

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: Lance M. West, PLS
Wallace Morris Kline Surveying

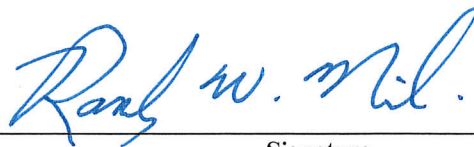
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

Date: February 14, 2018

Re: Storm Drain Final Location Map
VILLAGE 24 US WATERS COS-2 WASH IMPROVEMENTS
(Drawing No. 107Y6769, L-Civil No. 68365)

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: February 14, 2018



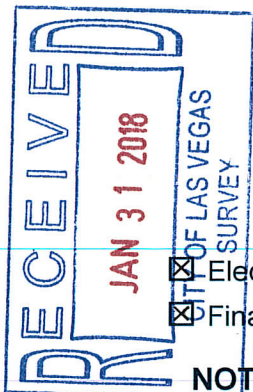
Signature

For: City Surveyor

Title

Public Works/Survey

Department/Division



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) 363-1051

DEVELOPER'S SUBMITTAL OF GPS COORDINATES

☐ Sewer

☒ Storm Drain

☒ Electronic Comma Delineated File

☒ Final Location Map (2)

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

PROJECT NAME: VILLAGE 24 COS 2 WASH UNIT: N/A PHASE:

PROJECT LOCATION: CROSSBRIDGE DRIVE AND SKY VISTA DRIVE

CLV PLAN #: 68365 CLV PROJECT #: 107Y6769 SHEET NO. (S): 1

OF MANHOLES 0 PUB. SEWER/STORM DRAIN LIN. FT. 210 # OF PRIVATE LATERALS 0

DEVELOPER: THE HOWARD HUGES COMPANY PHONE: 702-791-4300 FAX:

SURVEY CO.: WALLACE MORRIS KLINE PHONE: 702-212-3967 FAX:

CONTRACTOR: WESTERN STATES PHONE: 702-644-1117 FAX:

CONTRACTOR'S SUPERVISOR NAME: FAUSTINO GUERRAS MOBILE: 702-204-9827

DATE OF REQUEST: 01/30/18

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name WALLACE MORRIS KLINE Surveyor Name LANCE WEST

License # 18232 License exp. Date: 6/30/18

CITY USE ONLY

DATE SR. INSPECTOR RECEIVED: SR. INSPECTOR INITIALS:

DATE RECEIVED FROM SR. INSPECTOR AND SENT TO CITY SURVEYOR:

ACCEPTABLE BY CITY SURVEYOR DATE: 2/14/18 NOT ACCEPTABLE BY CITY SURVEYOR DATE

CLV SURVEYOR'S SIGNATURE: *Ras W. Malt* DATE: 2/14/18

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

For Sanitary Sewer To Complete and Return to Offsite Inspection & Testing:

RECEIVED BY:
(PLEASE PRINT)

SIGNATURE: DATE:

For Flood Control To Complete and Return to Offsite Inspection & Testing:

RECEIVED BY:
(PLEASE PRINT)

SIGNATURE: DATE:



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
STORM DRAIN
FINAL LOCATION MAP

JOB NUMBER 68365 SD1
PROJECT NAME VILLAGE 24 US WATERS COS-2 WASH IMPROVEMENTS
WORK AUTH. NO. P28000
SUBMITTED BY Wallace Morris Kline(Lance M. West)
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 2/13/18
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)	☒	☐	☐	

