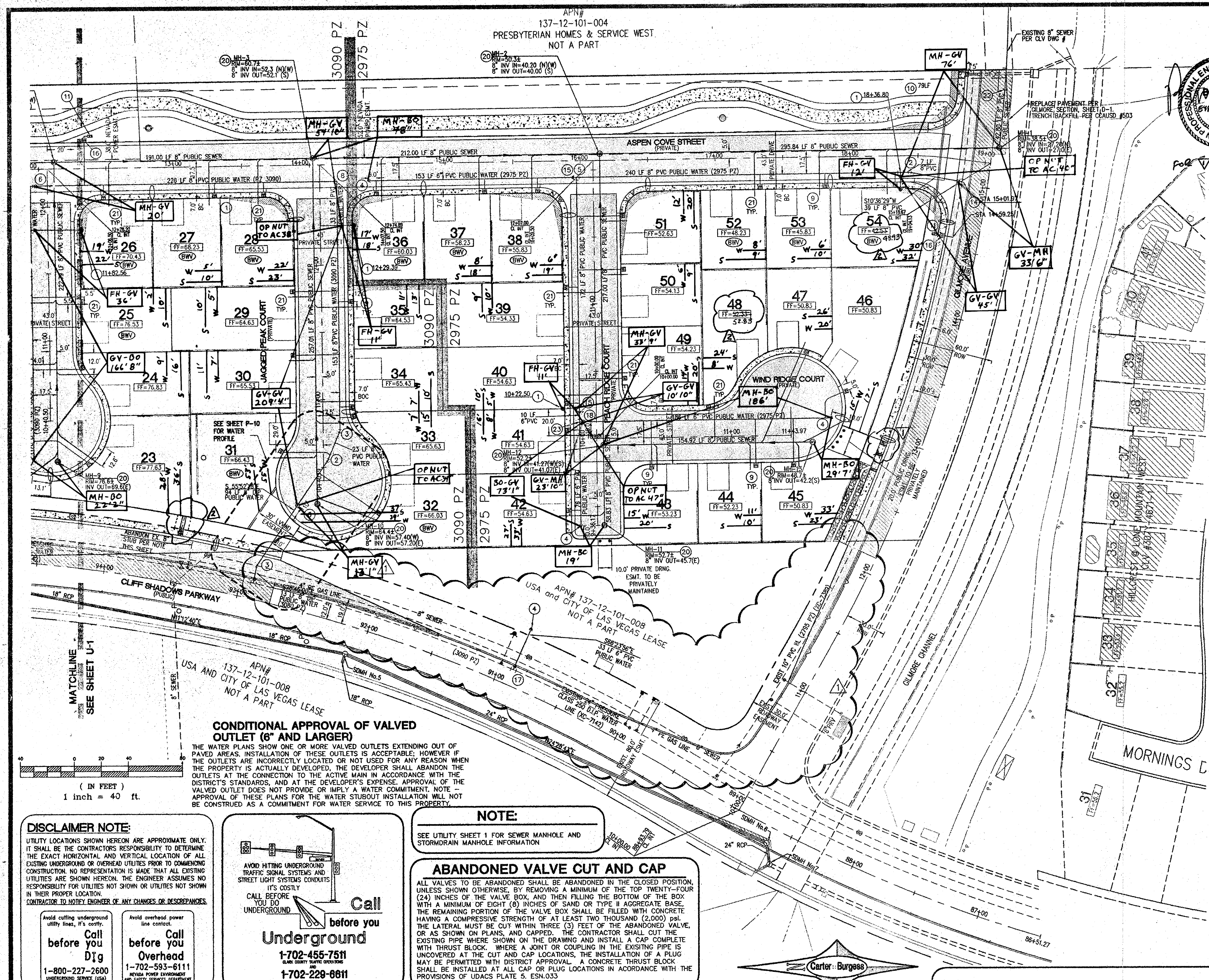




LEGEND:

- PROPOSED PVC SEWER MAIN WITH 4" MANHOLE (SIZE AS SHOWN)
- PROPOSED PVC WATER MAIN AND GATE VALVE (SIZE AS SHOWN)
- PROPOSED FIRE HYDRANT ASSEMBLY
- EXISTING PVC SEWER MAIN WITH EXISTING MANHOLE
- EXISTING STORM DRAIN MAIN WITH EXISTING MANHOLE
- EXISTING PVC WATER MAIN AND GATE VALVE
- PROPOSED 4" SEWER LATERAL AND CLEANOUT
- PROPOSED 1" WATER SERVICE LATERAL WITH 5/8" METER
- EXISTING FIRE HYDRANT ASSEMBLY
- 20' SEWER EASEMENT
- BACK WATER VALVE

