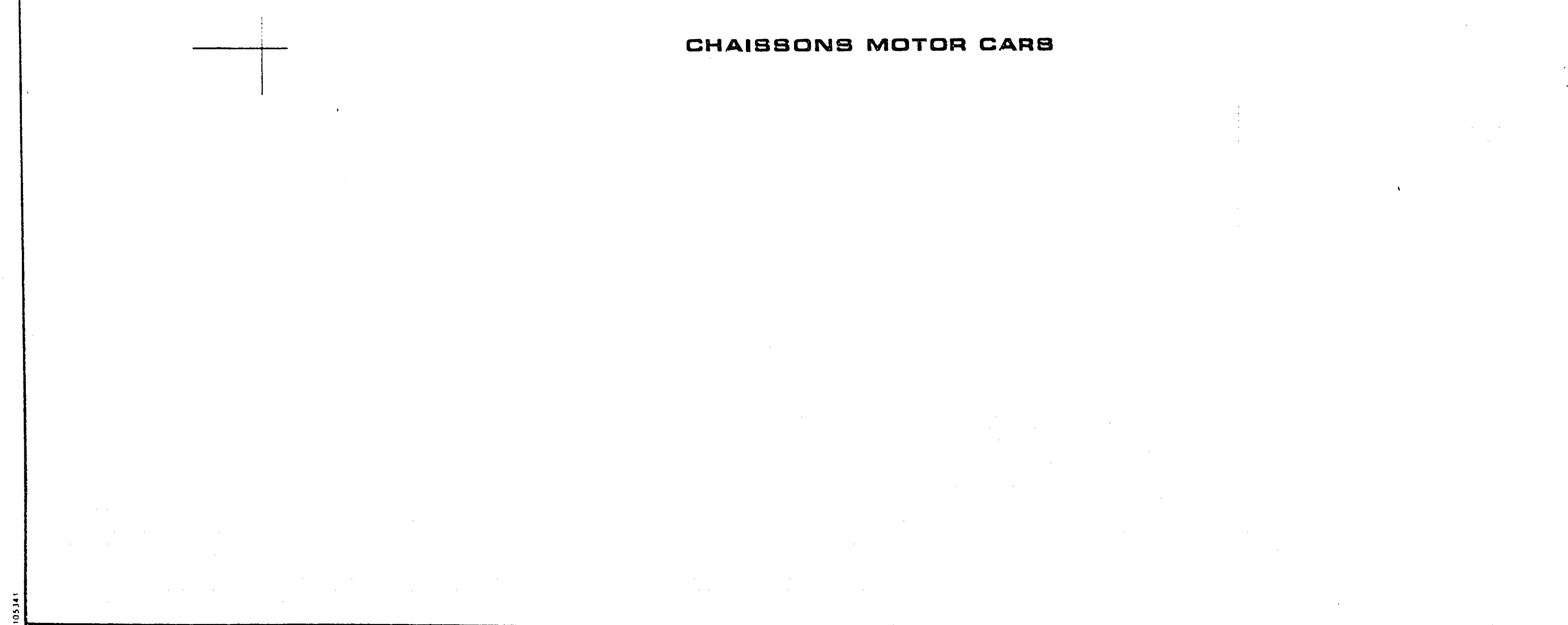
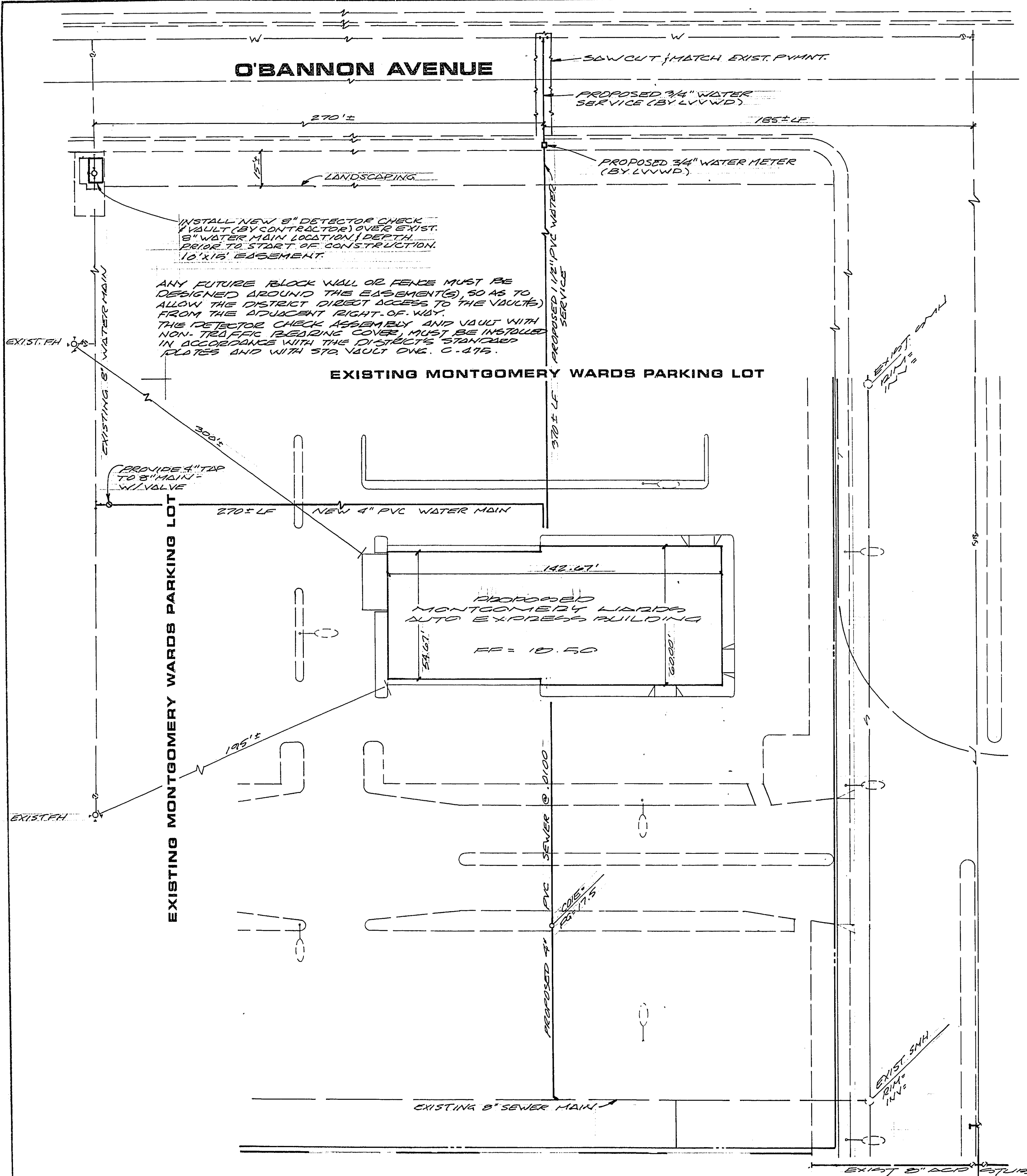




