

DATE: 5/16/06

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DESCRIPTION

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DESIGN: DRAWN: CHECK: ISSUE DATE: PLOT DATE: 04-13-06 PLOT TIME: 14:26:18

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G. C. WALLACE, INC. Engineers/Planners/Surveyors 1555 SOUTH RAINBOW BLVD LAS VEGAS, NEVADA 89146 TELEPHONE: (702) 804-2000 * FAX: (702) 804-2299

1: Northern Terrace\Units\N1UB62013.dwg

MERTAGE CORPORATION NORTHERN TERRACE - UNIT 8 STREETLIGHT, CONDUIT AND ELECTRICAL PLAN DATA SHEET

JOB NO. 89.002.X15

DRAWING C-13 14 OF 15 SHTS

ELECTRICAL CONSTRUCTION NOTES

- 1. EXISTING SERVICE PEDESTAL SP3. SEE ELECTRICAL SERVICE NOTES.
- 2. EXISTING PULLBOX.
- 3. EXISTING STREETLIGHT PER NORTHERN TERRACE - UNIT 3.
- 4. EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [CIRCUIT SP3(A)].
- 5. EXISTING 1-1/4" CONDUIT ONLY [CIRCUIT SP3(B)].
- 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. NOT USED.
- 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].
- 12. INSTALL 2#4, 1#8 GND IN EXISTING CONDUIT [CIRCUIT SP3(B)].

ELECTRICAL SERVICE NOTES:

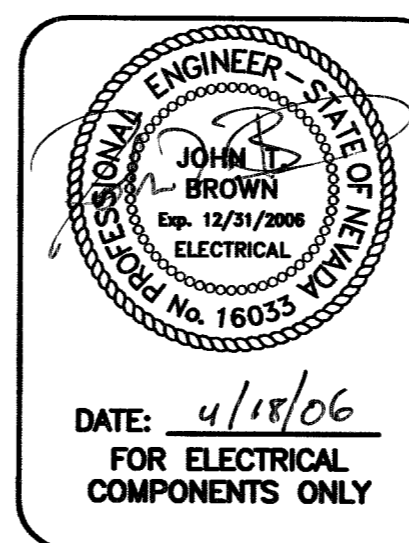
SP3: EXISTING 125 AMP SERVICE PEDESTAL, SEE NORTHERN TERRACE - UNIT 3 FOR FURTHER INFORMATION.

