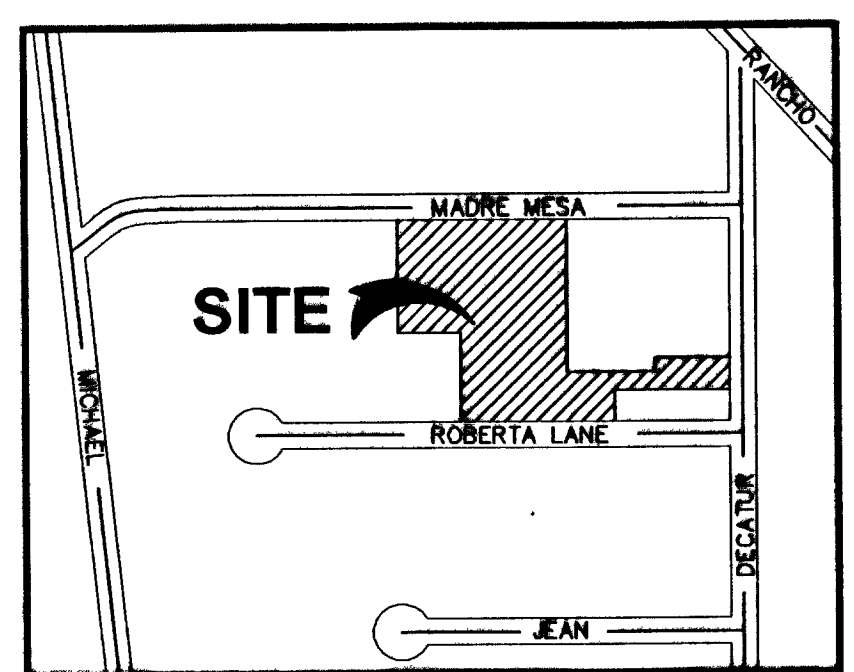
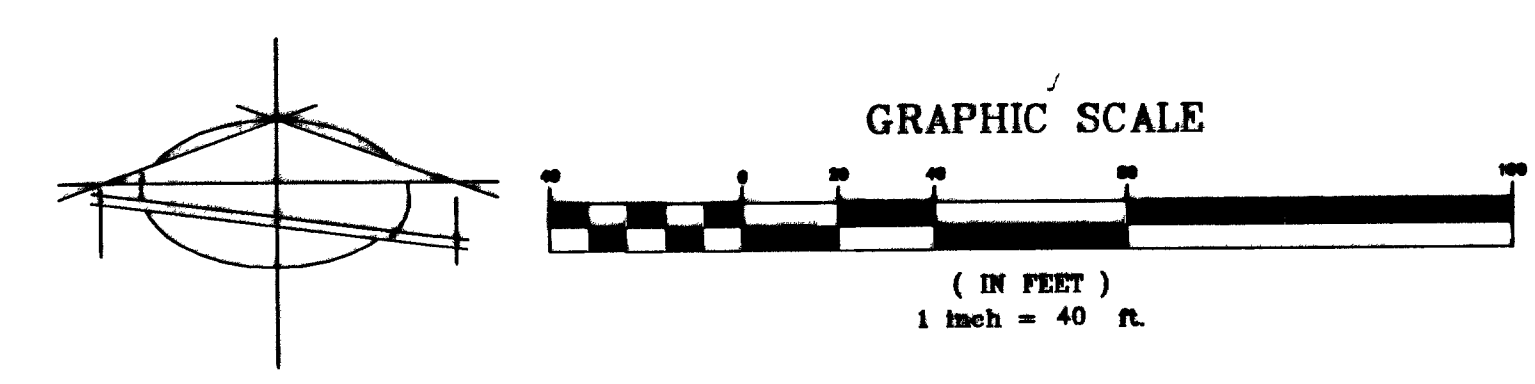