WATER CONSTRUCTION NOTES

- FIRE HYDRANT ASSEMBLY PER UDACS PLATE 7 (INCLUDES TEE AND GATE VALVE)
- INSTALL 8" 11 1/4" BEND
- INSTALL 8" 22 1/2" BEND
- INSTALL 6" OR 8" CAP & 2" BLOW OFF ASSEMBLY PER UDACS PLATE 4
- INSTALL 8" TEE
- INSTALL 8" GATE VALVE
- INSTALL 8" 45° BEND
- INSTALL 8" 90° BEND
- INSTALL 1" WATER SERVICE LATERAL WITH 5/8" METER PER UDACS PLATE No. 18
- INSTALL 2-4" IRRIGATION SLEEVES
- INSTALL 1" R.P.P.A. PER UDACS PLATE 11A
- INSTALL 1" WATER SERVICE WITH 3/4" METER PER UDACS PLATE No. 18
- INSTALL 24"x8" TAPPING TEE AND 8" TAPPING VALVE
- INSTALL 10"x8" MJ TAPPING TEE AND 8" TAPPING VALVE
- INSTALL 8"x6" REDUCER
- INSTALL 5/8" IRRIGATION WATER METER PER UDACS PLATE No. 18
- INSTALL 24"x8" MJ TAPPING TEE AND 8" TAPPING VALVE
- INSTALL 6" GATE VALVE
- INSTALL 8"x6" TEE
- INSTALL 6"x6" TEE

SEWER CONSTRUCTION NOTES

- INSTALL 48" SANITARY MANHOLE
- INSTALL 4" PVC SEWER LATERAL (PRIVATE)
- REMOVE EXISTING 8" CAP AND CONNECT 8" PVC SEWER

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE: 1900 SQ. FT.

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A

BUILDING HEIGHT: 25ft

NUMBER OF STORIES: 2 STORY

TYPE OF CONSTRUCTION: TYPE V-N

OCCUPANCY: SINGLE-FAMILY

FULL AUTOMATIC SPRINKLER SYSTEM: NO

REVIEWED BY: J.B.M. 3/6/05 DATE

METER SUMMARY

METER SIZE	QUANTITY
5/8" METER (DOMESTIC)	54
5/8" METER (IRRIGATION)	3

LEGAL DESCRIPTION

THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 59 EAST, N.D.M., CLARK COUNTY, NEVADA.

TOGETHER WITH THE EAST HALF (E 1/2) OF THE SOUTHWEST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 59 EAST, N.D.M., CLARK COUNTY, NEVADA.

BENCHMARK

CITY OF LAS VEGAS STATION 11V09 12NNW6

RIVET AND IN CONCRETE PAD (TRANS SW7040) ON THE EAST 0' CLIFF SHADOWS +/- 175 FT NORTH OF ALEXANDER.

ELEVATION = 887.6822 meters (NAVD83 PUBLISHED) ELEVATION = 2912.34 U.S. SURVEY FEET (NAVD83 PUBLISHED)

BASIS OF BEARINGS

NORTH 01°09'30" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 59 EAST, N.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDERS OFFICE IN FILE 120, PAGE 83 OF SURVEYS.

GENERAL NOTES

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- WATER AND SEWER SERVICES LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE).
- NEVADA POWER COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.
- ALL PRIVATE STREETS ARE PUBLIC DRAINAGE EASEMENTS, PUBLIC SEWER EASEMENTS AND ARE TO BE PRIVATELY MAINTAINED. ALSO LVHMD EASEMENTS AND PUBLIC UTILITY EASEMENTS.
- ALL PRIVATE STREETS ARE PUBLIC DRAINAGE EASEMENTS AND PUBLIC SEWER

R.P.P.A. NOTE - (3) 1"

APPROVED REDUCED PRESSURE PRINCIPAL ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE No. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPAL ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE L.V.V.W.D.

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.

