

Call before
you Dig
1-800-227-2600

Call before
you Overhead
1-702-593-6111

BASIS OF BEARING

BEING THE NORTH LINE OF THE LOT 63, AS IT IS SHOWN ON THE RECORD OF SURVEY IN FILE 52, OF SURVEYS, PAGE 70, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA, WHICH BEARS: SOUTH 85°43'37" WEST.

BENCHMARK

BEING THE CITY OF NORTH LAS VEGAS BM, #518118 (11V90-13E4), 50' WEST OF BLM BRASS CAP @ DECATUR BLVD. & FARM ROAD. ELEVATION = 707.9639 METERS = 2,322.71 FEET. (N.A.V.D. 1988) (ELEVATION BASED ON CITY OF LAS VEGAS VERTICAL DATUM)

SEWER CONNECTION NOTE

A SEGMENT OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY HAVE BEEN DEEMED AVAILABLE FOR SERVICE.

CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. W.V. BOX, W.M., ANNOCE BOX, FH, TEL. BOX, ETC.)

REDUCED PRESSURE PRINCIPLE ASSEMBLY 1-1

APPROVED REDUCED PRESSURE PRINCIPLE 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 PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. 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.

NOTE

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

LEGEND

P PRIVATE DRIVE, P.U.E. AND CITY OF LAS VEGAS SEWER EASEMENT, TYPICAL

NOTE

SEE SHEET 3 OF 17 FOR STREET LIGHT LEGEND

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-7171) PRIOR TO START OF CONSTRUCTION. WORK SHALL BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT, UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO INCHES (2") IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, GUTTERS, CURBS AND VALLEY GUTTERS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:

A MINIMUM EIGHTEEN INCH (18") VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:

- POTABLE WATER SUPPLY QUALITY MATERIAL
- ENCASEMENT, WITH FOUR INCH (4") CONCRETE (MINIMUM)
- SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.

EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER ON EITHER SIDE OF THE MAIN, A MINIMUM OF TEN FOOT (10') DISTANCE PERPENDICULAR TO THE EXTERIOR OF THE WATER MAIN.

9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX INCH (6") DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL STANDARD PLATE NO. 27.

10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.

11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO INCHES (2") AND SMALLER FROM LVVWD CENTRAL STORES, TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

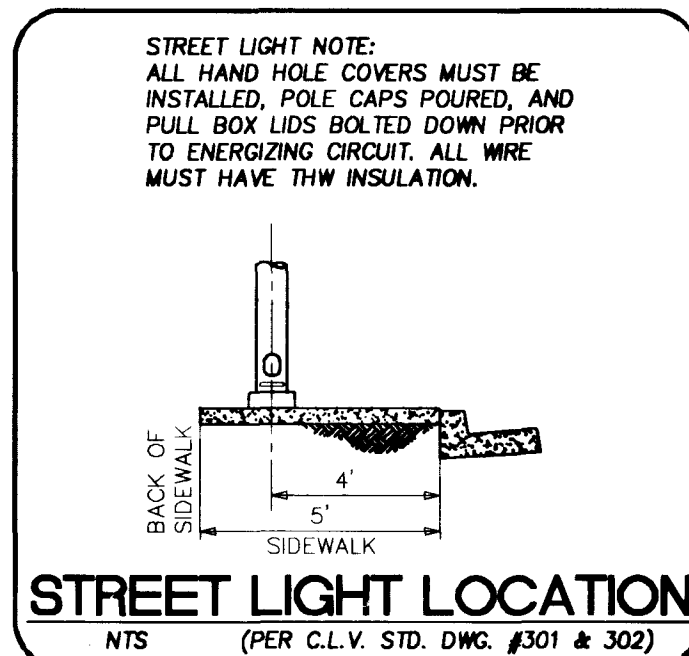
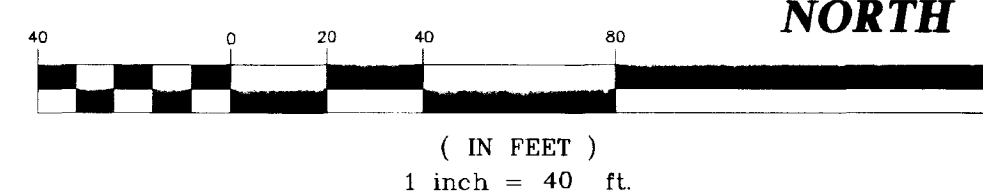
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES THAT MAY REQUIRE TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.

