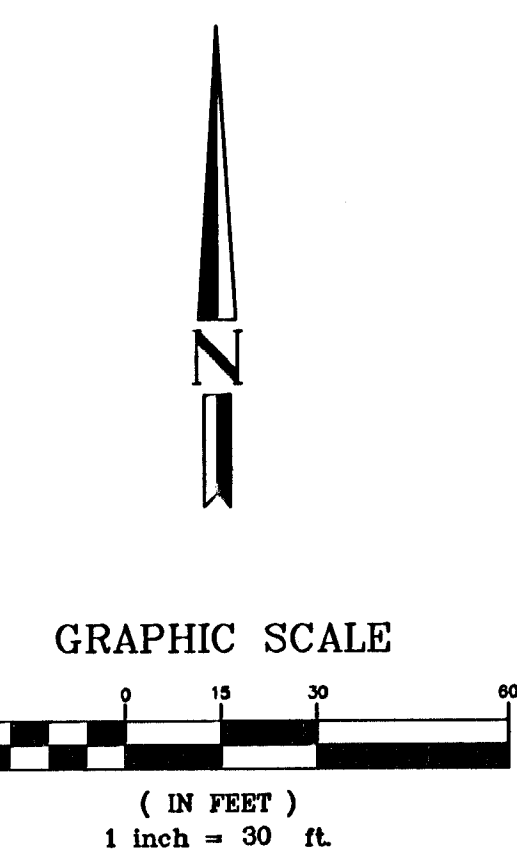
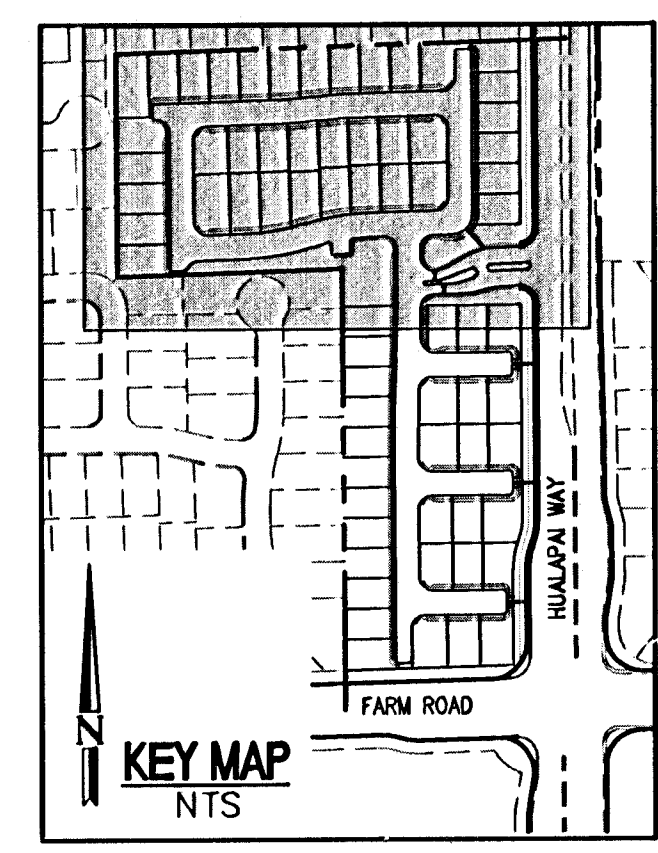
