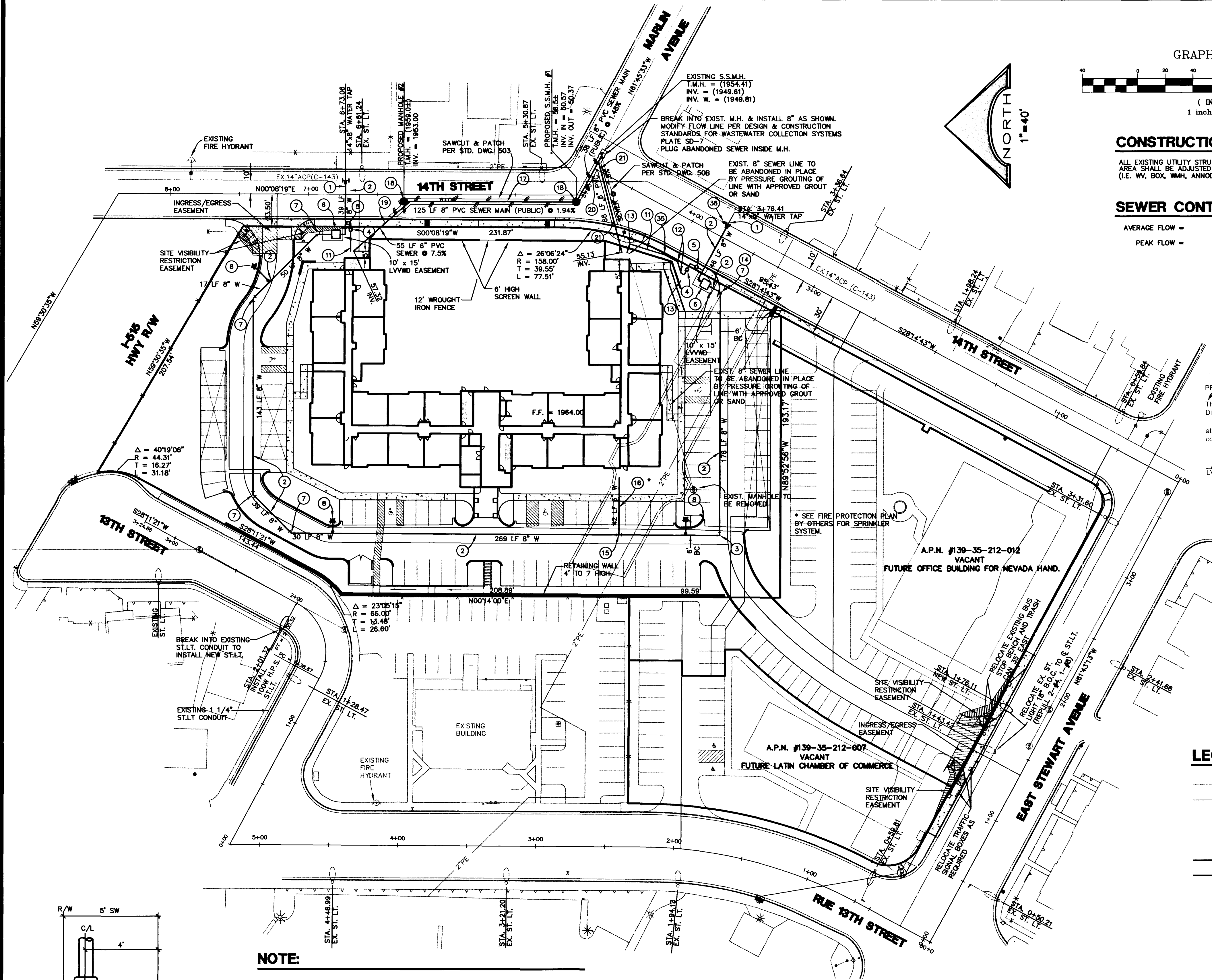
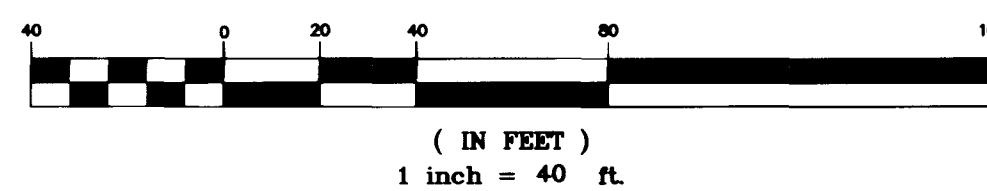