13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

SIGNAGE NOTES

- INSTALL 30" X 30" R1-1 (STOP SIGN) UNLESS NOTED OTHERWISE
- INSTALL STREET NAME SIGN PER CLARK COUNTY AREA STANDARD DWG NO. 250
- INSTALL 25 MPH SPEED LIMIT SIGN (R2-1)

GRAPHIC SCALE



WATER CONSTRUCTION NOTES AND QUANTITIES

1	INSTALL 8" PVC WATER LINE.....	3703.43 LF
2	INSTALL 6" PVC WATER LINE.....	488.55 LF
3	8" x 6" REDUCER.....	3 EA
4	INSTALL 1" RPPA (PER U.D.A.C.S. STD. PLATE NO. 11A).....	EA
5	INSTALL FIRE HYDRANT ASSEMBLY PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (U.D.A.C.S.) PLATE NO. 7; INCLUDES TEE, 6" PIPE, GATE VALVE AND RISER.....	6 EA
6	INSTALL 8" TEE.....	6 EA
7	INSTALL 8" - 90° ELBOW.....	1 EA
8	INSTALL 8" GATE VALVE. VALVES SHALL NOT BE LOCATED IN STREET VALLEY GUTTERS OR WITHIN THE PROPOSED CURB & GUTTER LOCATIONS.....	9 EA
9	INSTALL 8" - 45° BEND.....	2 EA
10	INSTALL 6" GATE VALVE.....	1 EA
11	INSTALL 6" CAP.....	1 EA
12	INSTALL 8" TAPPING VALVE.....	1 EA
13	INSTALL 12" x 8" TEE.....	2 EA
14	INSTALL 12" WATER LINE.....	691.69 LF
15	8" CAP W/ 2" BLOWOFF ASSEMBLY.....	3 EA (PER U.D.A.C.S. STD. PLATE NO. 4)
16	5/8" WATER METER W/1" SERVICE LATERAL.....	38 EA (PER U.D.A.C.S. STD. PLATE NO. 1B)
17	INSTALL 1" WATER METER (IRRIGATION).....	1 EA (PER U.D.A.C.S. STD. PLATE NO. 1D)
18	3/4" WATER METER W/1" SERVICE LATERAL.....	7 EA (PER U.D.A.C.S. STD. PLATE NO. 1D)
19	6" CAP WITH 2" BLOWOFF ASSEMBLY.....	3 EA (PER U.D.A.C.S. STD. PLATE NO. 4)
20	INSTALL 8" x 8" M.J. TAPPING TEE.....	1 EA
21	INSTALL 12" GATE VALVE.....	2 EA
22	12" CAP WITH 2" BLOWOFF ASSEMBLY.....	2 EA (PER U.D.A.C.S. STD. PLATE NO. 4)
23	INSTALL 8" x 88" TEE.....	1 EA
PRV	INSTALL PRESSURE REDUCING VALVE.....	45 EA

SEWER CONSTRUCTION NOTES

- INSTALL 8" SEWER MAIN, TRENCH SECTION BACKFILL PER D.C.S.W.C.S. NO. SD-16
- INSTALL 48" SANITARY SEWER MANHOLE PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS PLATE SD-1
- REMOVE CAP & CONNECT TO EXISTING STUB
- INSTALL 4" SEWER LATERAL W/ 4" WYE. LOCATION PER TYPICAL LOT DETAIL "J" ON SHEET D1 UNLESS NOTED OTHERWISE
- INSTALL 8" CAP
- INSTALL BACK WATER VALVE

SEWER CONTRIBUTIONS

AVERAGE FLOW:0.008 MGD
PEAK FLOW:0.026 MGD

FIRE DEPARTMENT APPROVAL

FIRE FLOW IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
SQUARE FOOTAGE:3,600 S.F. (MAX)
BUILDING HEIGHT:24' (MAX)
NUMBER OF STORIES:2 (MAX)
OCCUPANCY:SINGLE FAMILY
FULL AUTOMATIC FIRE SPRINKLERS:NO

REVIEWED BY:

DATE: 8-4-99

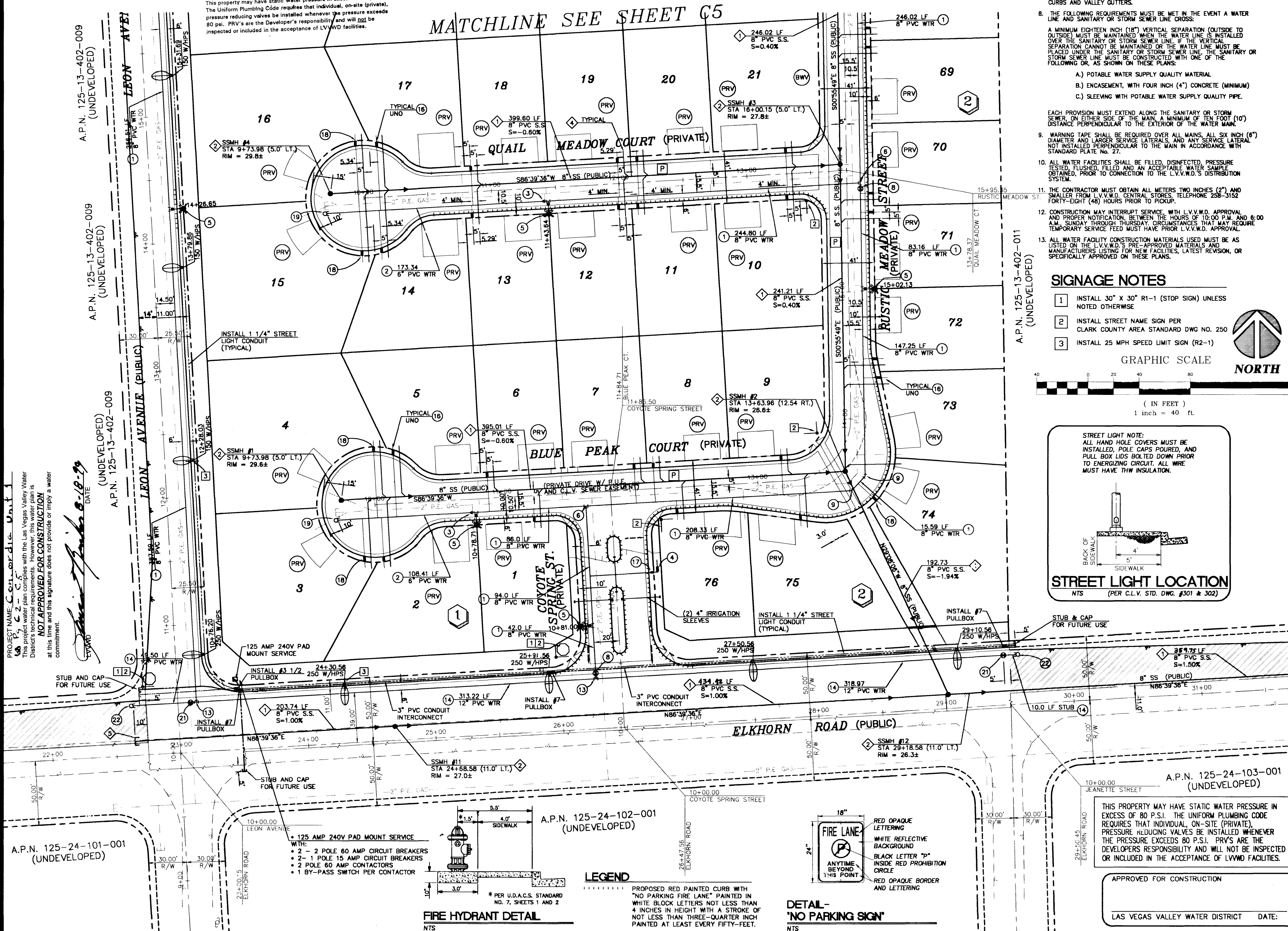
MATCHLINE SEE SHEET S2
FOR CONTINUATION OF SEWER

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 P.S.I. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 P.S.I. PRVS ARE THE DEVELOPERS RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT DATE:

MATCHLINE SEE SHEET C5



FIRE HYDRANT DETAIL
NTS

LEGEND

PROPOSED RED PAINTED CURB WITH "NO PARKING FIRE LANE" PAINTED IN WHITE BLOCK LETTERS NOT LESS THAN 4 INCHES IN HEIGHT WITH A STROKE NOT LESS THAN THREE-QUARTER INCH PAINTED AT LEAST EVERY FIFTY-FOOT.

DETAIL - "NO PARKING SIGN"
NTS

SCALE: 1" = 40'

DRAWN BY: SSG/ekd

CHECKED BY: SSG/JML

PROJECT DATE: 02/99

DATE: 07/26/99

CONCORDIA • ELKHORN/LEON

CITY OF LAS VEGAS

STREET LIGHT INFO.

MASTER UTILITY

(SOUTH HALF)

UNIT 1

CONCORDIA

ENGINEER

OF NEVADA

JAMES W. LELAND

PROFESSIONAL

ENGINEER

NO. 4932

6280 S. Valley View Blvd

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FAX: (702) 368-0047

CVL

CONSULTANTS, INC.

ENGINEERING • PLANNING • LAND SURVEYING

SHEET

C4

4 OF 17

AGENCY DWG. NO.

3074-4619-1

