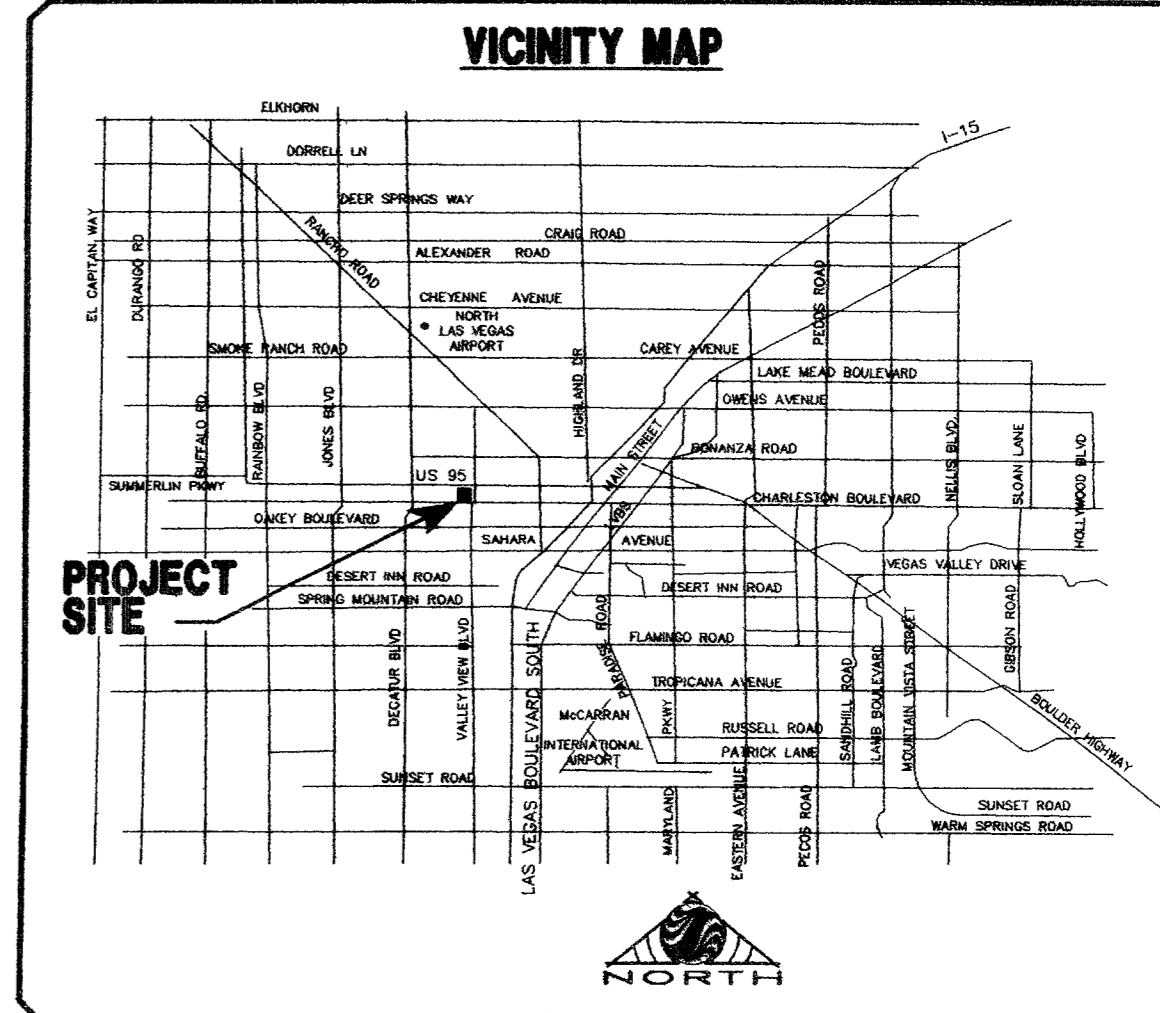


**SEWER FITTINGS LEGEND & QUANTITY ESTIMATE**

1	INSTALL 4" PVC SEWER LATERAL	100 LF.
2	INSTALL 6" PVC SEWER LATERAL	33 LF.
3	INSTALL 10" PVC SEWER	33 LF.
4	INSTALL SEWER CAP	5 EA.
5	INSTALL SANITARY SEWER MANHOLE (PER USD STD. DWG #403)	1 EA.

