

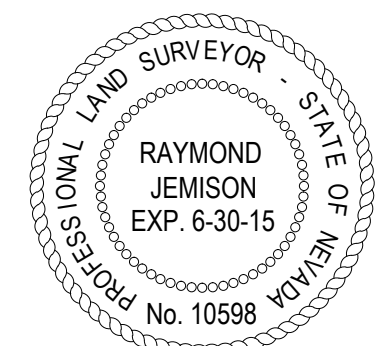
POINT	NORTH	EAST	ELEVATION	DESCRIPTION
80012	26764022.134	723071.603	3314.269	SD-LID
80015	26763969.306	722863.111	3321.433	SD-LID
80017	26763889.012	722554.531	3332.932	SD-LID
80020	26763818.273	722315.413	3342.089	SD-LID
80022	26763687.158	721934.180	3357.118	SD-LID
80024	26763621.814	721645.448	3368.095	SD-LID
80027	26763601.553	721245.559	3383.057	SD-LID
80030	26763633.674	720859.479	3395.991	SD-LID
80032	26763666.592	720840.190	3397.259	SD-LID
85050	26764045.070	723077.683	3314.040	di@bc
85051	26764047.750	723088.136	3313.765	di@bc
85052	26764043.420	723079.816	3307.098	di@inv
85053	26763988.400	722865.247	3308.828	di@inv
85054	26763989.960	722863.018	3321.017	di@bc
85055	26763992.050	722871.062	3320.734	di@bc
85056	26763916.530	722881.947	3320.833	di@bc
85057	26763918.620	722889.984	3320.665	di@bc
85058	26763919.100	722883.203	3313.001	di@inv
85059	26763837.882	722317.453	3330.849	di@inv
85060	26763838.550	722312.492	3341.972	di@bc
85061	26763841.000	722320.429	3341.587	di@bc
85062	26763768.960	722344.733	3341.546	di@bc
85063	26763766.520	722336.848	3341.837	di@bc
85064	26763769.040	722337.909	3331.010	di@inv
85065	26763636.430	721586.381	3370.141	di@bc
85066	26763637.300	721594.534	3369.823	di@bc
85067	26763634.610	721588.344	3360.279	di@inv
85068	26763566.270	721596.319	3358.147	di@inv
85069	26763563.870	721594.809	3370.287	di@bc
85070	26763565.280	721602.977	3369.976	di@bc
85071	26763621.480	721250.667	3382.773	di@bc
85072	26763621.220	721258.950	3382.435	di@bc
85073	26763619.380	721252.425	3371.309	di@inv
85074	26763547.480	721250.600	3370.703	di@inv
80116	26763841.874	722316.092	3352.909	CLPIPE@BACK
85080	26763715.000	720813.199	3386.130	di@inv
85081	26763711.160	720810.326	3398.917	di@bc
85082	26763717.190	720811.564	3398.931	di@bc
86011	26764021.170	723071.883	0.000	CL-BAR
86012	26764018.312	723072.795	0.000	CL-RCB
86013	26763968.354	722863.405	0.000	CL-BAR
86014	26763965.448	722864.153	0.000	CL-RCB
86015	26763888.050	722554.810	0.000	CL-BAR
86016	26763885.157	722555.604	0.000	CL-RCB
86017	26763817.318	722315.717	0.000	CL-BAR
86018	26763814.460	722316.631	0.000	CL-RCB

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
86019	26763685.724	721934.612	0.000	CL-BAR
86020	26763683.330	721935.333	0.000	CL-RCB
86021	26763620.822	721645.602	0.000	CL-BAR
86022	26763617.858	721646.062	0.000	CL-RCB
86023	26763600.551	721245.526	0.000	CL-BAR
86024	26763597.552	721245.427	0.000	CL-RCB
86025	26763634.662	720859.606	0.000	CL-BAR
86026	26763637.638	720859.987	0.000	CL-RCB
86027	26763666.136	720841.620	0.000	CL-BAR
86028	26763668.066	720840.457	0.000	CL-RCB

SURVEYOR'S CERTIFICATE
 I, RAYMOND C. JEMISON, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, CERTIFY THAT:

- THE POSITIONAL CERTAINTIES OF THE AS-BUILT DATA SHOWN ARE WITHIN ±0.10(M) OR ±0.3(USFT) HORIZONTALLY AND VERTICALLY.
- THIS AS-BUILT SURVEY WAS COMPLETED UNDER MY DIRECT SUPERVISION ON MAY 20, 2014.

RAYMOND C. JEMISON
 NEVADA P.L.S. 10598



BASIS OF BEARING:
 GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE (2701), DETERMINED BY CLARK COUNTY GIS CONTROL UTILIZING THE TRIMBLE VRS NETWORK.

