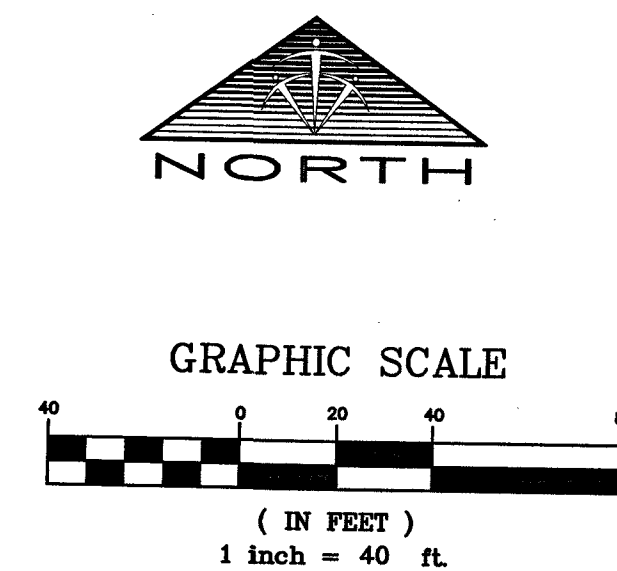
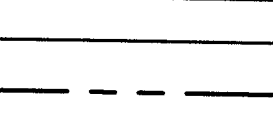




LEGEND

- 
 SUBDIVISION BOUNDARY
 PROPERTY LINE
 RIGHT OF WAY
 CENTERLINE
 STORM DRAIN LINE
 LOT NUMBER
 STORM DRAIN MANHOLE
 AS-BUILT POINT NUMBER
 PRIVATE STREET, PUBLIC UTILITY
 EASEMENT, PUBLIC SEWER EASEMENT, AND
 PUBLIC DRAINAGE EASEMENT

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).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: 5LV09 34NE6

BEING A RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF DESERT
FOOTHILLS AND ALTA DRIVE

ELEVATION: 3304.45 U.S. SURVEY FEET (NAVD '88)
ELEVATION = 1007.197 METERS (NAVD '88)

BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88), CITY OF LAS VEGAS
2008 ADJUSTMENT

NOTES

THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE STORM DRAIN FACILITIES IN ALTURA – PHASE 1, BOOK 149, PAGE 18 OF PLATS, SITUATE IN THE SOUTH HALF (S 1/2) OF SECTION 27 AND THE NORTH HALF (N 1/2) OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON APRIL 1, 2016.

THE POSITIONAL CERTAINTY OF THE AS-BUILT INFORMATION SHOWN HEREON IS WITHIN +/- 0.3' HORIZONTALLY AND VERTICALLY.

SEE SHEETS 5 OF 5 FOR STORM DRAIN COORDINATE TABLE

TRI-CORE SURVEYING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FOR THE CONVENIENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY TRI-CORE SURVEYING IN WRITING IMMEDIATELY.

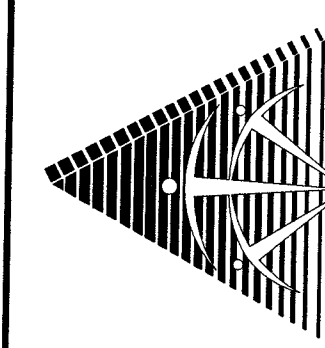
CLV PROJECT H#57695
CLV DRAWING #107Y5024
FMP-57804

[illegible]

TRI-CORE
SURVEYING, LLC

SURVEYING, LLC
LAND SURVEYING • CONSTRUCTION STAKING
MAPPING & LAND DEVELOPMENT SERVICES
BOUNDARY & TOPOGRAPHIC SURVEYS

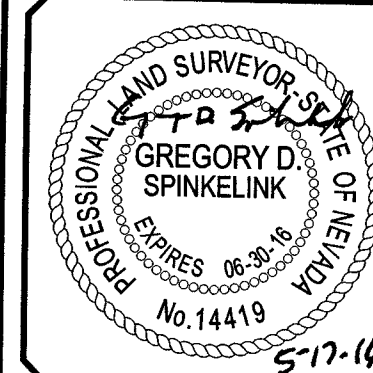
6761 WEST CHARLESTON BLVD.
LAS VEGAS, NEVADA 89146
TEL (702) 821-1554 FAX (702) 870-4378



