

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

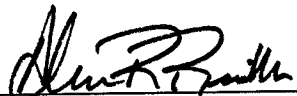
C: Ross J Doyle, PLS
Tri-Core Surveying
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

Date: January 23, 2017

Re: Storm Drain Final Location Map
HUALAPAI & SEVERENCE IMPROVEMENT PLAN SET
(Drawing No. 107V6546, L-Civil No. 61808)

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:

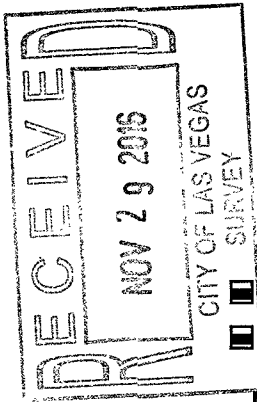
Acceptable: January 23, 2017



Signature

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) 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: Hualapai / Severence - Improvement Plan Set UNIT: PHASE:

PROJECT LOCATION: Hualapai Way & Elkhorn Road in Las Vegas, NV

CLV PLAN #: 107V6546 CLV PROJECT # 61808 SHEET NO. (S): 7-11 of 28

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

DEVELOPER: DR Horton PHONE: 702-635-3600 FAX:

SURVEY CO.: Tri-Core Surveying PHONE: 702-821-1554 FAX: 702-870-4378

CONTRACTOR: KNL Underground PHONE: 702-253-1700 FAX:

CONTRACTOR'S SUPERVISOR NAME: Greg Walker MOBILE: 702-726-0101

DATE OF REQUEST: November 29, 2016

**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: 1/23/17 NOT ACCEPTABLE BY CITY SURVEYOR DATE

CLV SURVEYOR'S SIGNATURE: *David R. Bink* DATE: 1/23/17

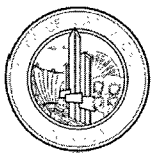
THE CITY OF LAS VEGAS RECOMMENDS THAT ALL DEFICIENCIES NOTED ON THE ATTACHED SURVEY REPORT BE CORRECTED PRIOR TO THE FINAL ACCEPTANCE.

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 H61808 SD2
PROJECT NAME HUALAPAI & SEVERENCE IMPROVEMENT PLAN SET
WORK AUTH. NO. P28000
SUBMITTED BY Tri-Core Surveying - (Ross J. Doyle)
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 1/23/17
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