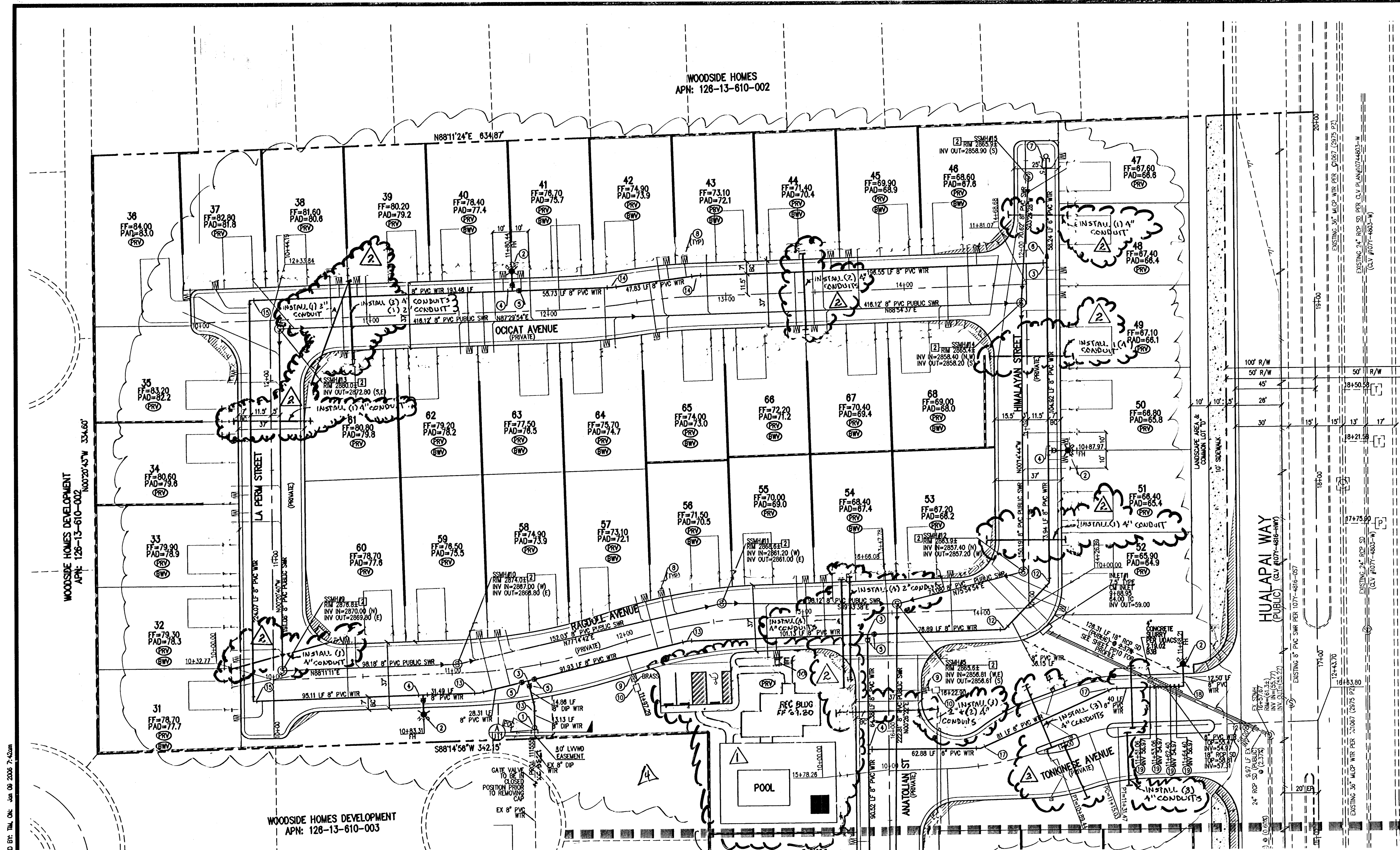
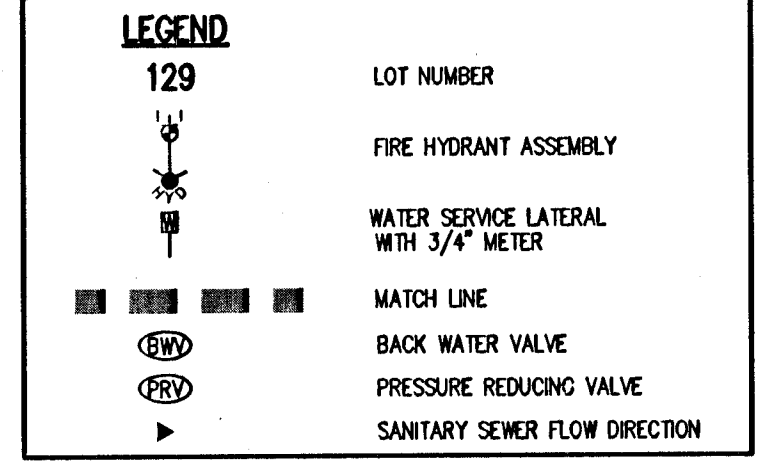




