

# Memorandum

Department of Public Works  
City Engineer Division  
Survey Section  
333 North Rancho Dr., 8<sup>th</sup> Floor  
Las Vegas, Nevada 89106  
Phone (702) 229-6217  
Fax (702) 804-8582

To: Michael Cunningham, Manager  
Building and Safety Department

From: Alan R. Riecki, PLS  
City Surveyor

C: Derek S. Crowther, PLS  
Heritage Land Surveying

Oh-Sang Kwon, P.E., Engineering Project Manager  
Flood Control Section

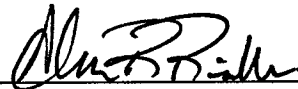
Date: April 10, 2019

Re: Storm Drain Final Location Map  
DEER SPRINGS AND HUALAPAI  
(Drawing No. 107Y5060, L-Civil No. L-69418)

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The Survey Section has reviewed the Final Location Map and as far as our jurisdiction of this project is concerned, we find that the map is:

Acceptable: April 10, 2019



Signature

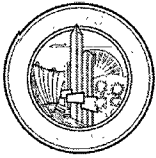
City Surveyor

Title

Public Works/Survey

Department/Division





**City of Las Vegas**  
**Department of Public Works**  
**Survey Section**

JOB NUMBER L-69418 SD2

PROJECT NAME DEER SPRINGS AND HUALAPAI

WORK AUTH. NO. P28000

SUBMITTED BY HERITAGE SURVEYING (DEREK S. CROWTHER)

PROJECT TYPE CIP  Land Dev  Street Rehab

DATE 4/10/12

REVIEWED BY O. Santana

**REVIEW CHECKLIST**  
**STORM DRAIN**  
**FINAL LOCATION MAP**

**REVIEW DETERMINATION**

- Approved
- Not Acceptable

**TO BE RE-SUBMITTED**

- Two bond copies (no mylar)
- Electronic media with comma-separated coordinate file

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
<b>Submittal Contents</b>				
Two bond copies (no mylar)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Electronic media containing comma-separated coordinate file	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>General Map Contents</b>				
Sheet size 24" x 36"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sheet number and number of sheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
North arrow (pointing up, left or right)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Scale (written & graphic, correctly shown, appropriate scale used)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lettering legibility (minimum text size 0.08")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Map title shown ("Storm Drain Final Location Map")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CLV project name shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CLV Hansen No. shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CLV Drawing No. shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Preparer's company name and contact information shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Legend (all linetypes and symbols defined)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Non-standard abbreviations defined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Distances, coordinates and elevations labeled using decimal feet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Approximate limits of streets shown (improvements or right-of-way)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Street names labeled (identified as public or private)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**REVIEW CHECKLIST – STORM DRAIN FINAL LOCATION MAP**

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
<b>Storm Drain Improvements Data</b>				
<b>*NOTE</b> As of December 1, 2015 <b>manhole cover locations are no longer required.</b>				
Manhole Barrel/Base: (measured horizontally at centerline of barrel/base structure, vertical location does not apply)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Drop Inlets (measured horizontally at back of curb at each outer extent of box, vertically at top of curb)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vaults and Junction Structures (measured horizontally at all outer extents of structure, vertically at top of structure)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pipes and RCB's: locate at all connections to other pipes and structures, all horizontal and vertical deflections, points of termination (stubs), point at which pipe/RCB exits the public right-of-way or easement (measured horizontally at centerline of pipe/RCB, vertically at top of pipe/RCB)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> All pipe connections to manholes and other structures should be located at outside face of structure before backfilling due to accuracy limitations of pipe measurements from the structure's surface access point.				
<b>Coordinate Information</b>				
Data acquisition completion date indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Coordinate system indicated (only CLV approved coordinate systems are to be used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Horizontal datum, datum adjustment, and epoch date indicated (only CLV approved datums are to be used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Benchmark ID, description, elevation indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Statement of positional accuracy per the tolerances indicated below	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> For all projects with improvement plans approved prior to March 1, 2015 coordinates provided must be accurate to within ±0.5 feet horizontally and vertically. For all projects with improvement plans approved after March 1, 2015 coordinates provided must be accurate to within ±0.3 feet horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL COMMENTS

**NOTES**

- 1: THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE STORM DRAIN FACILITIES LOCATED AT HUALAPAI WAY AND DEER SPRINGS WAY NORTH OF THE INTERSECTION OF DEER SPRINGS WAY AND HUALAPAI WAY
- 2: THE FIELD SURVEY WAS COMPLETED ON MARCH 20, 2019
- 3: HORIZONTAL AND VERTICAL ACCURACY  $\pm 0.3$  FEET