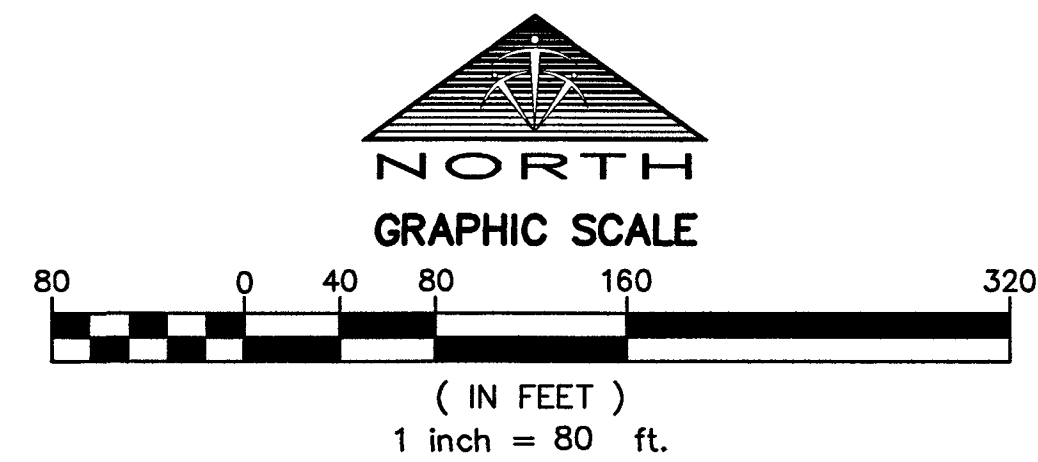
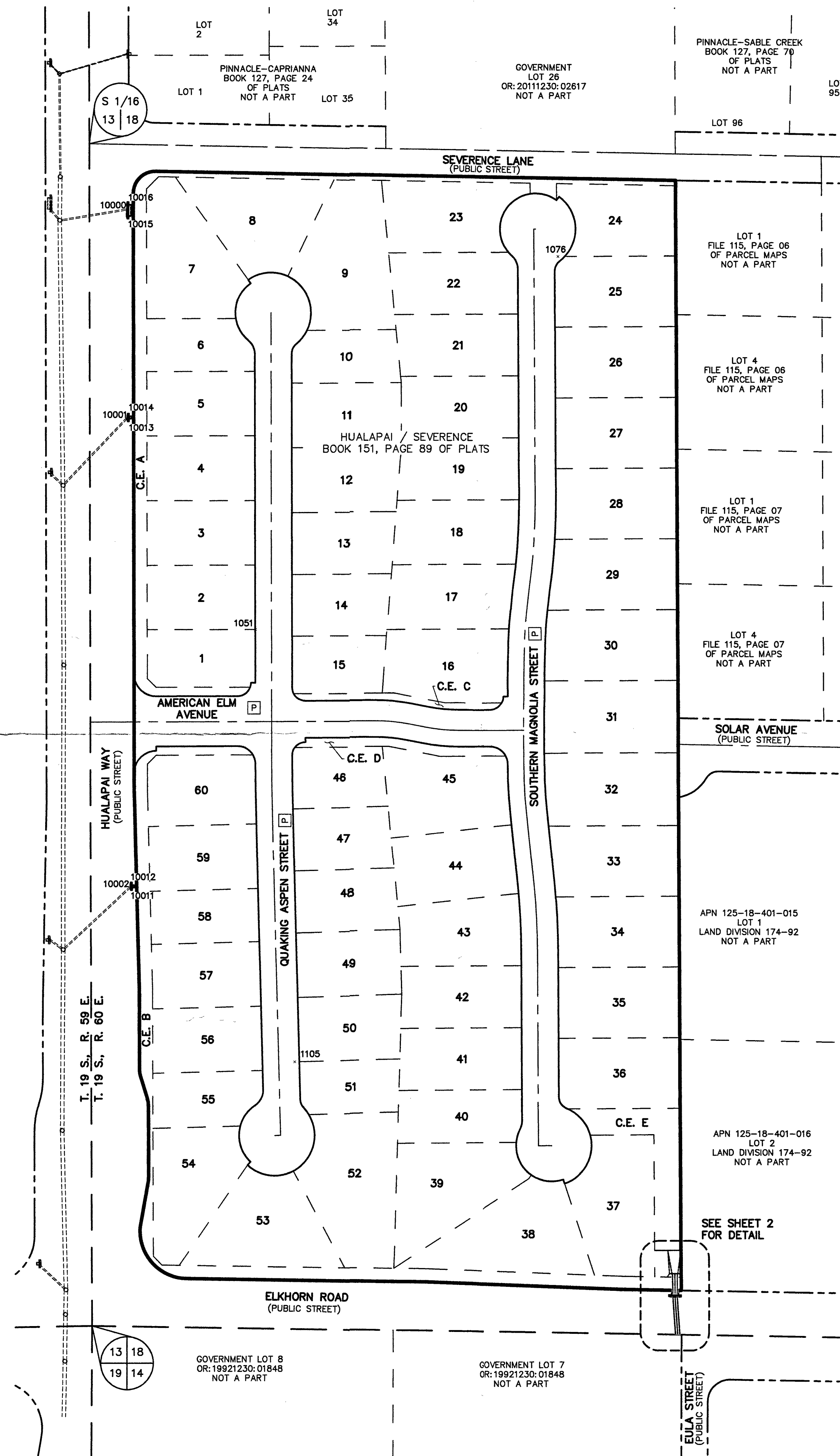
REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Submittal Contents				
Two bond copies (no mylar)	☒	☐	☐	
Electronic media containing comma-separated coordinate file	☒	☐	☐	
General Map Contents				
Sheet size 24" x 36"	☐	☐	☐	
Sheet number and number of sheets	☐	☐	☐	
North arrow (pointing up, left or right)	☒	☐	☐	
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