TOLL SOUTH LV , LLC

SUMMERLIN VILLAGE 23B, PARCEL Q

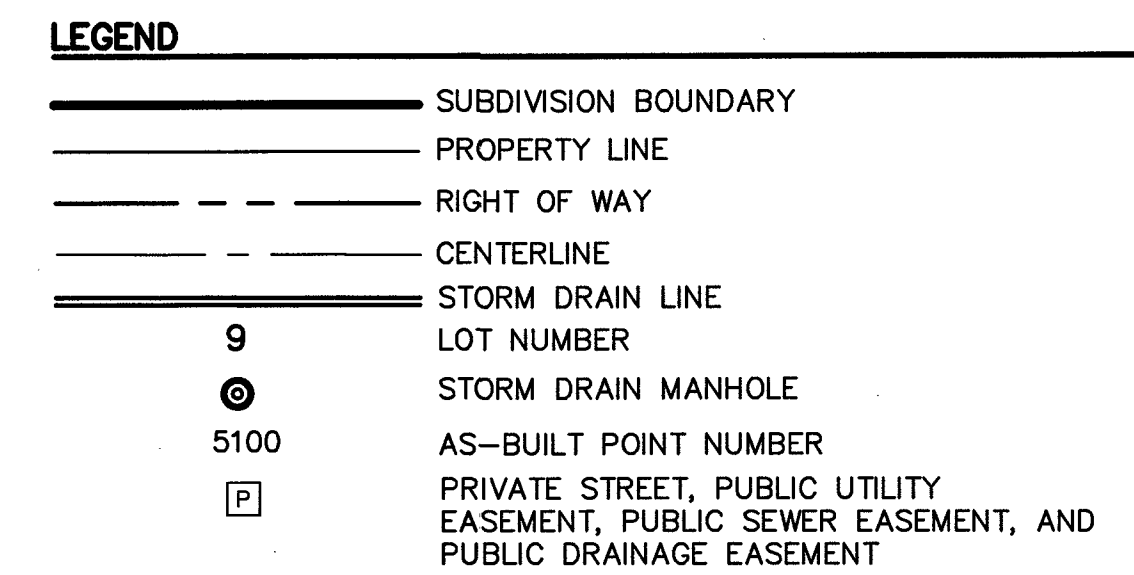
ALTURA - UNIT 1
STORM DRAIN FINAL LOCATION MAP



SHEET

1

OF



MATCHLINE - SEE SHEET 1 OF 4

TOLL SOUTH LV, LLC SUMMERLIN VILLAGE 23B, PARCEL Q ALTURA – UNIT 1 STORM DRAIN FINAL LOCATION MAP		 TEL (702) 821-1554 FAX (702) 870-4378	
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DATE : 5/17/2016	VNO :	DESCRIPTION :	DATE :
PM : INK			
DRAWN BY : RWP			
DESIGNED BY :			
CHECKED BY : GS			
ADA CHECKED :			
JOB NO. : 13015.0002			
SCALE : 40'			

