

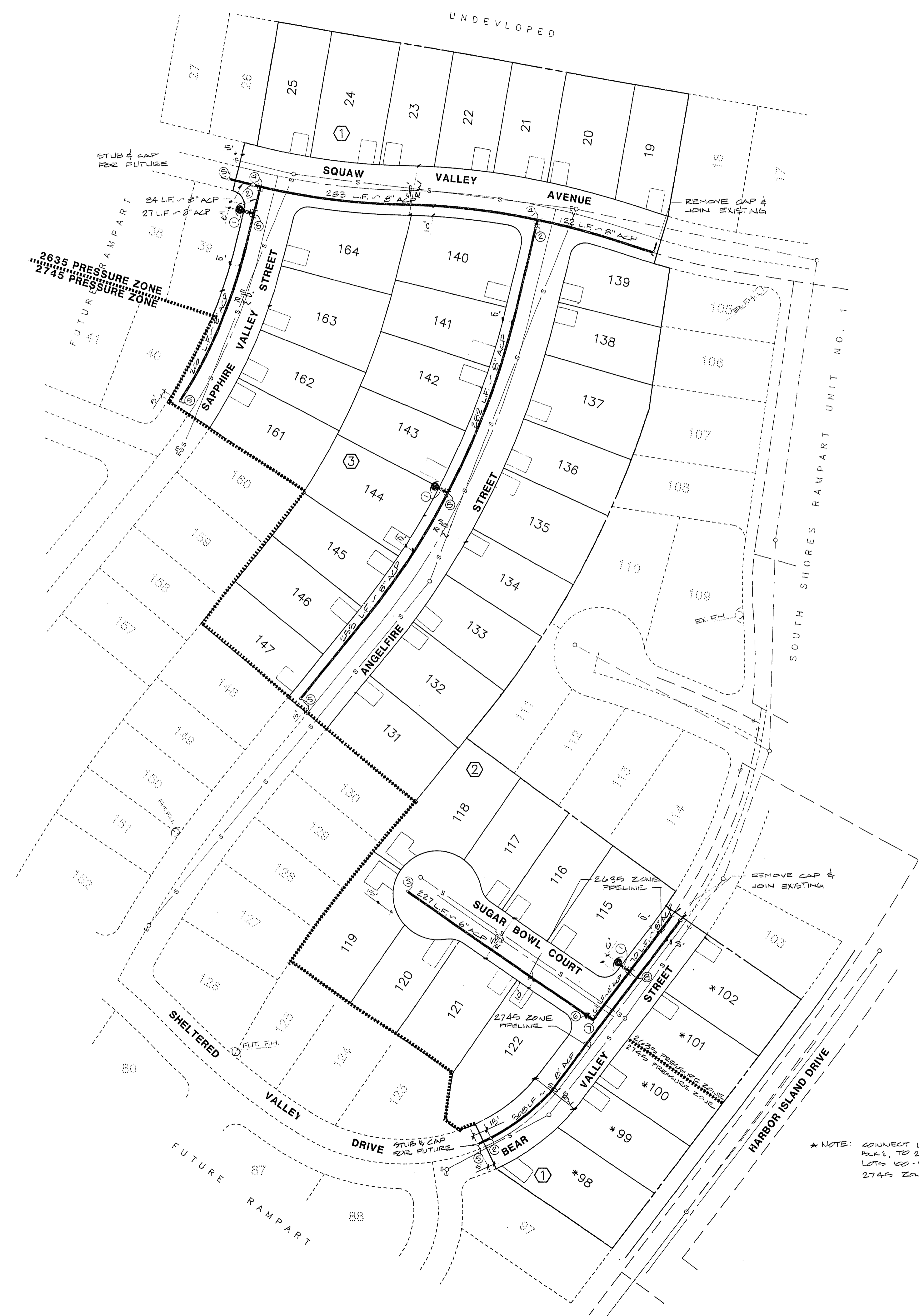
VICINITY MAP

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA.
3. NOTICE TO BE GIVEN TO THE ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
6. DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14" AND 18".
7. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
8. DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
A. OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
B. OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.
9. CALL BEFORE YOU DIG - 1-800-227-2600.

