				

Combined Existing and Proposed Loads




Daytime Charge (208VAC@60A/3P circuit)
 $\sqrt{3} \times 208V \times 48A = 17.3kW$ ea X 4 = 69.1kVA

Night time Charge (208VAC@40A/1P circuit)
 $208V \times 40A = 8.3kW$ ea x 3 = 24.9kVA

Note: To maintain a balanced load, only multiples of 3 208VAC 1P circuits shall be wired

Single Line Diagram

Contractor:



D'Alfonso Electric
 EVStructure Division
 3579 Foothill Blvd., #213
 Pasadena, CA 91107
 866 647-5638

Project Name

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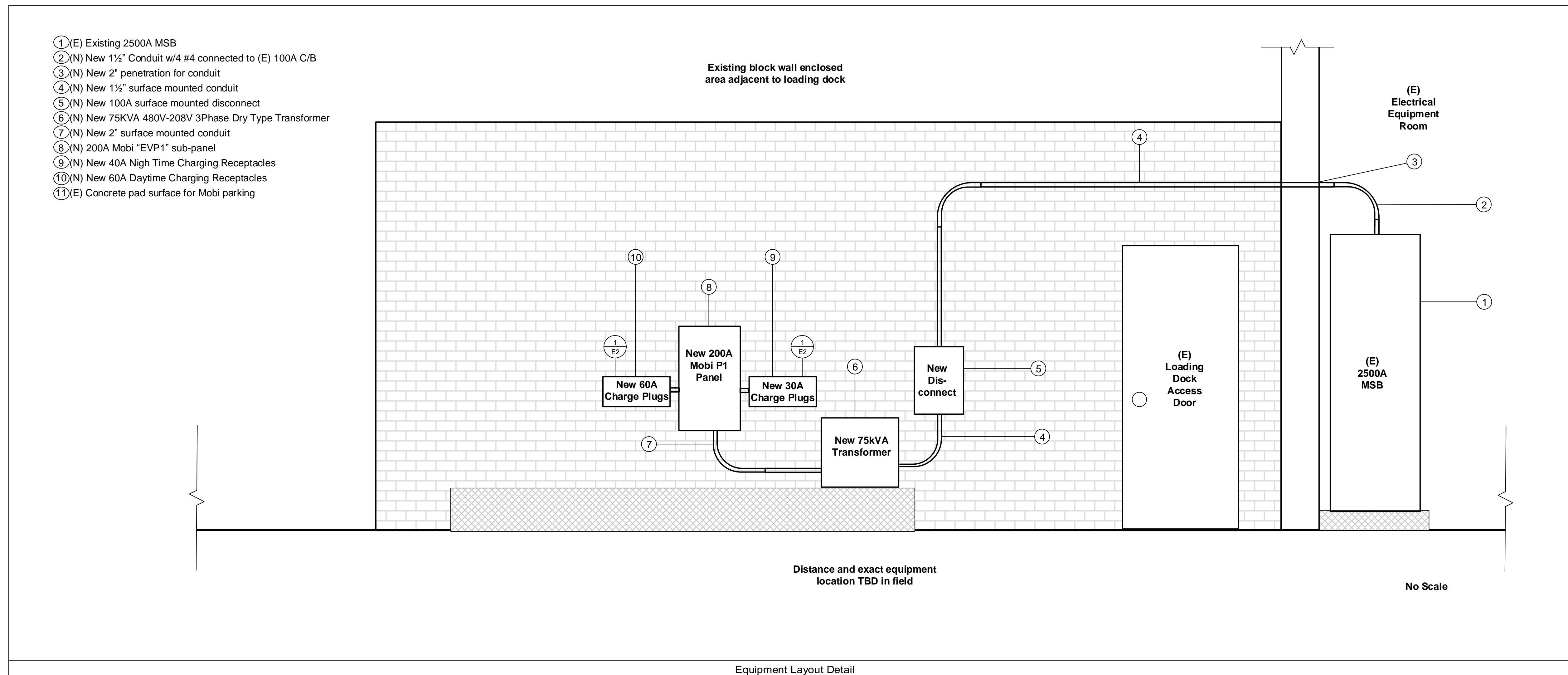
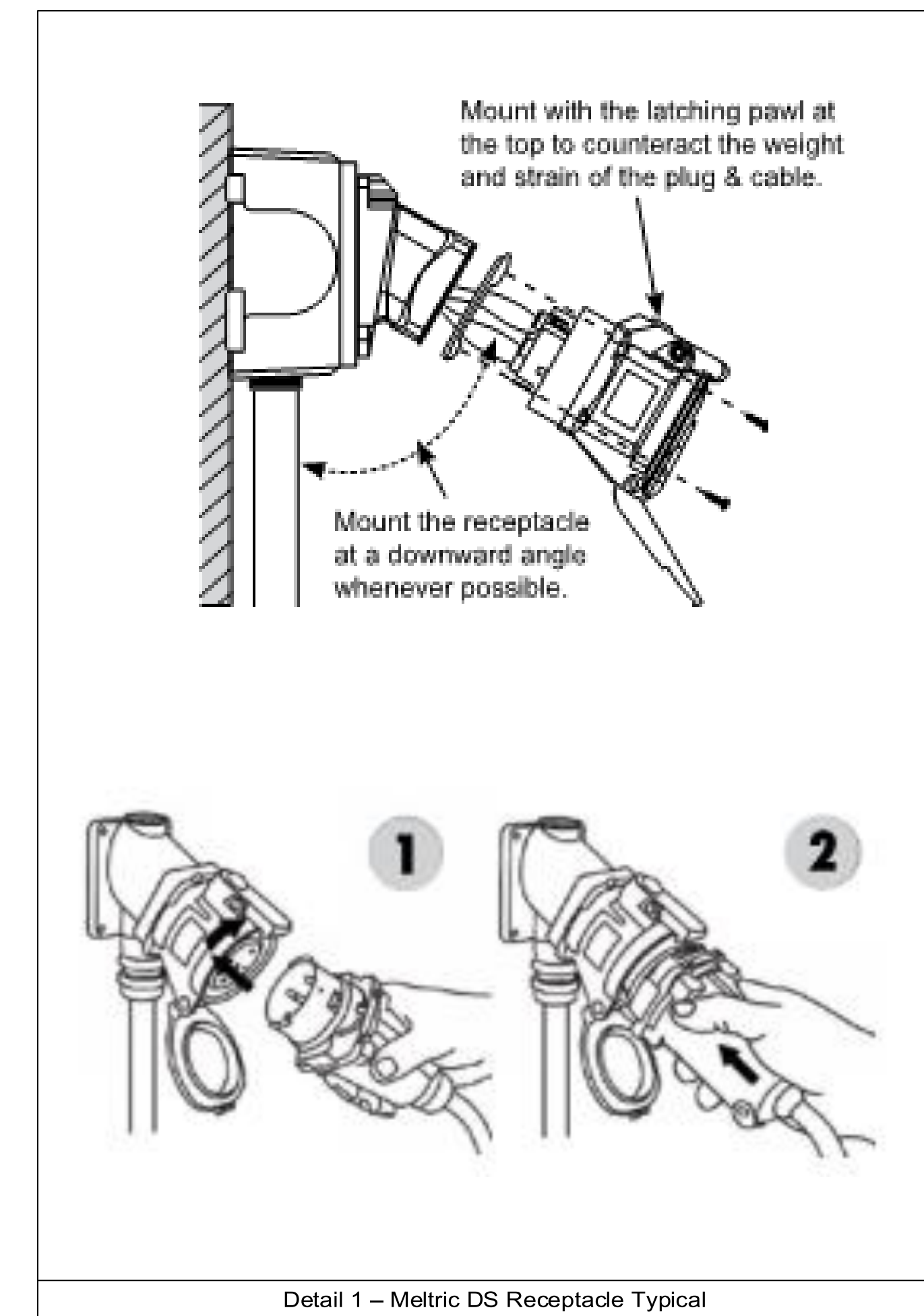
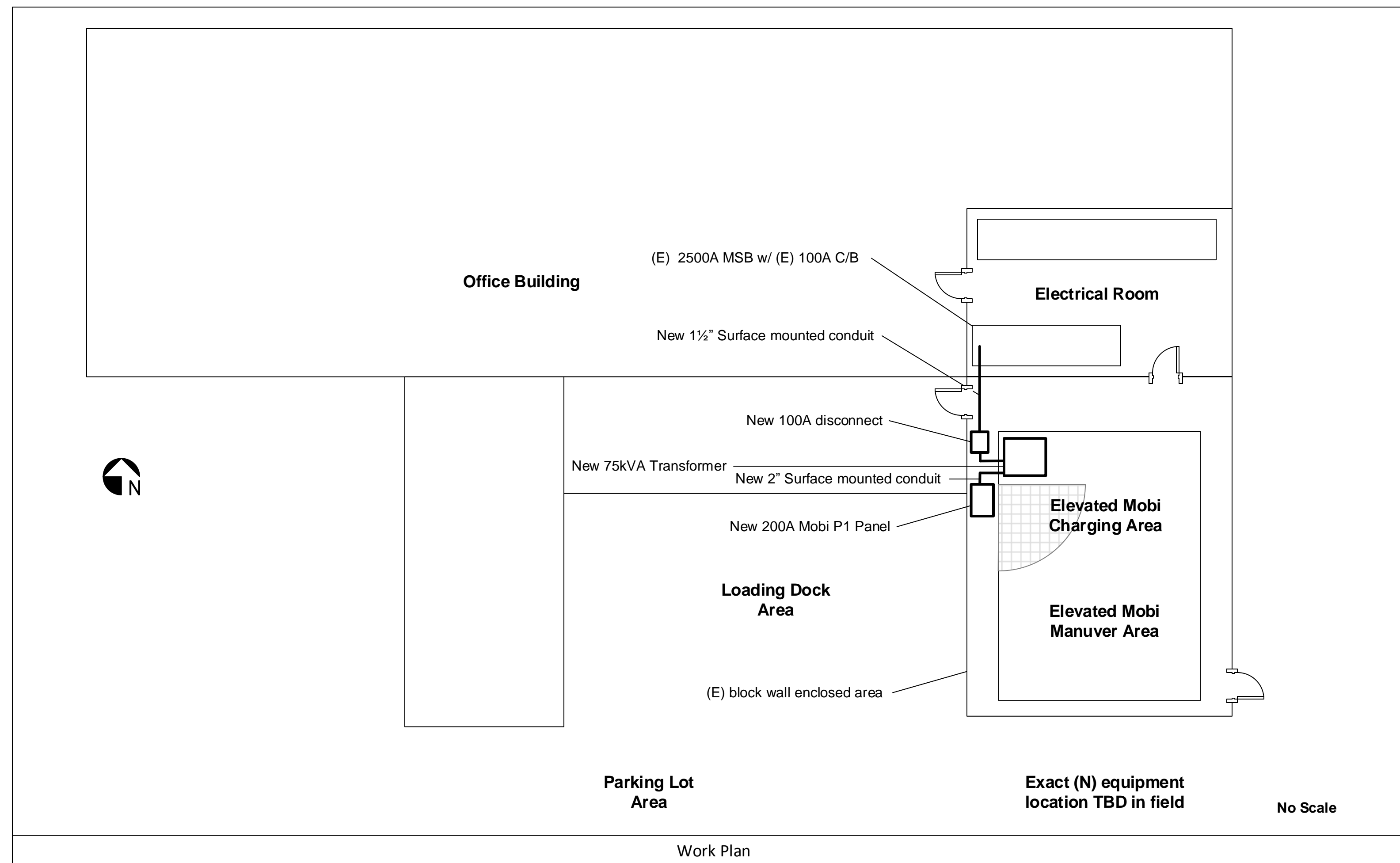
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E-01



Contractor:

D'Alfonso Electric
 EVStructure Division
 3579 Foothill Blvd., #213
 Pasadena, CA 91107
 866 647-5638

Project Name

Mobi EV Charger Installation at LinkedIn Corporation

2029 Sterlin Ct
 Mountain View CA 94043

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E-02