BENCHMARK:
 RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE.
 CLV BM NO. 5LV09 34NE6
 NAVD 88 DATUM - 3304.45 (FT) 1007.197 (M)
 2008 CLV ADJUSTMENT

NOTES:
 1. ALL CENTERLINE BARREL LOCATIONS AND CENTERLINE RCB LOCATIONS ARE APPROXIMATE AND WERE DERIVED FROM VISUAL INSPECTION THROUGH THE MANHOLE RIM. ACCESS TO ACTUAL CENTERLINE OF BARREL AND CENTERLINE OF RCB WAS NOT OBTAINED DUE TO CONFINED SPACE.
 2. LOCATIONS SHOWN ARE NORTH AMERICAN DATUM 1983 NEVADA STATE PLANE COORDINATE SYSTEM 2701 EAST ZONE, CORS96, EPOCH2002.

VILLAGE 23A/23B
 ALTA DRIVE
 IMPROVEMENTS
 FOX HILL DRIVE TO
 DESERT FOOTHILLS DRIVE
 H#47511
 CLV# 107V5922

05/20/14

RED LINE REVISIONS PER CLV PUBLIC WORKS

1

SCALE (H):

SCALE (V):

DRAWN BY: RPS/DP

CHECKED BY:

SEC. T. S. R. E

DATE: 4-24-2014

JEMISON SURVEYING & SERVICES
 2800 CRIMSON CANYON DRIVE
 LAS VEGAS, NEVADA 89128
 702-360-4838 / 702-360-4839

JSS
JEMISON SURVEYING & SERVICES

ALTA DRIVE
 STORM DRAIN
 FINAL LOCATION MAP
 H#47511-SD1

JOB TITLE

DATE: 05/21/2014

JOB NO.

SHEET 1 OF 1

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: Chris Knight, Director
Building and Safety Department

From: Alan R. Riecki, PLS
City Surveyor

C: Raymond Jemison, PLS
Jemison Surveying Services

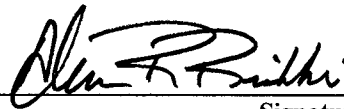
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section, Engineering Planning

Date: June 10, 2014

Re: Storm Drain Final Location Map
SV 23A/23B Alta Drive Improvements
(Drawing No. 107V5922, L-Civil No. 47511)

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: 6/10/2014



Signature

City Surveyor

Title

Public Works/Survey

Department/Division

ARR/OS:sk

NAD83(2011) EPOCH 2010.0?

✱

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 23 A/B Alta Drive UNIT: _____ PHASE: _____
PROJECT LOCATION: _____
CLV PLAN #: ~~49476~~ 107V5922 CLV PROJECT # 47511 SHEET NO. (S): _____
OF MANHOLES _____ PUB. SEWER/STORM DRAIN LIN. FT. _____ # OF PRIVATE LATERALS _____
DEVELOPER: Howard Hughes Corp. PHONE: 702-791-4000 FAX: 702-791-4450
SURVEY CO.: Jemison Surveying PHONE: 702-360-4838 FAX: 702-360-4839
CONTRACTOR: TAB Contractors PHONE: 702-642-3033 FAX: 702-642-9936
CONTRACTOR'S SUPERVISOR NAME: Brandon Stott MOBILE: _____
DATE OF REQUEST: _____

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name Jemison Surveying Surveyor Name Ray Jemison
License # PLS# 10598 License exp. Date: 6/30/15

RECEIVED
MAY 05 2014
OFFSITE INSPECTION & TESTING

CITY USE ONLY

DATE SR. INSPECTOR RECEIVED: 5/5/14 SR. INSPECTOR INITIALS: _____
DATE RECEIVED FROM SR. INSPECTOR AND SENT TO CITY SURVEYOR: _____

ACCEPTABLE BY CITY SURVEYOR DATE: 6/10/14 NOT ACCEPTABLE BY CITY SURVEYOR DATE 5/15/15

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 6-10-14

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)

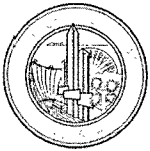
SIGNATURE: _____ DATE: _____

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

RECEIVED BY: _____
(PLEASE PRINT)

SIGNATURE: _____ DATE: _____

RECEIVED
MAY 01 2014
City of Las Vegas
and Development



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
STORM DRAIN
FINAL LOCATION MAP

JOB NUMBER 47511-SD2
PROJECT NAME Alta Drive Improvements
WORK AUTH. NO. P68000
SURVEY FIRM Jernism Surveying
PROJECT TYPE CIP Land Dev Street Rehab
DATE 10/10/14
REVIEWED BY O. SANTANA

