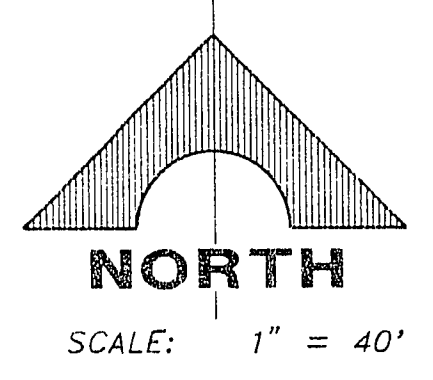


Call before you dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)



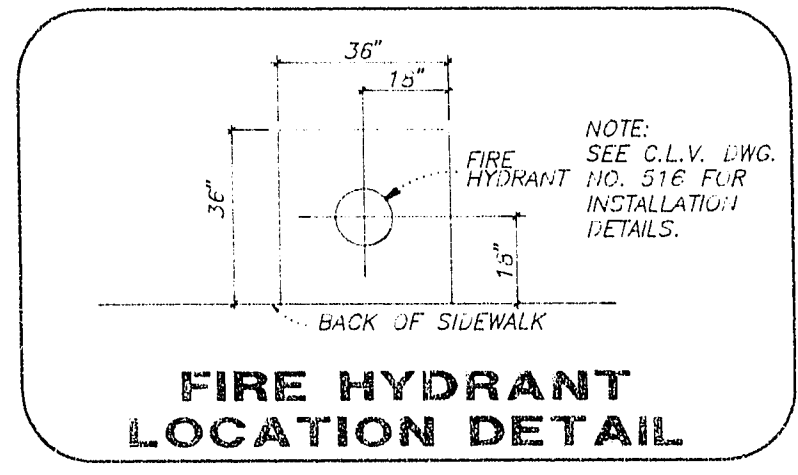
MATCH LINE SEE SHT. 5

LEGEND

--- RIGHT OF WAY LINE	CONCRETE DRIVEWAY
--- EASEMENT LINE	250W HPS LUMINAIRE W/11 GA. POLE
--- 6" W. EXIST. WATER LINE	100W HPS LUMINAIRE W/11 GA. POLE
--- 8" S. EXIST. SEWER LINE	NO. 3 1/2 CONCRETE PULL BOX W/METAL COVER
--- FIRE HYDRANT W/LEAD AND G.V.	STOP SIGN
--- WATER LINE	STREET SIGN
--- MH #3	S.P.O.C. (SERVICE POINT OF CONNECTION)
--- SEWER LINE WITH MANHOLE	IRRIGATION METER
--- SEWER LATERAL	
--- GATE VALVE	
--- 1 1/4" PVC CONDUIT (STREET LIGHTS)	

ESTIMATE OF QUANTITIES

1. STD. F.H. W/6" G.V. & 6" A.C.P. LATERAL	9	EA
2. 3/4" SERVICE W/METER BOX	104	EA
3. 3/4" METER BY L.V.V.W.D.	104	EA
4. 5/8" SERVICE W/METER BOX	18	EA
5. 5/8" METER BY L.V.V.W.D.	18	EA
6. 6" PVC	1594	L.F.
7. 8" PVC	1371	L.F.
8. 10" PVC	1190	L.F.
9. 12" PVC	319	L.F.
10. 6" G.V.	2	EA
11. 8" G.V.	2	EA
12. 10" G.V.	1	EA
13. 8" X 6" REDUCER	2	EA
14. 10" X 8" REDUCER	1	EA
15. 12" X 8" REDUCER	1	EA
16. 90° 45° BEND	6	EA
17. 12" 45° BEND	2	EA
18. 12" X 12" TEE	1	EA
19. BLOW OFF VALVE	2	EA
20. 1 1/2" IRRIGATION METER W/SERVICE	2	EA
21. 8" X 6" TEE	1	EA
22. 12" G.V.	1	EA



LAS VEGAS FIRE DEPARTMENT

Fire flow Requirement is 1527 gpm at 20 pounds per square inch residual.

Based on: 3948 S.F.

Square footage: 3948 S.F.

Largest area between area separation walls: N/A

Height: 21 FEET

Type of Construction: FRAME/STUCCO

Exposures: 15 FEET

Sprinkler System: NONE

Occupancy: RESIDENTIAL

Roof Construction: TILE

Review By: *Daniel Bauman*

Date: 7/10/92

TRAFFIC SIGN QUANTITIES

1. 6" D-3 STREET NAME SIGN	2	EA
2. R1-1 STOP SIGN	1	EA

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (870-1194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION AND 24 HOURS PRIOR TO AN INSPECTION.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
- ALL WORK EXCEPT AS MODIFIED HEREIN OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITION OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED 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.
- COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT SPECIFICATIONS AND STANDARD PLATES.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SUB JOINT	DUCTILE IRON MECHANICAL JOINT
6 - 12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
8 - 12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 - 18 INCH	1.5 DEGREES	1.5 DEGREES	1.5 DEGREES
18 - 24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 17" FOR A 6" PIPE, 12 INCHES FOR 8" PIPE, 11 INCHES FOR 10" PIPE AND 9 INCHES FOR 12" PIPE.

- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS AND VALVE OUTLETS.
- DETECTOR TAPE IS REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:

- OVER ALL MAINS NOT INSTALLED 4 FEET FROM BACK OF CURB.
- OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.

