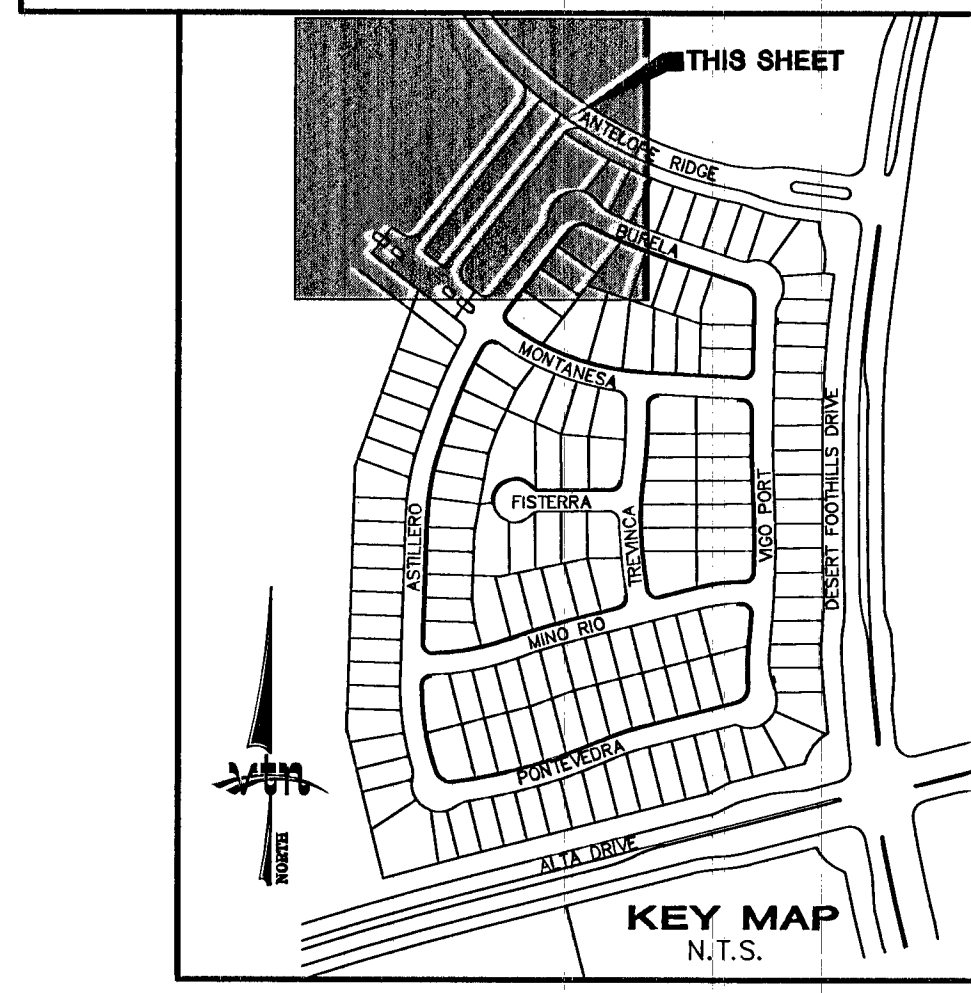
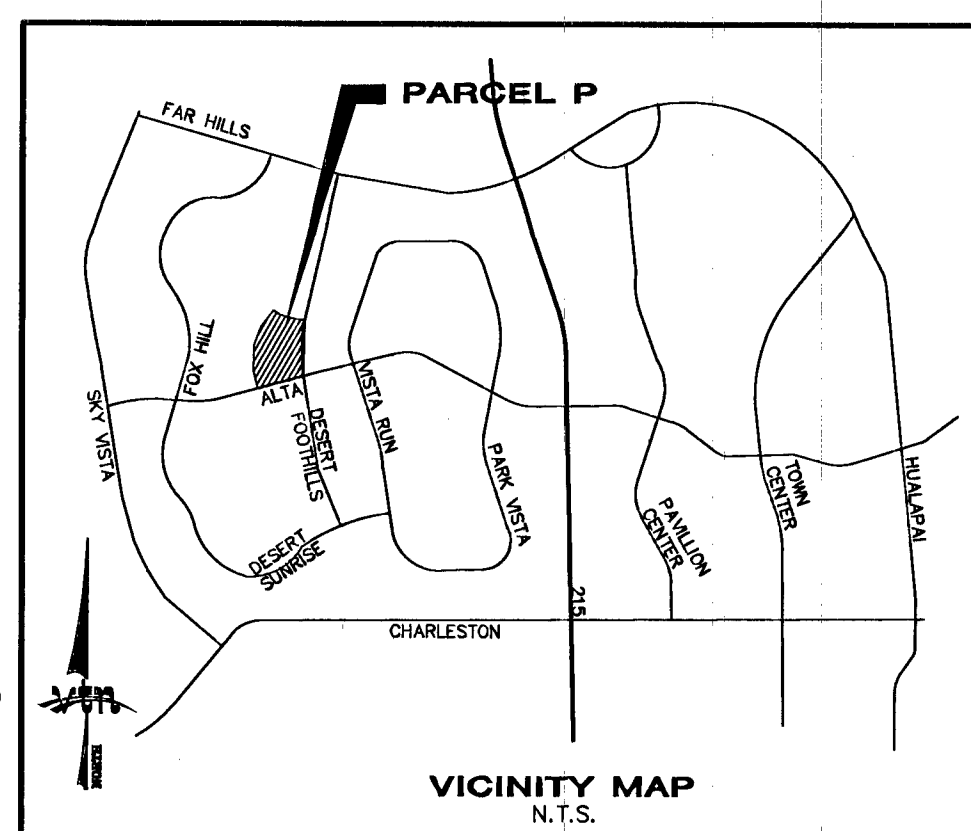