REVIEW DETERMINATION

- Approved
- Not Acceptable

TO BE RE-SUBMITTED

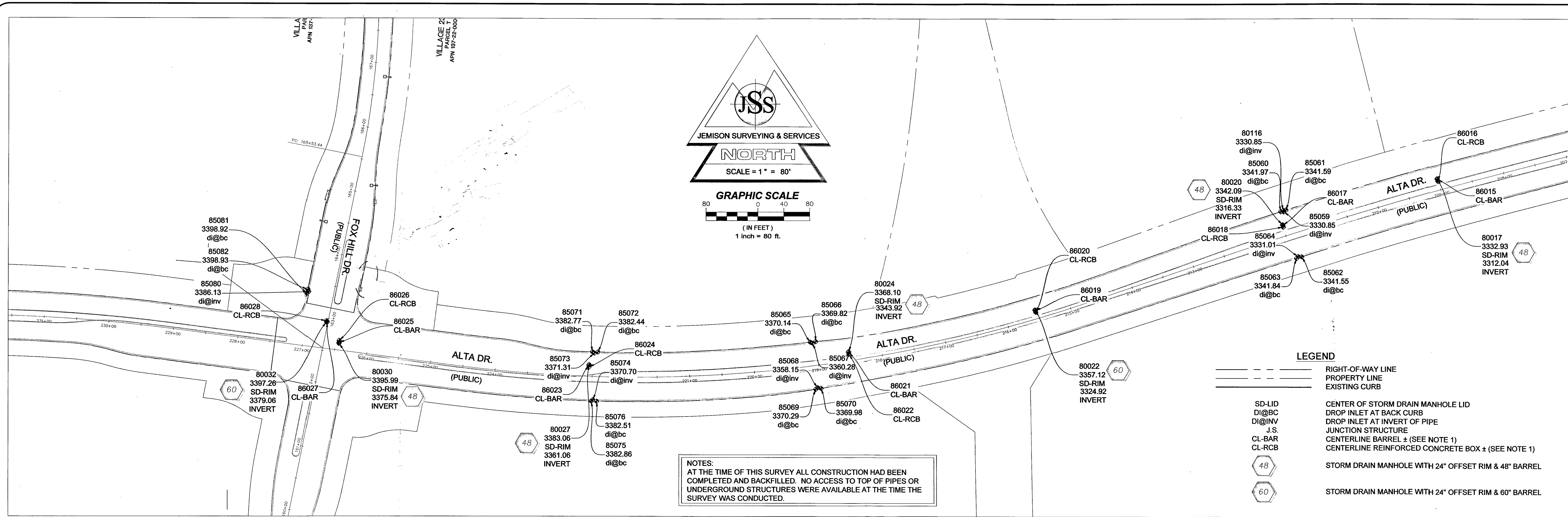
- Two bond copies (no mylar)
- Electronic media with comma-separated coordinate file

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Submittal Contents				
Two bond copies (no mylar)	<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"/>	
General Map Contents				
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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CLV Drawing No. shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Survey firm'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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

