GENERAL SITE NOTES:

A. SITE EXCAVATION OR TRENCHING SHALL BE DONE BY HAND AS REQUIRED FOR SITE CONDITIONS. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO EVALUATE EXISTING SITE CONDITIONS AND PROTECT EXISTING UTILITIES. ALL CONDUITS SHALL HAVE A MINIMUM BURIAL DEPTH OF 30".

B. ALL CUTS THROUGH CONCRETE OR ASPHALT SHALL BE SAW CUT AND REPAIR SHALL BE PROPERLY COMPACTED AND THE SURFACE RESTORED TO MATCH EXISTING.

C. ALL LANDSCAPING (GRASS , PLANTS, ETC.) SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.

D. ALL BENDS ON SITE CONDUITS TO BE LONG RADIUS SWEEPS.

E. NO SPLICES SHALL BE PERMITTED IN UNDERGROUND IN-GRADE PULL BOXES WITHOUT PRIOR WRITTEN APPROVAL BY OWNER.

F THE SIZE, LOCATION, WEIGHT, AND NEC ARTICLE 110/384 REQUIRED SERVICE CLEARANCES OF EQUIPMENT INSTALLED UNDER ELECTRICAL DIVISION SHALL BE COORDINATED WITH ALL OTHER TRADES.

G. THE ELECTRICAL CONTRACTOR SHALL MAKE EQUIPMENT DRAWINGS SHOWING THE EXACT LOCATION OF THE ELECTRICAL EQUIPMENT (SWITCHGEAR, PANELBOARDS, DISCONNECT SWITCHES, ETC). DRAWINGS SHALL BE BASED ON EQUIPMENT CUT SHEETS. THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION OF THE WORK.

H. THE ELECTRICAL CONTRACTOR SHALL VERIFY LIGHT FIXTURE MOUNTING REQUIREMENTS AND PROVIDE THE PROPER MOUNTING FRAME/HARDWARE FOR THE CEILING TYPE TO BE MOUNTED IN.

I. PROGRAMMING/SCHEDULING OF LIGHTING CONTROL PANELS SHALL BE COORDINATED WITH BUILDING OWNER.

J. ALL RACEWAY TERMINATION'S SHALL HAVE BUSHINGS AND BE GROUNDED WHERE RACEWAY IS METAL.

GENERAL RENOVATION NOTES:

A. AT THE CONTRACTOR'S OPTION – PORTIONS OF THE EXISTING CONDUIT SYSTEM MAY BE RETAINED FOR WORK SHOWN ON THESE DRAWINGS. WHERE EXISTING CONDUIT IS REUSED, IT'S MATERIALS AND METHODS OF INSTALLATION WHEN THE PROJECT IS COMPLETE SHALL CONFORM TO THE SPECIFICATIONS AS IF IT WERE NEW. ALL COUPLINGS, CONNECTORS, STRAPS, AND SUPPORTS SHALL BE TIGHTENED.

B. THE REUSE OF EXISTING CONDUCTORS THAT ARE REMOVED BACK TO THE CLOSEST JUNCTION BOX DURING THE REMOVAL OF EXISTING EQUIPMENT WILL NOT BE PERMITTED. NO REMOVED CONDUCTORS SHALL BE REUSED.

C. COORDINATE WITH THE GENERAL CONTRACTOR SO THAT OCCUPIED BUILDINGS OR PORTIONS OF BUILDINGS ARE NEVER WITHOUT LIFE SAFETY SYSTEMS (INCLUDING FIRE ALARM PROTECTION) THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. REVIEW AND TEST EXISTING ELECTRICAL SYSTEMS (INCLUDING FIRE ALARM SYSTEM) PRIOR TO CONSTRUCTION. NOTIFY THE OWNER IN WRITING OF ALL DEFICIENCIES. TEST AND RECERTIFY THE EXISTING FIRE ALARM SYSTEM AFTER CONSTRUCTION. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ALL DEFICIENCIES NOT NOTED TO OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

GENERAL RENOVATION SUBSCRIPTS:

A. THE FOLLOWING DESIGNATIONS ARE USED ON THIS DRAWING, EQUIPMENT IS NEW UNLESS OTHERWISE NOTED:
- <E> EXISTING DEVICE/EQUIPMENT TO REMAIN
- <ER> EXISTING DEVICE/EQUIPMENT RELOCATED
- <EN> EXISTING DEVICE/EQUIPMENT LOCATION REUSED WITH NEW DEVICE/EQUIPMENT.
- <N> NEW DEVICE/EQUIPMENT

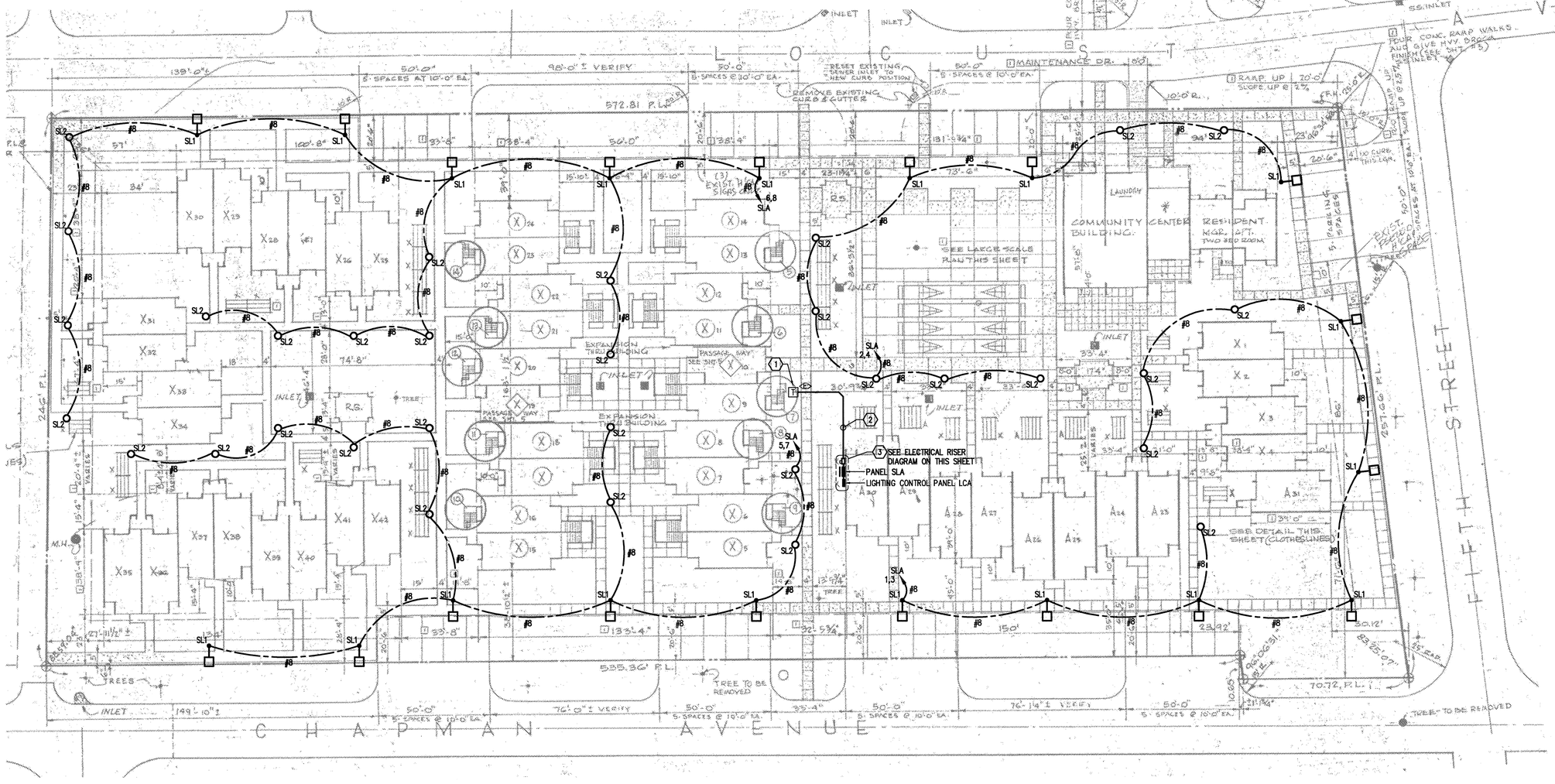
SITE KEY NOTES (X):

