

SEE SHEET NO. 10 FOR CONTINUATION



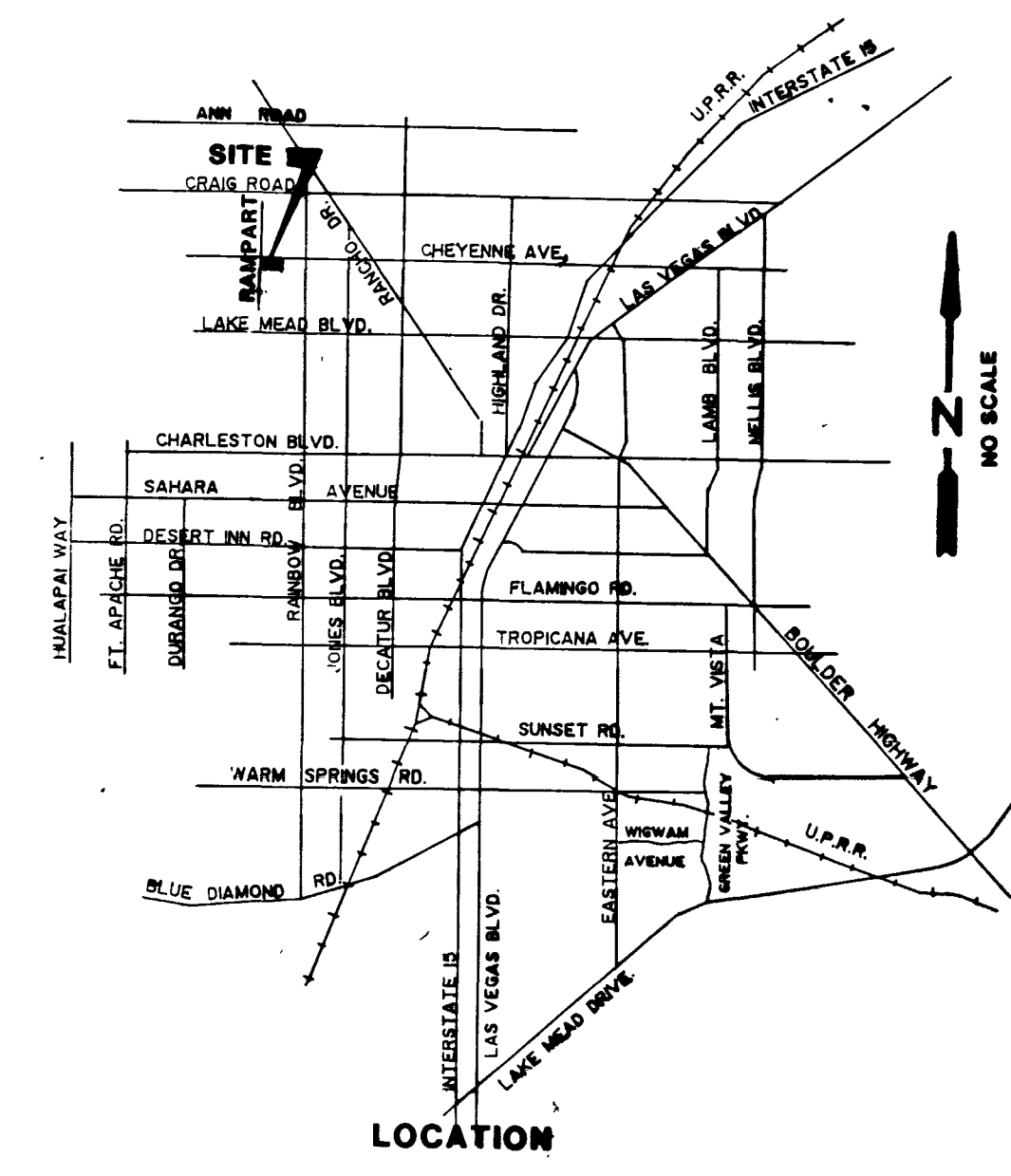
QUANTITY ESTIMATE

10" WATER MAIN	4590 LF.	22 1/2 ELL	5 EA.
8" WATER MAIN	165 LF.	6"x3" FMCT METER	2 EA.
1" FIRE HYDRANT W/ ASSEMBLY	13 EA.	2" SERVICE W/ VALVE & STANDPIPE	36 EA.
2" 90° TEE	5 EA.	LANDSCAPING CONTRACTOR TO DETERMINE WITH PLUMBING CONTRACTOR WHERE LANDSCAPE SERVICES ARE TO BE LOCATED AND TO DETERMINE SIZE.	
3" 90° REDUCER	5 EA.	INSTALL WATER METERS PER LVWD STD. PLATE #21D	
10" GATE VALVE	15 EA.		
2" BLOW-OFF	1 EA.		
10" 90° ELL	15 EA.		