GENERAL ELECTRICAL NOTES

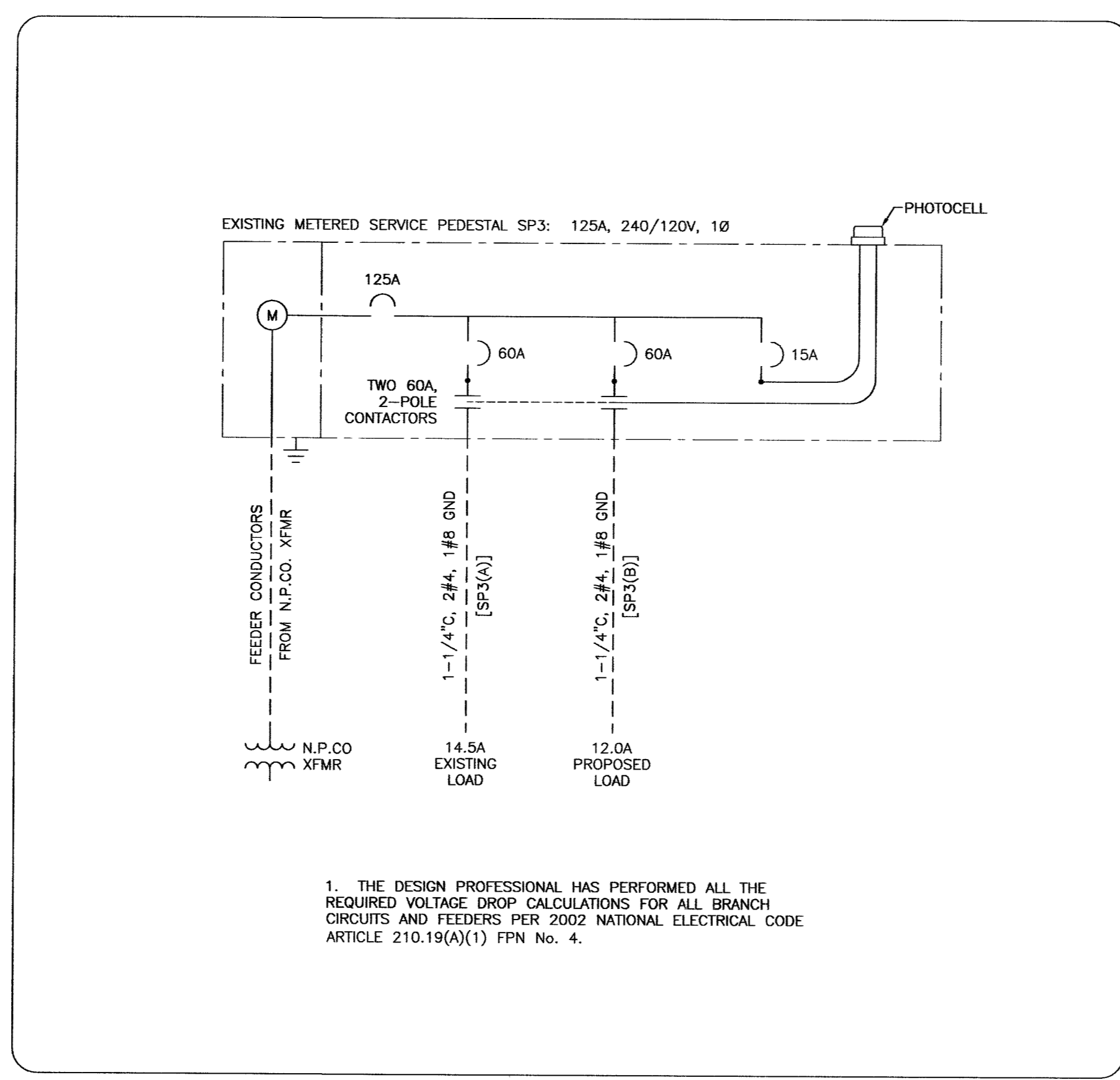
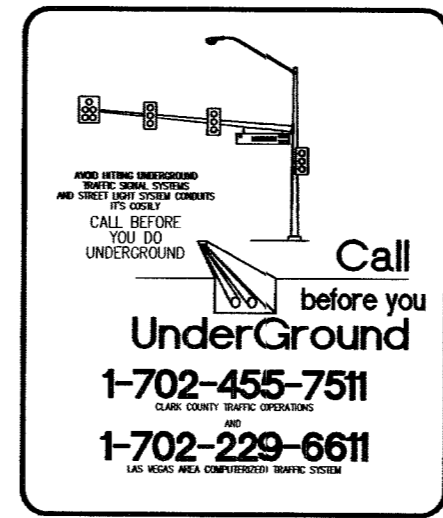
1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 404.1419 AND USD 501. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). CONDUIT RISERS SHALL BE TYPE RMC WITH PVC COATING OR TAPE WRAP. ALL CONDUIT WHICH WOULD OTHERWISE 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 MB006 (5731) POLE, DRAWING #SK054805.

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
- SERVICE PEDESTAL DESIGNATION
 - N = SERVICE PEDESTAL
 - X = CIRCUIT



DATE: 4/18/06 FOR ELECTRICAL COMPONENTS ONLY



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.

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.L0.03 (E) OF THE SPECIFICATIONS.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PREFINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.

SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION

CIRCUIT NAME:	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 =	14.50	0.00		
	PROPOSED	PROPOSED		
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0.00	24	12.00
150 WATT SINGLE 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	12.00		
EXISTING PLUS PROPOSED LOAD AMPS =	14.50	12.00		
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =	33.50	36.00		
	Unit 3 Only	Unit 8 Only		

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONES. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAMES SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO ENSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET-UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHTS OF WAY.
11. WORK IN THE PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRASP (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE NO: 229-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL FEES FOR THE USE OF THESE OFFICERS SHALL BE SET UP BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

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CLV DRAWING NO. 107Y4891-8