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3318.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A - KENNEDY GUARDIAN
B - MUELLER A-423 CENTURIAN
C - CLOW MODEL 2546 MEDALLION
3. ON ANY NEW HOME OR BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.
5. ALL FIRE HYDRANTS MUST BE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW. CALL THE LAS VEGAS FIRE DEPARTMENT AT 363-2886 FOR UNDERGROUND INSPECTION, PRESSURE & FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINE BEFORE COVERING.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER THE "HYDRANT INSTALLATION SPECIFICATIONS" SHALL BE COMPLETED BEFORE APPROVAL OF THE HYDRANTS BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. LAS VEGAS VALLEY WATER DISTRICT TO DETERMINE THAT HYDRANTS ARE CONNECTED TO A WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.
8. FIRE HYDRANT SPACING: RESIDENTIAL 600 FEET MAXIMUM
COMMERCIAL 500 FEET MAXIMUM
FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FEET OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE, AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
9. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
10. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
11. A PERMIT MUST BE OBTAINED FROM THE FIRE DEPARTMENT FOR ONSITE FIRE WATER SYSTEM INSTALLATION PRIOR TO CONSTRUCTION.



BENCHMARK

TOP OF B.L.M. BRASS CAP E. 1/16 ON CHEYENNE 1/4 MILE WEST OF BUFFALO
ELEVATION = 2388.62 FEET

QUANTITY ESTIMATE

- NOTE: THESE QUANTITIES ARE ONLY ESTIMATES, CONTRACTOR TO VERIFY.
- 1. FIRE HYDRANT W/ASSEMBLY (COMPLETE) 3 EA.
 - 2. 8" GATE VALVE 5 EA.
 - 3. 6" GATE VALVE 0 EA.
 - 4. 8" TEE 2 EA.
 - 5. 2" BLOWOFF 5 EA.
 - 6. 8" x 6" REDUCER 1 EA.
 - 7. 8" - 90° ELBOW 1 EA.
 - 8. 8"x6" TEE 3 EA.
 - 8" ACP WATER MAIN 1,640 L.F.
 - 6" ACP WATER MAIN 227 L.F.
 - 3/4" METER & SERVICE 41 EA.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:
AREA SEPARATION FIRE WALLS MUST BE IDENTIFIED.
SQUARE FOOTAGE 1000-2000
LARGEST AREA BETWEEN AREA SEPARATION WALLS 2000
HEIGHT 1-2 STOREY
TYPE OF CONSTRUCTION CLASS 1
EXPOSURES 10' MIN
SPRINKLER SYSTEM NA
OCCUPANCY RESIDENTIAL
ROOF CONSTRUCTION CONC. TILE
REVIEWED BY: _____
DATE: _____
___ GPM REQUIRED WITHIN 500 FT. OF ALL BUILDING AREAS.

APPROVAL

BY: *[Signature]* 9-20-89
LAS VEGAS VALLEY WATER DISTRICT DATE

BY: *[Signature]* 8-30-89
C.L.V. FIRE DEPARTMENT DATE

REV.	DATE	BY	REVISION
1	8/11/89	THI	ADD FUTURE UTILITY
2	9/15/89	THI	REV'S PER CIV - CIV'S QUANTITY SHEET

ESI ENGINEERS & SURVEYORS INC.
REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS
STATE OF NEVADA
SUBMITTED BY: *[Signature]* 7/31/89

MASTER WATER PLAN
PROJECT SOUTH SHORES RAMPART UNIT NO.2

WO NO.	5332
BY	Y. MARRUJO
DATE	7/89
SCALE	1"=60'

SHEET	7
OF 8 SHEETS	



1-800-227-2600
UNDERGROUND SERVICE USA