

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: Raymond D. Bond, PLS
VTN

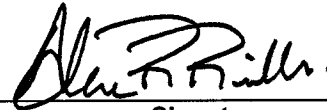
Tim Parks, P.E., Engineering Project Manager
Sanitary Sewers Section, Engineering Planning

Date: November 9, 2016

Re: Sanitary Sewer Final Location Map
Summerlin Village 23B Parcel P - Sarasota (Entry)
(Drawing No. 107Y5006-ENT, L-Civil No. 55446)

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: 11/09/2016



Signature

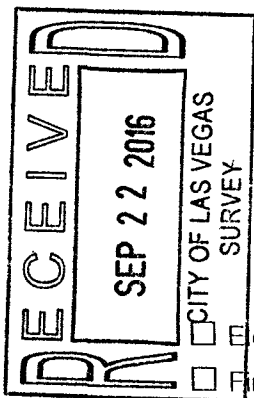
City Surveyor

Title

Public Works/Survey

Department/Division

ARR/OS:sk



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: Summerlin 23B SHARED Entry UNIT: NA PHASE: NA
PROJECT LOCATION: ALTA - DESERT FOOT HILLS
CLV PLAN #: 107Y5006-ENT CLV PROJECT # 55446 SHEET NO. (S): 1
OF MANHOLES 3 PUB. SEWER/STORM DRAIN LIN. FT 315.6 # OF PRIVATE LATERALS 0
DEVELOPER: RYLAND HOMES PHONE: 702-360-7500 FAX: _____
SURVEY CO.: VTN NEVADA PHONE: 702-873-7550 FAX: 702-362-2597
CONTRACTOR: WESTERN STATES PHONE: 702-644-1117 FAX: 702-851-6633
CONTRACTOR'S SUPERVISOR NAME: JEFF MUDD MOBILE: 702-204-9816
DATE OF REQUEST: 9/20/16

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name VTN NEVADA Surveyor Name RAYMOND P. BOIRD
License # 16224 License exp. Date: 12/31/2016

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: 11/9/16 NOT ACCEPTABLE BY CITY SURVEYOR DATE _____

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 11-9-16

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: Joe Pena
(PLEASE PRINT)

SIGNATURE: [Signature] DATE: 11/10/2016

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
SANITARY SEWER
FINAL LOCATION MAP

JOB NUMBER H55446 SS2
PROJECT NAME SUMMERLIN VILLAGE 23B PARCEL P - SARASOTA (ENTRY)
WORK AUTH. NO. P28000
SUBMITTED BY VTN
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 10/8/16
REVIEWED BY D. SANTANA