Building Information

TYPE OF CONSTRUCTION: TYPE V-N

TOTAL SQUARE FOOTAGE: 1,900 S.F. (MAX)

NUMBER OF STORIES: 2 STORY

BUILDING USE: RESIDENTIAL

SPRINKLERED: NON-SPRINKLERED

CITY OF LAS VEGAS FIRE DEPT.

APPROVED BY: J.B.M.

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVHMD.

FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

3/6/05 DATE

CUT AND CAP

THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING WHERE SHOWN ON THE DRAWING, AND INSTALL A CAP COMPLETE WITH THRUST BLOCK, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS. THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5.

APPROVAL

APPROVED BY: J.B.M. 3/6/05 DATE

LAS VEGAS VALLEY WATER DISTRICT PROJECT # H-108338

DISCLAIMER NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY CHANGES OR DISCREPANCIES.

Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

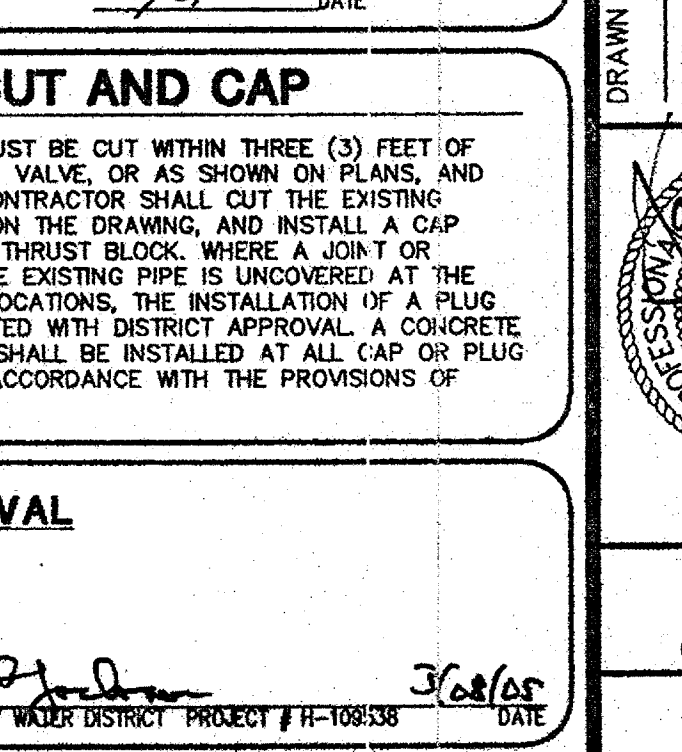
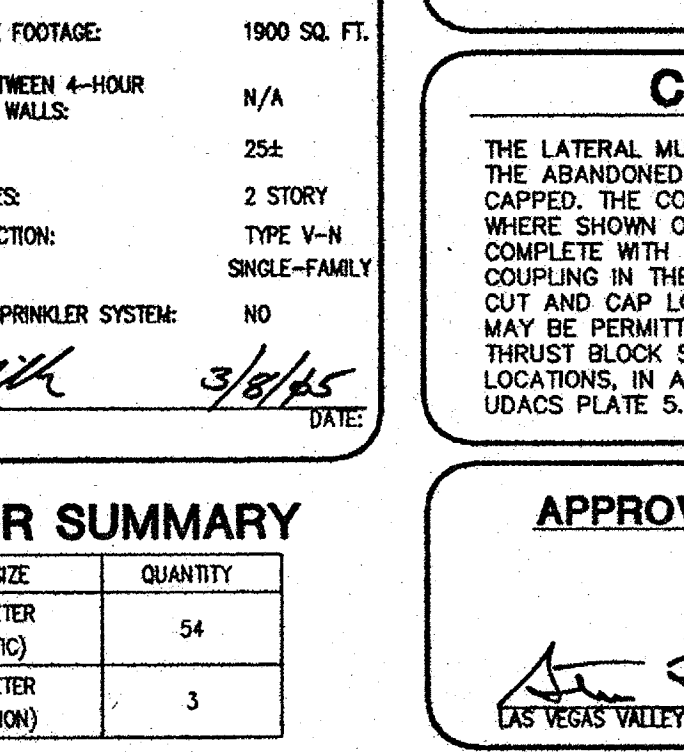
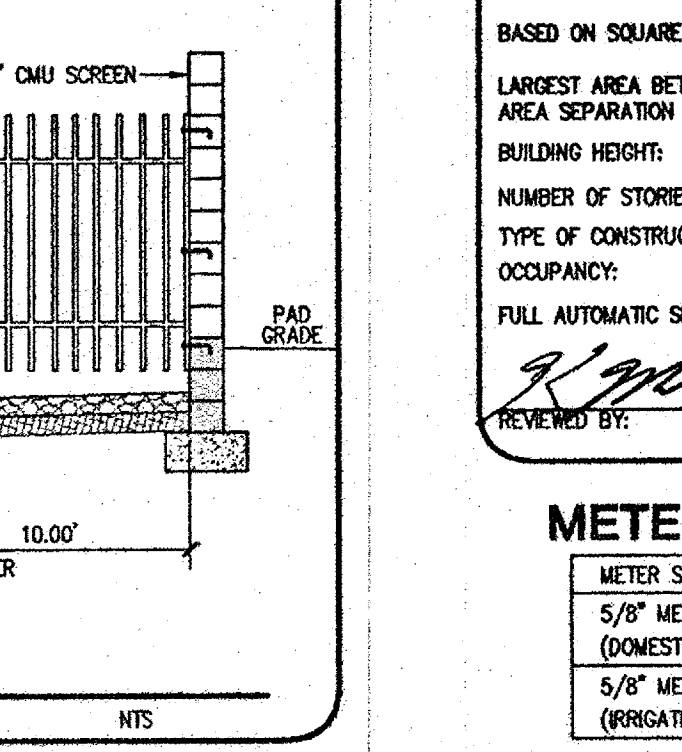
