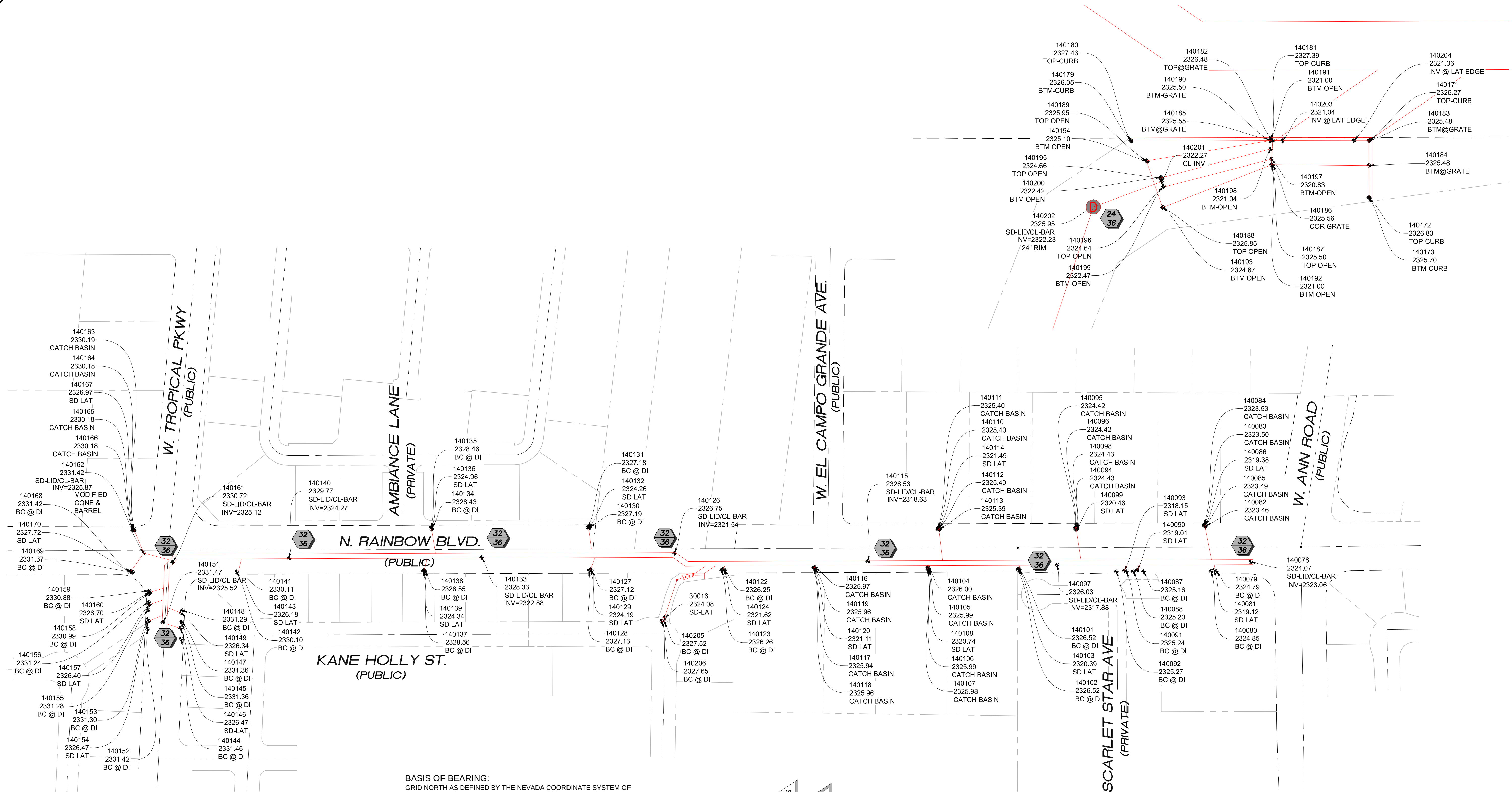




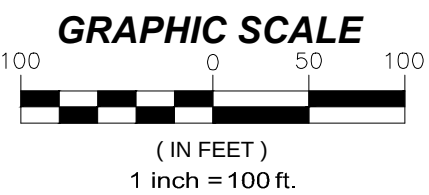
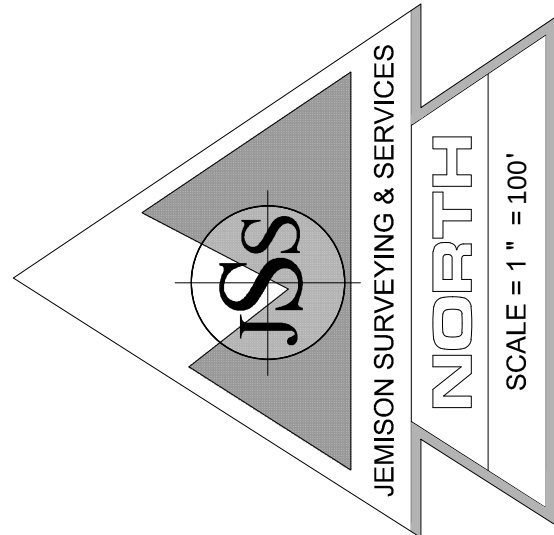
- LEGEND**
- CENTERLINE
 - RIGHT-OF-WAY LINE
 - LOT/PARCEL LINES SHOWN FOR REFERENCE ONLY
 - PREVIOUSLY EXISTING STORM DRAIN
 - NEW STORM DRAIN LINE
 - SD-LID
CL-BAR
SD-LAT
BTM@GRATE
 - CENTER OF STORM DRAIN MANHOLE LID
CENTERLINE BARREL ± (SEE NOTE 1)
INVERT AT STORM DRAIN LATERAL
TOP OF CONCRETE BELOW GRATE
 - INDICATES SIZE OF STORM DRAIN MANHOLE OVER
SIZE OF OFFSET BARREL

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.

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.

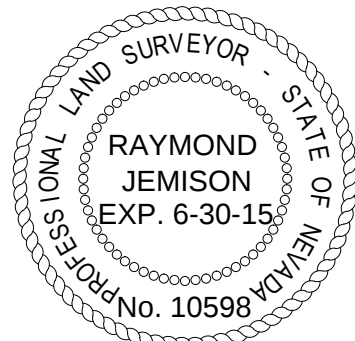
BENCHMARK:
CITY OF LAS VEGAS BM 0LV90 27SEE6
RIVET AND ROUND PLATE IN TOP OF CURB, WEST SIDE OF RAINBOW BLVD. ±200' NORTH OF EL CAMPO GRANDE AVE.
NAVD 88 DATUM - 2326.07 (FT) 708.996 (M)
ADJUSTMENT - 2008 CLV

- NOTES:**
- ALL CENTERLINE BARREL LOCATIONS ARE APPROXIMATE AND WERE DERIVED FROM VISUAL INSPECTION THROUGH THE MANHOLE RIM. ACCESS TO ACTUAL CENTERLINE OF BARREL WAS NOT OBTAINED DUE TO CONFINED SPACE.
 - LOCATIONS SHOWN ARE NORTH AMERICAN DATUM 1983 (NAD83), NEVADA STATE PLANE COORDINATE SYSTEM, 2701 EAST ZONE, NATIONAL ADJUSTMENT OF 2011, EPOCH 2010.0.



- 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 OCTOBER 07, 2014.

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



**ANN ROAD CHANNEL
WEST - RAINBOW
BOULEVARD**

H# 36801
CLV# 731-88

SCALE (H):	1" = 100'
SCALE (V):	
DRAWN BY:	RPS
CHECKED BY:	
SEC.	T. S. R. E.