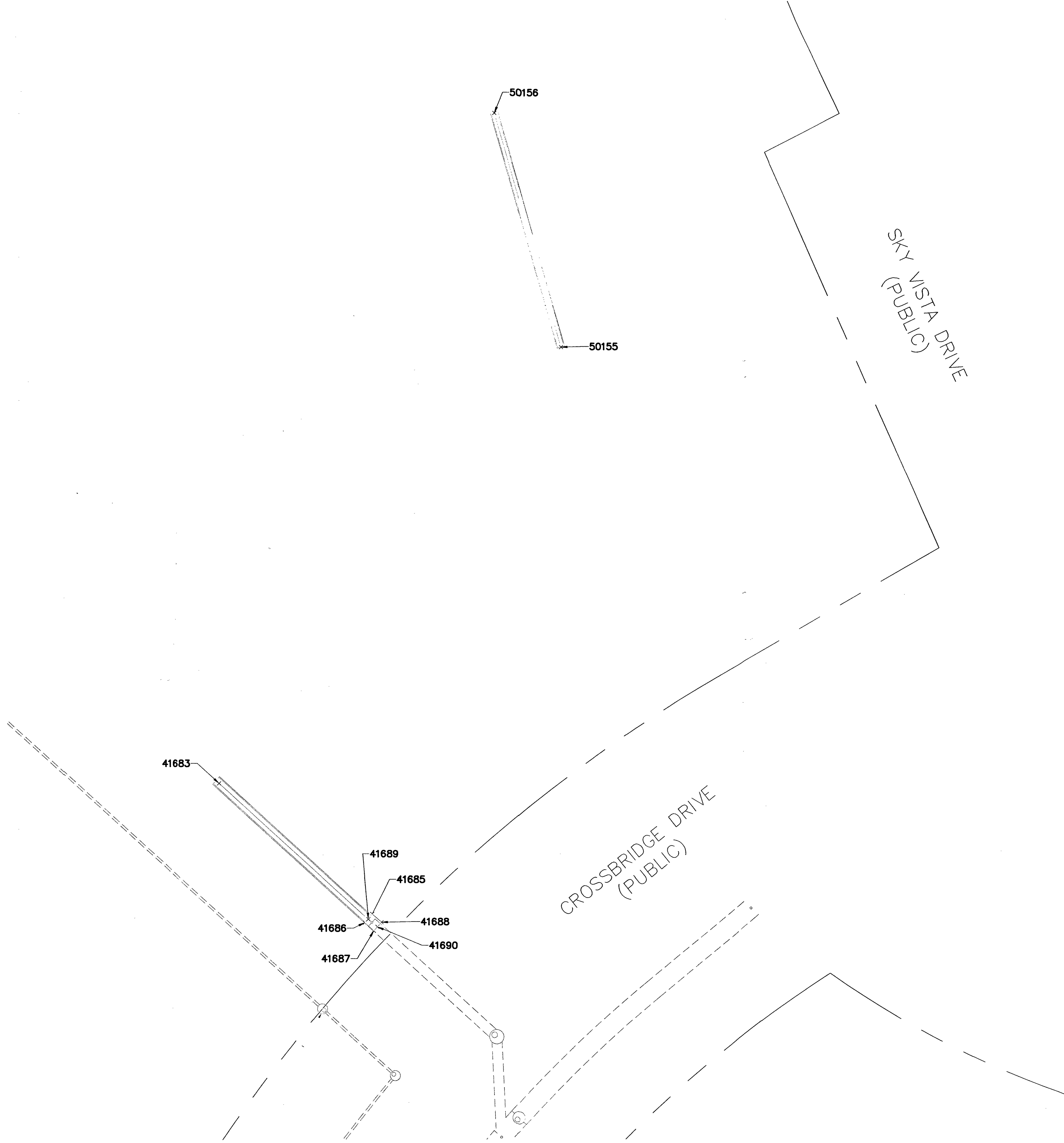
REVIEW CHECKLIST – STORM DRAIN FINAL LOCATION MAP

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)	☐	☐	☒	
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

STORM DRAIN FINAL LOCATION MAP FOR
VILLAGE 24 COS 2 WASH IMPROVEMENT PLANS

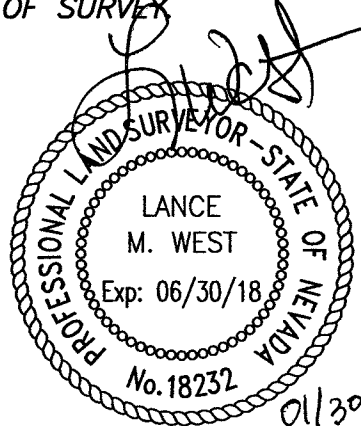
BEING A SUBDIVISION OF PARCEL 4, LYING WITHIN SECTIONS 14 THRU 17, 20 THRU 23, 26 THRU 29, AND 32 THRU 34,
TOWNSHIP 20 SOUTH, RANGE 59 EAST, AND SECTIONS 3 AND 4, TOWNSHIP 21 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA



SURVEYOR'S STATEMENT

- 1) SURVEY WAS COMPLETED ON JANUARY 25, 2018.
- 2) THE POSITIONAL CERTAINTY FOR THIS SURVEY IS 0.3' HORIZONTAL AND 0.3' VERTICAL BASED ON NAD83(2011), EPOCH 2010.00
- 3) THE POSITIONAL CERTAINTY STATED DOES NOT TAKE INTO ACCOUNT ANY MODIFICATIONS TO THE PIPE, MANHOLES OR LATERALS COMPLETED AFTER THE DATE OF SURVEY

LANCE M. WEST
PROFESSIONAL LAND SURVEYOR
NEVADA LICENSE NO. 18232



BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

ZONE: LAS VEGAS ZONE

DATUM (REFERENCE FRAME): NAD 1983(2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR

STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N

LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W

NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET US)

EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)

SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION.
2. GRID BEARING SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARING DUE TO MERIDIAN CONVERGENCE.

BENCHMARK

D368 -- BEING A U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN.

3246.63 US SURVEY FEET

989.574 METERS

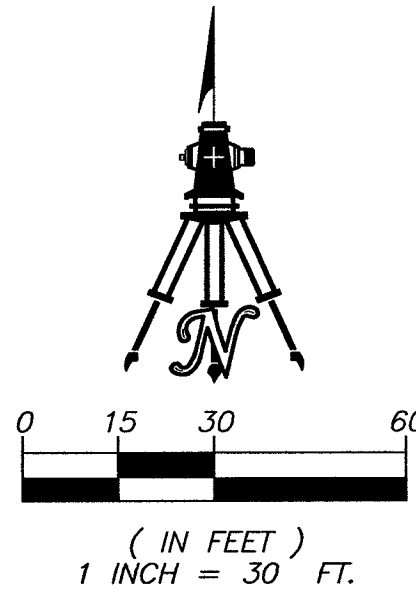
N.A.V.D. 88 DATUM

NOTES

- 1) SEE ELECTRONIC FILE "COS 2-SD-PNTS-NCRS.TXT" FOR COORDINATES.

LEGEND

-----	RIGHT-OF-WAY LINE	CL BARREL	CENTER OF MANHOLE BARREL
-----	STREET CENTERLINE		
-----	STORM DRAIN	PIPE-TOP	SHOT TAKEN ON TOP OF PIPE
x	POINT LOCATION		
23118	POINT NUMBER		



H# 68365
CLV DWG 107Y6769

STORM DRAIN FINAL LOCATION MAP
VILLAGE 24 COS 2 WASH IMPROVEMENT PLANS
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PH:702.212.3967 FX:702.212.3963