GRAPHIC SCALE

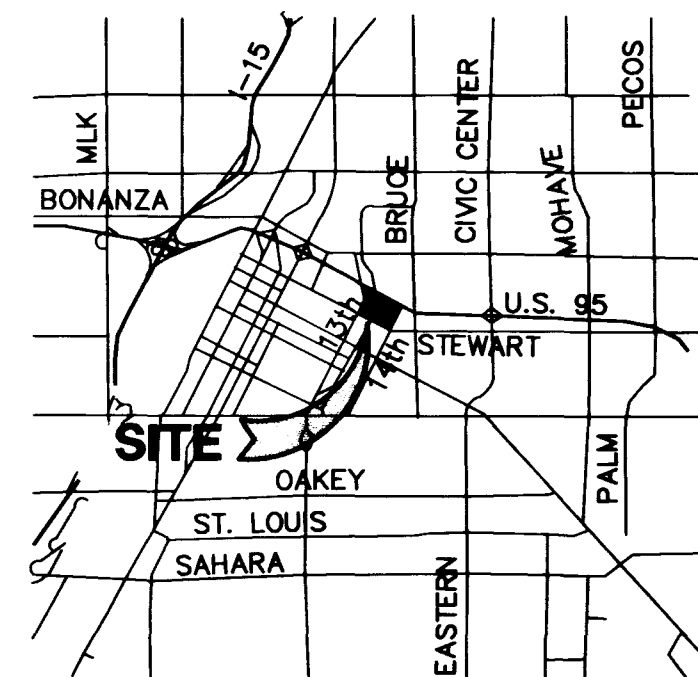


CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WY. BOX, WMH, ANNOODE BOX, FH, TEL. BOX, ETC.)

SEWER CONTRIBUTION

AVERAGE FLOW = 0.0126 MGD
PEAK FLOW = 0.0435 MGD



VICINITY MAP

8" SEWER DISCHARGES INTO 15" SEWER AT MARLIN AVENUE AND FIFTEENTH STREET
SEE LOCATION MAP

NOTE:

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

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

BASIS OF BEARING

NORTH 61°43'13" WEST, BEING THE CENTERLINE OF EAST STEWART AVENUE AS SHOWN ON A MAP ON FILE AT THE CLARK COUNTY RECORDER'S OFFICE, AS FILE 83, PAGE 68 OF OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

CONSTRUCTION NOTES & ESTIMATE OF QUANTITIES

WATER

- 1 14"x14"x8" MECH. JT. TAPPING TEE W/8" TAPPING VALVE . . . 2 EA.
- 2 8" PVC WATER MAIN . . . 847 LF
- 3 8" - 90° ELBOW . . . 3 EA.
- 4 2" RPPA, UDACS PLATE NO. 11A . . . 2 EA.
- 5 2" WATER METER, UDACS PLATE NO. 1D . . . 2 EA.
- 6 8" DCDA (FEBCO "N" PATTERN, MODEL NO 876), UDACS PLATE NO. 20B . . . 2 EA.
- 7 8" - 45° ELBOW . . . 5 EA.
- 8 FIRE HYDRANT ASSEMBLY W/BOLLARDS ** . . . 3 EA.
- 9 8" x 8" x 2" SERVICE TAP . . . 2 EA.
- 10 2" GATE VALVE . . . 2 EA.
- 11 2" PVC WATER MAIN . . . 115 LF
- 12 2" PVC 45° ELBOW . . . 2 EA.
- 13 2" PVC 90° ELBOW . . . 3 EA.
- 14 8" - 22 1/2° ELBOW . . . 1 EA.
- 15 8" x 8" x 6" TEE . . . 1 EA.
- 16 6" PVC WATER MAIN . . . 42 LF
- 17 2" SERVICE TAP . . . 2 EA.
- 18 2" - 11 1/4° ELBOW . . . 1 EA.
- 19 14" CUT-IN GATE VALVE . . . 1 EA.
- 20 ** FIRE HYDRANT ASSEMBLY INCLUDES: TEE, VALVE, LATERAL, RISER, THRUST BLOCKS AND ALL ASSOCIATED HARDWARE