- GENERAL NOTES:**
- SEE SHEET NT FOR WATER AND UTILITY QUANTITIES.
 - ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 - WATER AND SEWER SERVICES LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE).
 - INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27.
 - SEE SHEET NT FOR SEWER MANHOLE SCHEDULE & STORM DRAIN MANHOLE SCHEDULE.
 - ALL COMMON LOTS, PUBLIC DRAINAGE EASEMENTS, & LANDSCAPE EASEMENTS ARE TO BE PRIVATELY MAINTAINED.
 - BACKWATER VALVES ARE REQUIRED ON LOTS 15, 16, 31 - 33, 40 - 48.
 - PRESSURE REDUCING VALVES ARE REQUIRED ON ALL LOTS.
 - 6" CONCRETE COLLAR TO BE INSTALLED AROUND WATER METERS NOT LOCATED IN SIDEWALK.

BASIS OF BEARING:
NORTH 87°49'54" EAST
BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 13, TOWNSHIP 19 SOUTH, RANGE 59 EAST, MAJORITY CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, ALSO BEING THE CENTERLINE OF GRAND TETON DRIVE AS SHOWN IN FILE 124, PAGE 94 OF RECORD OF SURVEYS CLARK COUNTY OFFICIAL RECORDS.

ADJUST EXISTING WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 8. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.



WATER MAIN JOINT DEFLECTION (PVC 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 1/100 OF THE PIPE LENGTH. A MINIMUM OF 1/100 OF THE PIPE LENGTH SHALL BE MAINTAINED AT ALL TIMES.

- WATER CONSTRUCTION NOTES**
1. REMOVE CAP AND BLOW OFF PER UDACS PLATE NO. 4A, NOTE 1, AND CONNECT TO EXISTING MAIN.
 2. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7.
 3. INSTALL 8" TEE.
 4. INSTALL 8" X 8" TEE.
 5. INSTALL 8" GATE VALVE.
 6. INSTALL 8" X 8" REDUCER.
 7. INSTALL CAP & 2" BLOW OFF ASSEMBLY PER UDACS PLATE NO. 4A.
 8. INSTALL 1" WATER SERVICE WITH 3/4" METER PER UDACS PLATE NO. 18 (17P).
 9. INSTALL 1" IRRIGATION METER PER UDACS PLATE NO. 10.
 10. INSTALL 1" RPPA PER UDACS PLATE NO. 11A.
 11. INSTALL 4" IRRIGATION SLEEVES (2).
 12. INSTALL 8" 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 13. INSTALL 8" 11.25° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 14. INSTALL 8" 90° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 15. INSTALL 8" 90° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 16. INSTALL 8" GATE VALVE.
 17. INSTALL 8" 22.5° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 18. INSTALL 8" 90° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
 19. INSTALL 8" VERTICAL 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5.
- SEWER CONSTRUCTION NOTES**
1. SEWER POINT OF CONNECTION.
 2. INSTALL 48" STANDARD MANHOLE PER CCSD STD. NO. 50-1.
 3. INSTALL SEWER LATERAL PER CCSD STD. NO. 50-12.

NOTE:
THIS PROJECT PLAN APPROVAL CONTINGENT ON 111555 CLIFFS EDGE PDD 106 & 109 UNIT 1 PLAN APPROVAL.

STATIC PRESSURE NOTE (ALL LOTS)
THIS PROPERTY HAS STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, 2-IN-1 (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVs ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

PRIVATE STREET NOTE:
"ALL PRIVATE STREETS / DRIVES ARE P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA."

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 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.