CHEYENNE AVENUE

UNDEVELOPED

SOARING GULLS DRIVE



CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPT. "HYDRANT SPECIFICATIONS" AND "HYDRANT INSTALLATION SPECIFICATIONS".
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A - KENNEDY GUARDIAN
B - MUELLER A-423 CENTURIAN
- 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.
- CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.
- CALL THE LAS VEGAS FIRE DEPT. AT 382-3001 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL ONSITE FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- 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.
- FIRE HYDRANT SPACING:
RESIDENTIAL 600 FT. MAXIMUM
COMMERCIAL 500 FT. MAXIMUM.
FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE, AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20' OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- A PERMIT MUST BE OBTAINED FROM THE FIRE DEPARTMENT FOR ONSITE FIRE WATER SYSTEM INSTALLATION PRIOR TO CONSTRUCTION.
- ALL WORK TO COMPLY WITH CITY OF LAS VEGAS ORDINANCE #3318.

LAS VEGAS VALLEY WATER DISTRICT NOTES

- ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
- 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.
- NOTICE TO BE GIVEN TO THE ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
- SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1 1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
- ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
- 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 16".
- ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
- 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.
- CALL BEFORE YOU DIG - 1-800-227-2600.

APPROVAL
Seane Miller 10/10/88
LAS VEGAS VALLEY WATER DISTRICT DATE

David Miller 9/2/88
C.I.V. FIRE MARSHAL DATE

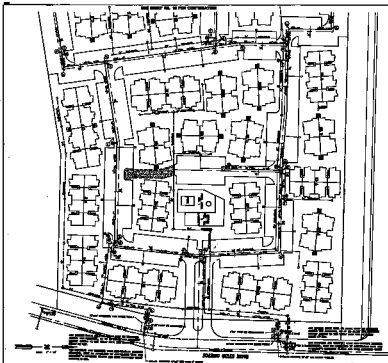
REV	DATE	BY	ADDED NOTE #
1	8-9-88	BN	IN HOUSE REVISIONS, ADD 6 V.
2	8-11-88	BN	
3	9-14-88	CN	REVISED CURVE & SLOPE
4	9-14-88	CN	ADDED FIRE AND MAINS
5	10-14-88	PD2	REVISED FIRE MAIN SIZE FROM 6" TO 10"

ESI ENGINEERS & SURVEYORS INC.
 7010 W. CHARLESTON ROAD, SUITE 203, LAS VEGAS, NV 89115
 REGISTERED PROFESSIONAL ENGINEERS - STATE OF NEVADA
 SUBMITTED BY: *Paul E. Aledine*
 PAUL E. ALEDINE
 CIVIL ENGINEER
 NO. 8018

WATER PLAN (EAST 1/2)

DESERT SHORES APARTMENTS

TITLE: WATER PLAN (EAST 1/2)
 PROJECT: DESERT SHORES APARTMENTS
 NO. NO. 5106
 BY: PDB
 DATE: JULY 21, 1988
 SCALE: 1" = 40'
 SHEET: **9**
 OF 10 SHEETS



