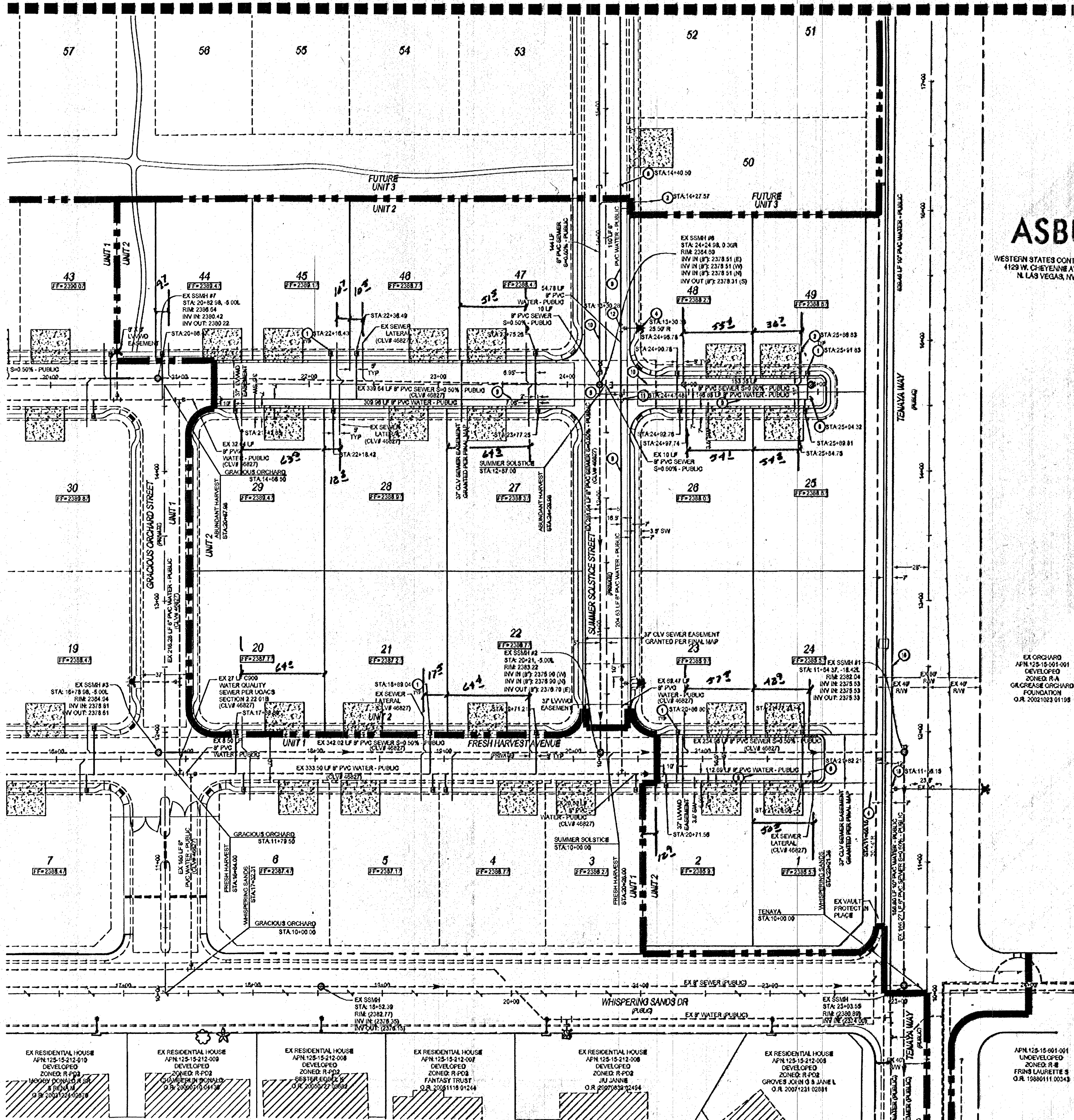
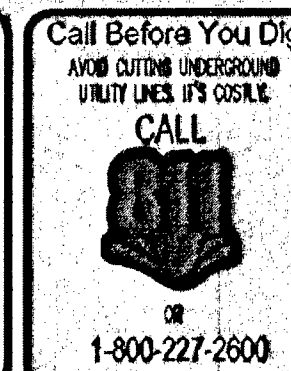