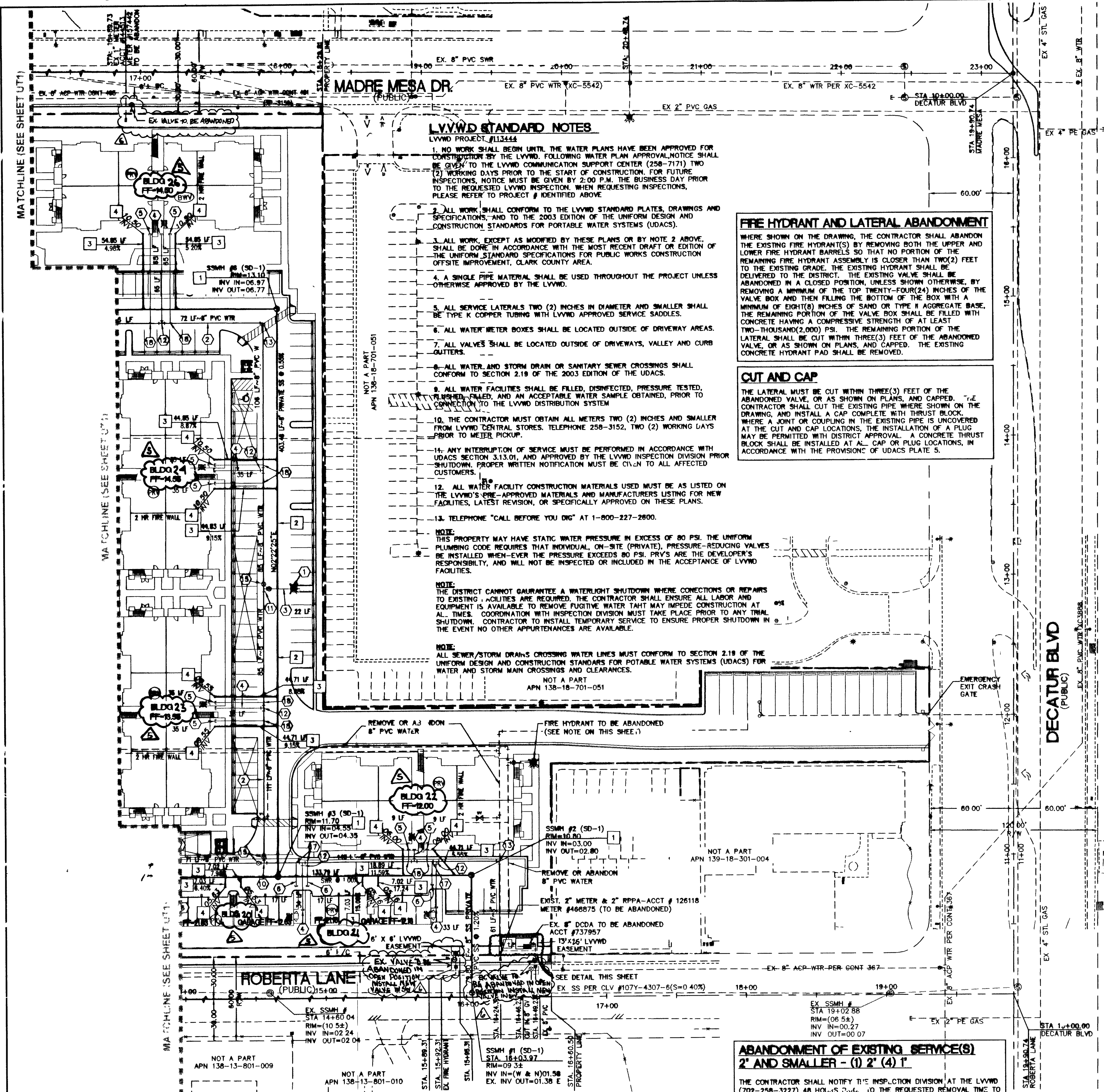


