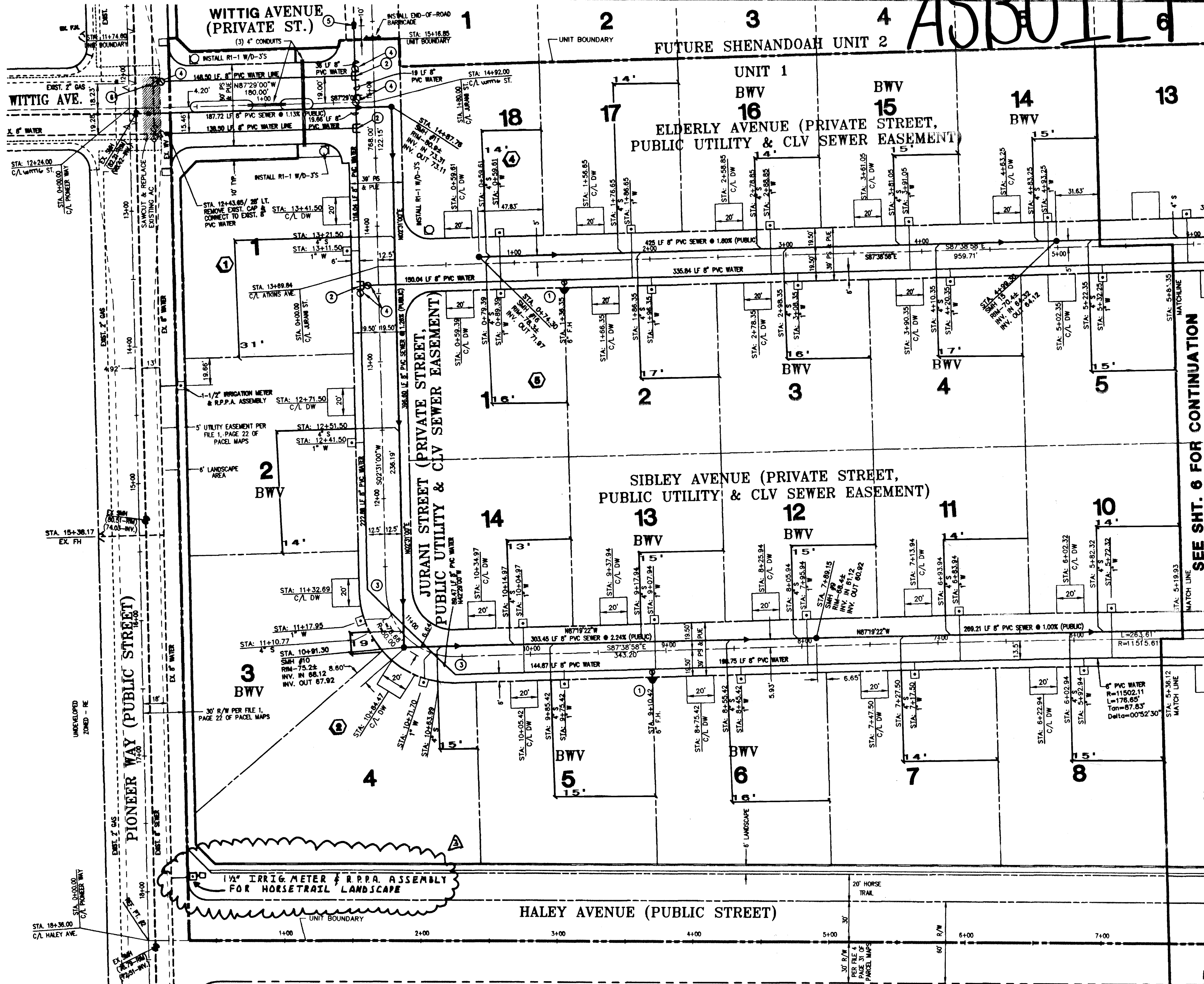




BASIS OF BEARING

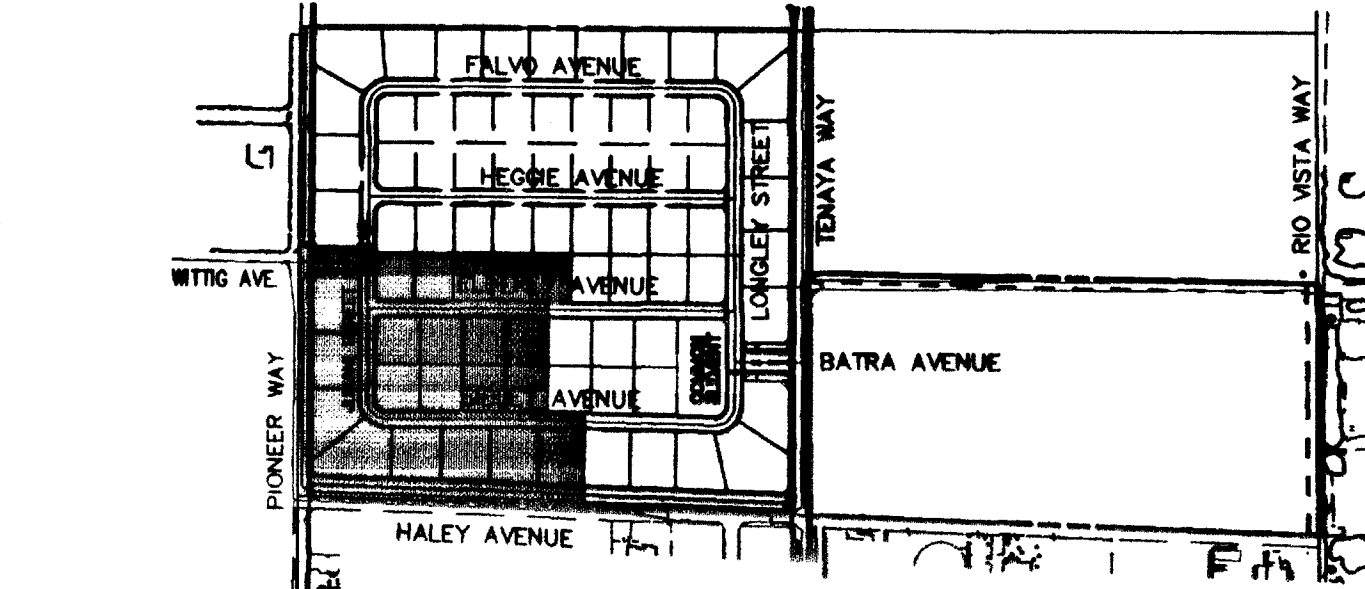
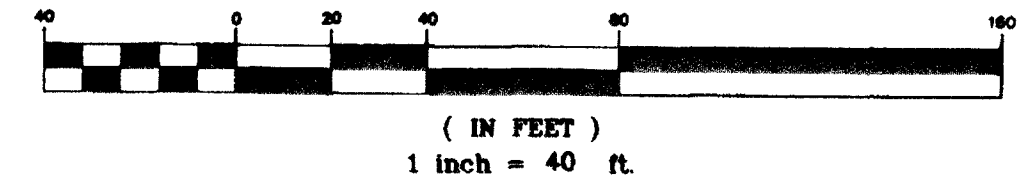
THE BASIS OF BEARING FOR THIS SURVEY IS THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 19 SOUTH, RANGE 40 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON FILE 85, PAGE 38 OF SURVEYS IN THE OFFICE OF THE CLARK COUNTY, NEVADA, RECORD OF SURVEY FILE 85, PAGE 38 O.R. CITY OF LAS VEGAS ANNEXATION ORD. # 4003

BENCHMARK

CLV BM # 48 11V9022W
RIVET & PLATE ON POWER-TRANS. PAD, 7535 W. DEER SPRINGS ROAD, 500' EAST OF BUFFALO DRIVE
ELEV. = 727.8646 (METERS)
ELEV. = 2388.0020 (U.S. SURVEY FEET)
NAVD 88 DATUM

Call before you Dig.

GRAPHIC SCALE



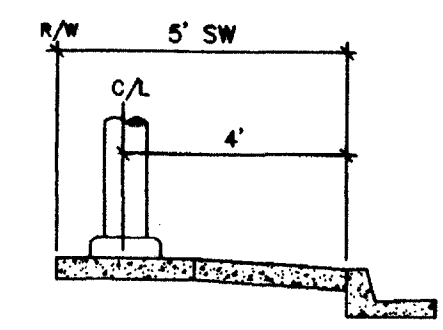
LOCATION MAP

8" SEWER DISCHARGES INTO 24" SEWER AT RIO VISTA WAY & HALEY AVE.