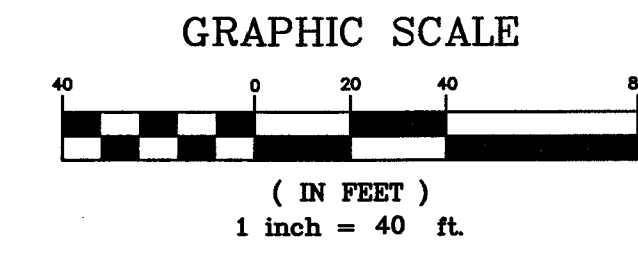
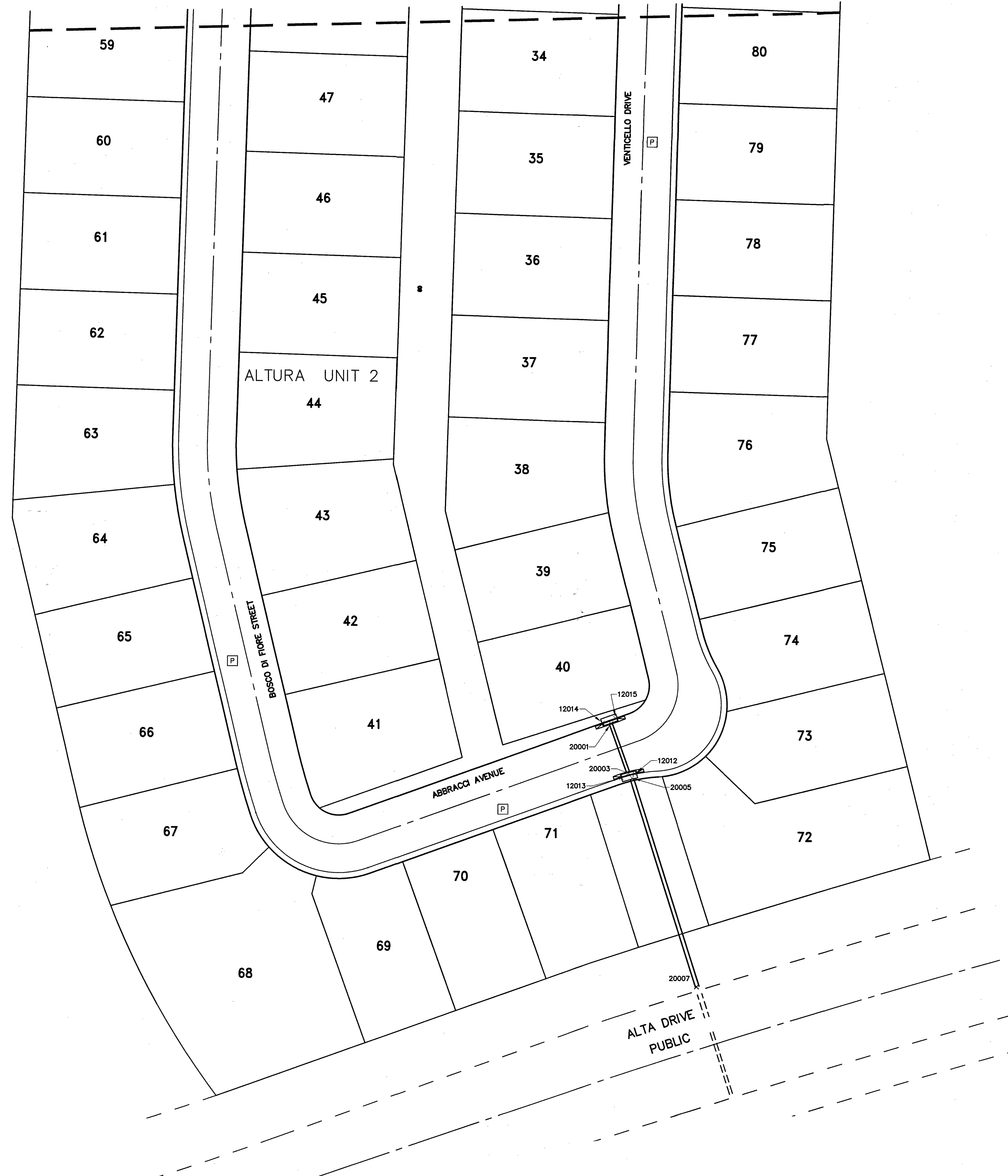
TRI-CORE SURVEYING, LLC LAND SURVEYING - CONSTRUCTION STAKING MAPPING & LAND DEVELOPMENT SERVICES BOUNDARY & TOPOGRAPHIC SURVEYS 6761 WEST CHARLESTON BLVD. LAS VEGAS, NEVADA 89146		Copyright Reserved The copyright and all other rights are reserved for all dimensions, drawings, notes or information contained herein. No part of this publication may be reproduced without prior written permission from Tri-Core Surveying, LLC.
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	5-17-16
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SHEET 2 OF 4	
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P:\13015.0002 Altura Summerlin Village 23B Construction\Asbills\UNIT 1 SEWER & SD ASBILLS\SD\UNIT 1 STORM DRAIN\STORM DRAIN ASBUILT.dwg (popen Tue, 17 May 2016 - 9:55am)

