

KEY MAP  
NORTH NOT TO SCALE

**WATER CONSTRUCTION NOTES**

- 1 REMOVE CAP & CONNECT PROPOSED WATER MAIN TO EXISTING WATER MAIN.
- 2 SAWCUT AND PATCH A.C. PAVEMENT PER C.C.A.U.S.D. NO. 500AL.
- 3 INSTALL 2" METER AND SERVICE SADDLE PER UDACS 1C
- 4 INSTALL 1.5" METER AND SERVICE SADDLE PER UDACS 1C
- 5 INSTALL 8" GATE VALVE PER UDACS PLATE #B.
- 6 STUB AND CAP 2" PVC WATER FIVE (5) FROM BUILDING FOR DOMESTIC (SEE BUILDING PLANS FOR CONNECTION)
- 7 STUB AND CAP DOMESTIC LINE FOR IRRIGATION USE. (SEE IRRIGATION PLANS, SHEETS IR-2.00 THRU IR-2.09 FOR CONNECTION)
- 8 INSTALL CAP AND BLOW OFF PER UDACS PLATE #AA
- 9 INSTALL 2"x2"x1" TEE FOR DRINKING FOUNTAIN SERVICE
- 10 INSTALL DRINKING FOUNTAIN WITH 1" ISOLATION VALVE. SEE LANDSCAPE PLANS FOR FOUNTAIN LOCATIONS.

**SEWER CONSTRUCTION NOTES**

- 1 STUB AND PLUG 8" SEWER FIVE (5) FEET FROM BUILDING (SEE BUILDING PLANS FOR CONNECTION)
- 2 INSTALL 6" CLEANOUT
- 3 INSTALL 6" WYE CONNECTION PER D.C.S.W.C.S. 50-17.
- 4 SAWCUT AND PATCH A.C. PAVEMENT PER C.C.A.U.S.D. NO. 500AL.

# NOTE: SEWER MANHOLE LOCATION IS APPROXIMATE AND BASED ON MUNICIPLE ATLAS. VERIFY LOCATION AND ELEVATION PRIOR TO FINAL GRADING AND ADJUST RIM TO FG.