P:\01015\0015_Hualapai-Severence\Construction\Storm Drain\ASBULL\Storm Drain\ASBULL\Hualapai-Severence_Storm Drain ASBULL.dwg 27 Dec 2016 - 7:23am



- LEGEND**
- SUBDIVISION BOUNDARY
 - SECTION LINE
 - PRIVATE STREET RIGHT OF WAY
 - EXISTING RIGHT OF WAY
 - CENTERLINE
 - ASSESSORS PARCEL LINE / LOT LINE
 - STORM DRAIN PIPE
 - EXISTING STORM DRAIN PIPE
 - LOT NUMBER
 - AS-BUILT POINT NUMBER
 - PRIVATE STREET, UTILITY EASEMENT (U.E.), DRAINAGE EASEMENT, AND PUBLIC SEWER EASEMENT SURFACE TO BE PRIVATELY MAINTAINED
 - EXISTING STORM DRAIN MANHOLE
 - EXISTING STORM DRAIN DROP INLET
 - STORM DRAIN DROP INLET

HORIZONTAL DATUM
HORIZONTAL DATUM SHOWN HEREON IS BASED UPON NORTH AMERICAN DATUM OF 1983 (NAD 83 (2011) EPOCH 2010.00 REALIZATION), NEVADA STATE PLANE COORDINATE SYSTEM EAST ZONE (2701).

BENCHMARK
CITY OF LAS VEGAS BENCHMARK: 6LV90 18SWW6
RIVET & PLATE ON TOP OF CURB AT THE NORTHEAST CORNER OF SEVERENCE LANE AND HUALAPAI WAY.
ELEVATION: 2857.19 (U.S. SURVEY FEET)
870.872 (METERS)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88), CITY OF LAS VEGAS 2008 ADJUSTMENT

NOTES
1. THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE STORM DRAIN FACILITIES IN HUALAPAI / SEVERENCE, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY RECORDERS OFFICE IN BOOK 151, PAGE 89 OF PLATS, SITUATE IN GOVERNMENT LOTS 31, 32, 33, AND 34 OF SECTION 18, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON NOVEMBER 28, 2016.
THE POSITIONAL CERTAINTY OF THE AS-BUILT INFORMATION SHOWN HEREON IS WITHIN +/- 0.3' HORIZONTALLY AND VERTICALLY.
2. SEE SHEET 2 FOR COORDINATE TABLE.

DATE : 12/27/2016		CS	RD
PM :	DRAWN BY :	DESIGNED BY :	CHECKED BY :
ADA CHECKED :	JOB NO. : 20712.0003	SCALE : 1"=80'	APP'D
NO. DESCRIPTION			
DATE			

Tri-CORE SURVEYING, LLC
LAND SURVEYING · CONSTRUCTION STAKING
BOUNDARY & TOPOGRAPHIC SURVEYS
6781 WEST CHARLESTON BLVD.
LAS VEGAS, NEVADA 89146
TEL (702) 821-1554 FAX (702) 870-4378

