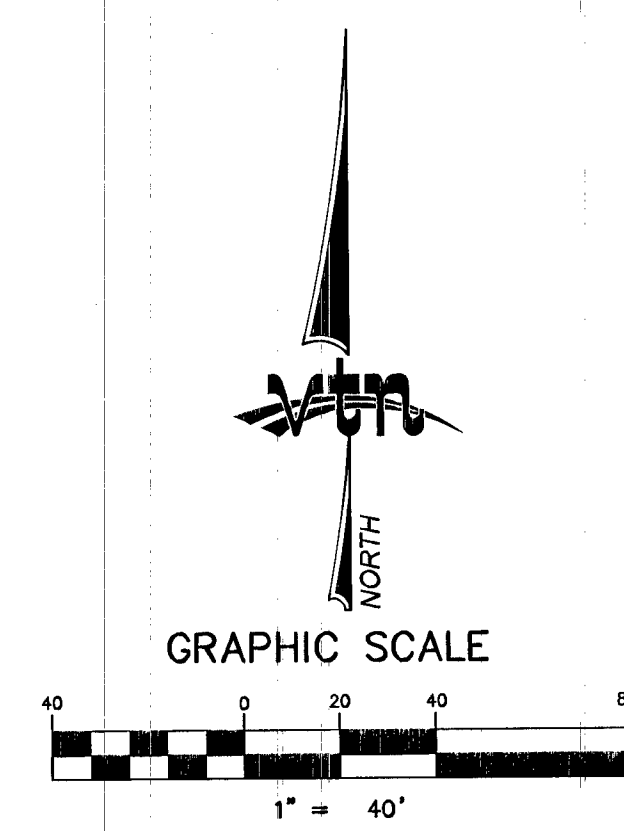
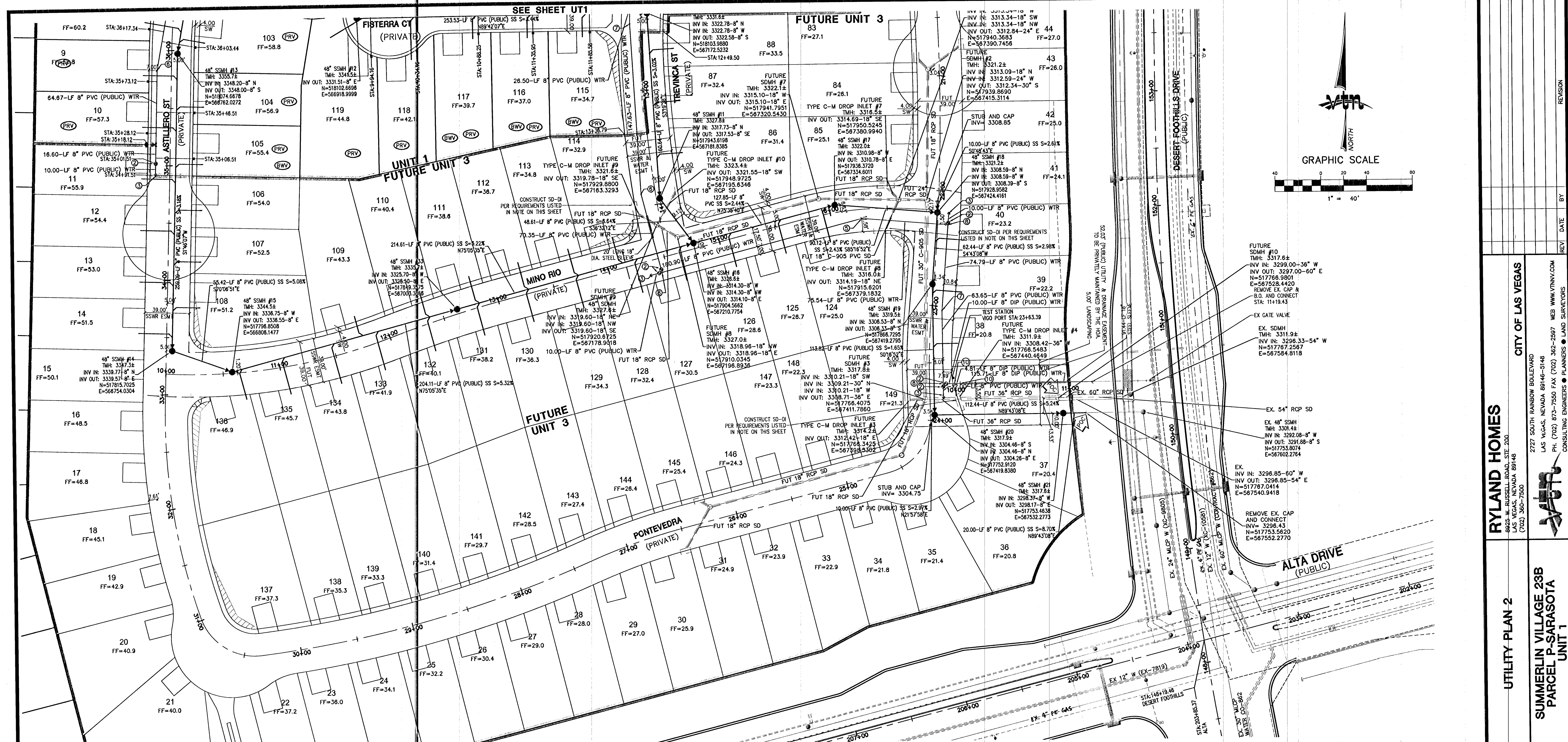