**LEGEND**

---	EXISTING UTILITY STORM DRAIN PIPE
---	RIGHT OF WAY
---	CENTERLINE
---	EXISTING CURB & GUTTER
PNT#	POINT NUMBER
N:	NORTHING
E:	EASTING
EL:	ELEVATION
DESC:	DESCRIPTION
D.I.:	DROP INLET

**BENCHMARK**

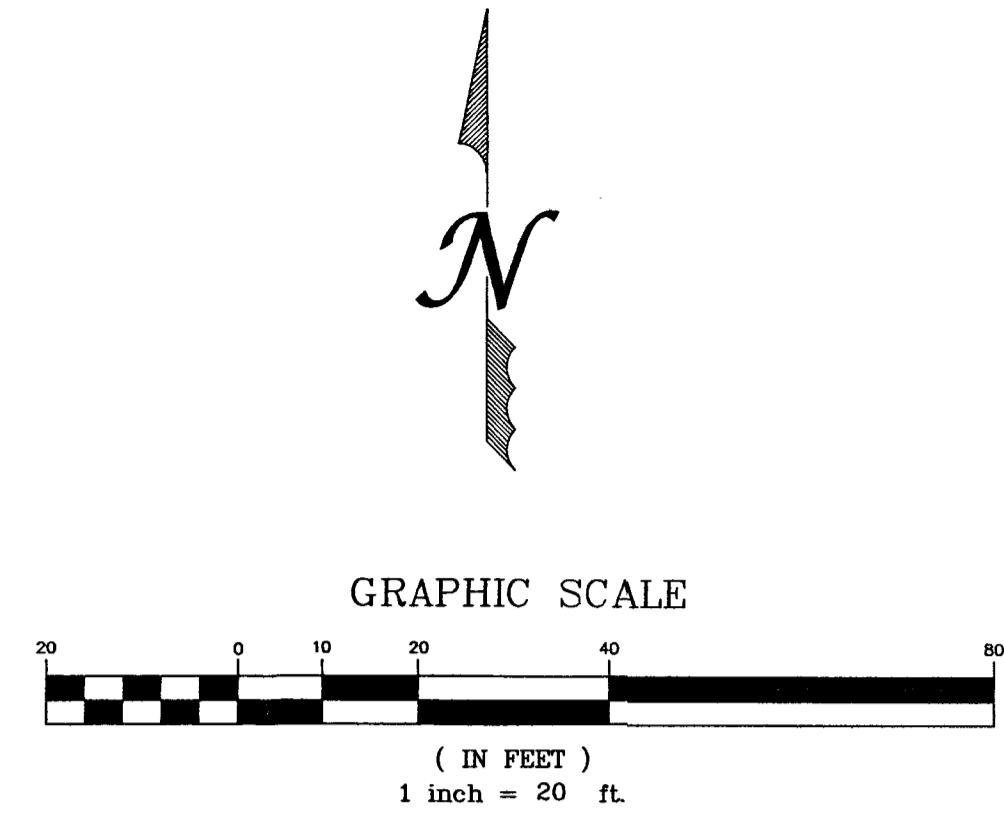
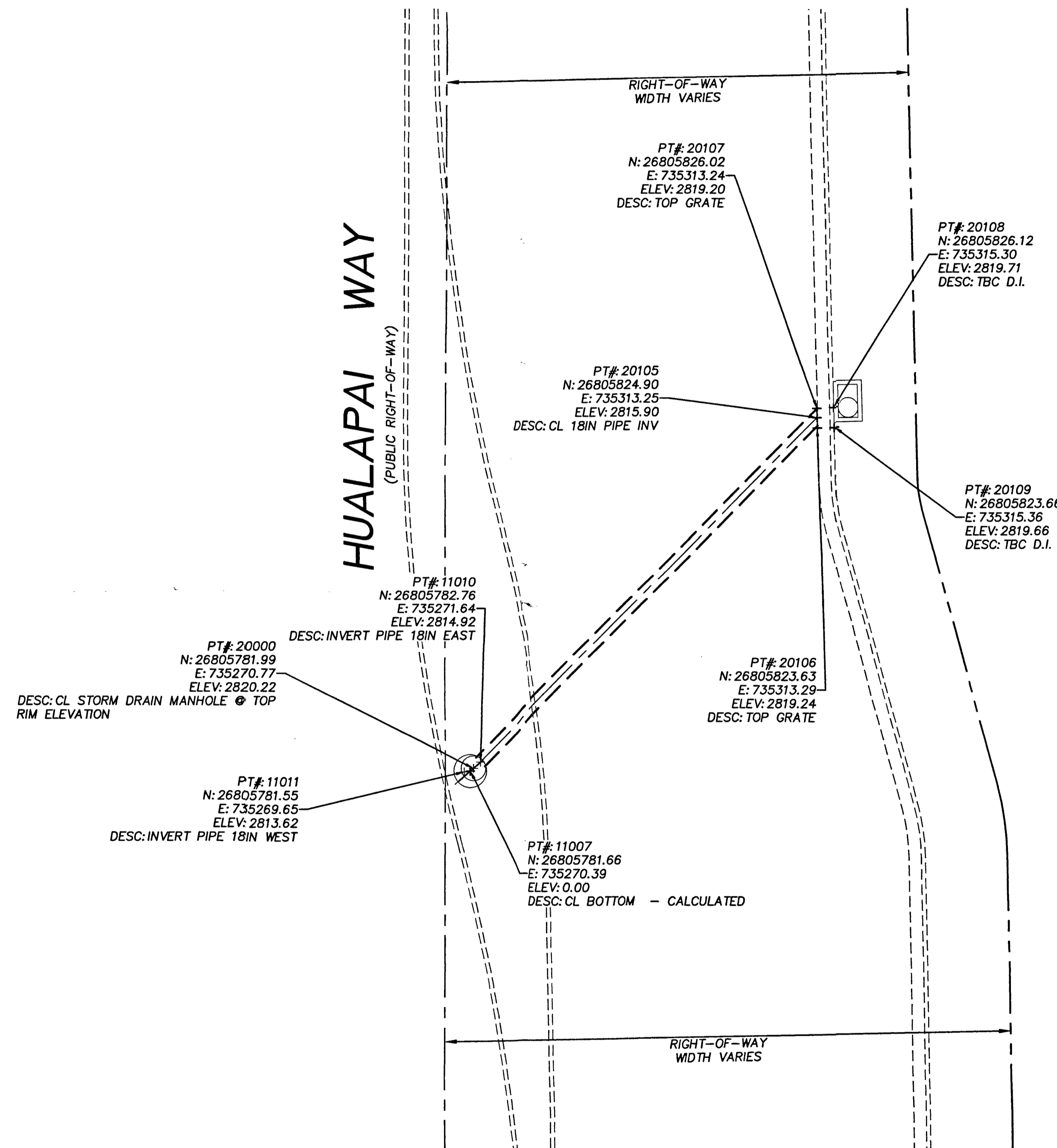
CITY OF LAS VEGAS BENCHMARK 6LV9019SWW6  
 RIVET & PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY 215 ON HUALAPAI.