DR HORTON
HUALAPAI / SEVERENCE - IMPROVEMENT PLAN SET
STORM DRAIN FINAL MAP LOCATION

PROFESSIONAL LAND SURVEYOR STATE OF NEVADA
ROSS J. DOYLE
EXPIRES 12-31-18
No. 22612
12-27-16

SHEET
1
OF 2



LEGEND

SUBDIVISION BOUNDARY

SECTION LINE

PRIVATE STREET RIGHT OF WAY

EXISTING RIGHT OF WAY

CENTERLINE

ASSESSORS PARCEL LINE / LOT LINE

STORM DRAIN PIPE

EXISTING STORM DRAIN PIPE

9

5100

AS-BUILT POINT NUMBER

PRIVATE STREET, UTILITY EASEMENT (U.E.), DRAINAGE EASEMENT, AND PUBLIC SEWER EASEMENT SURFACE TO BE PRIVATELY MAINTAINED

EXISTING STORM DRAIN MANHOLE

EXISTING STORM DRAIN DROP INLET

STORM DRAIN DROP INLET

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1051	26808842.05	735456.78	0.00	CP 3 - CURB SCRIBE 1/2
1076	26809264.78	735801.58	0.00	CP 2 - CURB SCRIBE 24/25
1105	26808353.09	735502.86	0.00	CP 1 - CURB SCRIBE 50/51
8000	26808114.22	735945.06	2827.20	TOP OUTSIDE CORNER HEADWA
8001	26808113.68	735945.07	2827.19	TOP OUTSIDE CORNER HEADWA
8002	26808113.55	735931.58	2827.26	TOP OUTSIDE CORNER HEADWA
8003	26808114.03	735931.58	2827.27	TOP OUTSIDE CORNER HEADWA
8004	26808114.41	735935.85	2825.12	INV 20" PVC IN
8005	26808114.48	735938.43	2825.07	INV 20" PVC IN
8006	26808114.49	735941.19	2824.99	INV 20" PVC IN
8009	26808091.94	735935.79	2824.86	INV 20" PVC OUT
8010	26808091.92	735938.35	2824.85	INV 20" PVC OUT
8011	26808091.90	735940.78	2824.87	INV 20" PVC OUT
8012	26808088.06	735940.90	2824.70	INV 20" PVC IN
8013	26808088.11	735938.35	2824.68	INV 20" PVC IN
8014	26808088.08	735935.95	2824.73	INV 20" PVC IN
8015	26808088.00	735934.84	2825.03	INSIDE COR DI
8016	26808091.90	735934.95	2825.05	INSIDE COR DI
8017	26808091.99	735941.97	2824.98	INSIDE COR DI
8018	26808087.93	735941.95	2824.98	INSIDE COR DI
8019	26808044.56	735939.24	2824.09	INV 20" PVC STUB
8020	26808044.71	735941.66	2824.07	INV 20" PVC STUB
8021	26808044.61	735944.07	2824.04	INV 20" PVC STUB
9000	26808090.04	735934.28	2828.04	TBC @ EDGE DI
9001	26808089.85	735942.57	2827.96	TBC @ EDGE DI
10000	26809316.76	735308.81	2853.82	TOP OF 18" RCP @ DI
10001	26809080.26	735309.39	2852.11	TOP OF 18" RCP @ DI
10002	26808550.92	735315.61	2849.30	TOP OF 18" RCP @ DI
10011	26808550.06	735317.48	2851.47	TBC @ EDGE DI
10012	26808552.09	735317.40	2851.48	TBC @ EDGE DI
10013	26809080.06	735312.13	2854.49	TBC @ EDGE DI
10014	26809082.04	735312.10	2854.47	TBC @ EDGE DI
10015	26809309.05	735310.82	2855.88	TBC @ EDGE DI
10016	26809321.02	735310.80	2855.94	TBC @ EDGE DI

[illegible]

DATE :	12/27/2016
PM :	RD
DRAWN BY :	RD
DESIGNED BY :	
CHECKED BY :	GS
ADA CHECKED :	
JOB NO. :	20712.0003
SCALE :	NONE

NO.	DESCRIPTION	DATE	APP'D
NONE			

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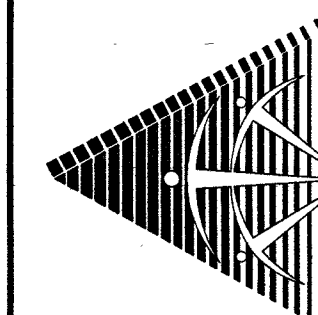
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TRI-CORE
SURVEYING, LLC

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LAND SURVEYING • CONSTRUCTION STAKING
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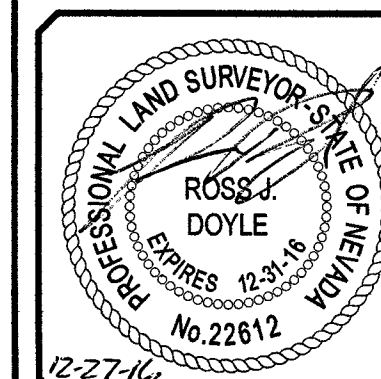
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LAS VEGAS, NEVADA 89146
0701 WEST CHURCHILL BLVD.



DR HORTON

HUALAPAI / SEVERENCE - IMPROVEMENT PLAN SET

STORM DRAIN FINAL MAP LOCATION



SHEET

2