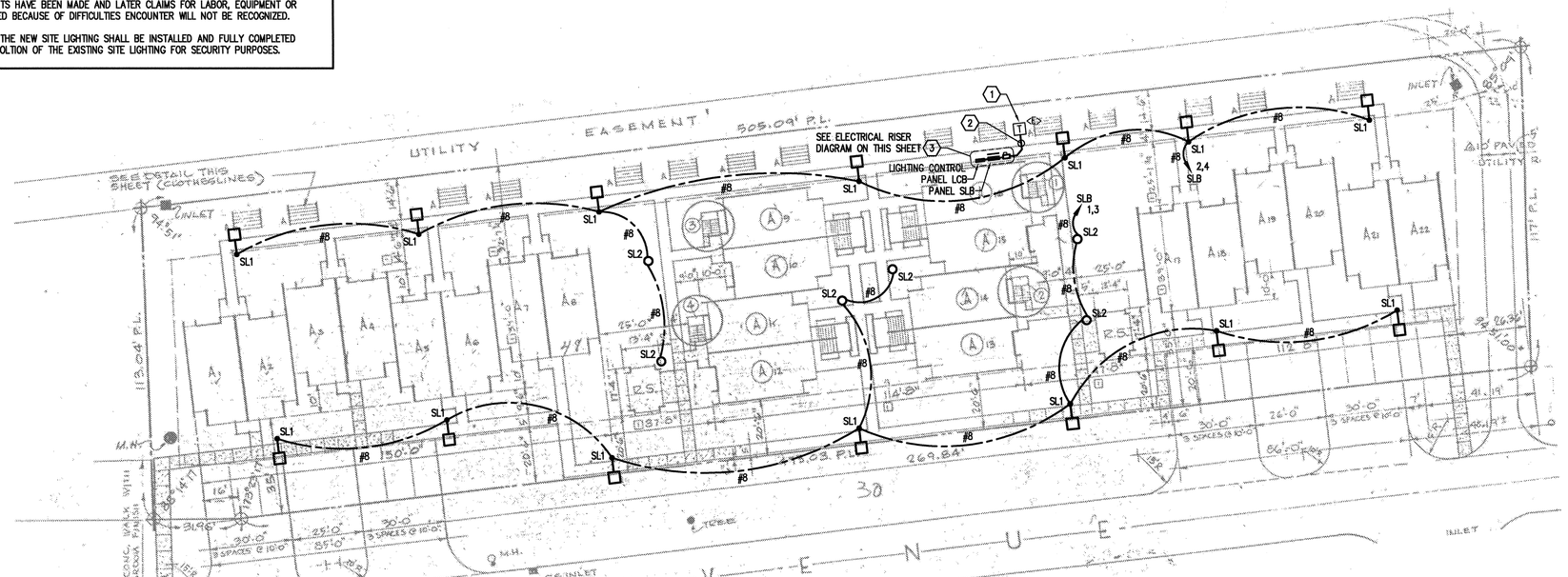
1. EXISTING 120/208V, 3PH. UTILITY TRANSFORMER TO REMAIN. FIELD VERIFY LOCATION PRIOR TO BID.
2. SECONDARY UTILITY CONDUCTORS (SEE RISER DIAGRAM). PROVIDE DUCT AS DETAILED.
3. MAIN ELECTRICAL SERVICE (SEE RISER DIAGRAM).
4. SITE LIGHTING FIXTURE AS DETAILED.

NOTES:

A. PRIOR TO BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE PROJECT SITE AND TAKE FIELD MEASUREMENTS AS NEED TO PREPARE A PROPOSAL. NOTE: THESE DRAWINGS SHOW AN APPROXIMATE SCALE. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED, AS EVIDENCE THAT SUCH MEASUREMENTS HAVE BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTER WILL NOT BE RECOGNIZED.

