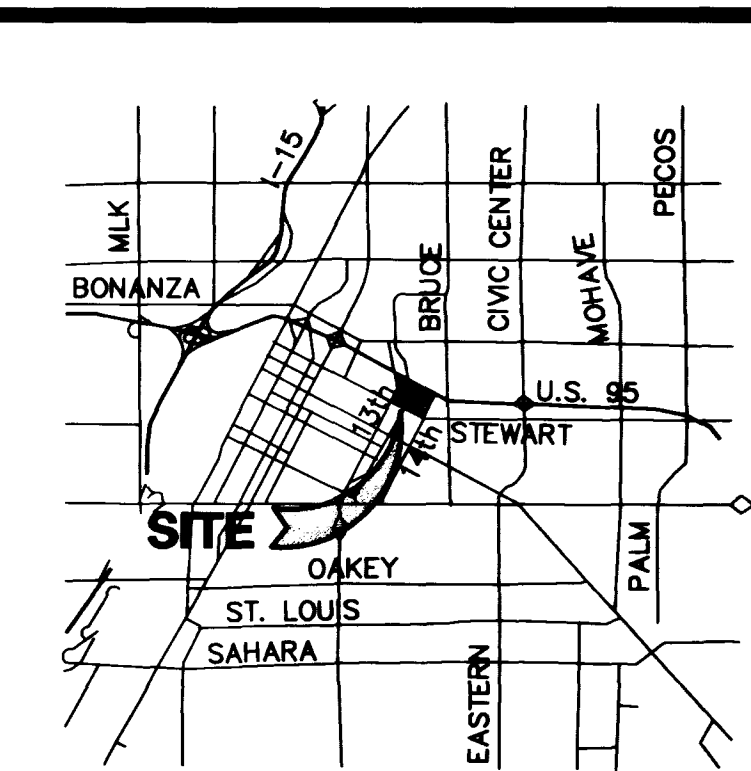
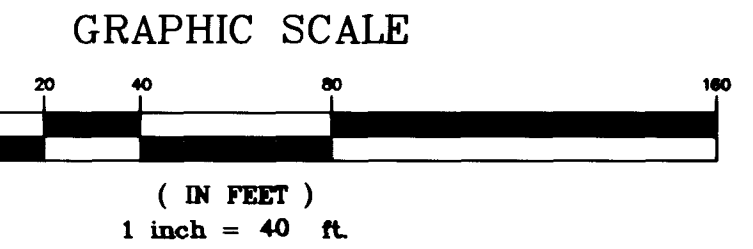
