



**GRADING PLAN CERTIFICATION**

NAME: GUY M. MORRIS PE # 14526 DATE: 2/22/16

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#47488

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
  - NOT ALL NOTES USED ON THIS SHEET -
  - CONSTRUCT AC PAVEMENT PER DETAIL 1 ON C6.01.
  - CONSTRUCT SIDEWALK DRAIN PER CCAUSD NO. 236
  - CONSTRUCT "A" TYPE CURB PER DETAIL 2 ON C6.01
  - CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216.
  - CONSTRUCT CONC. SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS.
  - CONSTRUCT 2" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3 ON C6.01.
  - CONSTRUCT 5' WIDE CONCRETE VALLEY GUTTER PER DETAIL 4 ON C6.01.
  - CONSTRUCT SIDEWALK RAMP PER DETAIL 5 ON C6.01.
  - CONSTRUCT WATER QUALITY RIPRAP SWALE, 4.8' WIDE, 0.6' DEEP, 4:1 SIDE SLOPE. D<sub>50</sub>=4", THICKNESS=8"
  - CONSTRUCT 2" WIDE CURB OPENING.
  - CONSTRUCT 8" THICK SOLID GROUTED (OR APPROVED EQUIVALENT) RETAINING WALL PER STRUCTURAL DRAWINGS.
  - CONSTRUCT RIPRAP SWALE. D<sub>50</sub>=6", THICKNESS=12".
  - CONSTRUCT 4' WIDE MAINTENANCE ACCESS WALL NOTCH.
  - CONSTRUCT TURNED DOWN CONC. SIDEWALK PER DETAIL 1 ON C6.02.
  - INSTALL PRECAST BUMPER BLOCK PER CCAUSD NO. 238
  - PROPOSED EDGE OF PAVEMENT.
  - INSTALL WATER BOTTLE ON CONCRETE PAD PER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
  - INSTALL BOLLARD PER DETAIL 8 ON C6.01.

- STORM DRAIN CONSTRUCTION NOTES:**
- NOT ALL NOTES USED ON THIS SHEET -
  - INSTALL TYPE I STORM DRAIN MANHOLE PER C.C.A.U.S.D. No. 403 WITH CONCRETE COLLAR PER C.C.A.U.S.D. No. 408. REFER TO C.C.A.U.S.D. No. 409 FOR MANHOLE COVER AND RING.
  - INSTALL 36"x36" DROP INLET PER 6 ON C6.01.
  - INSTALL FLARED END SECTION PER DETAIL 7 ON C6.01.

**NOTE:**  
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

**SAFETY ALERT**  
Call before you dig  
Call Before You Overhead

**STATE OF NEVADA**  
GUY M. MORRIS  
PE No. 14526  
CIVIL ENGINEER  
02-22-2016

PROJECT No.: 151110  
DATE: 02-22-2016  
SCALE: 1"=20"  
DRAWN BY: JLI  
DESIGNED BY: JLI  
CHECKED BY: GMM

1-702-227-2929  
1-702-432-5300  
1-702-227-2800

**C5.01**  
SHEET 6 OF 8  
# 63383  
107V6616

2/22/2016 10:45 AM  
C:\Users\jmorris\Documents\151110-2016-02-22.dwg

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	150W HPS STREETLIGHTS	200W HPS STREETLIGHTS	250W HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34)		(12.34)	(S) = SANITARY SEWER (SD) = STORM DRAIN (E) = ELECTRICAL (T) = TELEPHONE						(BW)			
ROW LINE	SCARP LINE	PROPOSED:	(2122)								12.34												

Lochsa ENGINEERING

PLAN AND PROFILES  
STORM DRAIN  
DOLLAR TREE  
NORTHWEST CORNER OF NOVAT STREET  
AND CLIFF SHADOWS PARKWAY