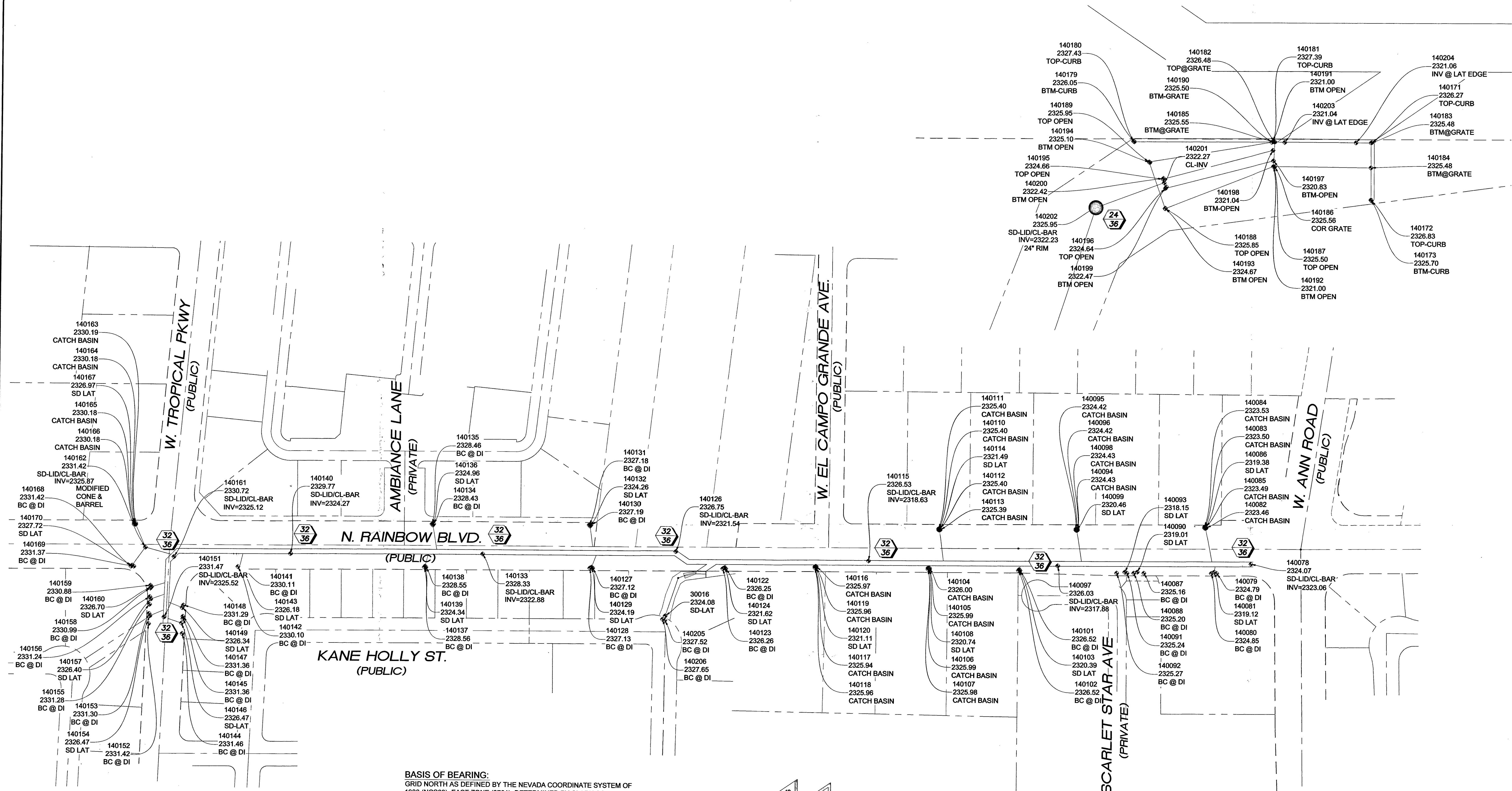
DATE:

JEMISON SURVEYING & SERVICES
2008 CHANSON CANYON DRIVE
LAS VEGAS, NEVADA 89128
702-360-4838 F. 702-360-4839

JSS

JEMISON SURVEYING & SERVICES

JOB TITLE	ANN ROAD CHANNEL WEST STORM DRAIN FINAL LOCATION MAP
DATE	12-30-2014
JOB NO.	253-140205
SHEET	1 OF 1



LEGEND

CENTERLINE
RIGHT-OF-WAY LINE
LOT/PARCEL LINES SHOWN FOR REFERENCE ONLY
PREVIOUSLY EXISTING STORM DRAIN
NEW STORM DRAIN LINE

SD-LID
CL-BAR
SD-LAT
BTM@GRATE

CENTER OF STORM DRAIN MANHOLE LID
CENTERLINE BARREL ± (SEE NOTE 1)
INVERT AT STORM DRAIN LATERAL
TOP OF CONCRETE BELOW GRATE

32
36

INDICATES SIZE OF STORM DRAIN MANHOLE OVER
SIZE OF OFFSET BARREL

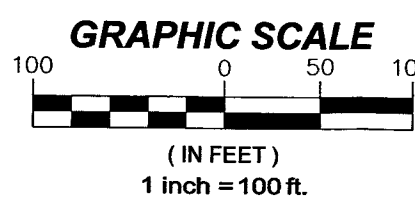
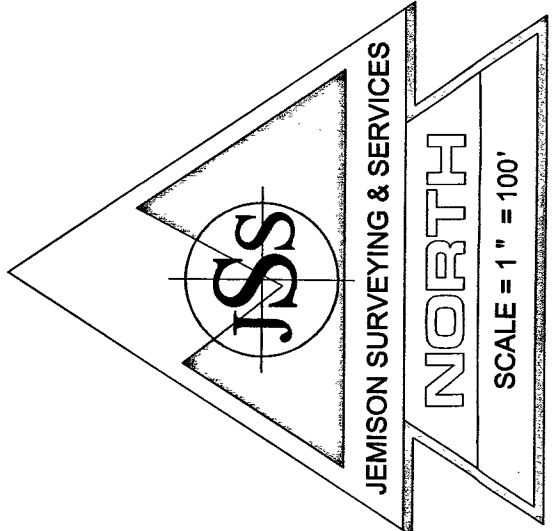
NOTES:
AT THE TIME OF THIS SURVEY ALL CONSTRUCTION HAD BEEN
COMPLETED AND BACKFILLED. NO ACCESS TO TOP OF PIPES OR
UNDERGROUND STRUCTURES WERE AVAILABLE AT THE TIME THE
SURVEY WAS CONDUCTED.