CONSTRUCTION NOTE:
CONTRACTOR TO REPLACE EXISTING
ON-SITE PAVEMENT SECTIONS (LANDSCAPE
AREAS TO ORIGINAL (FEDERAL) CONDITION.

UNDEVELOPED

BOULEVARD

DECATUR

ESTIMATE OF WATER QUANTITIES

OFFSITE	
3/4" WATER METER (BY LVVWD)	1 ED
3/4" WATER SERVICE (BY LVVWD)	45 LF
8" DETECTOR CHECK (BY CONTRACTOR)	1 ED

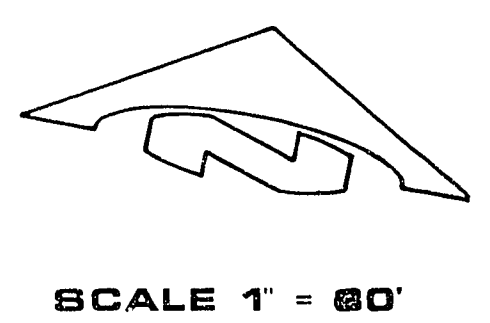
ON-SITE

1 1/2" PVC WATER SERVICE	370 LF
4" FIRE MAIN	270 LF
4" GATE VALVE	1 ED
4" 90° ELBOW WITH THRUST BLOCK	1 ED
8"x8"x4' CONNECTION (TEE) WITH THRUST BLOCK	