B. CONSTRUCTION OF THE NEW SITE LIGHTING SHALL BE INSTALLED AND FULLY COMPLETED PRIOR TO THE DEMOLITION OF THE EXISTING SITE LIGHTING FOR SECURITY PURPOSES.





PANEL SLA — SERVICE 120/208V-3Ø-4W — MINIMUM BREAKER AIC 65,000
LOCATION SEE OVERALL SITE PLAN — RATING 60A MCB — MOUNTING SURFACE

LOAD DESCRIPTION	BKR TRIP	BKR POLES	KVA #A	KVA #B	KVA #C	CKT. NO.	KVA #A	KVA #B	KVA #C	BKR TRIP	BKR POLES	LOAD DESCRIPTION
L-SITE LIGHTING (LC)	20	2	0.73			1 2	0.62			20	2	L-SITE LIGHTING (LC)
L–				0.73		3 4		0.62				L–
L-SITE LIGHTING (LC)	20	2			0.94	5 6			0.99	20	2	L-SITE LIGHTING (LC)
L–			0.94			7 8	0.99					L–
SPACE	–	1		0.00		9 10		0.00		–	1	SPACE
SPACE	–	1			0.00	11 12			0.00	–	1	SPACE
						13 14						
						15 16						
						17 18						
						19 20						
						21 22						
						23 24						
						25 26						
						27 28						
						29 30						
						31 32						
						33 34						
						35 36						
						37 38						
						39 40						
						41 42						
TOTALS			1.67	0.73	0.94		1.61	0.62	0.99			

LOAD CALCULATIONS:	CONN. LOAD – KVA	D.F.	CALC. DEMAND – KVA
LIGHTING	6.56	1.25	8.20
RECEPTACLES – 1ST 10 KVA	0.00	1.00	0.00
RECEPTACLES – ABOVE 10 KVA	0.00	0.50	0.00
HVAC	0.00	1.00	0.00
MOTORS	0.00	1.00	0.00
EQUIPMENT	0.00	1.00	0.00
APPLIANCE	0.00	1.00	0.00
SPARE/SPACE	0.00	1.00	0.00
OTHER	0.00	1.00	0.00
TOTAL KVA (AMPS)	6.56 (18.21)		8.20 (22.76)

LOADS NOT INCLUDED IN CALCULATIONS: 0.00
NOTES:
(LC) CONNECT THROUGH LIGHTING CONTROL PANEL.

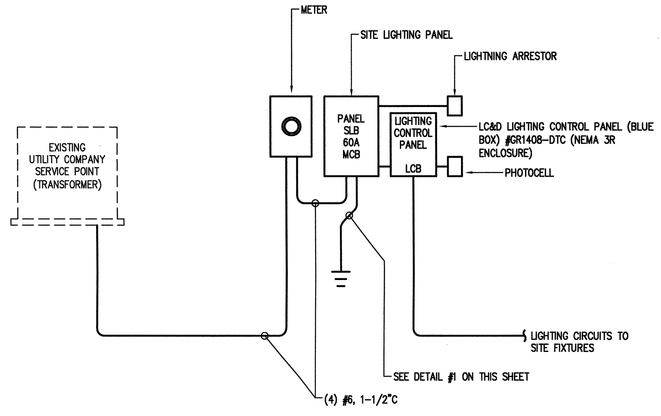
RENOVATION ELECTRICAL SITE PLAN
SCALE: 1" = +/-30'-0"

PANEL SLB — SERVICE 120/208V-3Ø-4W — MINIMUM BREAKER AIC 65,000
LOCATION SEE OVERALL SITE PLAN — RATING 60A MCB — MOUNTING SURFACE