MATCHLINE SEE SHEET UT2



ASBUILT

WESTERN STATES CONTRACTING, INC.
1129 W. CHEVYNE AVE. SUITE 8
N. LAS VEGAS, NV 89008



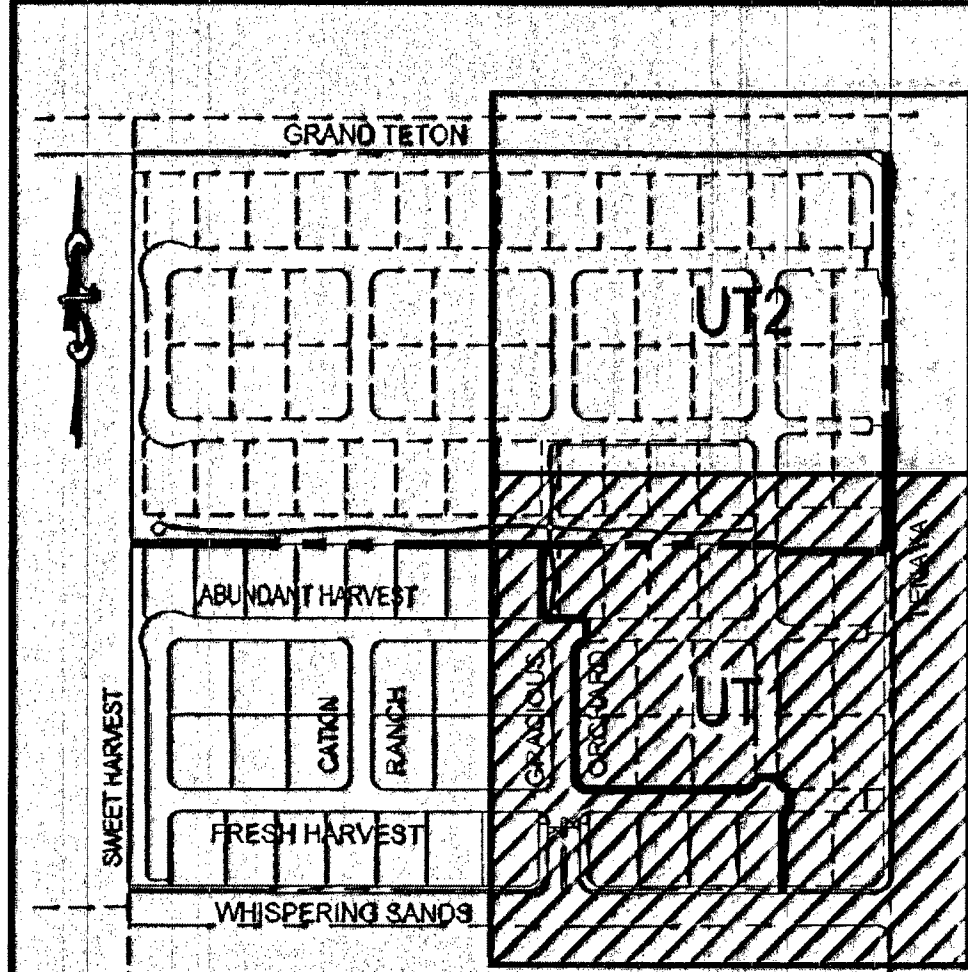
UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE WATER AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE 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, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 4" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE).
4. LOCATOR WIRE SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN (TYPICAL).
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ON-SITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING (UDACS PLT. 15).