**WATER FITTINGS LEGEND & QUANTITY ESTIMATE**

1	INSTALL 2" PVC WATER PRIVATE (DOM.)	21 LF.
2	INSTALL 3" PVC WATER PRIVATE (DOM.) (IRR.)	13 LF.
3	INSTALL 3" PVC WATER PRIVATE (IRR.) (DOM.)	50 LF.
4	INSTALL 2" RPPA (PER UDACS PLT #11A)	2 EA.
5	INSTALL 4"x3" TEE (PER UDACS PLT #5)	1 EA.
6	INSTALL 3" GATE VALVE W/A.B. (PER UDACS PLT #3)	1 EA.
7	INSTALL 2" 90° BEND (PER UDACS PLT #5)	3 EA.
8	INSTALL 4"x2" REDUCER (PER UDACS PLT #3)	2 EA.
9	INSTALL 4" 90° BEND (PER UDACS PLT #5)	1 EA.
10	INSTALL 4" CROSS (PER UDACS PLT #5)	1 EA.
11	INSTALL CAP (PER UDACS PLT #5)	1 EA.
12	INSTALL 3" RPPA (PER UDACS PLT #11E)	1 EA.
13	INSTALL 4"x3" REDUCER (PER UDACS PLT #5)	1 EA.
14	INSTALL 3" 90° BEND (PER UDACS PLT #5)	1 EA.



**BASIS OF BEARINGS**

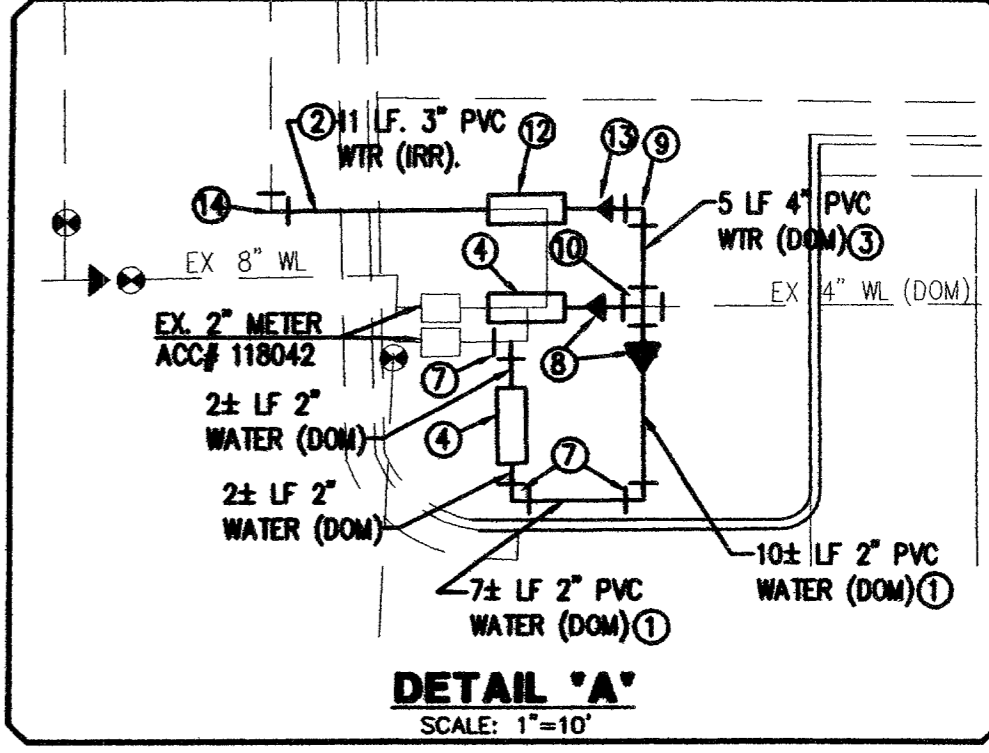
SOUTH 89°33'38" EAST, BEING THE BEARING OF THE CENTERLINE OF MEADOWS LANE, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 33 OF SURVEYS AT PAGE 44, SITUATED IN THE NORTHEAST QUARTER (NE 1/4) OF SECTION 31, TOWNSHIP SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

**BENCHMARK**

CITY OF LAS VEGAS BENCHMARK 2LV01 31NE6  
RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF VALLEY VIEW AND MEADOWS.  
ELEVATION = 654.7607 meters (NAVD'88)  
ELEVATION = 2148.16 U.S. Survey feet (NAVD'88)

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT (C1, C2, C7) DATE \_\_\_\_\_