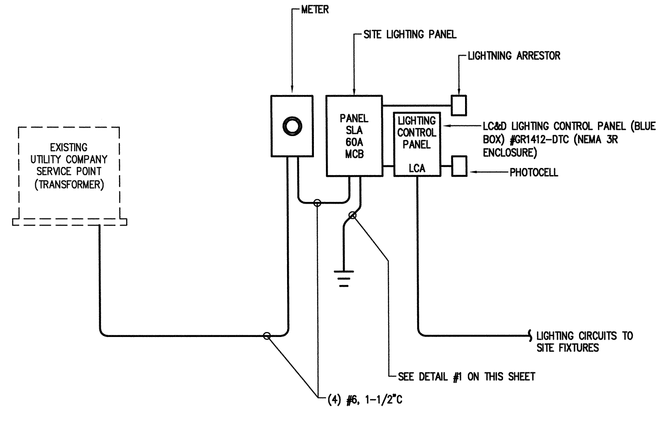
LOAD DESCRIPTION	BKR TRIP	BKR POLES	KVA #A	KVA #B	KVA #C	CKT. NO.	KVA #A	KVA #B	KVA #C	BKR TRIP	BKR POLES	LOAD DESCRIPTION
L-SITE LIGHTING (LC)	20	2	0.82			1 2	0.72			20	2	L-SITE LIGHTING (LC)
L–				0.82		3 4		0.72				L–
SPACE	–	1			0.00	5 6			0.00	–	1	SPACE
SPACE	–	1	0.00			7 8	0.00			–	1	SPACE
SPACE	–	1		0.00		9 10		0.00		–	1	SPACE
SPACE	–	1			0.00	11 12			0.00	–	1	SPACE
						13 14						
						15 16						
						17 18						
						19 20						
						21 22						
						23 24						
						25 26						
						27 28						
						29 30						
						31 32						
						33 34						
						35 36						
						37 38						
						39 40						
						41 42						
TOTALS			0.82	0.82	0.00		0.72	0.72	0.00			

LOAD CALCULATIONS:	CONN. LOAD – KVA	D.F.	CALC. DEMAND – KVA
LIGHTING	3.08	1.25	3.85
RECEPTACLES – 1ST 10 KVA	0.00	1.00	0.00
RECEPTACLES – ABOVE 10 KVA	0.00	0.50	0.00
HVAC	0.00	1.00	0.00
MOTORS	0.00	1.00	0.00
EQUIPMENT	0.00	1.00	0.00
APPLIANCE	0.00	1.00	0.00
SPARE/SPACE	0.00	1.00	0.00
OTHER	0.00	1.00	0.00
TOTAL KVA (AMPS)	3.08 (8.55)		3.85 (10.69)

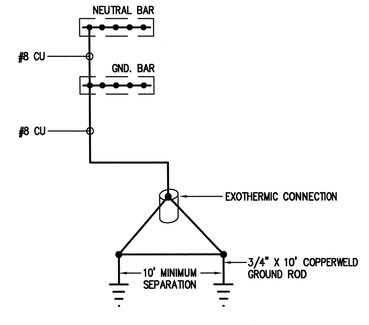
LOADS NOT INCLUDED IN CALCULATIONS: 0.00
NOTES:
(LC) CONNECT THROUGH LIGHTING CONTROL PANEL.



ELECTRICAL RISER DIAGRAM
N.T.S.



ELECTRICAL RISER DIAGRAM
N.T.S.



1 E-3 SERVICE GROUND DETAIL
N.T.S.

MARK	DATE	REVISION

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F: 407 539 2041
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REDDING GARDENS LIGHT IMPROVEMENTS
SANFORD, FLORIDA

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PROJECT # :	20801A
DATE :	9-22-08
DRAWN BY:	BCF
CHECKED BY :	BCF
TITLE	RENOVATION ELECTRICAL SITE PLAN, SCHEDULES, AND RISERS
SCALE :	AS NOTED
SHEET # :	E-3

Bryan C. Frohlich
PE #: 58250
Innovative Engineering, Inc.
P.O. Box 941428 Maitland, FL 32794
(407) 949-0294 Phone/Fax
info@innovativeengineeringinc.com
Certificate of Authorization No.: 26804

FILENAME: W-SITE PLANS – 08017.DWG
LAST PLOTTED: 08/25/08 – 11:51
PLOT SCALE: 1 = 360