SEWER

- 17 8" PVC SEWER MAIN . . . 125 LF
- 18 4' DIA. STANDARD MANHOLE . . . 2 EA.
- 19 6" PVC SEWER LATERAL . . . 133 LF
- 20 8" DUCTILE IRON PIPE . . . 38 LF
- 21 6" DUCTILE IRON PIPE . . . 25 LF

STREET LIGHT

- 26 100 WATT H.P.S. STREET LIGHT . . . 1 EA.

APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT

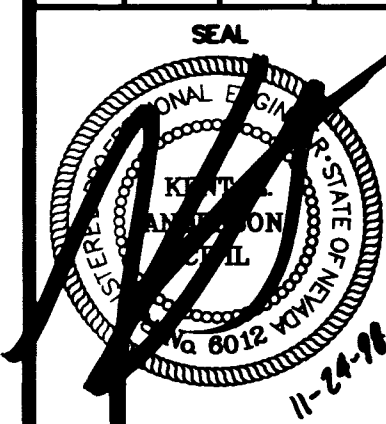
DATE

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 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.

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

Call before you Overhead
1-702-593-6111
OVERHEAD POWER SERVICE (OPS)



SHEET
C5
5 OF 7 SHEETS
DRAWING NO.
107-V2976

NEVADA H.A.N.D.
2450 EAST CHANDLER AVE., SUITE 18
LAS VEGAS, NV 89120-4059
(702) 798-3345

L. R. NELSON
CONSULTING ENGINEERS, INC.
3035 East Patrick Lane, Suite 9
Las Vegas, Nevada 89120
(702) 798-3345
(702) 798-3345 FAX

MASTER UTILITY PLAN

STEWART PINES
SENIOR APARTMENT COMPLEX

SHEET

DRAWN BY:

DESIGNED BY:

CHECKED BY:

PROJECT NO:

SCALE: 1"=30'

DATE

BY

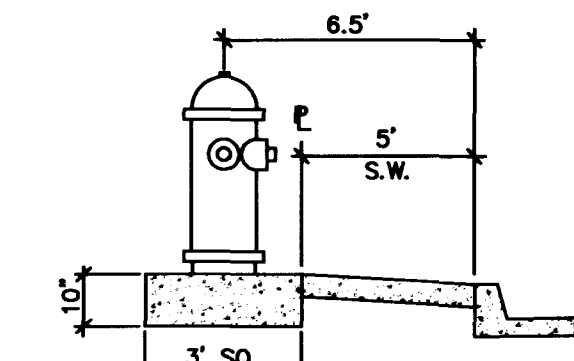
DATE

REVISION

DATE

BY

STREET LIGHT DETAIL TYPICAL



FIRE HYDRANT DETAIL TYPICAL



NOTE:

THIS PROPERTY 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. PRVs ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN ACCEPTANCE OF L.V.V.W.D. FACILITIES.