Call before you Overhead
1-702-593-6111
NEMA POWER ENVIRONMENT & SAFETY SERVICES DEPARTMENT

SEWER CONTRIBUTION

AVERAGE FLOW = .0236 MGD
PEAK FLOW = .08024 MGD

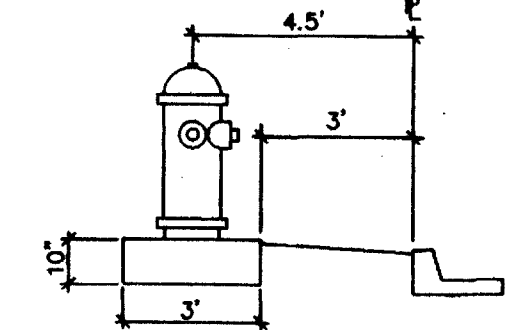


STREET LIGHT DETAIL

PUBLIC R/W ONLY

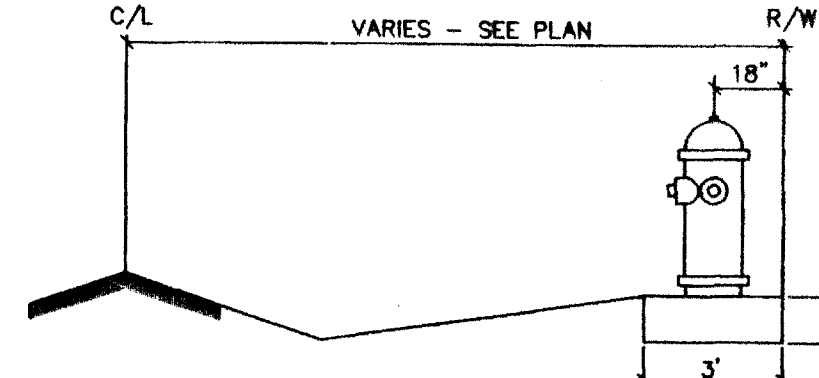
LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS: 1,750 GPM AT 20 PSI RESIDUAL PRESSURE