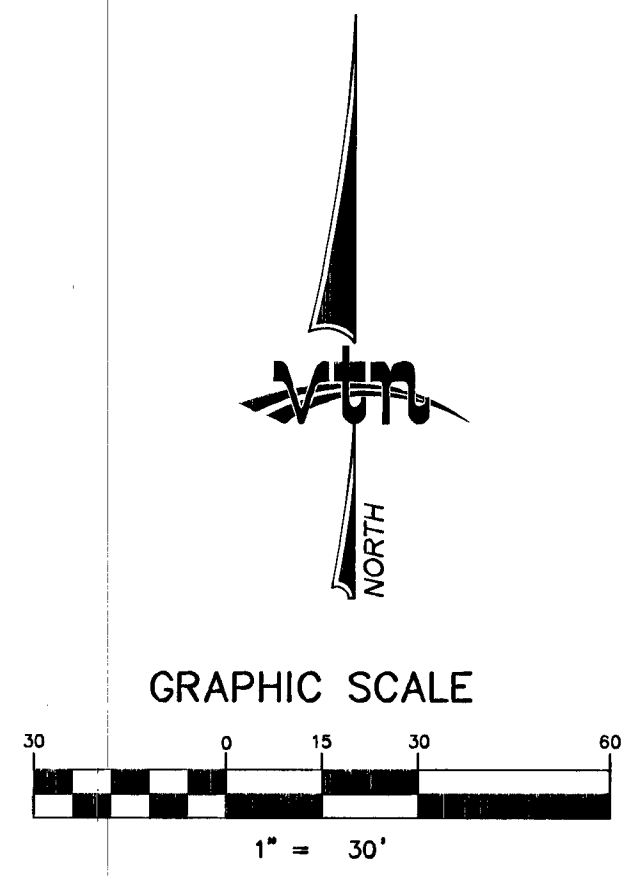
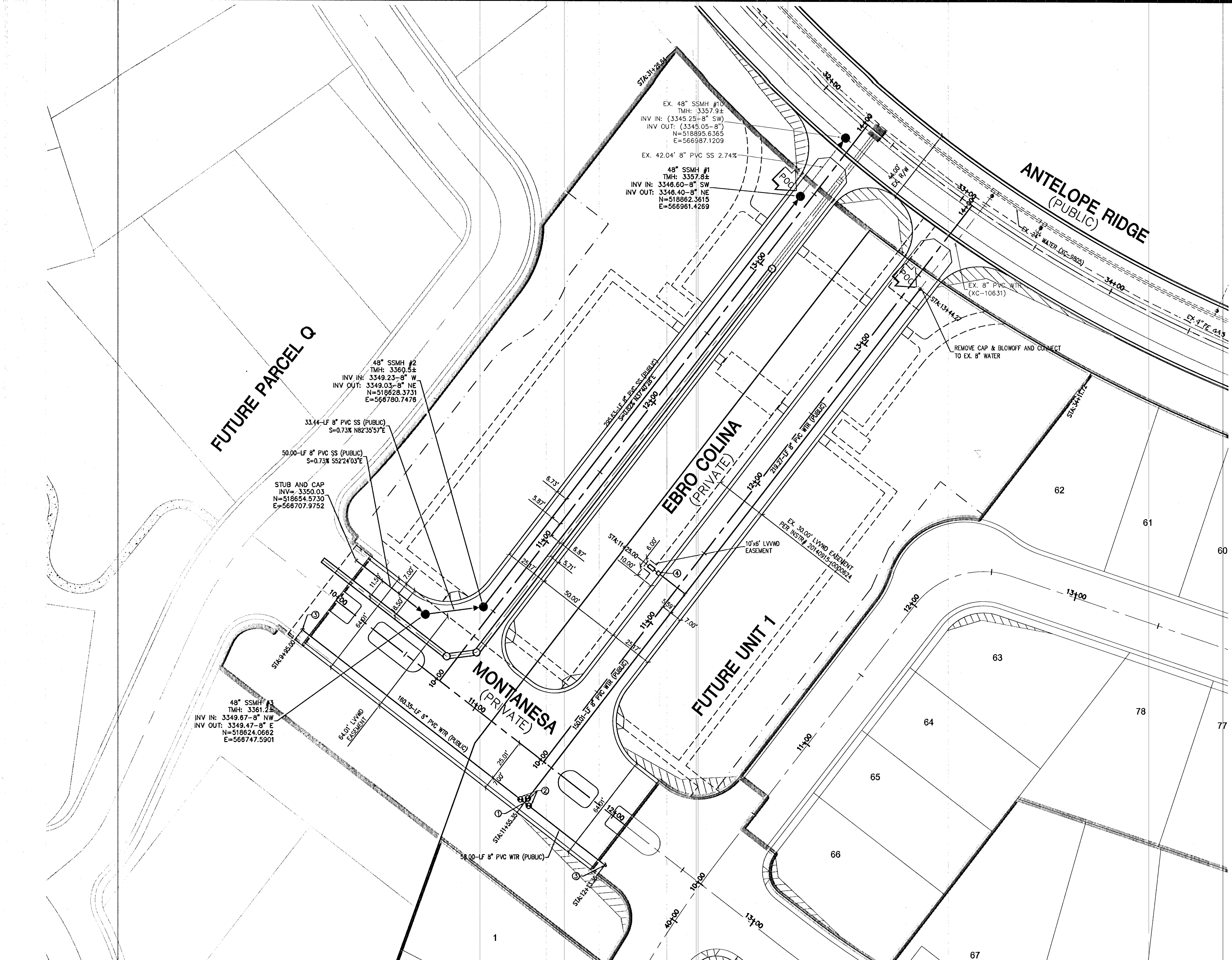