LEGEND

1/2" = 1' (Main Lines)	1/4" = 1' (Branch Lines)	1/8" = 1' (Risers)
1/16" = 1' (Service Lines)	1/32" = 1' (Fixture Connections)	1/64" = 1' (Fixture Connections)
1/64" = 1' (Fixture Connections)	1/128" = 1' (Fixture Connections)	1/256" = 1' (Fixture Connections)
1/256" = 1' (Fixture Connections)	1/512" = 1' (Fixture Connections)	1/1024" = 1' (Fixture Connections)
1/1024" = 1' (Fixture Connections)	1/2048" = 1' (Fixture Connections)	1/4096" = 1' (Fixture Connections)
1/4096" = 1' (Fixture Connections)	1/8192" = 1' (Fixture Connections)	1/16384" = 1' (Fixture Connections)
1/16384" = 1' (Fixture Connections)	1/32768" = 1' (Fixture Connections)	1/65536" = 1' (Fixture Connections)
1/65536" = 1' (Fixture Connections)	1/131072" = 1' (Fixture Connections)	1/262144" = 1' (Fixture Connections)
1/262144" = 1' (Fixture Connections)	1/524288" = 1' (Fixture Connections)	1/1048576" = 1' (Fixture Connections)
1/1048576" = 1' (Fixture Connections)	1/2097152" = 1' (Fixture Connections)	1/4194304" = 1' (Fixture Connections)
1/4194304" = 1' (Fixture Connections)	1/8388608" = 1' (Fixture Connections)	1/16777216" = 1' (Fixture Connections)
1/16777216" = 1' (Fixture Connections)	1/33554432" = 1' (Fixture Connections)	1/67108864" = 1' (Fixture Connections)
1/67108864" = 1' (Fixture Connections)	1/134217728" = 1' (Fixture Connections)	1/268435456" = 1' (Fixture Connections)
1/268435456" = 1' (Fixture Connections)	1/536870912" = 1' (Fixture Connections)	1/1073741824" = 1' (Fixture Connections)
1/1073741824" = 1' (Fixture Connections)	1/2147483648" = 1' (Fixture Connections)	1/4294967296" = 1' (Fixture Connections)
1/4294967296" = 1' (Fixture Connections)	1/8589934592" = 1' (Fixture Connections)	1/17179869184" = 1' (Fixture Connections)
1/17179869184" = 1' (Fixture Connections)	1/34359738368" = 1' (Fixture Connections)	1/68719476736" = 1' (Fixture Connections)
1/68719476736" = 1' (Fixture Connections)	1/137438953472" = 1' (Fixture Connections)	1/274877906944" = 1' (Fixture Connections)
1/274877906944" = 1' (Fixture Connections)	1/549755813888" = 1' (Fixture Connections)	1/1099511627776" = 1' (Fixture Connections)
1/1099511627776" = 1' (Fixture Connections)	1/2199023255552" = 1' (Fixture Connections)	1/4398046511104" = 1' (Fixture Connections)
1/4398046511104" = 1' (Fixture Connections)	1/8796093022208" = 1' (Fixture Connections)	1/17592186044416" = 1' (Fixture Connections)
1/17592186044416" = 1' (Fixture Connections)	1/35184372088832" = 1' (Fixture Connections)	1/70368744177664" = 1' (Fixture Connections)
1/70368744177664" = 1' (Fixture Connections)	1/140737488355328" = 1' (Fixture Connections)	1/281474976710656" = 1' (Fixture Connections)
1/281474976710656" = 1' (Fixture Connections)	1/562949953421312" = 1' (Fixture Connections)	1/1125899906842624" = 1' (Fixture Connections)
1/1125899906842624" = 1' (Fixture Connections)	1/2251799813685248" = 1' (Fixture Connections)	1/4503599627370496" = 1' (Fixture Connections)
1/4503599627370496" = 1' (Fixture Connections)	1/9007199254740992" = 1' (Fixture Connections)	1/18014398509481984" = 1' (Fixture Connections)
1/18014398509481984" = 1' (Fixture Connections)	1/36028797018963968" = 1' (Fixture Connections)	1/72057594037927936" = 1' (Fixture Connections)
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1/37414441939776363733990031929960184445596307881984" = 1' (Fixture Connections)	1/74828883879552727467980063859920368891192615763968" = 1' (Fixture Connections)	1/149657767759105454935960127719840737782385231527936" = 1' (Fixture Connections)
1/149657767759105454935960127719840737782385231527936" = 1' (Fixture Connections)	1/299315535518210909871920255439681475764770463055872" = 1' (Fixture Connections)	1/598631071036421819743840510879362951529540926111744" = 1' (Fixture Connections)
1/598631071036421819743840510879362951529540926111744" = 1' (Fixture Connections)	1/1197262142072843639487681021758725903059081822223488" = 1' (Fixture Connections)	1/2394524284145687278975362043517451806118163644446976" = 1' (Fixture Connections)
1/239452428414568727897536204351745180611816364446976" = 1' (Fixture Connections)	1/4789048568291374557950724087034903612236367288893952" = 1' (Fixture Connections)	1/9578097136582749115901448174069807224472734577787904" = 1' (Fixture Connections)
1/9578097136582749115901448174069807224472734577787904" = 1' (Fixture Connections)	1/19156194273165498231802896348139614448945469155575808" = 1' (Fixture Connections)	1/38312388546330996463605792696279228897890938311151616" = 1' (Fixture Connections)
1/38312388546330996463605792696279228897890938311151616" = 1' (Fixture Connections)	1/76624777092661992927211585392558457795781876622303232" = 1' (Fixture Connections)	1/15324955418532