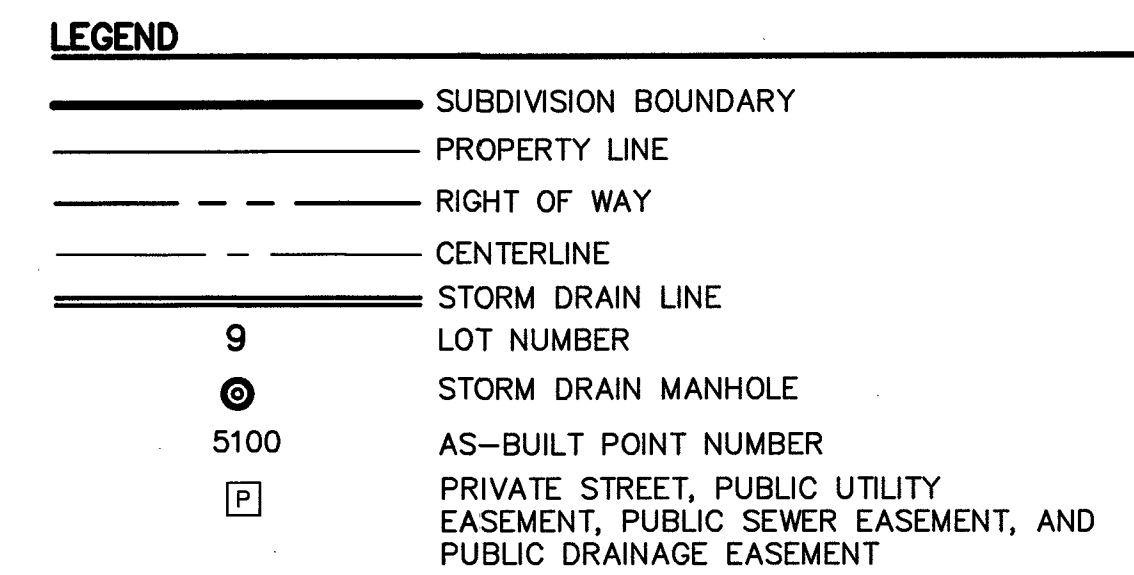




P TRAMONTO

MATCHLINE - SEE SHEET 3 OF 4

MATCHLINE - SEE SHEET 1 OF 4

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

TOLL SOUTH LV, LLC
SUMMERLIN VILLAGE 23B, PARCEL Q
ALTURA - UNIT 1
STORM DRAIN FINAL LOCATION MAP



SHEET
2
OF 4

TRI-CORE
SURVEYING, LLC

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

6781 WEST CHARLESTON BLVD.
LAS VEGAS, NEVADA 89146
TEL (702) 821-1554 FAX (702) 870-4378

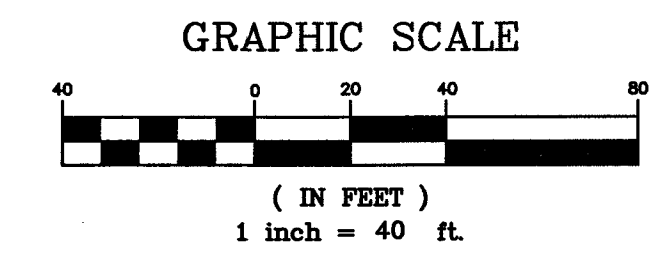
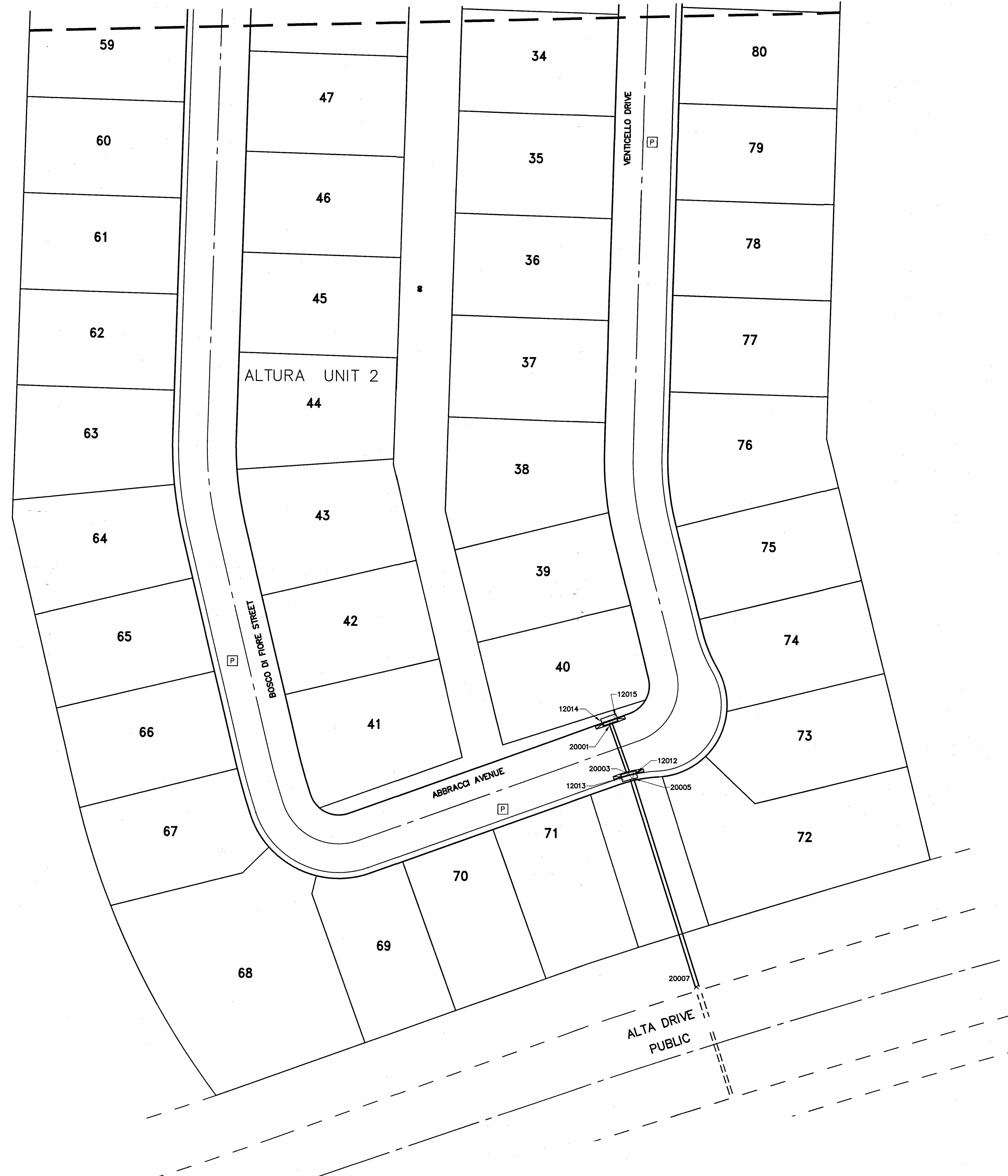
DATE :	5/17/2016
PM :	INK
DRAWN BY :	RWP
DESIGNED BY :	
CHECKED BY :	GS
ADA CHECKED :	
JOB NO. :	13015.0002
SCALE :	40

[illegible]

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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		DRAWN BY : RWP		DESIGNED BY : GS		CHECKED BY : GS	
PM :		ADA CHECKED :		JOB NO. : 13015.0002		SCALE : 40	
NO. DESCRIPTION		DATE		APP'D		This contractor shall verify and be responsible for all dimensions. Do not scale the drawing. Any error or omission is the responsibility of the contractor. Reproduction or use for any purpose other than that authorized by Tri-Core is prohibited.	
9		5100		P		Copyright Reserved	

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

Point Table				
Point #	Grid North	Grid East	Description	Elevation