NOTE
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15

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.

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

FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 psi RESIDUAL PRESSURE.

BASED ON:
SQUARE FOOTAGE: <3600 SQ. FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQ. FT.
BUILDING HEIGHT: 2'
NUMBER OF STORIES: 2
TYPE OF CONSTRUCTION: Y
OCCUPANCY: SFR

FIRE HYDRANT DETAIL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO
FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 40

REVIEWED BY: *[Signature]*
DATE: 7/9/14

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

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.

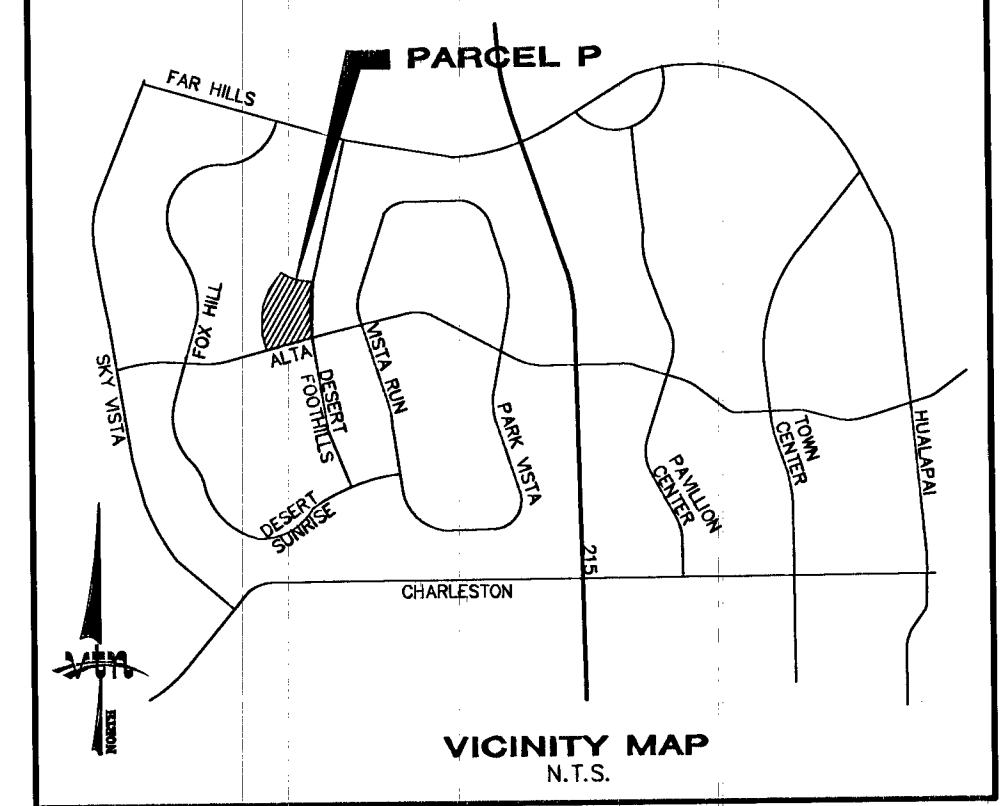
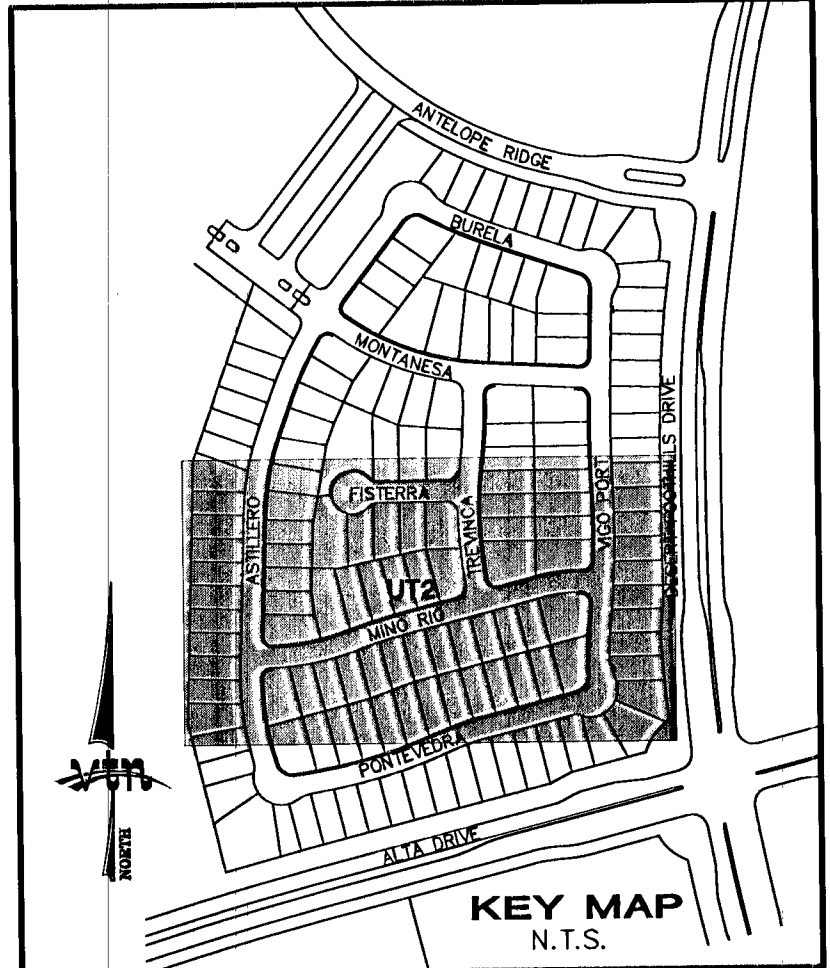
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

