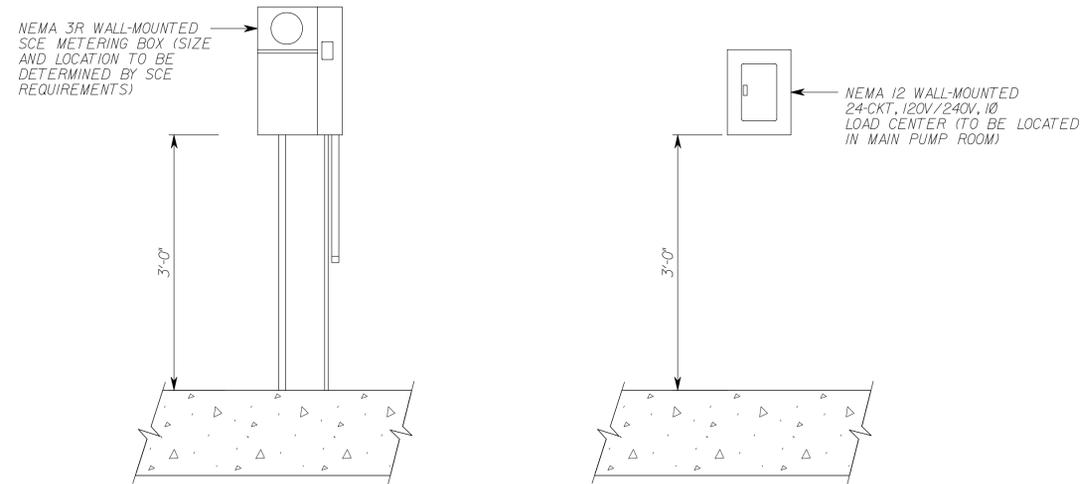


**SINGLE LINE DIAGRAM**  
NOT TO SCALE



**NOTE:**  
1. CONDUIT SIZE AND LOCATION TO BE DETERMINED BY SCE REQUIREMENTS

**SCE METER AND LP "A" ELEVATION**  
NOT TO SCALE

ELECTRICAL LOAD CALCULATIONS	
DESCRIPTION	LOAD (AMPS)
LP "A"	100
<b>TOTAL LOAD</b>	<b>100</b>

**NOTES:**

1. PROVIDE CONDUIT WITH PULL ROPE FROM EXISTING SCE PULL BOX TO SCE METER BOX PER SCE STANDARDS.
2. ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT BUT SHALL NOT BE LESS THAN 30,000 AMPS RMS SYMMETRICAL VERIFY AVAILABLE FAULT CURRENT WITH SCE.
3. ENSURE ALL LOAD BREAKERS ARE COORDINATED WITH FEEDER BREAKERS. PROVIDE COORDINATION STUDY FOR REVIEW AND APPROVAL BY CITY.
4. PROVIDE GROUNDING SYSTEM AS REQUIRED FOR GROUND RESISTANCE OF LESS THAN 5 OHMS. SEE SHEET E-7
5. GROUND BUS TO BE SIZED PER SCE REQUIREMENTS.
6. BASED ON EDISON COMPANY'S DEMAND FACTORS FOR TRANSFORMER SIZING, THE AVAILABLE FAULT CURRENT FOR THIS LOCATION WILL BE APPROXIMATELY 10,000 AMPERES (SYMMETRICAL).

PANEL "A" SCHEDULE														
PANEL NAME LP "A"										MAIN 80A CB				
240/120 VOLTS 1 PHASE 3 WIRE										BUS 100 AMP				
WATTAGE	DESCRIPTION		R	L	P	B	C	C	P	R	WATTAGE			
Ø A	Ø B		E	T	O	K	I	I	R	E	Ø A	Ø B		
320		PUMP ROOM 1 LIGHTS	8	1	15	1			2	15	1	16	PUMP ROOM 2 LIGHTS	480
200		EXTERIOR BUILDING LIGHTS	5	1	15	3			4	15	1	4	PUMP ROOM 1 RECEPTACLES	720
720		PUMP ROOM 2 RECEPTACLES	4	1	15	5			6	30	1		EXHAUST FAN CONTROL PANEL	2500
100		CHLORINE RESIDUAL ANALYZER 1			1	15	7		8	15	1		NITRATE ANALYZER	100
100		CHLORINE RESIDUAL ANALYZER 2			1	15	9		10	15	1		SCADA	100
100		FLOWMETER			1	15	11		12	15	1		METERING PUMP 1	1200
100		AMMONIA LEAK DETECTOR			1	15	13		14	15	1		METERING PUMP 2	1200
100		ILLUMINATED ADDRESS PLAQUE			1	15	15		16	15	1		SPARE	-
-		SPARE			1	15	17		18	15	1		SPARE	-
-		SPARE			1	20	19		20	20	1		SPARE	-
-		SPARE			1	20	21		22	15	1		SPARE	-
-		SPARE			1	20	23		24	15	1		SPARE	-
1240	500	WATTS/LINE										4280	2020	
TOTAL WATTS = 8,040												AMPS = 33.5		

AKM JOB No. 0760890.00

**Underground Service Alert**  
Call: TOLL FREE  
**811**  
TWO WORKING DAYS BEFORE YOU DIG



0 1/2 1 24x36 FORMAT  
IF THIS BAR MEASURES 1" THEN DRAWING SCALE IS AS NOTED

0 1/4 1/2 12x18 FORMAT  
WARNING IF THIS BAR MEASURES 1/2" THEN DRAWING IS NOT FULL SCALE AND IS 50% REDUCED

Designed by JUSTIN M. LEE	Drawn by CADD	Checked by GARY J. HOBSON
PLANS PREPARED UNDER SUPERVISION OF GARY J. HOBSON		
Date MARCH 2010	R.C.E. No. 40779	

**AKM** AKM CONSULTING ENGINEERS  
553 WALD  
IRVINE, CA. 92618  
(949) 753-7333

CDWP	Department of Water and Power Approval	Approved
WMWD	By Donald A. Williams, P.E. R.C.E. No. 32333 EXP 12/31/2010	By Jeffrey D. Sims, P.E. R.C.E. No. 48212, Exp. 12/31/10 Assistant General Manager/ Chief Operations Officer

Approved	Approved
By Kip D. Field, P.E. R.C.E. No. 45679, Exp. 12/31/10 Public Works Director	

CITY OF CORONA - ARLINGTON DESALTER CONNECTION  
WESTERN MUNICIPAL WATER DISTRICT - PROMENADE CONNECTION

**SINGLE LINE DIAGRAM, LIGHTING PANEL SCHEDULE,  
SCE METER AND LIGHTING PANEL ELEVATION**

Drawing No. 09-050U  
E-2  
Sht. 16 of 24