1272	26765425.70	721757.09	CP3/CURBSCRIBE LOT 17/18	0.00
1306	26765331.27	722511.21	CP4/CURBSCRIBE LOT 117/118	0.00
6000	26765002.84	722295.05	TOP 18" RCP @ DI	3361.03
6005	26765037.93	722354.19	TOP OUTSIDE SDMH	3362.74
6006	26765042.06	722348.76	TOP OUTSIDE SDMH	3362.76
6007	26765047.06	722352.97	TOP OUTSIDE SDMH	3362.94
6008	26765043.71	722358.13	TOP OUTSIDE SDMH	3362.76
6009	26765045.19	722355.11	TOP 18" RCP @ SDMH OUT	3360.06
6010	26765040.38	722351.55	TOP 18" RCP @ SDMH IN	3360.22
6011	26765136.05	722405.92	TOP 18" RCP @ DI	3357.34
6012	26765141.60	722408.67	TOP 18" RCP @ DI	3357.21
6017	26765229.74	722422.41	TOP 24" RCP @ DI OUT	3356.80
6018	26765233.45	722418.43	TOP 18" RCP @ DI IN	3356.49
6027	26765243.83	722489.50	TOP 18" RCP @ DI	3356.47
6028	26765204.94	722462.40	TOP 18" RCP @ SDMH IN	3356.40
6029	26765204.01	722457.68	TOP 24" RCP @ SDMH IN	3356.63
6030	26765199.61	722457.96	TOP 18" RCP @ SDMH IN	3356.37
6031	26765200.05	722463.54	TOP 36" RCP @ SDMH OUT	3356.23
6032	26765201.43	722455.74	TOP OUTSIDE SDMH	3357.30
6033	26765197.33	722461.17	TOP OUTSIDE SDMH	3357.35
6034	26765202.78	722465.85	TOP OUTSIDE SDMH	3357.37
6035	26765206.45	722459.85	TOP OUTSIDE SDMH	3357.35
6036	26765202.03	722460.58	CL SDMH BARREL	3353.18
6504	26765404.39	722158.48	TOP 18" RCP @ DI OUT	3381.51