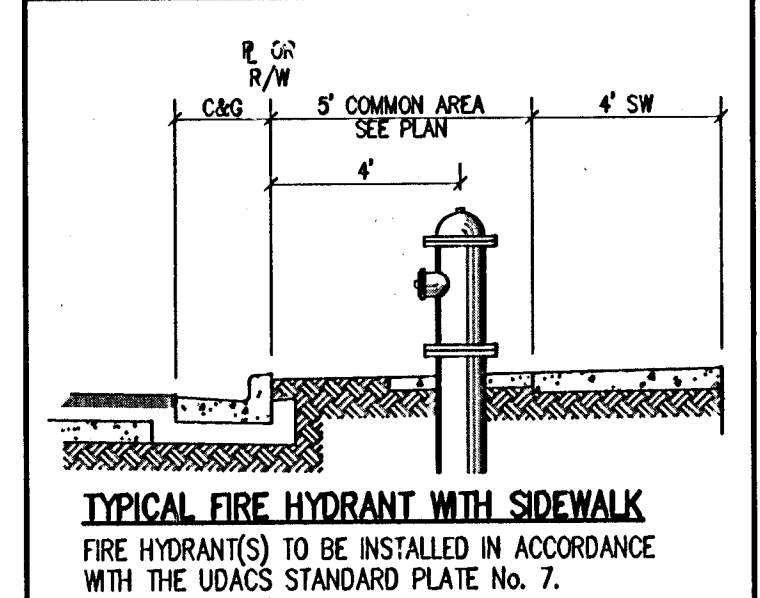
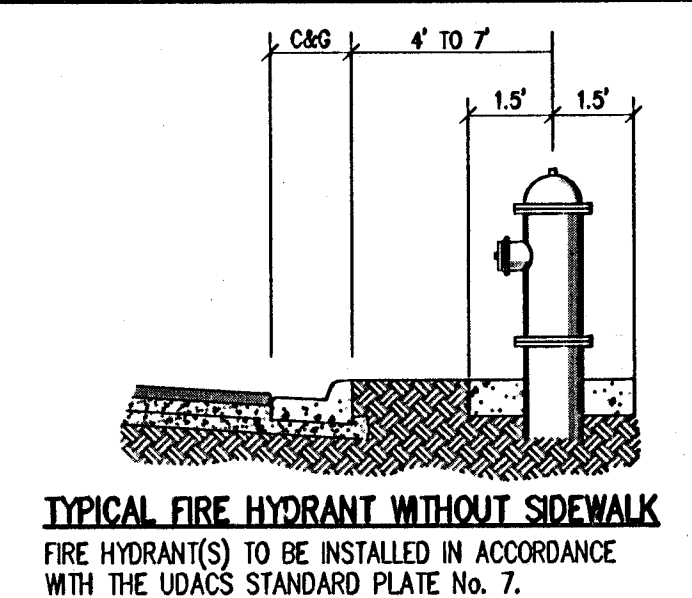
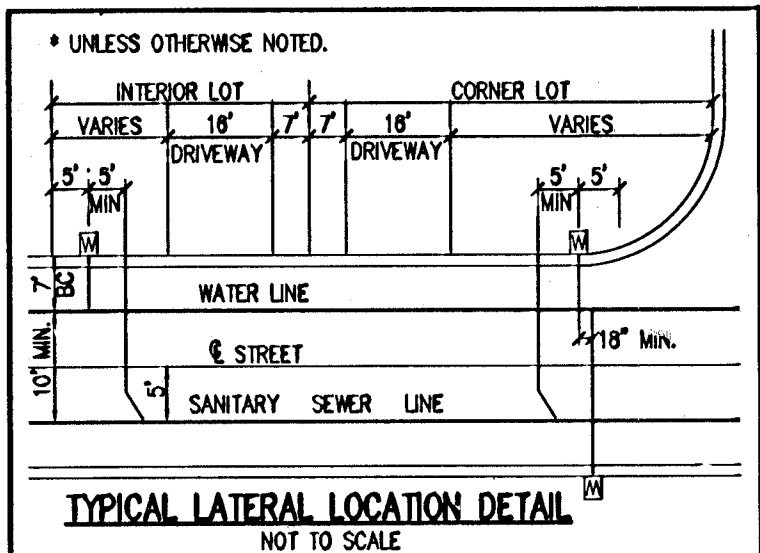
FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENTS IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON SQUARE FOOTAGE: 1200-2400 SF
LARGEST AREA BETWEEN 4-HOURS: N/A
AREA SEPARATION WALLS: N/A
BUILDING HEIGHT: 25±
NUMBER OF STORIES: 2
TYPE OF CONSTRUCTION: V-NR
OCCUPANCY: SINGLE FAMILY
FULL AUTOMATIC SPRINKLER SYSTEM: NO

APPROVAL
LAS VEGAS VALLEY WATER DISTRICT
PROJ. 105505
DATE: 7-27-06

CITY OF LAS VEGAS FIRE DEPT
APPROVED BY: [Signature]
DATE: 1-18-06
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 OF COUNTY LAWS.
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.
FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

BENCHMARK:
BLV99 134
FOUND CITY OF LAS VEGAS RIVET AND PLATE IN A CONCRETE CYLINDER ON THE NORTHWEST CORNER OF HUALAPAI WAY AND FARM ROAD.
METERS = 871.9710 m
FEET = 2860.79 ft

SEWER CONTRIBUTION
68 LOTS
AVERAGE DAILY FLOW (69 x 250) / 1M = 0.0170 MG
PEAK DAILY FLOW PF = 3 x 0.017 = 0.0510 MG



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 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Call before you Dig
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Call before you Dig
1-800-227-2800

Call before you Dig
1-702-593-0111
NEVADA POWER CORPORATION
SAFETY SERVICES DEPARTMENT

Call before you Dig
1-800-227-2800

REV	REVISION	DATE	BY
1	REVISED CLARIFICATIONS & SIDEWALKS	8/14/06	WDS
2	ADDED CONDUIT TO NEW POWER CROSSINGS	7/18/06	HBS
3	DELETED ALL GUTTERS, FASCIATE SIDEWALK	7/26/06	KB

LENNAR COMMUNITIES, NEVADA
2920 N. GREEN VALLEY PKWY, SUITE 811 HENDERSON NV, 89014
(702) 458-7700

Development Resource Consultants, Inc.
Civil Engineering • Land Surveying • Land Planning
7150 INDUSTRIAL ROAD, SUITE 800
LAS VEGAS, NV 89118 (702) 270-6119

DRC

UTILITY PLAN 1

FARM AND HUALAPAI

UT1

7 OF 20 SHEETS

DRAWING NO. 107Y4905

DATE: 10-05-05
DESIGNED BY: TMO
CHECKED BY: TMO
PROJECT NO: LV04-138
SCALE: 1"=30'

PROFESSIONAL SEAL
DENNIS B. WERTZLER
CIVIL
No. 11970
7-15-10