

1. THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2002 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1) FPN No. 4.

**LEGEND:**

- STREETLIGHTING CONDUIT
- PROPOSED
- EXISTING
- FUTURE
- TRAFFIC SIGNAL CONDUIT
- PROPOSED
- EXISTING
- FUTURE
- INTERCONNECT CONDUIT
- PROPOSED
- EXISTING
- FUTURE
- SCHOOL FLASHER CONDUIT
- PROPOSED
- EXISTING
- FUTURE
- STREET LIGHT
- PROPOSED
- EXISTING
- FUTURE
- STREET LIGHT WITH TRAFFIC SIGNAL
- PROPOSED
- EXISTING
- FUTURE
- #3-1/2 PULLBOX, MARKED "STREET LIGHTING", UNLESS OTHERWISE NOTED
- PROPOSED
- EXISTING
- FUTURE
- #5 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED
- PROPOSED
- EXISTING
- FUTURE
- #7 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED
- ▨ PROPOSED
- ▨ EXISTING
- ▨ FUTURE
- SERVICE PEDESTAL
- PROPOSED
- EXISTING
- FUTURE
- N.P.C. TRANSFORMER
- PROPOSED
- EXISTING
- FUTURE
- TRAFFIC SIGNAL CONTROLLER
- PROPOSED
- EXISTING
- FUTURE
- (N) SERVICE PEDESTAL DESIGNATION
- (NX) CIRCUIT DESIGNATION
- N = SERVICE PEDESTAL
- X = CIRCUIT

**ELECTRICAL CONSTRUCTION NOTES**

1. EXISTING SERVICE PEDESTAL, SPU2: SEE ELECTRICAL SERVICE NOTES
2. NOT USED.
3. EXISTING CONDUIT ONLY.
4. INSTALL 2#4, 1#8 GND IN EXISTING CONDUIT [CIRCUIT SP\_U2(B)].
5. EXISTING STREETLIGHT PER NORTHERN TERRACE, UNIT 2.
6. PROPOSED 100W HPS STREETLIGHT ASSEMBLY WITH 23' LUMINAIRE MOUNTING HEIGHT AND 6' MAST ARM LENGTH PER CLIFF'S EDGE MASTER DEVELOPMENT PLAN AND DESIGN GUIDELINES.
7. EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [CIRCUIT SP\_U2(A)].
8. PROPOSED NO. 3-1/2 PULLBOX PER USD 326.
9. REMOVE CAP AND CONNECT TO EXISTING 1-1/4" CONDUIT.
10. PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING].
11. PROPOSED 1-1/4" CONDUIT ONLY [STREETLIGHTING].

**ELECTRICAL SERVICE NOTES**

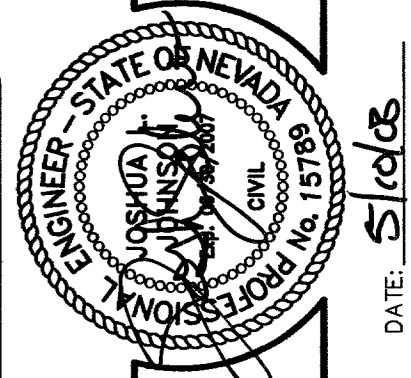
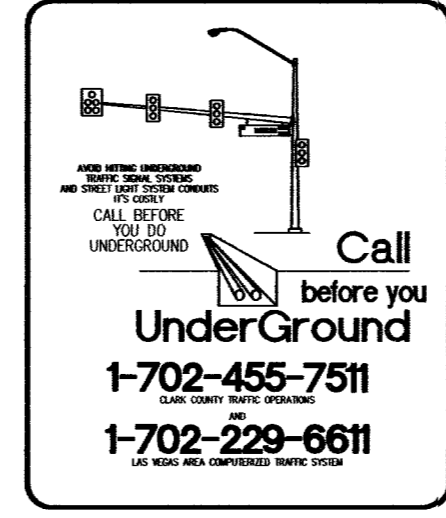
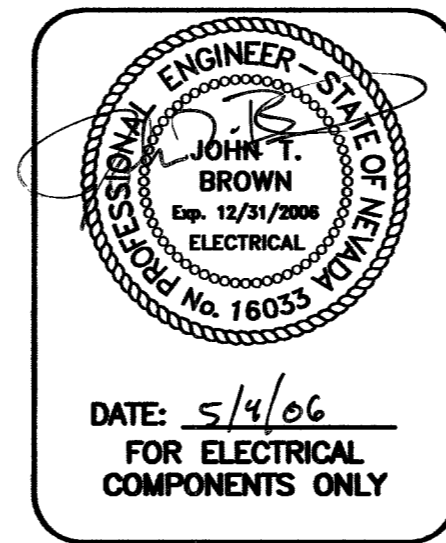
SPU2: EXISTING 125 AMP SERVICE PEDESTAL SEE NORTHERN TERRACE UNIT 2 FOR FURTHER INFORMATION

**GENERAL ELECTRICAL NOTES**

1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 404.1419 AND USD 501. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). CONDUIT RISERS SHALL BE TYPE RMC WITH PVC COATING OR TAPE WRAP. ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES.
2. ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW INSULATED COPPER.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.
4. POLE, LUMINAIRE AND FIXTURE SHALL CONFORM TO AMERON 68126 (MIX12) WITH AMERON 1AZB6VA SCROLL & ARM ASSEMBLY, 1AZB8VA ALUM ARM ASSEMBLY PER DRAWING #SK083101. AMERON MBO06 (5731) POLE, DRAWING #SK054805.

**SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION**

CIRCUIT NAME: SP-U2	CIRCUIT (A)		CIRCUIT (B)	
CIRCUIT TYPE:	STREET LIGHTING (EXISTING)		STREET LIGHTING (PROPOSED)	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48	
EXISTING CIRCUIT LOAD AMPS =	16.00		0.00	
	PROPOSED		PROPOSED	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0	12	6.00
100 WATT TWIN LUMINAIRES AT 240V = 0.75 AMPS	0	0.00	0	0.00
250 WATT SINGLE LUMINAIRES AT 240V = 1.25 AMPS	0	0.00	0	0.00
400 WATT SINGLE LUMINAIRES AT 120V = 4.00 AMPS	0	0.00	0	0.00
TOTAL PROPOSED LOAD AMPS =	0.00		6.00	
EXISTING PLUS PROPOSED LOAD AMPS =	16.00		6.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =	32.00		42.00	
	Unit 2 Only		Unit 7 Only	



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**MERITAGE CORPORATION**  
 NORTHERN TERRACE - UNIT 7  
 STREETLIGHT, CONDUIT AND ELECTRICAL PLAN DATA SHEET

DRAWING  
**C-11**  
 11 OF 12 SHEETS

9/18/11

**CLV DRAWING NO. 10749891-7**

JOB NO. 816.002X14