- WATER**
- ① 8" x 8" TEE PER UDACS PLT. 31
 - ② 8" GATE VALVE PER UDACS PLTS. 30 & 39
 - ③ 8" CAP W/ 2" B.O. PER UDACS PLT. 36
 - ④ 3/4" IRRIGATION METER W/ 1" RPPA PER UDACS PLT. 4 & 8 (BRASS BETWEEN METER & RPPA)
- SEWER**
- STANDARD MANHOLE PER SD-1A & SD-1B
 - 8" SEWER MAIN PER SD-16

PROJECT BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 5LV09:34NE8 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
NORTH 89°46'49" EAST - BEING THE BEARING OF THE NORTH LINE OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY THAT PARCEL MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 118 OF PARCEL MAPS, AT PAGE 100.

ALL NEW WATER MAINS TO HAVE MINIMUM 42" DEPTH OF COVER PER UDACS SECTION 2.08

NOTE:
VERIFY AND LOCATE ALL EXISTING UTILITIES WITHIN THE PROJECT WORK AREA.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

UTILITY CROSSING NOTE:
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR PORTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

ENGINEER 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 AND OVERHEAD UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES 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.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

NOTE
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE No. 15

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR PORTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

EXISTING SERVICES
IF ANY OF THE EXISTING SERVICES ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE UDACS STANDARDS, AND AT THE DEVELOPER'S EXPENSE.

APPROVALS:
APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 10/31/14 PROJECT 123027

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811
1-800-227-2800
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS

Call before you Overhead
Avoid overhead power line contact. It's costly.
CALL 811
1-800-227-2800
1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS

RYLAND HOMES 2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148 PH. (702) 872-7550 FAX (702) 362-2587 WEB WWW.VIVIN.COM CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS		CITY OF LAS VEGAS	
UTILITY PLAN		SUMMERLIN VILLAGE 23B PARCEL P & Q SHARED ENTRY	
DRAWN BY: LHM	DESIGNED BY: LHM	CHECKED BY: AY	PROJECT NO: 7623
JUNE 2014		JUNE 2014	
JUNE 2014		JUNE 2014	
SCALE: 1"=30' HORIZ. NA		SCALE: 1"=30' HORIZ. NA	
EXPIRES 06-30-16		EXPIRES 06-30-16	
PROFESSIONAL ENGINEER STATE OF NEVADA ARON M. YAMACHUKA 15079		PROFESSIONAL ENGINEER STATE OF NEVADA ARON M. YAMACHUKA 15079	
SHEET UT1 6 OF 11 SHEETS		SHEET UT1 6 OF 11 SHEETS	
DRAWING NO. 107Y5006-ENT		DRAWING NO. 107Y5006-ENT	