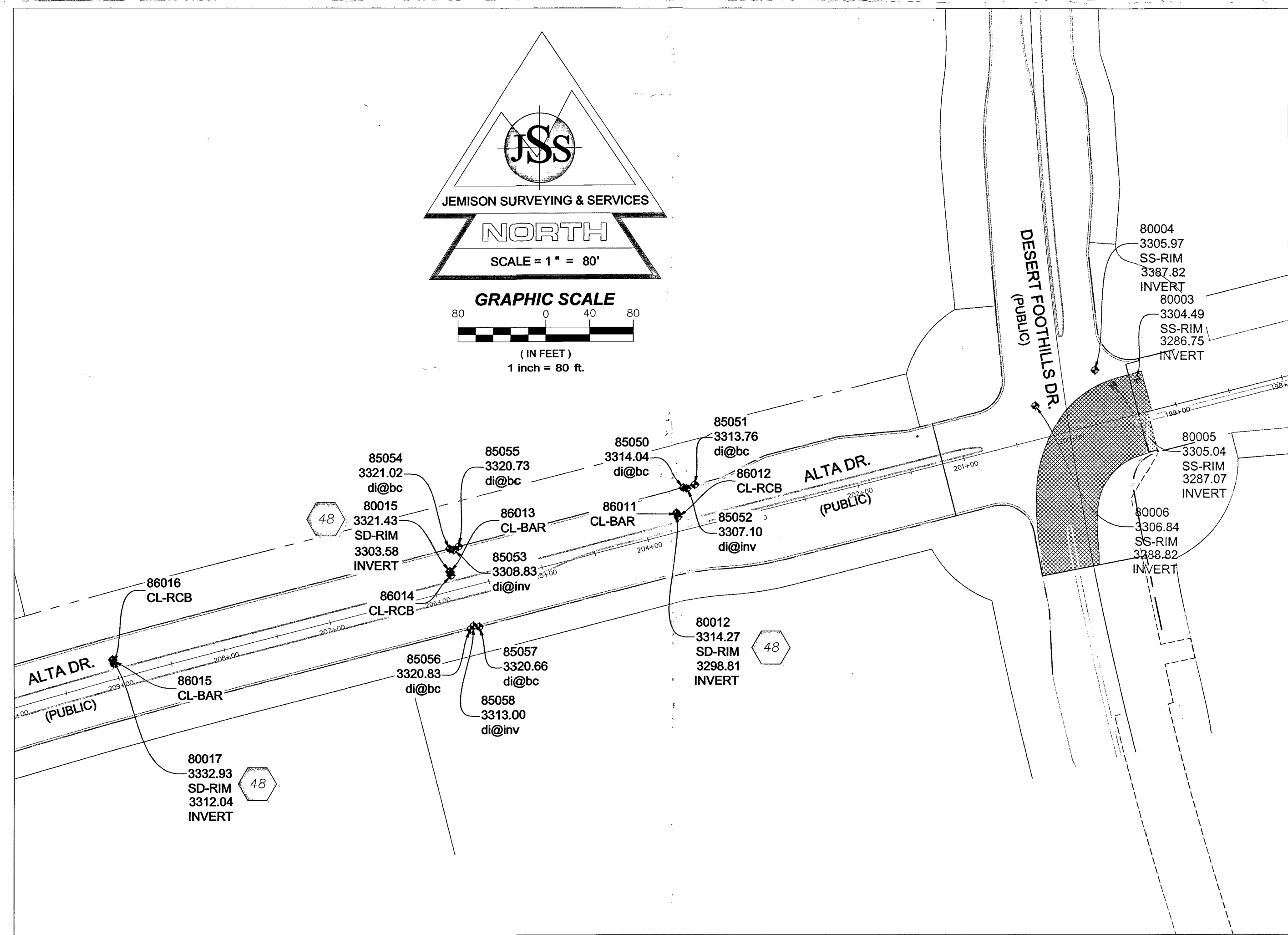
REVIEW CHECKLIST – STORM DRAIN FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Storm Drain Improvements Data				
Manhole Lids: (measured horizontally at centerline of lid, vertically at rim; specify diameter of lid)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
*NOTE In the case of a two-piece lid system locate outer lid only (specify diameter of outer lid).				
Manhole Barrel: (measured horizontally at centerline of barrel structure, vertical location does not apply)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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, points of termination (stubs), point at which pipe exits the public right-of-way or easement (measured horizontally at centerline of pipe/RCB, vertically at top of pipe/RCB)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	WAIVED
*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.				
Survey Information				
Survey completion date indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Statement of positional certainty (0.3' horizontally, 0.3' vertically)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Surveyor's seal (validated and current)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Basis of bearings and coordinate system indicated (only CLV approved coordinate systems are to be used, basis of bearings must agree with coordinate system 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 and CLV adjustment indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
*NOTE Only benchmarks and benchmark elevations included in the most recent CLV Vertical Control Network adjustment are to be used, this may require using a different benchmark or benchmark elevation than shown on the improvement plans.				
Survey accuracy QA/QC (when available)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL COMMENTS



NOTES:
 AT THE TIME OF THIS SURVEY ALL CONSTRUCTION HAD BEEN COMPLETED AND BACKFILLED. NO ACCESS TO TOP OF PIPES OR UNDERGROUND STRUCTURES WERE AVAILABLE AT THE TIME THE SURVEY WAS CONDUCTED.



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80012	26764022.134	723071.603	3314.269	SD-LID
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86015	26763888.050	722554.810	0.000	CL-BAR
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86023	26763600.551	721245.526	0.000	CL-BAR
86024	26763597.552	721245.427	0.000	CL-RCB
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 RAYMOND C. JEMISON
 NEVADA P.L.S. 10598

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VILLAGE 23A/23B
 ALTA DRIVE
 IMPROVEMENTS
 FOX HILL DRIVE TO
 DESERT FOOTHILLS DRIVE
 H#47511
 CLV# 107V5922

05/20/14

RED LINE REVISIONS PER CLV PUBLIC WORKS

1				
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SCALE (H):
 SCALE (V):
 DRAWN BY: RFS/DP
 CHECKED BY:
 SEC. T. S. R. E.

DATE: 4-24-2014

JEMISON SURVEYING & SERVICES
 2690 CRIMSON CANYON DRIVE
 LAS VEGAS, NEVADA, 89128
 702-360-4639 F. 702-360-4639

JEMISON SURVEYING & SERVICES

ALTA DRIVE
 STORM DRAIN
 FINAL LOCATION MAP
 H#47511-SD1

JOB TITLE
 DATE: 05/21/2014
 JOB NO.
 SHEET 1 OF 1