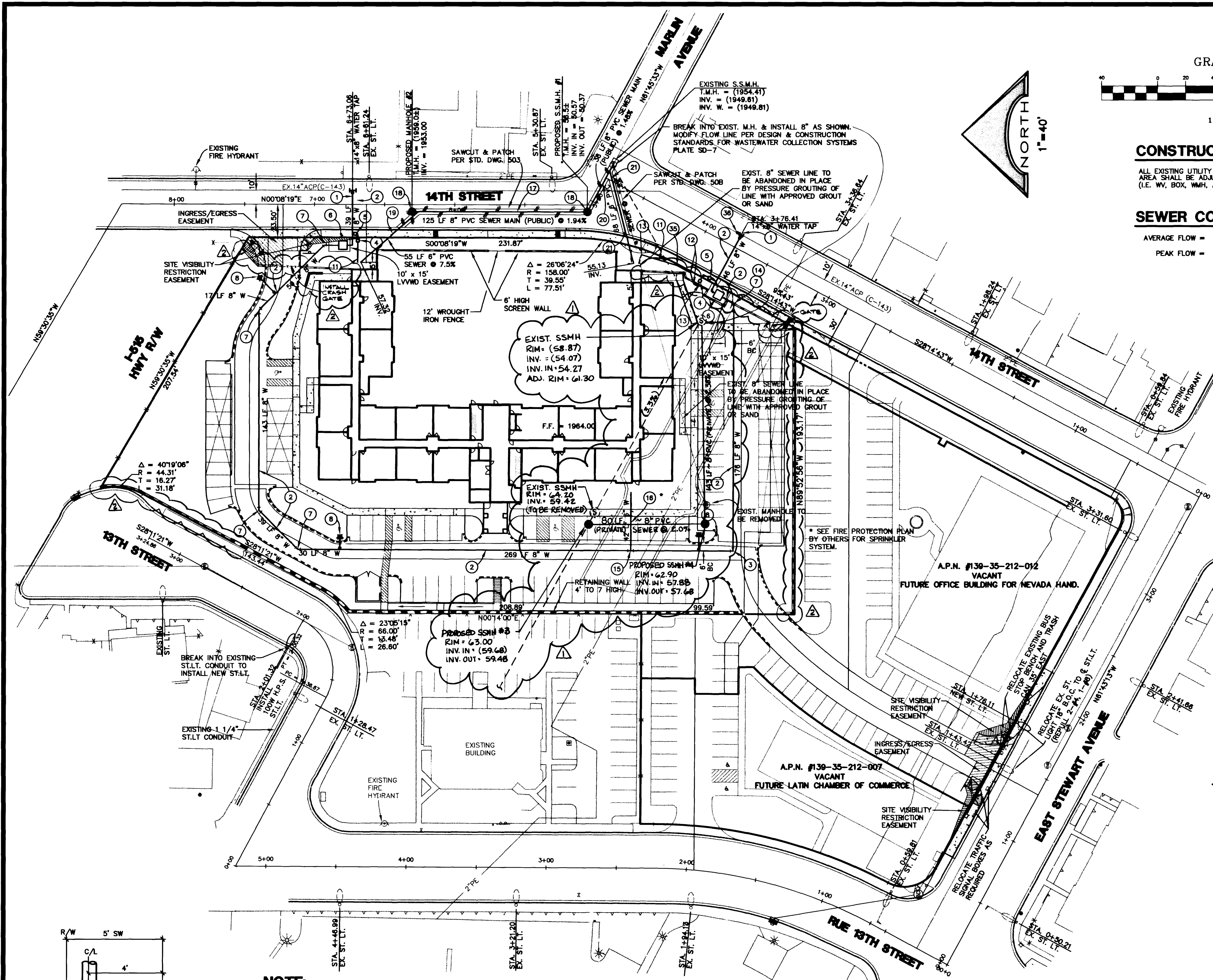




CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WY. BOX, WMH, ANNOUE 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
 - 34 2" SERVICE TAP . . . 2 EA.
 - 35 2" - 11 1/4° ELBOW . . . 1 EA.
 - 36 14" CUT-IN GATE VALVE . . . 1 EA.
- ** 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" CONCRETE ENCASUREMENT PER U.S.D. #505 . . . 38 LF
- 21 6" CONCRETE ENCASUREMENT PER U.S.D. #505 . . . 25 LF

STREET LIGHT

- 22 100 WATT H.P.S. STREET LIGHT . . . 1 EA.

LEGEND

- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- * EXISTING VALVE
- EXISTING MANHOLE
- PROPOSED SEWER LINE
- PROPOSED WATERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED MANHOLE
- CLEANOUT

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

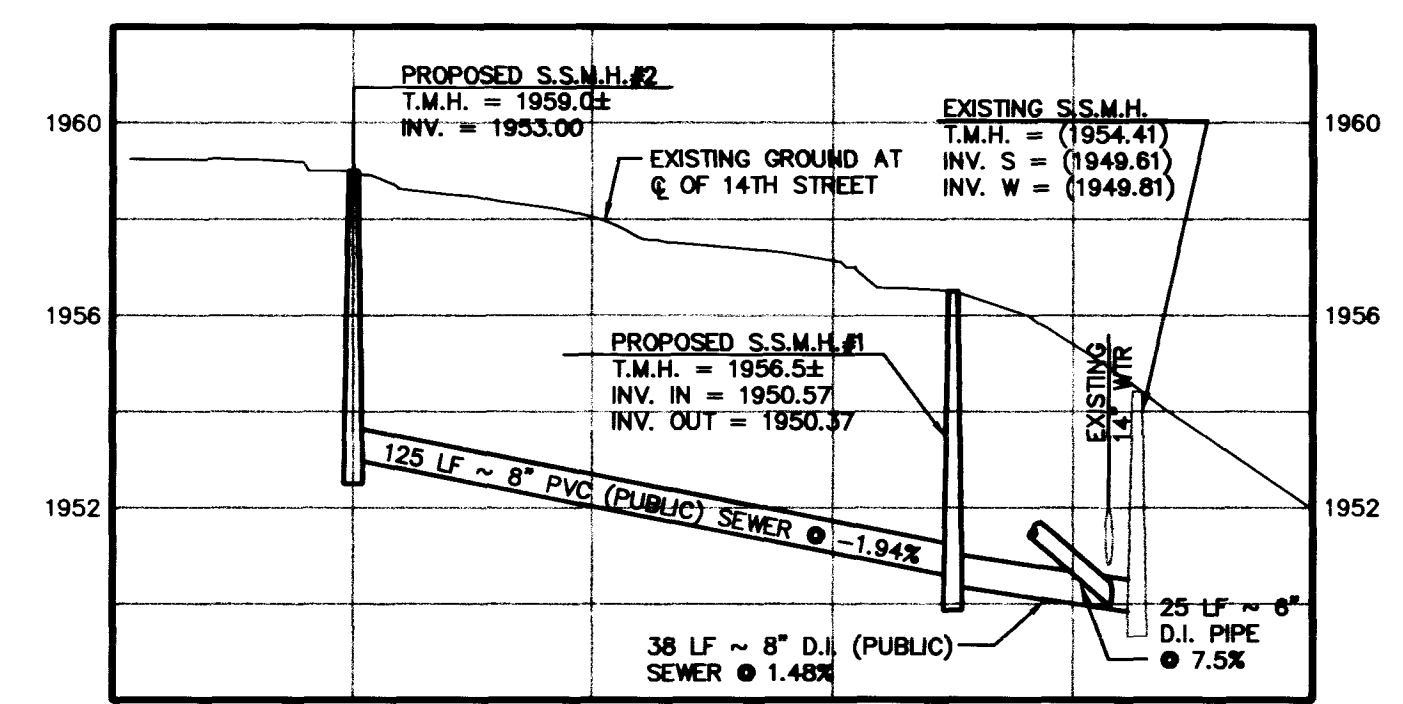
BUILDING HEIGHT: 37 FEET

NUMBER OF STORIES: 3

OCCUPANCY: SENIOR HOUSING

FULL AUTOMATIC FIRE SYSTEM: YES

TYPE CONSTRUCTION: V-1 HR



SEWER LINE PROFILE AT 14TH STREET

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.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 LVWD.

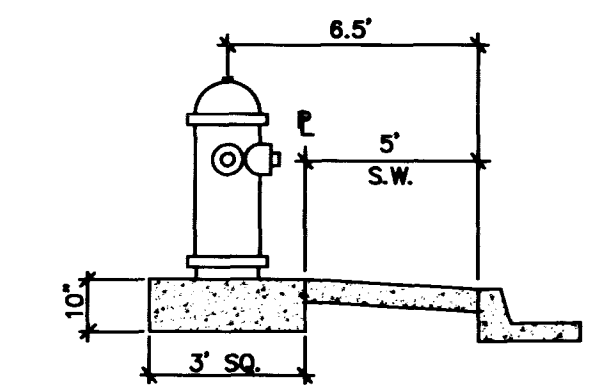
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

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 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.

STREET LIGHT DETAIL
TYPICAL



FIRE HYDRANT DETAIL
TYPICAL



NEVADA HAND.

2450 EAST CHANDLER AVE. SUITE 18
LAS VEGAS, NV 89120-4036
(702) 591-3346

L. R. NELSON CONSULTING ENGINEERS, INC.

3035 East Patrick Lane
Las Vegas, Nevada 89120
(702) 788-7978
(702) 591-2298 FAX

MASTER UTILITY PLAN

STEWART PINES SENIOR APARTMENT COMPLEX

DRAWN BY: BWJ

DESIGNED BY: PK

CHECKED BY: RT

PROJECT NO: 818-002-982

SCALE: 1"=30'

SHEET

5 OF 7 SHEETS

107-V2976