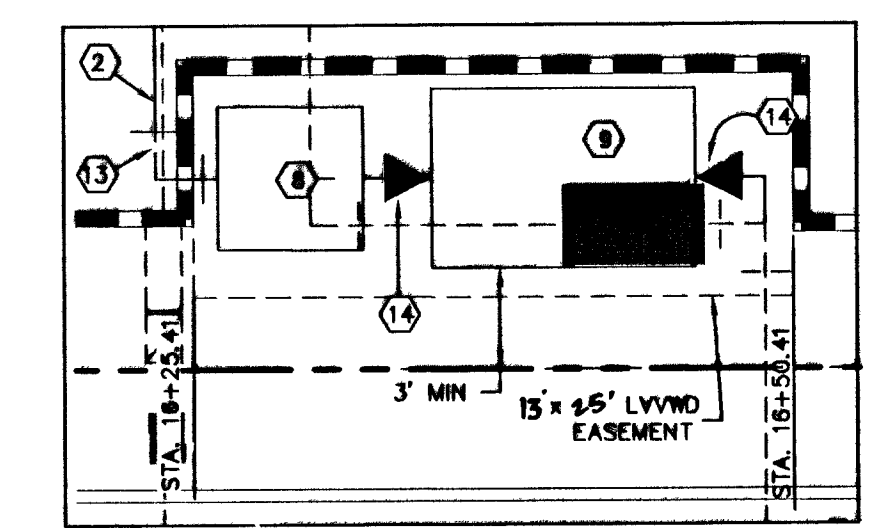


WATER CONSTRUCTION NOTES

ITEM	UNIT	PUBLIC	PRIVATE
1. INSTALL FIRE HYDRANT ASSEMBLY PER UDS PLATE NO. 7	EA	-	8
2. INSTALL 8" PVC (CLASS 150) WATER LINE	LF	800	2689
3. INSTALL 6" PVC (CLASS 150) WATER LINE	LF	-	103
4. INSTALL 4" PVC WATER LINE	LF	-	1559
5. INSTALL 2" WATER SERVICE	LF	-	1004
6. INSTALL 1-1/2" WATER SERVICE	LF	-	365
7. NOT IN USE 8"	EA	-	-
8. INSTALL 8" REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) PER UDAC'S PLT. 11C	EA	2	-
9. ABANDON EX. 8" DCD AND INSTALL 8" X 3" TYPE I FBM PER UDS PLT. NO. 21C	EA	2	-
10. INSTALL 8" X 8" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	1	4
11. INSTALL 8" X 8" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	8
12. INSTALL 8" X 4" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	25
13. INSTALL 8" 90° BEND W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	6
14. INSTALL 8" X 6" REDUCER	EA	-	4
15. INSTALL 8" GATE VALVE	EA	1	8
16. INSTALL 8" MANUAL BLOW-OFF ASSEMBLY PER UDS PLT. NO. 4A	EA	1	2
17. INSTALL 1-1/2" SERVICE SADDLE	EA	-	23
18. INSTALL 2" SERVICE SADDLE	EA	-	21

SEWER CONSTRUCTION NOTES

ITEM	UNIT	PUBLIC	PRIVATE
1. INSTALL 48" DIA. SANITARY SEWER MANHOLE PER STD. DWG. NO. SD-1	EA	1	11
2. INSTALL 8" PVC (SDR-35) SEWER MAIN	LF	-	2275
3. INSTALL 4" PVC (SDR-35) SEWER LATERAL	LF	-	1329
4. INSTALL 4" SANITARY SEWER CLEANOUT	EA	-	48



DCD/TYPE I FBM NOT TO SCALE

INSTALLATION OF METER AND VAULT (2) 6"X3" TYPE I FBM WITH BYPASS

THE METER(S) AND VAULT(S) WITH NON-TRAFFIC BEARING COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDAC'S PLATE NO. 21C AND WITH UDAC'S STANDARD VAULT DRAWING C-475, LATEST REVISION. 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 TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT(S) SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

METERS MUST BE SET IN HORIZONTAL POSITION, AT LEAST EIGHT (8) DIAMETERS OF STRAIGHT PIPE ARE REQUIRED AT THE INLET END.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 8" RPPA