**REDUCED PRESSURE PRINCIPLE ASSEMBLY**

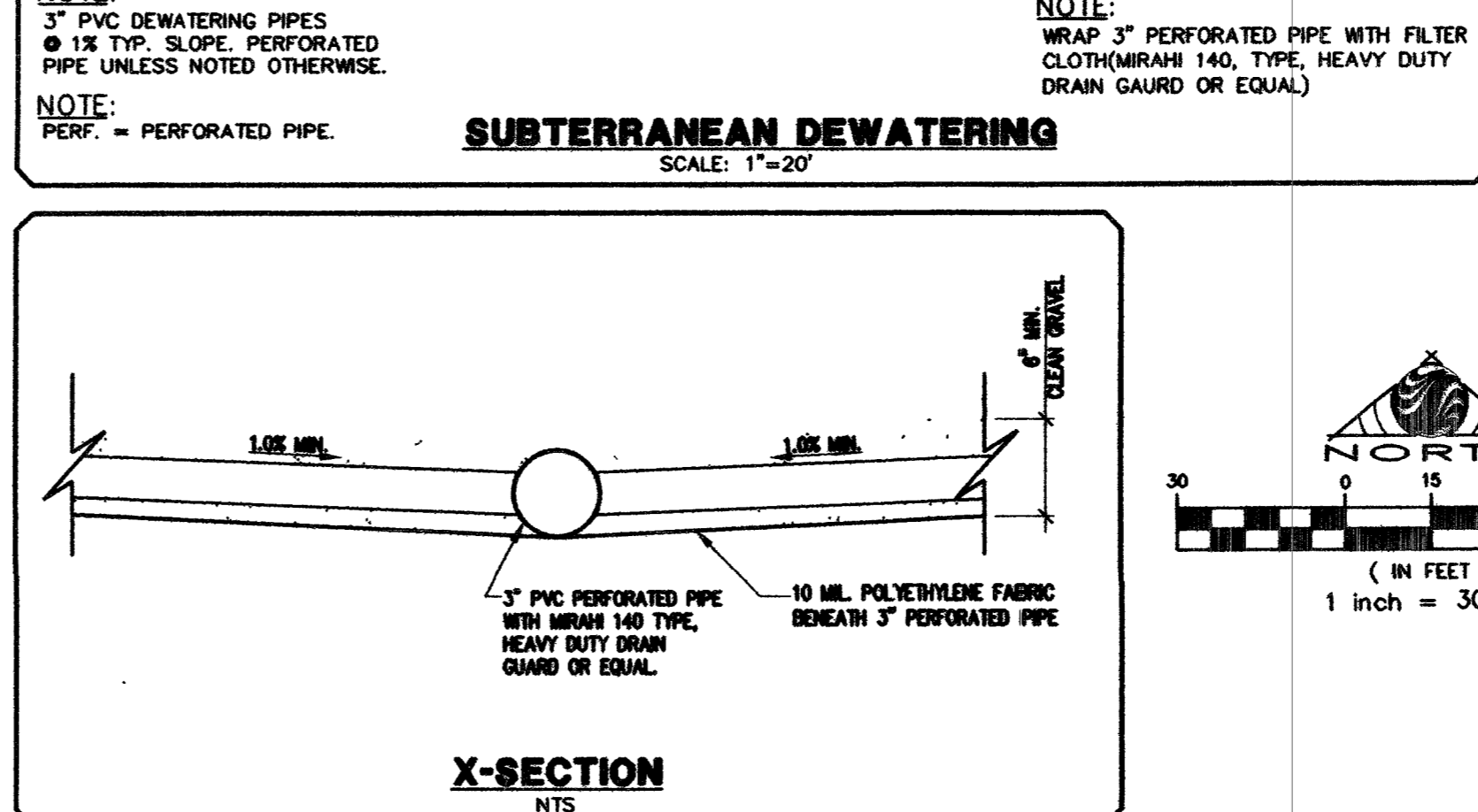
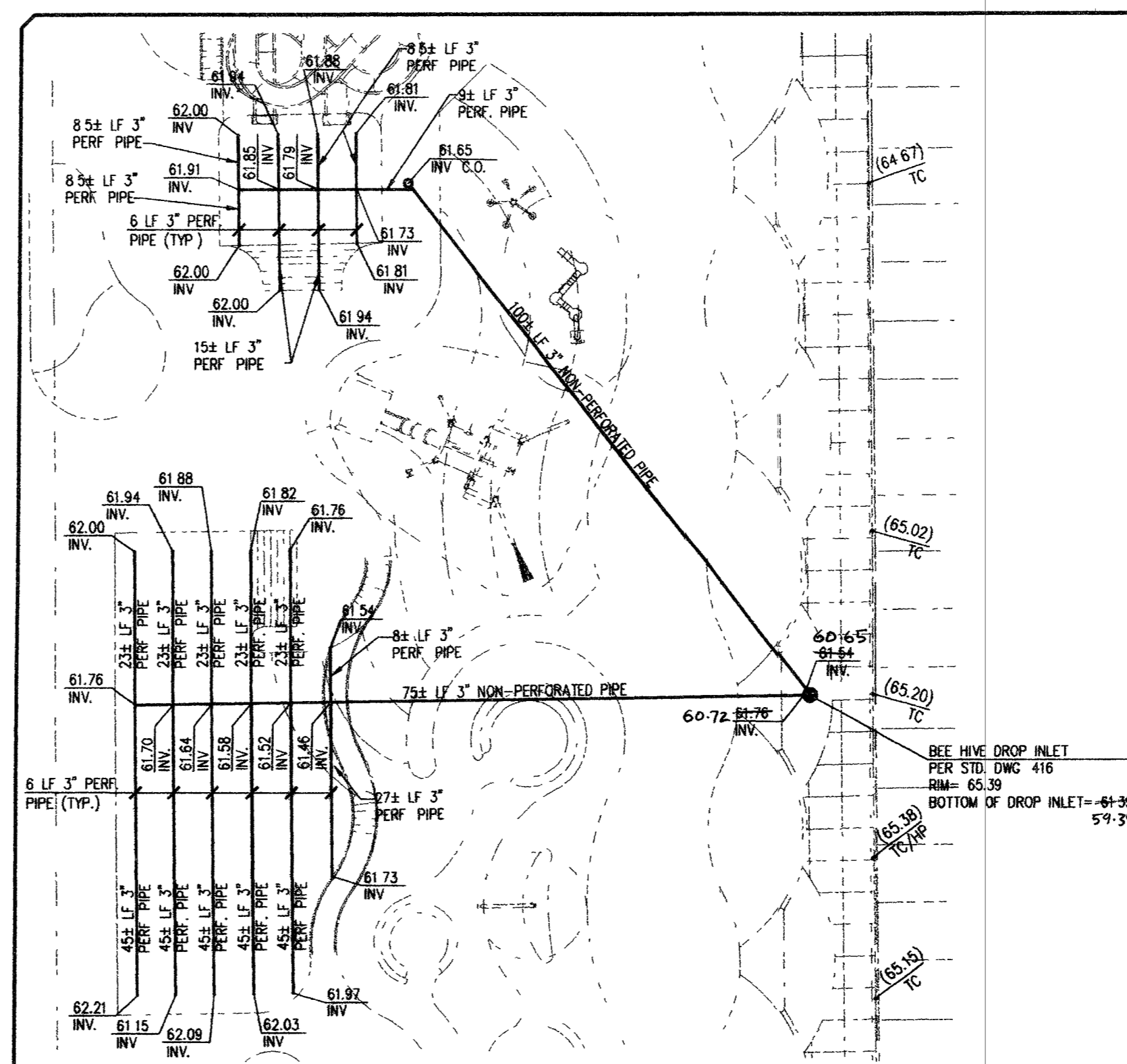
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWID.