REVIEW DETERMINATION

- ☒ Approved
☐ Not Acceptable

TO BE RE-SUBMITTED

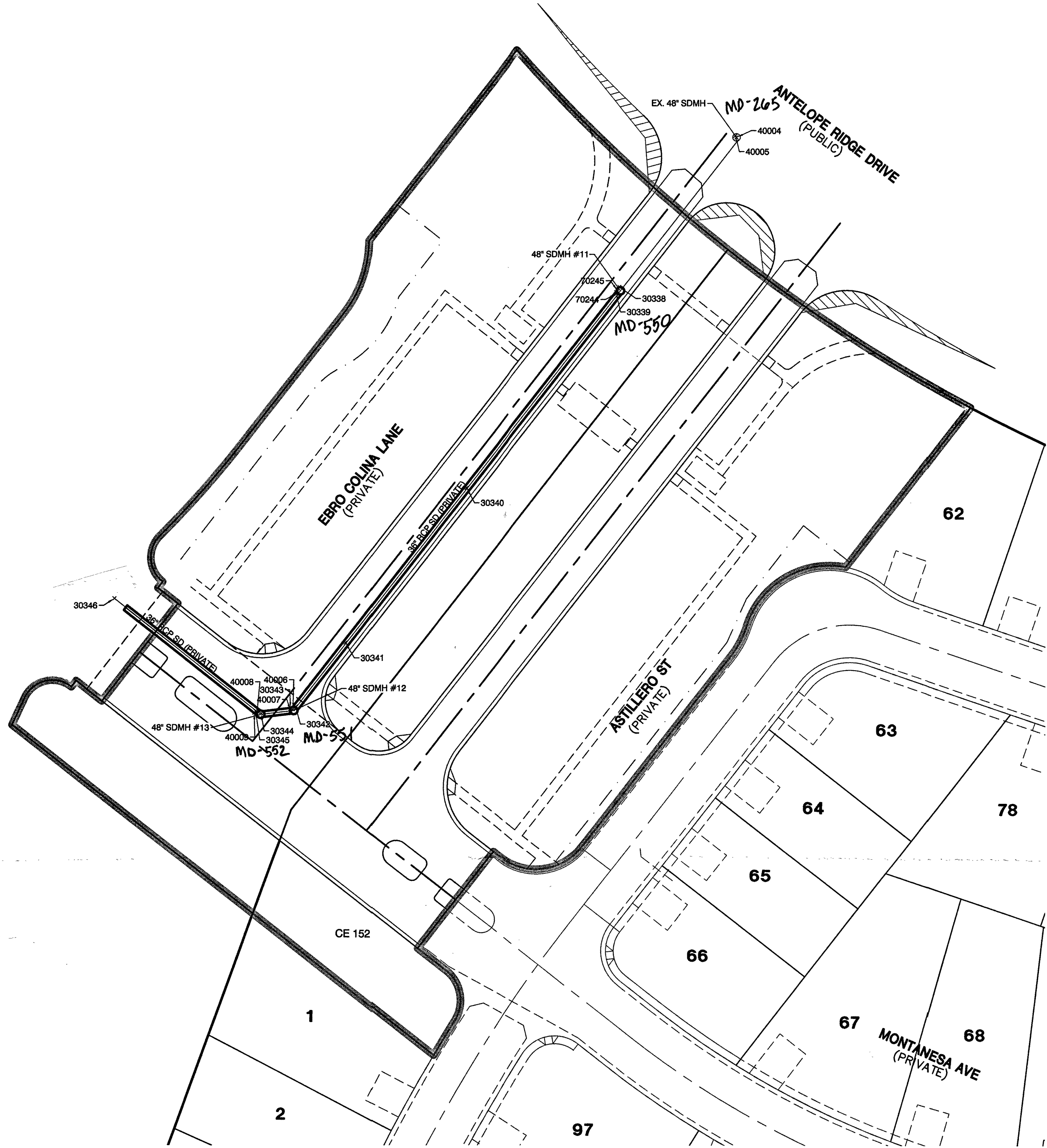
- ☐ Two bond copies (no mylar)
☐ Electronic media with comma-separated coordinate file

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 ("Sanitary Sewer 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)	☒	☐	☐	