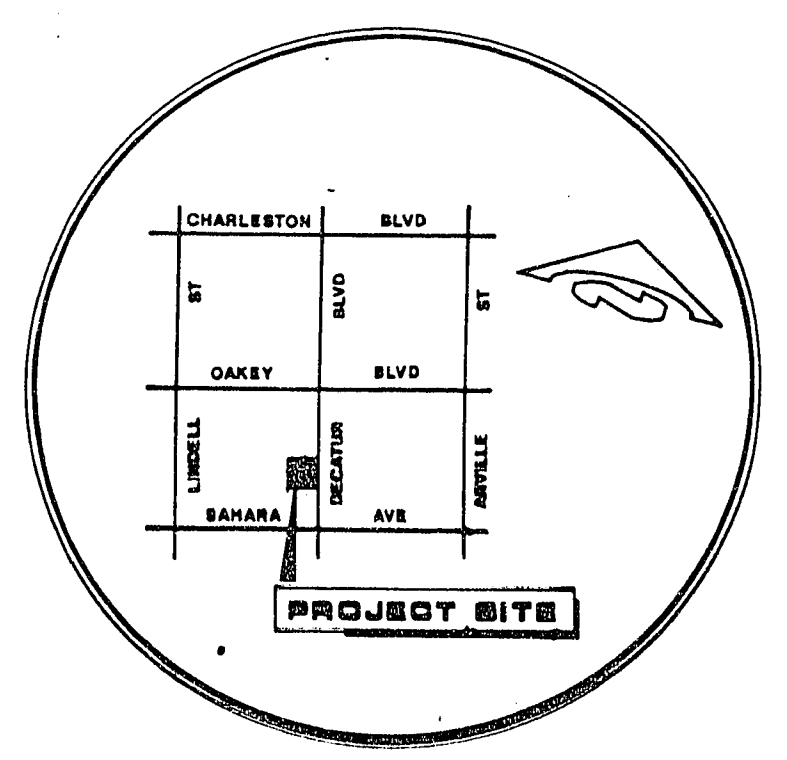
ESTIMATE OF SEWER QUANTITIES

ON-SITE	
4" PVC RELLER SERVICE	175 LF
CLEANOUTS	1 ED

FIRE FLOW DATA
BUILDING AREA: 8,000 S.F. / 1 STORY
CONSTRUCTION: TYPE: 8" CMU
TO ROOF DECK: 1 H.R.
INTERIOR FIRE HALLS
FIRE FLOW: (1,000) 1,000 GPM
FIRE FLOW AVAILABLE: 2,000 GPM



SCALE 1" = 80'



VICINITY MAP
NO SCALE

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

BENCHMARK
NODI BRASS CAP, 0.10 FEET BELOW AC AT INTERSECTION
OF DECATUR BLVD. AND SAHARA AVE.
SEC. CORNER
C115W06, ELEVATION = 2218.49'

NOTE:
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT 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: 1-800-227-2600.

WATER NOTES

- ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARD PLATES AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY, NEVADA.
- 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 2.5 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPES SIZES BETWEEN 14 INCHES AND 16 INCHES.
- 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
- ~~ALL PIPES SIZE FOUR INCHES (4") AND GREATER SHALL BE ASBESTOS CEMENT PIPE (AC) CLASS 150 PIPE TWO INCHES (2") OR LESS SHALL BE POLYETHYLENE PIPE (PE) SDR-7 WITH A PRESSURE RATING OF ALL FITTINGS AND JOINTS SHALL BE IN ACCORDANCE WITH LAS VEGAS VALLEY WATER DISTRICT STANDARDS.~~

FIRE 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 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 393-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL ON-SITE 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.
- THE LAS VEGAS VALLEY WATER DISTRICT IS TO DETERMINE THAT HYDRANTS ARE CONNECTED TO A WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.
- PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR ON-SITE WATER SYSTEM.
- THE ON-SITE WATER SYSTEM SHALL CONFORM TO NFPA #24.
- SEE ALSO GENERAL NOTES ON SHEET 1.

APPROVALS

Gregory P. Frey 11/17/88
NEVADA POWER COMPANY DATE
Charles L. Lanner 11/30/88
CLV ENGINEER FIRE MARSHALL DATE
Deanne A. Miller 10/20/88
LAS VEGAS VALLEY WATER DISTRICT DATE

REVISIONS

NO.	DESCRIPTION/DATE	BY
1	REV. WATER SERVICE LOCATIONS 7-28-88	JL

SPARKS, NEVADA
LAS VEGAS, NEVADA
PHOENIX, ARIZONA

incorporated

S&A
ENGINEERS/PLANNERS

MASTER SEWER AND WATER PLAN

MONTGOMERY WARDS - AUTO EXPRESS

A PORTION OF THE SE1/4, OF THE SE1/4, SECTION 1, T21S, R60E, MDN

LAS VEGAS

NEVADA

JOB NO. 2-610-01-1
DESIGNED SB
DRAWN JL
COMP.
CHECKED
DATE JULY 1988

2

2 OF 2 SHEETS
107-V1676