**NOTES:**

- 1. ALL LATERALS ARE SHOWN GRAPHICALLY ONLY. SEE APPROVED BUILDING PLANS FOR ACTUAL LOCATIONS.
- 2. WHERE EXCAVATION IS PERMITTED WITHIN THE PUBLIC RIGHT-OF-WAY, THE LIMITS OF A.C. REMOVAL AND REPLACEMENT SHALL BE DETERMINED BY A CITY OF NORTH LAS VEGAS CONSTRUCTION SERVICES INSPECTOR, AND IN EVERY CASE THE A.C. SHALL BE REPLACED BY MECHANICAL MEANS, A MINIMUM OF 12".
- 3. CONTACT RICH ARNOLD / ONLY UTILITIES @ 833-1277 TWENTY-FOUR (24) HOURS PRIOR TO BEGINNING ANY WORK FOR SCHEDULING INSPECTIONS AND APPROVALS.
- 4. UDACS PLATE 1A AND 1C - REVISE NOTE 1 TO READ "COUPLINGS ARE NOT ALLOWED BETWEEN THE COPRORATION STOP AND THE ANGLE METER."
- 5. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS" (UDACS), LATEST EDITION.
- 6. ALL WASTEWATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" (DACSWS), LATEST EDITION.
- 7. ALL SANITARY SEWER MANHOLE BASES FOR NEW PIPE MUST BE PRECAST PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS PLATE 30-28.
- 8. ALL METERS TO BE INSTALLED IN THE ONLY WATER SYSTEM, INCLUDING DGA'S, MUST BE COMPATIBLE WITH THE SENSUS AMR PROTOCOL (A.I.K.A. INVENTS) AND MUST BE INSTALLED WITH THE ENCODED REGISTER. METERS THAT ARE FULLY COMPATIBLE ARE: SENSUS/INVENTS EDR/MP MODELS (5/8" AND LARGER) HONEYWELL AUTOREAD MODELS (3" AND LARGER).
- 9. WATER METERING REQUIREMENTS FOR NEW DEVELOPMENTS:
  - A. SEPARATE DOMESTIC AND FIRE SERVICES (WHERE APPLICABLE) ARE REQUIRED FOR EACH DWELLING UNIT, PUBLIC, QUAS-PUBLIC, COMMERCIAL, AND/OR INDUSTRIAL OCCUPANCY LOCATED ON A SINGLE PARCEL OR LOT.
  - B. IN THE EVENT THAT A BUILDING WITH AN INDUSTRIAL OR COMMERCIAL SUBDIVISION IS DIVIDED, SEPARATE DOMESTIC SERVICES ARE REQUIRED FOR EACH UNIT.
  - C. EACH PARCEL OR LOT OF A COMMERCIAL OR RESIDENTIAL SUBDIVISION WILL HAVE A MINIMUM OF ONE (1) FIRE SERVICE. THE CITY, AT ITS OPTION, MAY ALLOW A COMMERCIAL FIRE SERVICE PROVIDED THE PROPERTY OWNERS FIRST ESTABLISH A PROPERTY MANAGEMENT ASSOCIATION WHICH ACCEPTS RESPONSIBILITY FOR THE PAYMENT OF WATER BILLS AND THE MAINTENANCE AND OPERATIONS OF THE FIRE LINES AND BACKFLOW PREVENTION ASSEMBLY.
  - 10. GATE VALVES ARE SHOWN ON PLANS SCHEMATICALLY ONLY. GATE VALVES ARE TO BE INSTALLED A MINIMUM OF 2' FROM LIP OF CUTTER IN ALL CASES.
  - 11. CONTACT THE UTILITIES DEPARTMENT SEVEN (7) WORKING DAYS PRIOR TO ANY ANTICIPATED SHUTDOWN FOR COORDINATION PURPOSES. THE CONTRACTOR SHALL NOT OPEN/CLOSE ANY VALVES WITHIN THE CITY'S WATER DISTRIBUTION SYSTEM. THE UTILITIES DEPARTMENT CONTACT NUMBER IS 833-1277.
  - FOR COMMERCIAL PROPERTIES, PROVIDE WRITTEN NOTIFICATION AND VERBAL COORDINATION BETWEEN THE UTILITIES DEPARTMENT AND THE COMMERCIAL PROPERTY OWNERS) A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO ANTICIPATED SHUTDOWN. THE COMMERCIAL OWNERS SHALL HAVE THE ABILITY TO PROVIDE INPUT IN SCHEDULING SHUTDOWNS.
  - WORKING DAYS ARE DEEMED TO BE MONDAY THRU THURSDAY FOR SHUTDOWN PURPOSES.
  - SHUTDOWNS ARE ANTICIPATED TO BE NIGHT WORK. FINAL DECISION SHALL BE AT THE DISCRETION OF THE UTILITIES DEPARTMENT.
  - 12. FLOW FLOW DATA CHART IS SHOWN ON MASTER TRAFFIC / FIRE CONTROL PLAN (SHEET C11)

**NOTE:**

PRIOR TO THE INSTALLATION OF ANY SUBGRADE STREET IMPROVEMENTS, ALL REQUIRED UNDERGROUND UTILITIES (E.G. TELEPHONE, POWER, WATER, ETC.) LOCATED WITHIN PUBLIC RIGHTS-OF-WAY, SHALL BE EXTENDED A MINIMUM OF TEN (10) FEET BEYOND THE PROJECT BOUNDARY, OR AS OTHERWISE REQUIRED BY THE CONSTRUCTION MANAGER.

**BASIS OF BEARINGS:**

NORTH 88°51'23" EAST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 20 SOUTH, RANGE 62 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER IN FILE 88, OF SURVEYS, PAGE 44.

**BENCHMARK:**

CITY OF LAS VEGAS STATION 2L.V02 30N8  
RIVET AND PLATE IN TOP OF CURB ON WEST SIDE OF SANDHILL +/- 100 FT. NORTH OF PROCLAMATION.

ELEVATION:  
FEET = 1798.53' (NAV088)  
METERS = 547.583 M (NAV088)

**APPROVAL:**

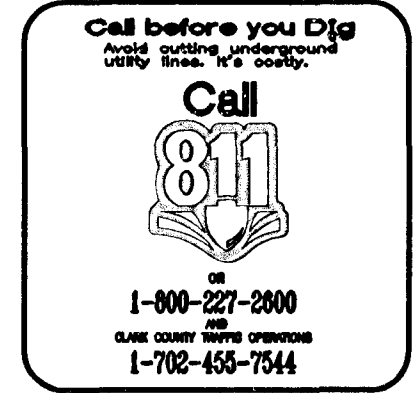
LORENA CANDELARIO \_\_\_\_\_ DATE \_\_\_\_\_  
MANAGER, REAL PROPERTY SERVICES DIVISION

ONLY UTILITIES DEPARTMENT ENGINEERING SERVICES DIVISION \_\_\_\_\_ DATE \_\_\_\_\_  
(ONLY WATER ONLY)

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR CONSTRUCTION, A COMMITMENT TO SUPPLY WATER AND/OR SEWER SERVICES, OR AN APPROVAL OF ANY VIOLATION OF ONLY WATER AND/OR SEWER SERVICE RULES AND REGULATIONS OR DESIGN AND CONSTRUCTION STANDARDS.