NORTH AMERICAN VERTICAL DATUM (NAVD) 88 DATUM  
 ELEVATION = 853.317 METERS  
 ELEVATION = 2799.59 U.S SURVEY FEET

**HORIZONTAL DATUM**

HORIZONTAL DATUM SHOWN HEREON IS BASED UPON NORTH AMERICAN DATUM OF 1983 (NAD 83 (2011) EPOCH 2010.00 REALIZATION), NEVADA STATE PLANE COORDINATE SYSTEM EAST ZONE (2701).

CLV PROJECT: DEER SPRINGS AND HUALAPAI  
 CLV PROJECT # H69418CLV  
 PLAN # 107Y5060



"DEER SPRINGS AND HUALPAI"  
 LOT 1  
 BOOK 154, PAGE 23 OF PLATS  
 APN: 125-19-213-007

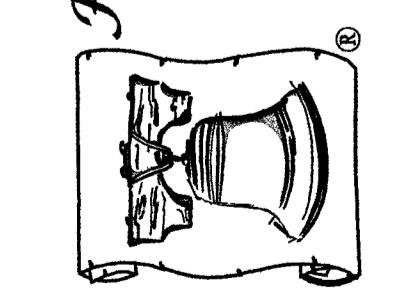
NO.	DESCRIPTION	DATE

SCALE (H)	1" = 20'
SCALE (V)	N/A
DRAWN BY	F-CMITTLO
APN	125-19-202-006

NEVADA  
 CLARK COUNTY  
 CITY OF LAS VEGAS

**STORM DRAIN FINAL LOCATION MAP  
 DEER SPRINGS AND HUALAPAI  
 TETON BUILDERS**

**Heritage Surveying**  
 1895 VILLAGE CENTER CIRCLE  
 LAS VEGAS, NEVADA 89134  
 (702) 474-6277 (HSA-MAPS)  
 FAX (702) 255-6902  
 HERITAGE-SURVEYING.COM



JOB NUMBER	363.0002.01
DWG: 3630002STRMBLT	
DATE	10/18/18
SHEET	1 OF 1