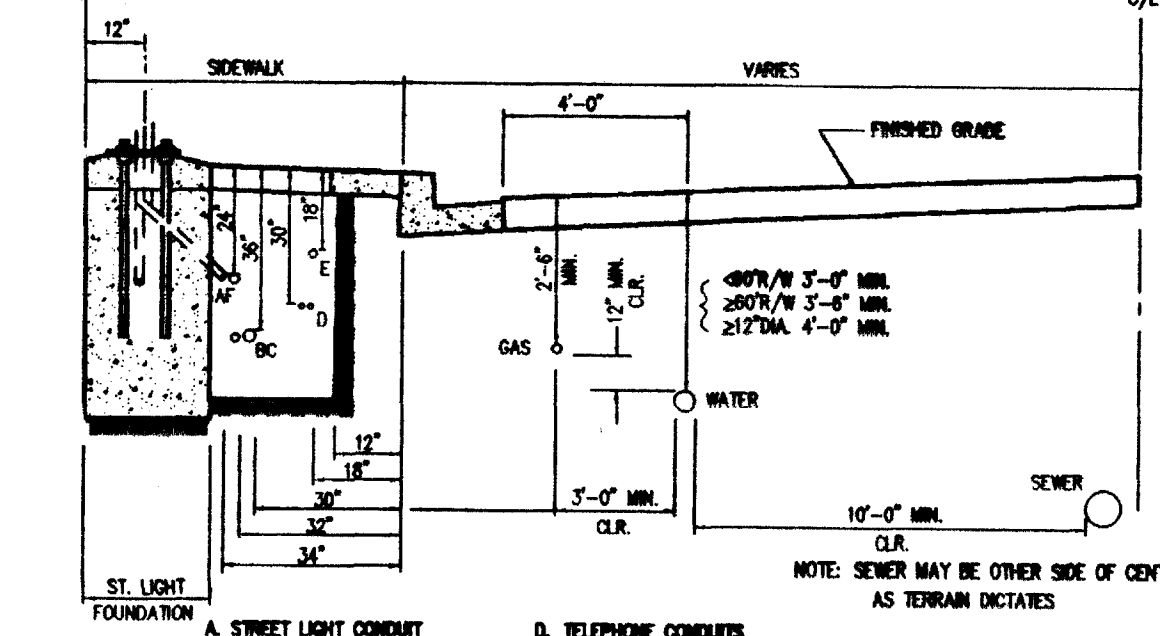
FIRE HYDRANT DETAIL

PRIVATE STREET



FIRE HYDRANT DETAIL

PUBLIC R/W



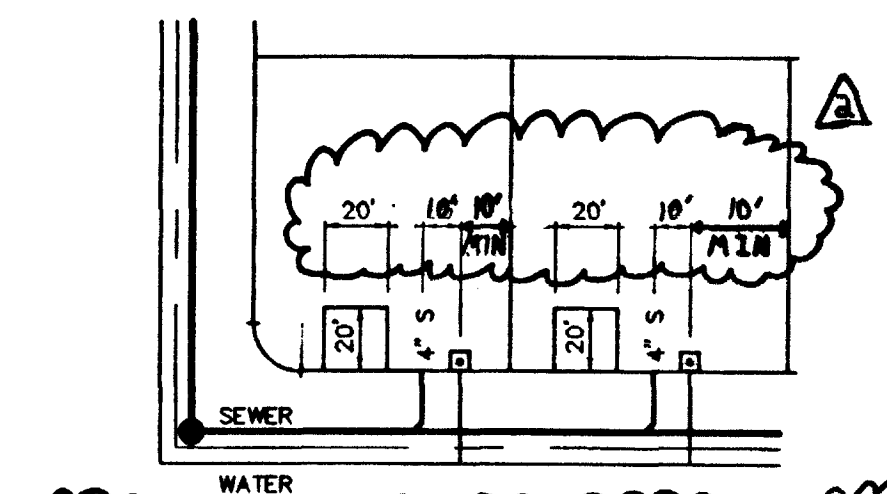
TYPICAL UNDERGROUND UTILITY LOCATION IN STREET
TABLE 'F' PAGE T-6 PER C.C.S.D.

CONSTRUCTION SCHEDULE

- ① FIRE HYDRANT PER UDACS PLATE #7 ----- 2 EA
- ② 8" x 8" x 8" TEE ----- 3 EA
- ③ 8" 45° ELBOW ----- 2 EA
- ④ 8" GATE VALVE ----- 5 EA
- ⑤ 8" CAP W/2" BLOW-OFF PER UDACS PLATE #4 ----- 1 EA
- ⑥ 8" M.J. TAPPING TEE & VALVE PER U.D.A.C.S. PLATE #22 ----- 1 EA
- 3/4" METER PER UDACS PLATE #10 ----- 21 EA
- 1" SERVICE ----- 21 EA
- 6" WATER MAIN ----- 1,799 LF
- 4" DIAMETER MANHOLE PER C.C.S.D. DWG. NO. SD-1 ----- 4 EA
- 8" SEWER MAIN ----- 1,130 LF
- 4" SEWER LATERALS ----- 515 LF
- 1-1/2" IRRIGATION METER & R.P.P.A. ASSEMBLY ----- 2 EA
- R1-1 W/D-3'S (36") ----- 3 EA
- END-OF-ROAD MARKER ----- 1 EA
- BWV INSTALL BACKWATER VALVE PER SANITATION STD. DWG. #SD-29 ----- 11 EA

CONSTRUCTION NOTES

1. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANNOX BOX, FH, TEL BOX, ETC).
2. 36" WIDE PRIVATE INGRESS/EGRESS EASEMENT AND PUBLIC UTILITY EASEMENT AND TO THE CITY OF LAS VEGAS PUBLIC WATER AND SEWER EASEMENT AND INGRESS/EGRESS EASEMENT FOR PUBLIC USE, DEDICATED PER FINAL MAP.
3. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



TYPICAL UTILITY LATERAL SECTION
THIS DETAIL SUPERSEDES ALL STATIONS FOR LATERALS PER DEVELOPERS OF NEVADA

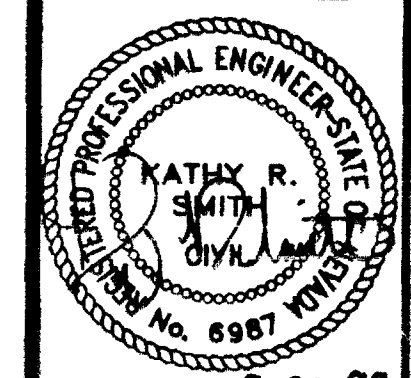
APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District
10/7/98
DATE

THE DEVELOPERS OF NEVADA
7448 WEST SAHARA AVENUE
LAS VEGAS, NEVADA 89117
(702) 222-1410

MASTER UTILITY PLAN
ASBUILT
SHENANDOAH UNIT 1

DRAWN BY: ROCKY
DESIGNED BY: ROCKY/CHAO
CHECKED BY: GREG RIBERO
PROJECT NO: 885 C520
SCALE: 1" = 40' HOR.
SHEET C5
8 OF 51 SHEETS
DRAWING NO. 3074-4573-1



9-22-98