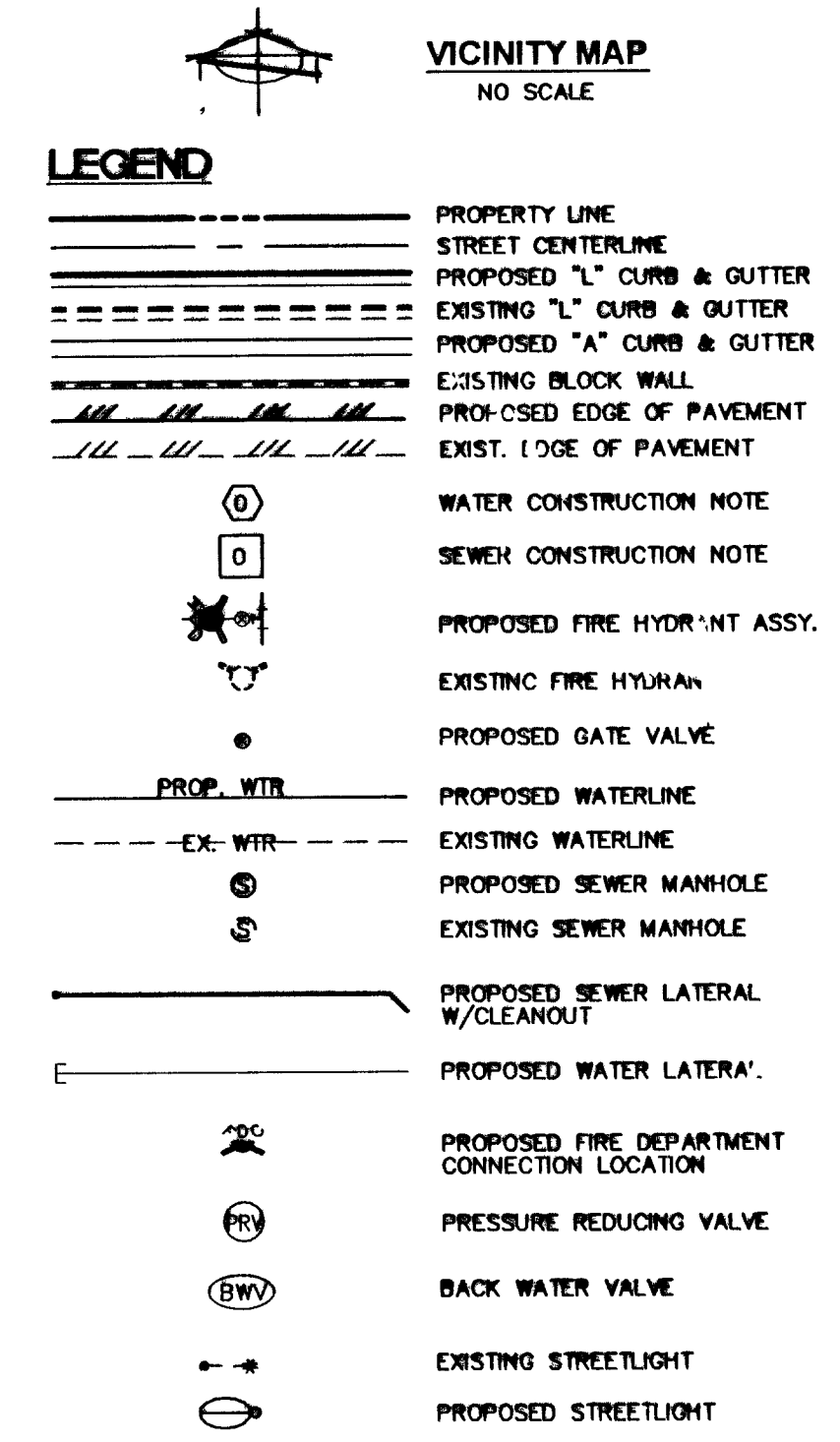
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDAC'S PLATE NO. 11C. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE L.V.V.D. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULTS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT(S) SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW CALCULATIONS

BASED ON: SQUARE FOOTAGE: 16,182 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR SEPARATION WALLS: 35' MAX
BUILDING HEIGHT: 2 FLOORS
NUMBER OF STORIES: 2
TYPE OF CONSTRUCTION: V-B
OCCUPANCY: R
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES
REVIEWED BY: [Signature] DATE: 12/2/16

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.



MANHOLE SCHEDULE

MAN. HOLE	TYPE	RIM	INV. IN	INV. OUT	DEPTH
SSMH #1	SD-1	09.32	01.58	01.38	08.33
SSMH #2	SD-1	10.80	03.00	02.80	05.00
SSMH #3	SD-1	11.70	04.55	04.35	07.35
SSMH #4	SD-1	14.00	07.89	07.69	06.31
SSMH #5	SD-1	15.70	-	08.70	06.00
SSMH #6	SD-1	13.10	06.97	06.77	06.35
SSMH #7	SD-1	14.90	08.80	08.60	05.90
SSMH #8	SD-1	18.80	11.32	11.12	07.48
SSMH #9	SD-1	18.75	12.58	12.38	06.37
SSMH #10	SD-1	19.30	-	13.30	06.00
SSMH #11	SD-1	17.75	11.9	11.75	06.00
SSMH #12	SD-1	19.30	-	12.68	05.64

APPROVALS
LAS VEGAS VALLEY WATER DISTRICT
PROJECT 113444 SHEET UT1, UT2, UT3
[Signatures and Dates]

CITY OF LAS VEGAS FIRE MARSHAL
[Signature and Date]

FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL

CLV DWG #1074783
Includes logos for the City of Las Vegas and various engineering and construction firms.

BAUGHMAN & TURNER, INC.
CIVIL ENGINEERS
LAND PLANNERS
LAND SURVEYORS
1048 JUPITER AVE. #403
LAS VEGAS, NEVADA 89102
PHONE (702) 733-0176
FAX (702) 733-0176
DATE: 12/2/16
SCALE: 1"=40'