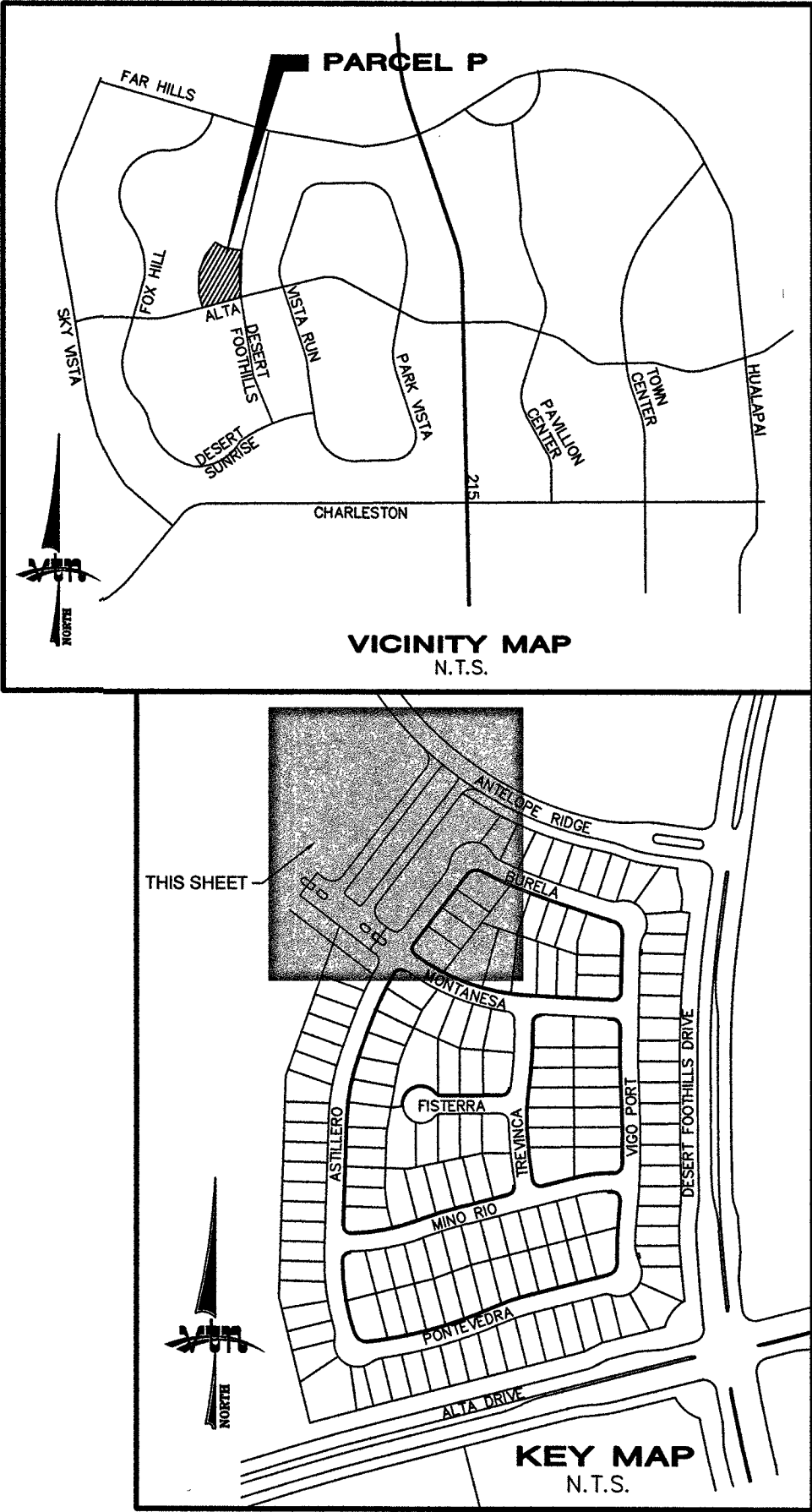
REVIEW CHECKLIST – SANITARY SEWER FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Sanitary Sewer Improvements Data				
*NOTE As of December 1, 2015 manhole cover locations are no longer required.				
Manhole Barrel/Base: (measured horizontally at centerline of structure barrel/base, vertical location does not apply)	☒	☐	☐	
Vaults and Junction Structures: (measured horizontally at all outer extents of structure, vertically at top of structure)	☐	☐	☒	
Lateral/Main/Interceptor Pipes: locate at all connections to other pipes and structures, all horizontal and vertical deflections, points of termination (stubs), point at which pipe exits the public right-of-way or easement (measured horizontally at centerline of pipe, vertically at top of pipe)	☒	☐	☐	
*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