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.

NOTE
CONTRACTOR TO INSTALL ELASTOMETRIC JOINT SEALANT ON ALL JOINTS OF SS OR SD MANHOLES CLOSER THAN 10 FT OF WATER LINES.

PRV NOTE:
ALL LOTS MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

- WATER**
- ① 8" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE & 6" GVP PER UDACS PLT. 40)
 - ② 8" GATE VALVE PER UDACS PLTS. 30 & 39
 - ③ CAP W/ 2" B.O PER UDACS PLT. 36
 - ④ 8" 45° BEND PER UDACS PLT. 31
 - ⑤ 8" 22-1/2° BEND PER UDACS PLT. 31
 - ⑥ 8" 11-1/4° BEND PER UDACS PLT. 31
 - ⑦ 8" 5° BEND WITH RESTRAINED JOINTS
 - ⑧ 8"x8" TEE PER UDACS PLT. 31
 - ⑨ 8"x8" CROSS PER UDACS PLT. 31
 - ⑩ 8" 45° VERTICAL BEND PER UDACS PLT. 31
 - ⑪ 8"x8" REDUCER PER UDACS PLT. 30
 - ⑫ 3/4" RESIDENTIAL METER PER UDACS PLT. 4
- SEWER**
- STANDARD MANHOLE PER SD-1A & SD-1B
 - ④ SEWER LATERALS PER SD-22
 - ⑤ SEWER MAIN PER SD-16
- SEWER**
- BACK WATER VALVE (PRIVATE)
 - PRESSURE REDUCING VALVE (PRIVATE)
 - DRIVEWAY LOCATION (SCHEMATIC ONLY)



DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE, CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

NOTE: THIS PROJECT PLAN APPROVAL CONTINGENT ON LVVWD PROJECT #123027

PLAN APPROVAL
APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 11/03/14 PROJECT 123027

145547

Call before you Dig
Underground
1-800-455-7011
CLARK COUNTY TRAFFIC OPERATIONS
1-800-227-2929

Call before you Dig
Overhead
1-800-227-2929

PROJECT BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: SLV09:34N6 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
NORTH 89°48'49" 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.

RYLAND HOMES
2727 SOUTH RAINBOW BOULEVARD
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CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS

UTILITY PLAN 2

SUMMERLIN VILLAGE 23B
PARCEL P-SARASOTA
UNIT 1

DRAWN BY: LMH
DESIGNED BY: LMH
CHECKED BY: AY
PROJECT NO: 7625
EXPIRES 06-30-16

JULY 2014
JULY 2014
JULY 2014

SCALE: 1"=40' HORIZ.
VERT.

PROFESSIONAL ENGINEER STATE OF NEVADA
ARON M. YAMACHKA
101509
10/9/14

SHEET
UT2
10 OF 22 SHEETS
DRAWING NO.
107Y5011-1