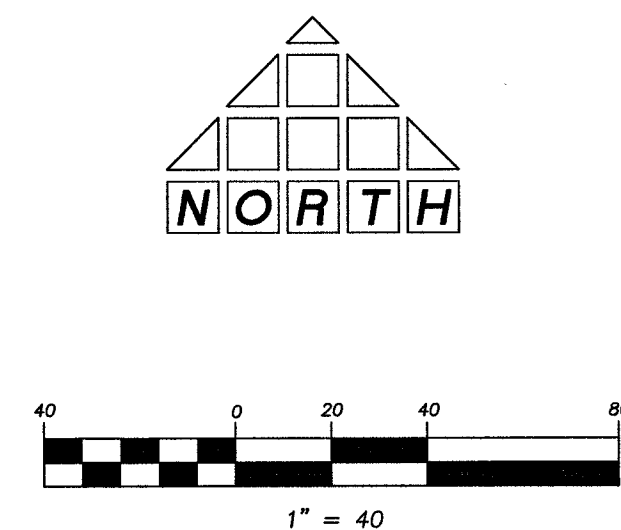
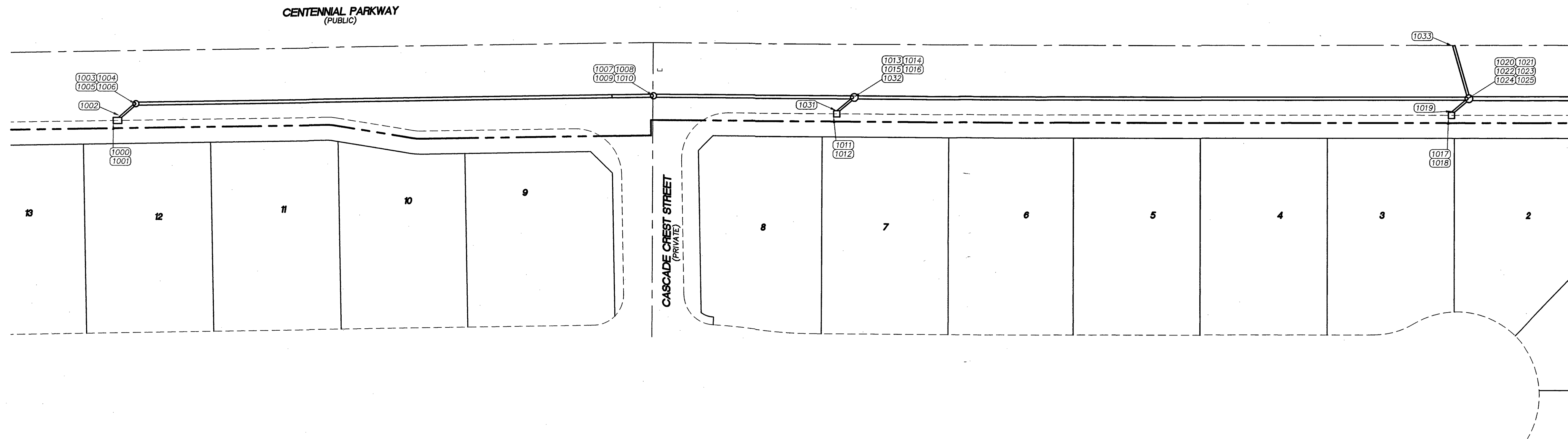




- LEGEND**
- PROPERTY LINE / RIGHT-OF-WAY
 - - - BACK OF CURB
 - CENTERLINE OF STREET
 - SEWER LINE
 - 10 LOT NUMBER
 - (XXX) ASBUILT SEWER LOCATION POINT NUMBER (SEE CHARTS SHEET 5)

ABBREVIATIONS

- SS — SANITARY SEWER
- SSMH — SANITARY SEWER MANHOLE
- LAT — LATERAL
- VB — VERTICAL BEND
- CL — CENTERLINE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 6LV99 24SES
A RIVET AND PLATE IN THE TOP OF CURB AT
THE NORTHWEST CORNER OF CENTENNIAL
PARKWAY AND HUALAPAI WAY.