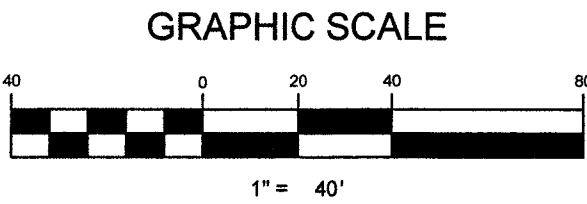
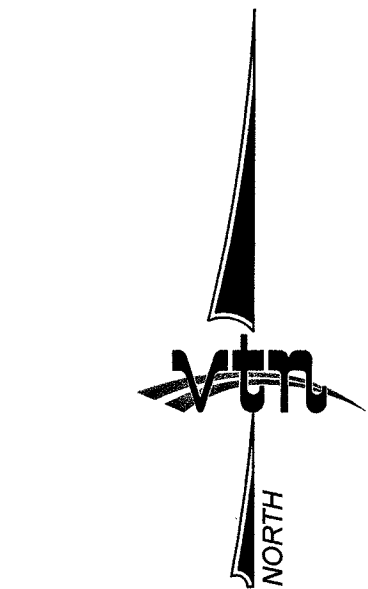


POINT TABLE					
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	
30338	1285223.5740	868793.5920	3350.78	INV	SDMH #11
30339	1285220.7920	868781.8650	3350.79	INV	SDMH #11
30340	1285119.2100	868703.7660	3355.04	TOP	
30341	1285039.0490	868641.1360	3355.71	TOP	
30342	1285005.9240	868615.3620	3352.68	INV	SDMH #12
30343	1285004.7740	868612.6880	3352.68	INV	SDMH #12
30344	1285002.3020	868597.4300	3352.59	INV	SDMH #13
30345	1285003.5800	868594.5790	3352.60	INV	SDMH #13
30346	1285061.5690	868620.9960	3352.78	INV	
40004	1285301.2590	868644.4540	3357.45	CL RIM	EX. SDMH
40005	1285302.0970	868643.8480	3357.58	BARREL EDGE	EX. SDMH
40006	1285004.5640	868613.9430	3360.55	CL RIM	SDMH #12
40007	1285003.6860	868612.7440	3360.58	BARREL EDGE	SDMH #12
40008	1285002.2680	868595.2720	3361.04	CL RIM	SDMH #13
40009	1285002.6650	868593.8390	3361.12	BARREL EDGE	SDMH #13
70244	1285219.9980	868782.0210	3357.90	BARREL EDGE	SDMH #11
70245	1285221.4730	868782.6380	3357.87	CL LID-32	SDMH #11



- LEGEND**
- 2 LOT NUMBER
- BACK OF CURB LINE
- LOT LINES
- STREET CENTERLINE
- UNIT BOUNDARY
- CENTERLINE MANHOLE LID
- SDMH
- STORM DRAIN MAN HOLE AS DESCRIBED

PROJECT BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 5LV09:34N6 2008 ADJUSTMENT (UPDATED 5/24/10) NAVD88 ELEVATION: 1007.197 METERS (3304.45 FEET)
RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA.



BASIS OF BEARINGS AND COORDINATES:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 1983 (CORS 96) EPOCH 2002.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION
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: 400,000,000 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000,000 M (984,249.9999 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)
NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

SURVEYOR'S NOTE:
I, RAYMOND D. BOND, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, DO HEREBY CERTIFY THAT THE MEASUREMENTS SHOWN ON THE MAP ARE WITHIN THE POSITIONAL CERTAINTY OF 0.3' HORIZONTALLY AND 0.3' VERTICALLY. THE SURVEY WAS COMPLETED ON AUGUST 26, 2016.
RAYMOND D. BOND, P.L.S.
NEVADA LICENSE NO. 16224

CALATLANTIC HOMES
8825 W. RUSSEL ROADS, STE 200
LAS VEGAS, NEVADA 89148
(702) 860-7500

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 873-7550 FAX: (702) 862-2587 WEB: WWW.VTNN.COM
CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS

STORM DRAIN MAP
FINAL LOCATION MAP
SUMMERLIN VILLAGE 23B
PARCEL P & Q
SHARED ENTRY

09-15-16
DRAWN BY:
R.M.S.
DESIGNED BY:
RB
CHECKED BY:
RB
PROJECT NO.:
7823
SCALE:
1"=40'
HORIZ:
NA
VERT:
NA

RAYMOND D. BOND
16224
10-20-16

SHEET
SDAB1
1 OF 1 SHEETS
DRAWING NO.
107Y5006-ENT

H#55446