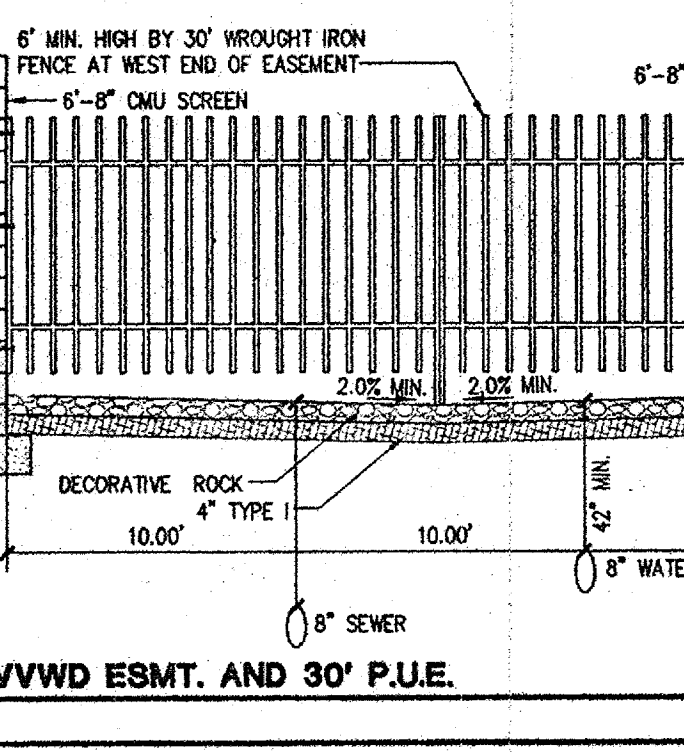
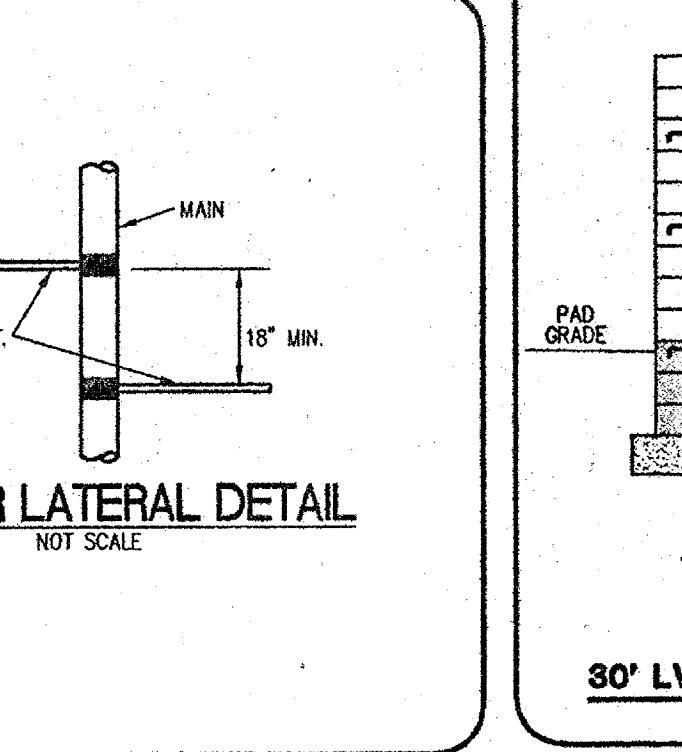
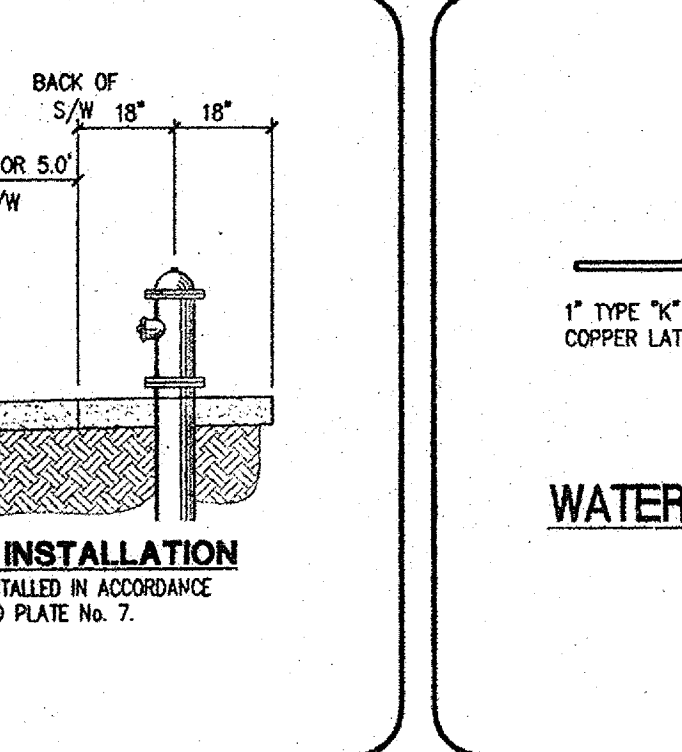
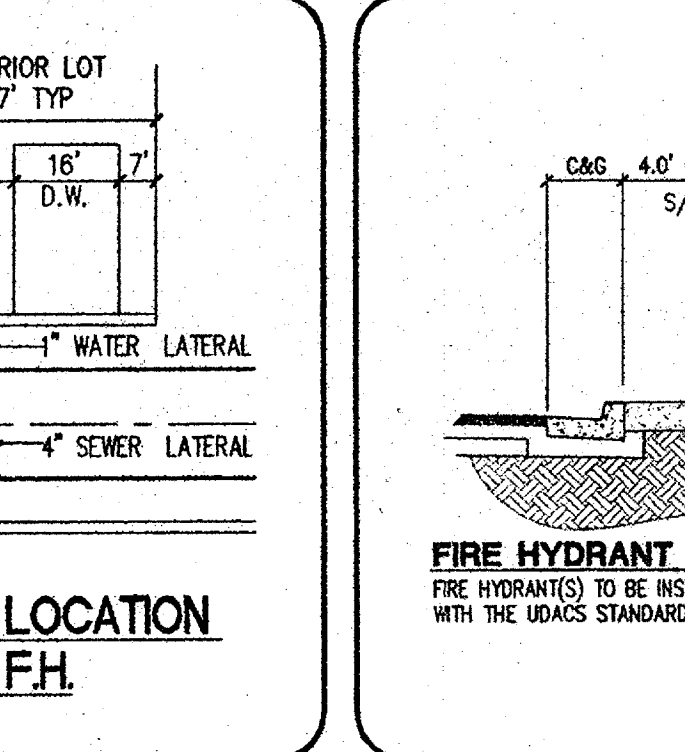
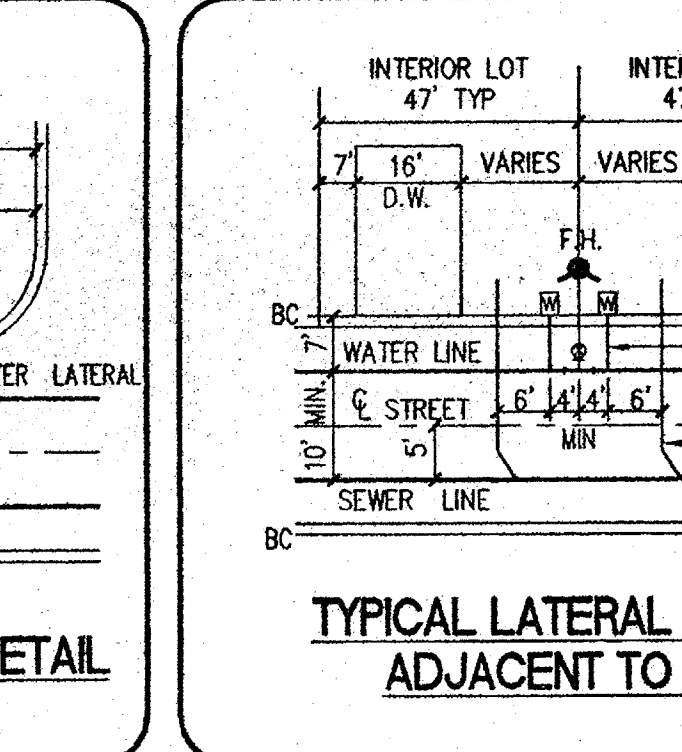
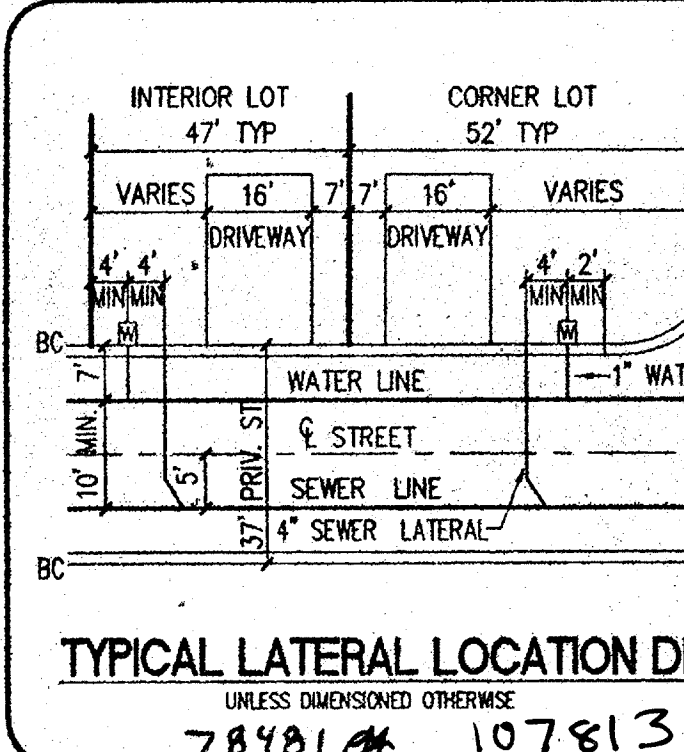
Call before you Overhead
1-702-593-6111
NEVADA POWER COMPANY
AND SAFETY SERVICES DEPARTMENT

NOTE:

SEE UTILITY SHEET 1 FOR SEWER MANHOLE AND STORMDRAIN MANHOLE INFORMATION

ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS. THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5, ESN.033.



KBHOME

As-Built

VILLAS @ CLIFF SHADOWS

UTILITY PLAN

NOV. 2004

DESIGNED BY: J.B.M.

CHECKED BY: J.B.M.

PROJECT NO: 241080

SCALE: 1"=40' HORIZ. 1"=40' VERT.

SHEET U-2

6 OF 25 SHEETS

DRAWING NO. 107Y4856

3/6/05

750 Pal Road, Suite F Las Vegas, NV 89119 (702) 614-2800

6655 Bermuda Road Las Vegas, NV 89119 (702) 898-5400 Fax (702) 898-5454

Carter-Burgess

Consultants in Planning, Engineering, Construction Management, and Related Services

-SEWER ASBUILT- REPLAN