ELEVATION=844.924 METERS (NAVD'88)
ELEVATION=2772.06 US SURVEY FEET
(NAVD'88)

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL
MERIDIAN OF THE NEVADA COORDINATE
SYSTEM, EAST ZONE, NORTH AMERICAN DATUM
OF 1983; SAID MERIDIAN BEING COINCIDENT
WITH 115°35' WEST OF THE GREENWICH
MERIDIAN.

COORDINATE SYSTEM

NEVADA STATE PLANE COORDINATE SYSTEM,
EAST ZONE 2701

DATUM

NAD 1983 (2011) EPOCH 2010.0

NOTES:

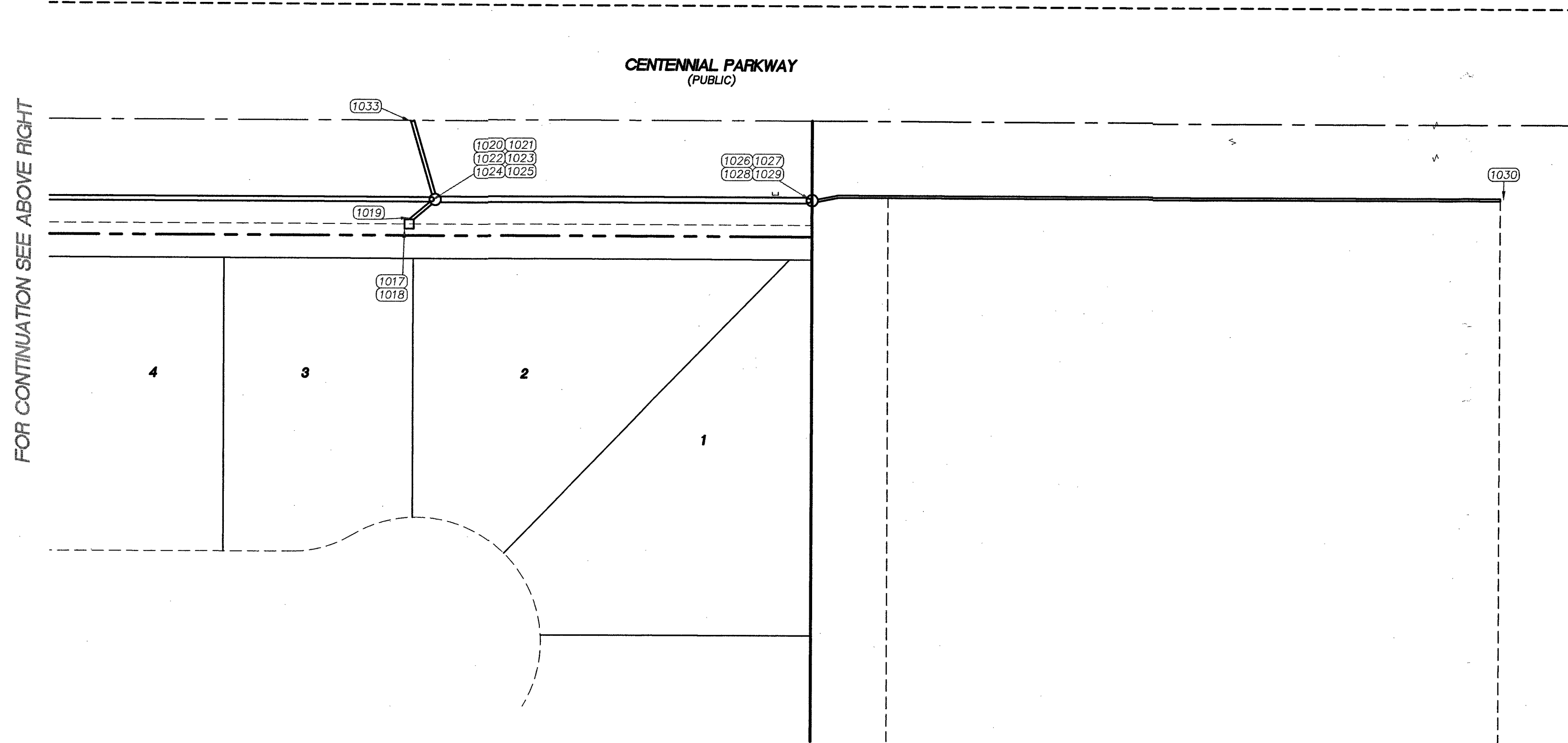
ALL PIPE ELEVATIONS REFLECT TOP OF PIPE.