DOUBLE CHECK VALVE ASSEMBLY - 8"

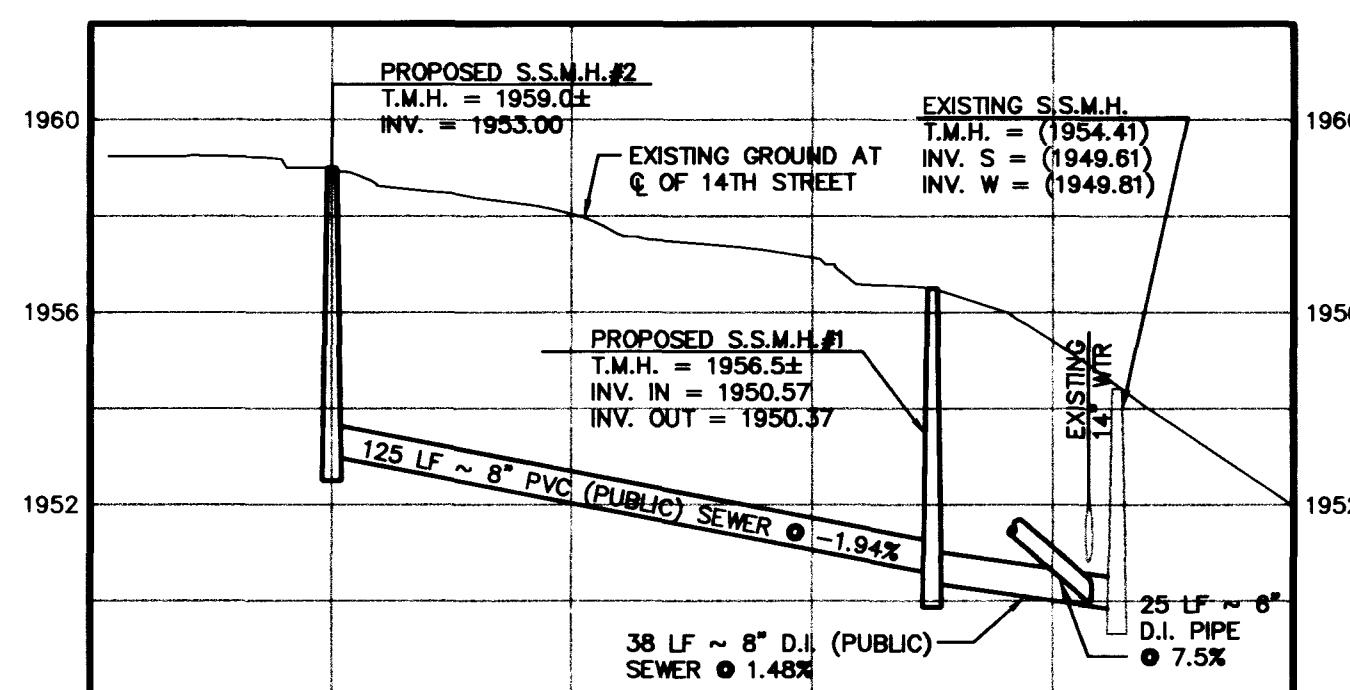
APPROVED DOUBLE CHECK VALVE ASSEMBLY(S) (DCVA) SHALL BE INSTALLED PER THE UDACS STANDARD PLATE NO. 11D. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE DOUBLE CHECK VALVE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE L.V.V.W.D.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

REDUCED PRESSURE PRINCIPLE ASSEMBLY - (2) 2"

APPROVED REDUCED PRESSURE 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 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.



SEWER LINE PROFILE AT 14TH STREET

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 2375 GPM AT 20 PSI RESIDUAL PRESSURE

BASED ON: 68,471 SF
SQUARE FOOTAGE: 68,471 SF
AREA BETWEEN 4 HOUR AREA SEPARATION WALLS: 68,471 SF
BUILDING HEIGHT: 37 FEET
NUMBER OF STORIES: 3
OCCUPANCY: SENIOR HOUSING
FULL AUTOMATIC FIRE SYSTEM: YES
TYPE CONSTRUCTION: V-1 HR

CITY FIRE MARSHALL

12-1-98
DATE