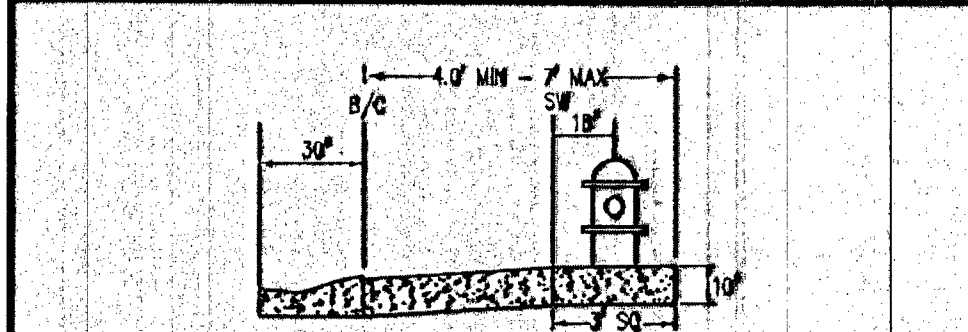
CONSTRUCTION NOTES

1. 1" WATER SERVICE W/ 3/4" METER (UDACS PLT. 2)
2. 6" SEWER LATERAL WITH MARKER BALL & CURB MARKING (UDACS PLT. 3)
3. 4" MANHOLE BASE PRECAST, GRADE RING COLLAR & LID PER DCSWCS STANDARDS
4. FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 4) - PUBLIC
5. 1" GATE VALVE (UDACS PLT. 30 & 39)
6. INSTALL 2" BLOW-OFF ASSEMBLY (UDACS PLT. 36)
7. 1" IRRIGATION METER W/ 1" RPPA (UDACS PLT. 4 & 8)
8. 4" PVC CONDUITS (IRRIGATION)
9. 8" PVC WATER - PUBLIC
10. 8" PVC SEWER - PUBLIC
11. 8" X 8" WATER LINE TEE (UDACS PLT. 31)
12. 8" X 8" WATER LINE TEE (UDACS PLT. 31)
13. INSTALL 8" X 8" TAPPING SLEEVE W/ TAPPING VALVE (UDACS SECTION 24.01(A), & PLS 34 & 39)
14. 4" WATER LINE BEND (UDACS PLT. 31)
15. 10" 45° WATER LINE BEND (UDACS PLT. 31)
16. 10" PVC WATER - PUBLIC
17. 10" X 8" WATER LINE TEE (UDACS PLT. 31)
18. 10" X 8" WATER LINE TEE (UDACS PLT. 31)
19. 8" 45° WATER LINE VERTICAL BEND (UDACS PLT. 21)

KEY MAP



FIRE HYDRANT DETAIL



WATER MAIN JOINT DEFLECTION

(PVC 4" DIA)
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,100 FEET, PER UDACS 2.08.01 AND 2.08.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

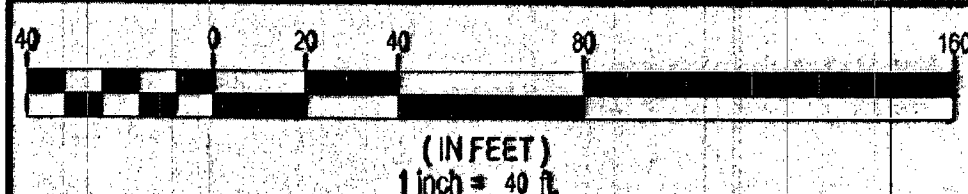
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,250 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON:
SQUARE FOOTAGE: 4,998 SQ. FT.
HEIGHT: 35-FT MAX UP TO 2 STORY HOMES.
SPRINKLER SYSTEM: NO
ROOF CONSTRUCTION: WOOD
HIGH FLEED COMBUSTIBLE STORAGE: NO
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
TYPE OF CONSTRUCTION: V-B
OCCUPANCY: R-1
STORIES UP TO 2 STORIES
ESFR SYSTEM: NO

UTILITY DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL 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 LOCATIONS. CALL BEFORE YOU DIG 1-800-227-2600. CALL BEFORE YOU OVERHEAD 1-702-227-2929.

SCALE



LEGAL DESCRIPTION

BEING LOT TWO (2) OF THAT CERTAIN CERTIFICATE OF LAND DIVISION ON FILE IN FILE NO. 001, PAGE 005A, RECORDED OCTOBER 11, 2011 IN BOOK 20011611 AS DOCUMENT NO. 02252, OFFICIAL RECORDS OF THE COUNTY OF CLARK COUNTY, NEVADA.

BASIS OF BEARINGS

NORTH 09°12'00" EAST BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 15, TOWNSHIP 19 SOUTH, RANGE 50 EAST, 14 D.M. CLARK COUNTY, NV AS SHOWN ON FILE 113 OF SURVEYS AT PAGE 98, OFFICIAL RECORDS OF THE COUNTY OF CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "BLV90 1055W6" BEING A CITY OF LAS VEGAS RIVET AND ROUND PLATE IN A CONCRETE CYPINDER, NORTHWEST CORNER OF GRAND TETON DRIVE AND PIONEER WAY NEAR PT. OF PIONEER WAY.

ELEVATION: 2397.47 (FEET)
730.750 (METERS)

CLARK COUNTY VERTICAL CONTROL V 2003 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD 89)

APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE (PROJ. XXXXXXX)
CLARK COUNTY FIRE DEPARTMENT APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW=1,250 G.P.M. AT 20 PSI RESIDUAL.

NO.	DESCRIPTION	DATE
1	ASBUILT	12/19/2012

DR. HORTON
330 CAROUSEL DRIVE
HENDERSON, NV 89014
(702) 835-3300 FAX: (702) 835-4021

TANEY E. ENGINEERING
6800 S. JONES BLVD. STE. 100
LAS VEGAS, NV 89118
(702) 336-6664 FAX: (702) 336-6623

THE ORCHARDS - UNIT 2
@ GRAND TETON AND TENAYA
A RESIDENTIAL SUBDIVISION

UTILITY PLAN
ASBUILT

DESIGNED BY: LS
CHECKED BY: SF
SHEET NAME: UT1
SHEET: 10 OF 13
107Y4983-2
CLV

PROFESSIONAL ENGINEER SEAL
ROBERT D. CUNNINGHAM
Exp. 12-31-12
CIVIL
MA 15728
ENGINEER'S SEAL
DATE: 12/19/2012
SCALE: 1"=40'
JOB NO: DRH-12-033