MANHOLE LID ELEVATIONS TAKEN AT RIM.

FIELD WORK COMPLETED 07-27-16

ALL COORDINATES ACCURATE WITHIN +/- 0.3
FEET HORIZONTALLY AND VERTICALLY.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	26802642.58	734900.643	2781.312	BC @ EDGE D.I.
1001	26802642.68	734908.998	2780.985	BC @ EDGE D.I.
1002	26802645.73	734906.167	2776.395	SD @ D.I.
1003	26802652.33	734914.8031	2775.66	SDMH SOUTHWEST IN
1004	26802653.71	734919.1633	2775.79	SDMH EAST OUT
1005	26802653.03	734916.651	2780.499	CL 32" SDMH LID
1006	26802653.7	734916.841	2780.531	CL SDMH
1007	26802659.36	735249.9009	2765.307	SDMH WEST IN
1008	26802659.44	735254.5066	2765.1	SDMH EAST OUT
1009	26802658.87	735252.0095	2769.46	CL 38" SDMH LID
1010	26802659.37	735252.1631	2769.513	CL SDMH
1011	26802648.32	735368.477	2765.859	BC @ EDGE D.I.
1012	26802648.26	735374.237	2765.692	BC @ EDGE D.I.
1013	26802659.09	735380.321	2761.404	SDMH WEST IN
1014	26802659.08	735385.3156	2760.871	SDMH EAST OUT
1015	26802659.01	735382.043	2765.277	CL 38" SDMH LID
1016	26802659.06	735382.8511	2765.296	CL SDMH
1017	26802646.92	735767.852	2754.063	BC @ EDGE D.I.
1018	26802646.8	735773.663	2754.007	BC @ EDGE D.I.
1019	26802649.58	735771.419	2751.356	SD @ D.I.
1020	26802654.81	735780.4723	2750.47	SDMH SOUTHWEST IN
1021	26802657.1	735778.7031	2751	SDMH WEST IN
1022	26802659.6	735781.1557	2750.73	SDMH NORTH IN
1023	26802657.03	735783.722	2751.23	SDMH EAST OUT
1024	26802656.94	735780.611	2753.531	CL 32" SDMH LID
1025	26802657.11	735781.2208	2753.51	CL SDMH
1026	26802656.54	735942.7496	2746.62	SDMH WEST IN
1027	26802656.67	735947.6051	2744.81	SDMH EAST OUT
1028	26802656.56	735944.515	2748.782	CL 32" SDMH LID
1029	26802656.55	735945.1605	2748.76	CL SDMH
1030	26802657.59	736247.519	2739.854	SD PIPE END
1031	26802651.15	735371.7398	2762.03	SD @ D.I.
1032	26802657.29	735380.7999	2760.91	SDMH SOUTHWEST IN
1033	26802691.35	735772.0974	2751.48	SD STUB



STORM DRAIN FINAL LOCATION MAP
CENTENNIAL / HUALAPAI

LENNAR HOMES

CLARK COUNTY

CITY OF LAS VEGAS

MSQ Surveying

7080 LA CIENEGA STREET, SUITE 200
LAS VEGAS, NEVADA 89119
PHONE: (702) 932-2965
FAX: (702) 932-5599
HTTP://WWW.MSGSURVEYING.COM

DRAWING NAME
CENTENNIAL / HUAL.

JOB NUMBER
001-13-032

SHEET
2 OF 2

CLV DRAWING # 107Y5007

HANSEN # 55125

Memorandum

Department of Public Works
City Engineer Division
Survey Section
333 North Rancho Dr., 8th 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: Jerry A. Cook, PLS
MSG Surveying
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

Date: September 14, 2016

Re: Storm Drain Final Location Map
CENTENNIAL AND HUALAPAI
(Drawing No. 107Y5007, L-Civil No. 55125)