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:
CITY OF LAS VEGAS BM 0LV90 27SE66
RIVET AND ROUND PLATE IN TOP OF CURB, WEST SIDE OF RAINBOW
BLVD. -220' NORTH OF EL CAMPO GRANDE AVE.
NAVD 88 DATUM - 2326.07 (FT) 708.986 (M)
ADJUSTMENT - 2008 CLV

NOTES:
1. ALL CENTERLINE BARREL LOCATIONS ARE APPROXIMATE AND
WERE DERIVED FROM VISUAL INSPECTION THROUGH THE MANHOLE
RIM. ACCESS TO ACTUAL CENTERLINE OF BARREL WAS NOT
OBTAINED DUE TO CONFINED SPACE.

2. LOCATIONS SHOWN ARE NORTH AMERICAN DATUM 1983 (NAD83),
NEVADA STATE PLANE COORDINATE SYSTEM, 2701 EAST ZONE,
NATIONAL ADJUSTMENT OF 2011, EPOCH 2010.0.

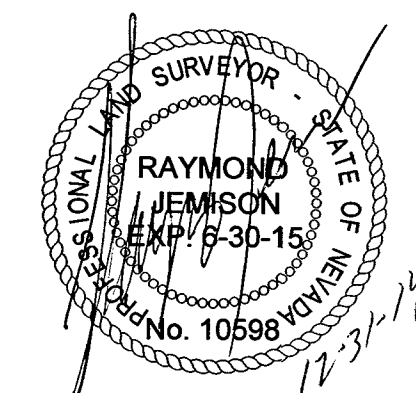


SURVEYOR'S CERTIFICATE
I, RAYMOND C. JEMISON, A PROFESSIONAL LAND SURVEYOR
REGISTERED IN THE STATE OF NEVADA, CERTIFY THAT,

1. THE POSITIONAL CERTAINITIES OF THE AS-BUILT DATA SHOWN
ARE WITHIN ±0.10(M) OR ±0.3(USFT) HORIZONTALLY AND VERTICALLY.

2. THIS AS-BUILT SURVEY WAS COMPLETED UNDER MY DIRECT
SUPERVISION ON OCTOBER 07, 2014.

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



ANN ROAD CHANNEL
WEST - RAINBOW
BOULEVARD

H# 36801
CLV# 731-88

DATE	12-30-2014
JOB NO.	253-140205
SHEET	1 OF 1

JEMISON SURVEYING & SERVICES
2680 CRINSON CANYON DRIVE
LAS VEGAS, NEVADA 89138
702-360-4838 / 702-360-4839

**ANN ROAD CHANNEL WEST
STORM DRAIN
FINAL LOCATION MAP**

LAS VEGAS
NEVADA

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: Peter Dunne, Construction
Project Representative

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, Public Works

Date: January 12, 2015

Re: Storm Drain Final Location Map
Ann Road Channel West
(Drawing No. 731-88, CIP # 36801)

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:

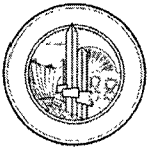
Acceptable: 1/12/15


Signature

City Surveyor
Title

Public Works/Survey
Department/Division

ARR/OS:sb



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
STORM DRAIN
FINAL LOCATION MAP

JOB NUMBER H36801-SD2
PROJECT NAME ANN RD. CHANNEL WEST
WORK AUTH. NO. P28000
SUBMITTED BY PETER DUNNE / JST+S
PROJECT TYPE CIP ☒ Land Dev ☐ Street Rehab ☐
DATE 1/12/15
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				
Manhole Lids: (measured horizontally at centerline of lid, vertically at rim; specify diameter of lid)	☒	☐	☐	
*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)	☒	☐	☐	
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, 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)	☐	☐	☒	WAIVED PIPE @ MAIN CONNECTIONS
*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	☐	☐	☐	
*NOTE Coordinates provided must be accurate to within ±0.5 feet (6 inches) ^{±0.3 ft.} horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	☐	☐	☐	

ADDITIONAL COMMENTS