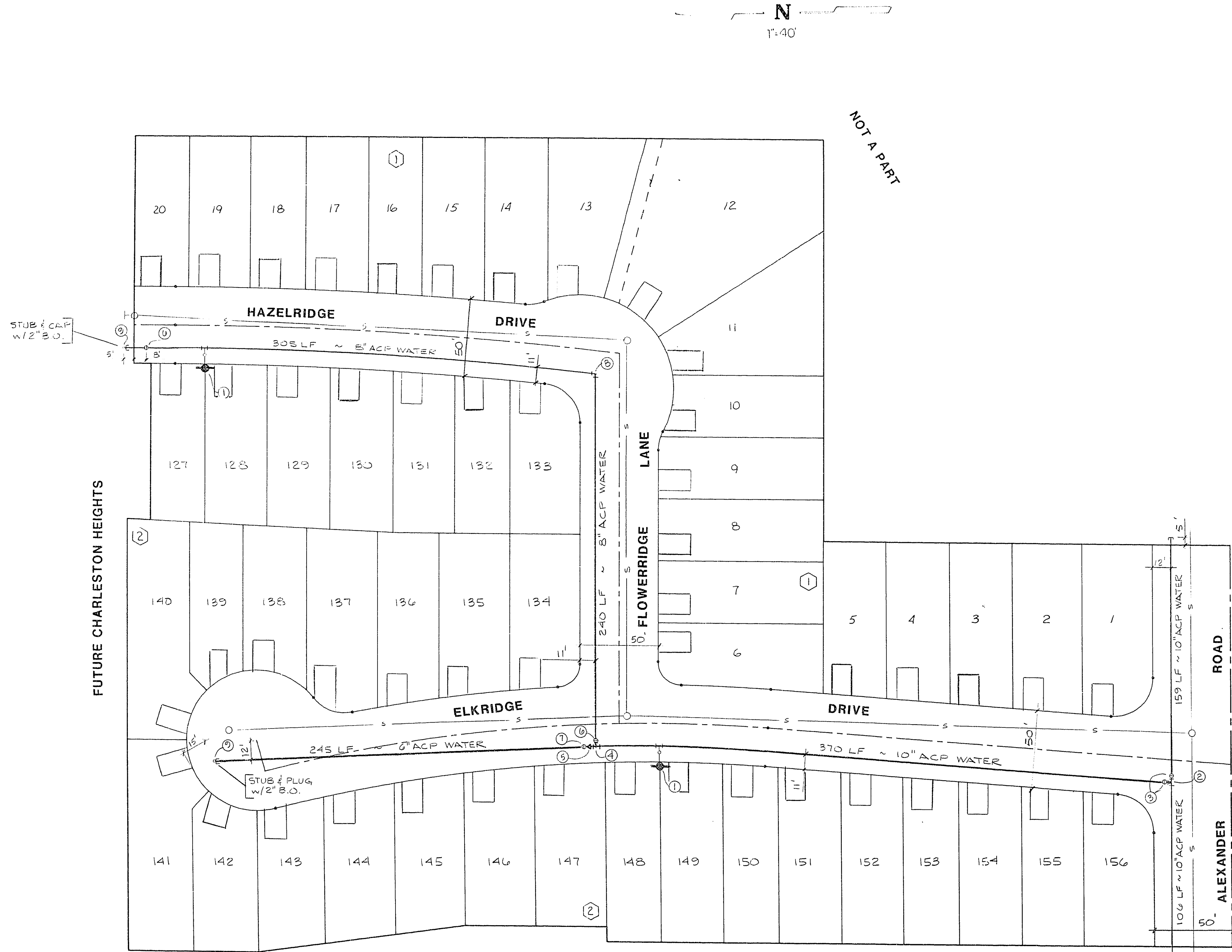




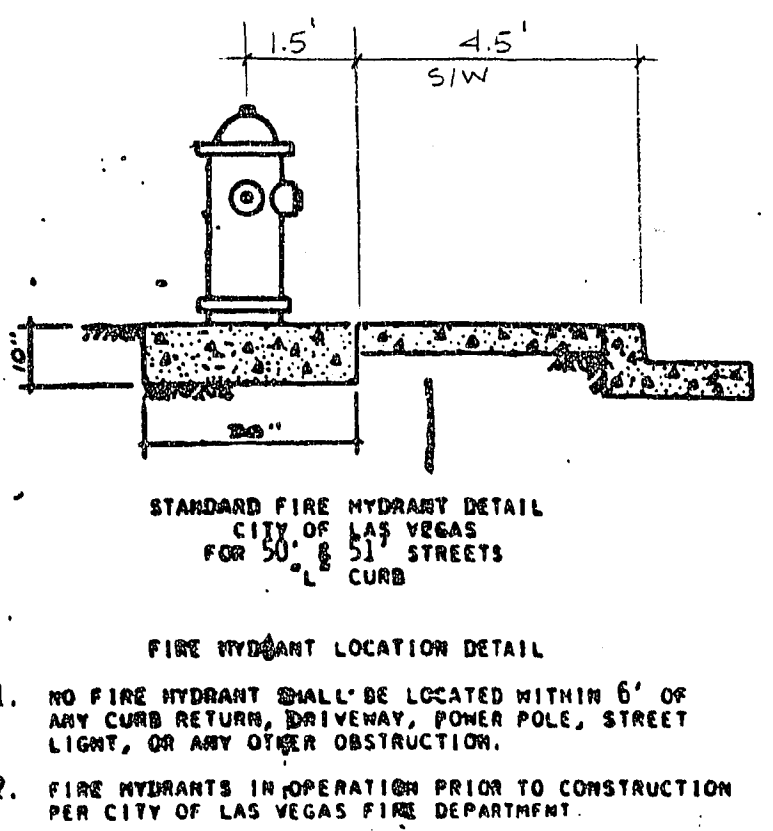
LEGEND & QUANTITY ESTIMATE

ON-SITE	
1 STD FIRE HYDRANT (6" G.V., TEE, PIPE & FITTINGS)	1 EA
2 10" TEE	1 EA
3 10" GATE VALVE	1 EA
4 10" x 8" TEE	1 EA
5 10" x 6" REDUCER	1 EA
6 8" GATE VALVE	2 EA
7 6" GATE VALVE	1 EA
8 8" - 90° BEND	1 EA
9 2" BLOW-OFF	2 EA
10" ACP WATER MAIN	635 LF
8" ACP WATER MAIN	545 LF
6" ACP WATER MAIN	245 LF
3/4" SERVICE W/ 3/8" METER	50 EA
OFF-SITE	
3 10" GATE VALVE	4 EA
10 12" x 10" REDUCER	1 EA
11 AIR RELEASE - AIR VACUUM VALVE	1 EA
10" ACP WATER MAIN	3068 LF

FIRE FLOW
1) $F = 1.13 \times 2000^{0.5}$
= 821 gpm
2) LOW FIRE HAZARD - 1000 gpm
3) 0%
4) 10' - 25%
10' - 25%
82' - 10%
25' - 30%
80% (75% max)
= 1078 gpm

Name of Plan: Charleston Heights Tract 63 Unit 1
Water plan as shown will be acceptable.
It is NOT approved for construction.
Signature: [Signature]
Date: 4/19/88

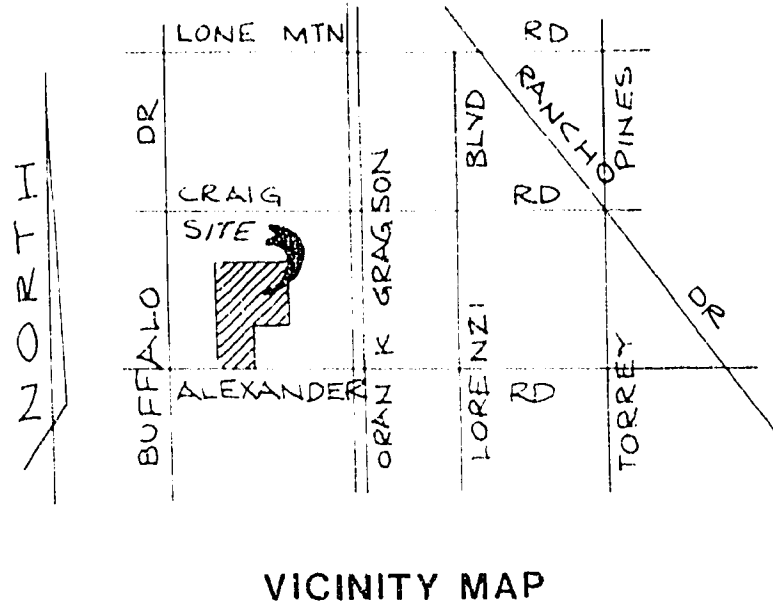
APPROVAL
Signature: [Signature]
C.L.V. FIRE MARSHALL
Date: 8/1/88
Signature: [Signature]
LAS VEGAS VALLEY WATER DIST.
Date: 3/24/88



C.L.V. FIRE DEPT. NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "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 DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL 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.

- LAS VEGAS VALLEY WATER DISTRICT
- ALL WORK TO CONFORM TO LAS VEGAS WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
 - ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA.
 - NOTICE TO BE GIVEN 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 AS FOLLOWS:
A. OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM FACE OF CURB.
B. OVER ALL SERVICE LATERALS NOT INSTALLED AT 8" ANGLES TO MAINS.
 - INSTALL SERVICE LATERALS PER LVWD STD. PLATE 1 ON 1A.
 - CALL BEFORE YOU DIG-1-800-227-2600.



PLASTER DEVELOPMENT
LAS VEGAS, NEVADA

MASTER WATER PLAN

CHARLESTON HEIGHTS TRACT 63
UNIT 1

NO. 3179-1
BY: RPF/JDS
DATE: APRIL 88
SCALE: 1"=40'

SHEET
10
OF 13 SHEETS
567Y-1040-63-1

CONSULTING ENGINEERS - PLANNERS
2300 PASEO DEL PRADO BUILDING A SUITE 100
LAS VEGAS, NEVADA 89102 PHONE (702) 873-7550