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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

**ENGINEER'S NOTES**

- EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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: 1-800-782-5348.
- SEE MECHANICAL PLANS FOR LOCATIONS, SIZES, AND DEPTHS OF ALL ON-SITE UTILITIES AT THE PROPOSED BUILDINGS.
- SEE ELECTRICAL PLAN FOR ON-SITE LIGHTING AND POWER SUPPLY.
- NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.



**FIRE FLOW CALCULATIONS (ADDITION ONLY)**

FIRE FLOW REQUIREMENTS IS: 1,750 GALLONS AT 20 psi RESIDUAL PRESSURE PER MINUTE

BASED ON:  
SQUARE FOOTAGE: 4000 SF  
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A  
BUILDING HEIGHT: 21' ±  
NUMBER OF STORIES: ONE-STORY  
TYPE OF CONSTRUCTION: TYPE V-B  
OCCUPANCY: CHAPTER 3  
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NONE

REVIEWED BY: \_\_\_\_\_ DATE: 12/15/03

**APPROVALS**

CITY FIRE MARSHAL: \_\_\_\_\_ DATE: 12/15/03  
LAS VEGAS VALLEY WATER DISTRICT: \_\_\_\_\_ DATE: 12/22/03

**Call before you Dig**

1-800-227-2600  
1-702-593-6111

**STANTEC CONSULTING, INC.**  
7251 W. Charleston Blvd.  
Las Vegas, Nevada, U.S.A.  
89117  
Tel. (702) 258-0115  
Fax. (702) 258-4956  
www.stantec.com

**LODGE YMCA ASSN OF LAS VEGAS**  
YMCA AQUATICS FACILITY  
UTILITY PLAN

**DATE:** 12/10/2003  
**PM:** \_\_\_\_\_  
**DRAWN BY:** EDS  
**DESIGNED BY:** \_\_\_\_\_  
**CHECKED BY:** JWL  
**ADA CHECKED:** \_\_\_\_\_  
**JOB NO.:** \_\_\_\_\_  
**SCALE:** 1"=30'

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**PROFESSIONAL ENGINEER**  
JAMES W. LELAND  
CIVIL  
No. 4932  
12/10/03

**SHEET C7.0**  
OF 7  
CLV. DWG # 107V3403

V:\2812\active\102003\IMPROVEMENTS\001361010\DWG\_schaffer Wed, 10 Dec 2003 - 11:32am