MATCHLINE - SEE SHEET 2 OF 4



LEGEND

- SUBDIVISION BOUNDARY
- PROPERTY LINE
- RIGHT OF WAY
- CENTERLINE
- STORM DRAIN LINE
- LOT NUMBER
- STORM DRAIN MANHOLE
- AS-BUILT POINT NUMBER
- PRIVATE STREET, PUBLIC UTILITY EASEMENT, PUBLIC SEWER EASEMENT, AND PUBLIC DRAINAGE EASEMENT

TOLL SOUTH LV, LLC		SUMMERLIN VILLAGE 23B, PARCEL Q		ALTURA - UNIT 1		STORM DRAIN FINAL LOCATION MAP	
SURVEYING, LLC		LAND SURVEYING - CONSTRUCTION STAKING		BOUNDARY & TOPOGRAPHIC SURVEYS		6761 WEST CHARLESTON BLVD. SUITE 100 NEWPORT NEWS, VA 23601 TEL (702) 821-1554 FAX (702) 870-4378	
DATE : 5/17/2016	IN : RWP	DESIGNED BY : GS	CHECKED BY : GS	ADA CHECKED : 13015.0002	JOB NO. : 13015.0002	SCALE : 40	DATE : 5/17/2016
Copyright Reserved							This drawing is the property of TRI-CORE. Reproduction or use for any purpose other than that authorized by TRI-CORE is prohibited.

CLV PROJECT H#57695
CLV DRAWING #107Y5024
FMP-57804

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

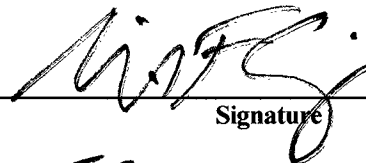
C: Gregory D. Spinkelink, PLS
Tri-Core Surveying
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

Date: June 2, 2016

Re: Storm Drain Final Location Map
ALTURA UNIT 1
(Drawing No. 107Y5024, L-Civil No. 57695)

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:

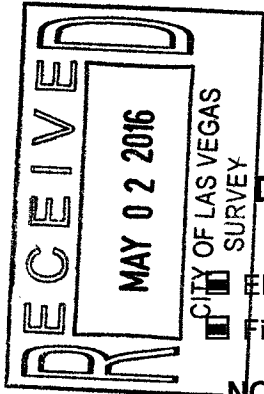
Acceptable: June 2, 2016


Signature

FOR: 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: ALTURA UNIT: 1 PHASE:

PROJECT LOCATION: ALTA & ANTELOPE

CLV PLAN #: 107Y5024 CLV PROJECT # 57695 SHEET NO. (S): 5

OF MANHOLES 2 PUB. SEWER/STORM DRAIN LIN. FT. # OF PRIVATE LATERALS

DEVELOPER: TOLL SOUTH LV PHONE: FAX:

SURVEY CO.: TRI - CORE SURVEYING PHONE: FAX:

CONTRACTOR: PHONE: FAX:

CONTRACTOR'S SUPERVISOR NAME: MOBILE:

DATE OF REQUEST:

**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: 10/2/16 NOT ACCEPTABLE BY CITY SURVEYOR DATE 5/10/16

CLV SURVEYOR'S SIGNATURE: *[Signature]* DATE: 10/2/16

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 H57695 SD2
PROJECT NAME ALTURA UNIT 1
WORK AUTH. NO. P28000
SUBMITTED BY Tri-Core Surveying
PROJECT TYPE CIP ☐ Land Dev ☐ Street Rehab ☐
DATE 6/2/16
REVIEWED BY O. 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)	☒	☐	☐	
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