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: September 14, 2016



Signature

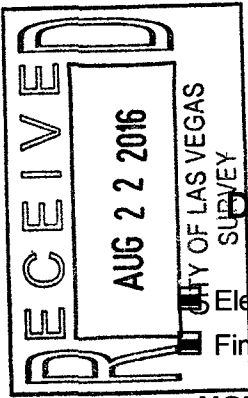
City Surveyor

Title

Public Works/Survey

Department/Division

ARR/OS:js



CITY OF LAS VEGAS
BUILDING AND SAFETY DEPARTMENT

OFFSITE INSPECTION & TESTING
333 NORTH RANCHO DRIVE
LAS VEGAS, NV 89106
PHONE: (702) 229-6337
FAX: (702) 631-3000

DEVELOPER'S SUBMITTAL OF LOCATION COORDINATES

☐ Sewer

☒ Storm Drain

☐ Electronic Comma Delineated File

☒ Final Location Map (2 copies each for either sewer OR storm drain)

NOTE: THE TOP PART OF THIS FORM MUST BE FILLED OUT IN ITS ENTIRETY

PROJECT NAME: CENTENNIAL AND HUALAPAI UNIT: N/A PHASE: N/A

PROJECT LOCATION: CENTENNIAL AND HUALAPAI

CLV PLAN #: 107Y5007 CLV PROJECT # 55125 SHEET NO. (S): 2

OF MANHOLES 5 PUB. SEWER/STORM DRAIN LIN. FT. 1365 # OF PRIVATE LATERALS 1

DEVELOPER: LENNAR HOMES PHONE: 702-458-7700 FAX: 702-458-7708

SURVEY CO.: MSG SURVEYING PHONE: 702-932-2965 FAX: 702-932-5599

CONTRACTOR: PACIFIC PIPELINE PHONE: 702-750-0533 FAX: 702-750-1364

CONTRACTOR'S SUPERVISOR NAME: LUIS FRANCO MOBILE: 702-339-0715

DATE OF REQUEST: 6-30-16

**SUBMIT DIRECTLY TO THE OFFICE OF THE CITY
SURVEYOR LOCATED ON THE 8th FLOOR OF THE
DSC / 333 N Rancho, 89106**

Please get a stamped copy of this form for your records.

CITY USE ONLY

DATE AND INITIALS / RECEIVED BY THE CITY SURVEYOR _____

ACCEPTABLE BY CITY SURVEYOR DATE: 9/14/16 NOT ACCEPTABLE BY CITY SURVEYOR DATE _____

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 9/14/16

THE CITY OF LAS VEGAS RECOMMENDS THAT ALL DEFICIENCIES NOTED ON THE ATTACHED SURVEY REPORT BE CORRECTED PRIOR TO THE FINAL ACCEPTANCE.

Notes: _____

ROUTING:

> Once "ACCEPTABLE"; SURVEY to forward a copy of this form to O.I.T. for the file.

> Final Location Maps to be forwarded to and retained by Flood Control or Sanitation Engineer respectively.



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
STORM DRAIN
FINAL LOCATION MAP

JOB NUMBER H55125 SD1
PROJECT NAME CENTENNIAL AND HUALAPAI
WORK AUTH. NO. P28000
SUBMITTED BY MSG Surveying
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 9/14/16
REVIEWED BY D. SANTANA

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

REVIEW CHECKLIST – STORM DRAIN FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Storm Drain Improvements Data				
*NOTE As of December 1, 2015 manhole cover locations are no longer required.				
Manhole Barrel/Base: (measured horizontally at centerline of barrel/base structure, vertical location does not apply)	☒	☐	☐	
Drop Inlets (measured horizontally at back of curb at each outer extent of box, vertically at top of curb)	☒	☐	☐	
Vaults and Junction Structures (measured horizontally at all outer extents of structure, vertically at top of structure)	☐	☒	☐	TYPE II SDMT EXTENTS.
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)	☒	☐	☐	
*NOTE 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.				
Coordinate Information				
Data acquisition completion date indicated	☒	☐	☐	
Coordinate system indicated (only CLV approved coordinate systems are to be used)	☒	☐	☐	
Horizontal datum, datum adjustment, and epoch date indicated (only CLV approved datums are to be used)	☒	☐	☐	
Benchmark ID, description, elevation indicated	☒	☐	☐	
Statement of positional accuracy per the tolerances indicated below	☒	☐	☐	
*NOTE 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)	☐	☐	☒	

ADDITIONAL COMMENTS