LAS VEGAS FIRE DEPARTMENT \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OF COUNTY LAWS. APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED, PRIOR TO OBTAINING FINAL APPROVAL FROM THE L.V.W.D.

FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL



**DISCLAIMER NOTE:**  
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**CNLV UTILITY DEPT. DISCLAIMER**

A STATEMENT OF UNDERSTANDING BETWEEN THE CITY OF NORTH LAS VEGAS UTILITY DEPARTMENT (CITY) AND ANY AND ALL SUBSEQUENT USERS OF INFORMATION OBTAINED HEREFROM:  
THE PLANS AND SUPPORTING INFORMATION IS FURNISHED BY THE CITY, AND IS ACCEPTED/USED BY THE RECIPIENT WITH THE UNDERSTANDING THAT THE CITY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF SAID PLANS OR ANY SUPPORTING DATA AND FURTHER UNDERSTANDS THAT ALL USERS ARE ACTING AT THEIR OWN RISK.  
THE CITY SHALL BE UNDER NO LIABILITY WHATSOEVER RESULTING FROM ANY USE OF THIS INFORMATION. THIS INFORMATION SHOULD NOT BE RELIED UPON AS THE SOLE BASIS FOR EXISTING WATER AND/OR SEWER LOCATIONS. THE ENGINEER SHALL CHECK AND VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES.

**ON-SITE WATER NOTE**

THE ON-SITE WATER LINES AND APPURTENANCES ARE PRIVATE FACILITIES NOT TO BE OPERATED OR MAINTAINED BY THE CITY OF NORTH LAS VEGAS.

**NOTE**

THE MINIMUM SEPARATION BETWEEN FIRE SYSTEMS AND DOMESTIC WATER MAINS SHALL BE SIX (6) FEET HORIZONTALLY FROM EXTERIOR PIPE WALLS AND EIGHTEEN (18) INCHES VERTICALLY. MINIMUM SEPARATION FROM SEWER LINES SHALL BE TEN (10) FEET.

**NOTE**

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040

**UTILITY NOTE**

FIRE AND WATER SERVICES AS APPROVED ON THIS PLAN ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE AND WATER SERVICES TO EACH.

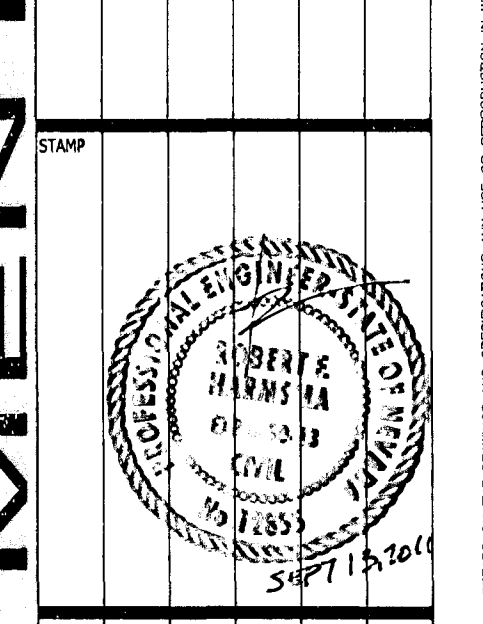
**NOTE**

NO WATER MAINS (DOMESTIC, FIRE OR IRRIGATION) MAY CROSS THE LAS VEGAS WASH.



REVISOR: \_\_\_\_\_  
CONSULTANT: **Gardno WRG**  
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PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

SANDHILL OWENS PARK & TRAILHEAD  
LAS VEGAS, NEVADA  
AS BUILT - UTILITY PLAN UT2  
ONLY UTILITIES



OWNER: CITY OF LAS VEGAS  
DEPARTMENT OF PUBLIC WORKS  
CAPITAL PROJECT MANAGEMENT SECTION

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LAS VEGAS, NEVADA 89101  
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(702) 384-6846  
FAX: (702) 386-9108

DRAWN	BIL
FILE	7937 UTIL
DATE	11/20/09
SCALE	1"=30'
BID NO	09154111
CLV DWG NO	650.104
HANGER #	29225, 267885, & 26729
SHT NO	C. 8

12/1/13