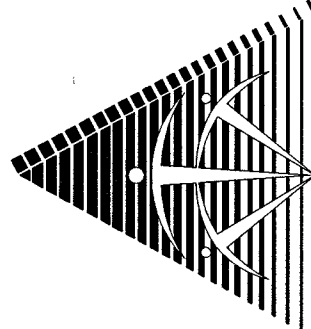
Point Table				
Point #	Grid North	Grid East	Description	Elevation
6505	26765347.98	722207.57	TOP 18" RCP @ DI IN	3380.50
6506	26765344.97	722212.57	TOP 18" RCP @ DI OUT	3380.35
12000	26765405.12	722157.45	TOP BACK CURB @ INSIDE FACE DI	3390.34
12001	26765409.33	722156.15	TOP BACK CURB @ INSIDE FACE DI	3390.20
12002	26765344.16	722208.53	TOP BACK CURB @ INSIDE FACE DI	3390.00
12003	26765347.89	722211.16	TOP BACK CURB @ INSIDE FACE DI	3390.14
12004	26765257.25	722200.91	TOP BACK CURB @ INSIDE FACE DI	3364.18
12005	26765244.92	722489.60	TOP BACK CURB @ INSIDE FACE DI	3363.91
12006	26765234.08	722422.79	TOP BACK CURB @ INSIDE FACE DI	3363.33
12007	26765229.13	722417.99	TOP BACK CURB @ INSIDE FACE DI	3363.37
12008	26765141.25	722407.36	TOP BACK CURB @ INSIDE FACE DI	3364.65
12009	26765137.19	722405.41	TOP BACK CURB @ INSIDE FACE DI	3364.83
12010	26764999.15	722293.49	TOP BACK CURB @ INSIDE FACE DI	3369.35
12011	26765013.11	722279.94	TOP BACK CURB @ INSIDE FACE DI	3370.14
12012	26763986.33	722274.15	TOP BACK CURB @ INSIDE FACE DI	3343.36
12013	26763983.59	722265.10	TOP BACK CURB @ INSIDE FACE DI	3343.49
12014	26764020.69	722252.34	TOP BACK CURB @ INSIDE FACE DI	3343.55
12015	26764023.83	722261.24	TOP BACK CURB @ INSIDE FACE DI	3343.47
12016	26765042.63	722353.11	CL SDMH BARREL	3358.41
20001	26764020.30	722258.02	TOP 24" RCP @ DI	3340.88
20003	26763986.74	722269.88	TOP 24" RCP @ DI	3337.38
20005	26763983.51	722272.32	TOP 30" RCP @ DI	3337.79
20007	26763842.32	722316.38	TOP 30" RCP @ EX DI	3334.07

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

TOLL SOUTH LV, LLC

SUMMERLIN VILLAGE 23B, PARCEL Q

ALTURA - UNIT 1
STORM DRAIN FINAL LOCATION MAP



TRI-CORE
SURVEYING, LLC

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L (702) 821-1554 FAX (702) 870-4378



SHEET

4

OF

DATE :	5/17/2016
NAME :	INK
DRAWN BY :	RWP
DESIGNED BY :	
CHECKED BY :	GS
DATA CHECKED :	
JOB NO. :	13015.0002

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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

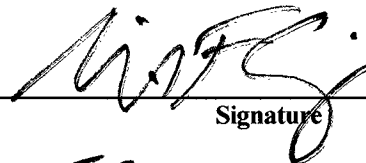
C: Gregory D. Spinkelink, PLS
Tri-Core Surveying
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

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:

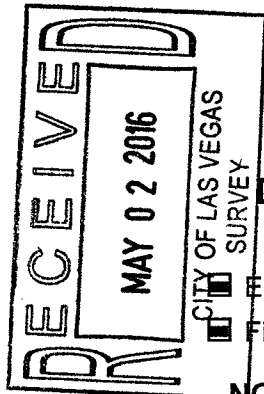
Acceptable: June 2, 2016


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