- ALL WATER MAINS ARE TO BE PRESSURED TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD.
- ALL WATER MAINS AND LATERALS SHALL BE DISINFECTED AND FLUSHED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO ACCEPTANCE BY THE DISTRICT.
- CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM L.V.V.W.D. CENTRAL STORES. TELEPHONE 238-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

STREET LIGHTING NOTE

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED. SEE UNIFORM STANDARD DRAWING NO. 319.

BENCHMARKS

CLV BENCHMARK: TOP OF CURB AT END OF CURB, WEST SIDE OF DURANGO DRIVE, 250' SOUTH OF WESTCLIFF BOULEVARD. ELEVATION: 2610.16

PROJECT BENCHMARK: BRASS CAP IN IRON PIPE, 100' NORTH AND 100' WEST OF THE INTERSECTION OF SUN CITY BLVD. AND THOMAS W. RYAN BLVD. N 532,706.153, E 577,416.901 ELEVATION: 2855.24

This approval is only for the placement and clearance of street light and signal light installations.

7/10/92 (DATE)

Neta R. Alvarado
NEVADA POWER COMPANY

APPROVED FOR CONSTRUCTION

7/16/92 (DATE)

LAS VEGAS VALLEY WATER DISTRICT

* THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT OF A WATER-SEWER/STORM CROSSING:

WHEN PROTECTION OF THE WATER LINE IS CONSIDERED, THE MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED WHEN THE WATERLINE IS INSTALLED OVER THE SEWER/STORM LINE. IF THIS DISTANCE CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS OR THE WATERLINE MUST BE PLACED UNDER THE SEWER/STORM LINE, THE SEWER/STORM LINE MUST BE CONSTRUCTED WITH ANY ONE OF THE FOLLOWING:

- EXTRA HEAVY CAST IRON OR DUCTILE IRON PIPE,
- WATER SUPPLY QUALITY MATERIAL,
- ENCASEMENT, WITH 4 INCHES MINIMUM CONCRETE SLEEVING OR WITH WATER QUALITY PIPE.

EACH OF THESE PROVISIONS MUST BE EXTENDED FOR 10 FEET ON EITHER SIDE OF THE WATERLINE AT 90 DEGREES TO THE CROSSING.

SEWER NOTES

- ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN 10' TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

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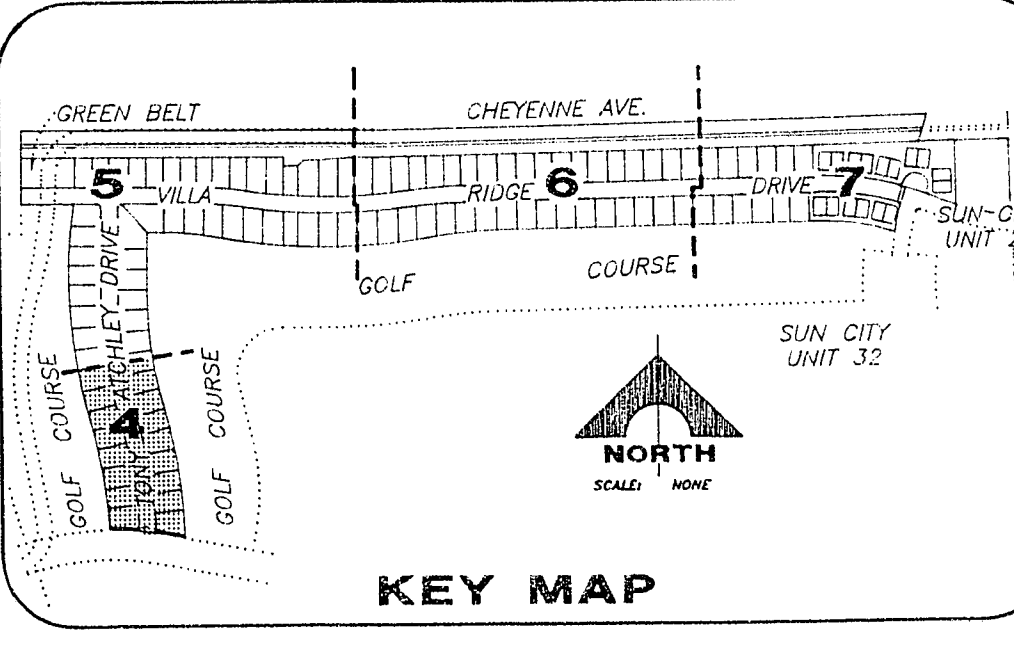
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DOMESTIC AND FIRE PROTECTION WATER SERVICE FOR THIS PROJECT IS DEPENDENT UPON THE COMPLETION OF THE 2975 ZONE PIPELINE PHASE II & III WITH HOWARD HUGHES PROPERTIES OVERSIZING AGREEMENT NUMBER 72-001 AND PHASE IV WITH DEL WEBB OVERSIZING AGREEMENT NUMBER 72-002.

REVISIONS

NO.	DATE	DESCRIPTION
1	7/10/92	ISSUED FOR PERMITS
2	7/10/92	ISSUED FOR PERMITS
3	7/10/92	ISSUED FOR PERMITS
4	7/10/92	ISSUED FOR PERMITS

DEL WEBB COMMUNITIES, INC.
SUN CITY LAS VEGAS UNIT NO. 37
UTILITY PLAN 1

G. C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH WASHINGTON BLVD., LAS VEGAS, NEVADA 89102

SHEET 4 OF 28 SHEETS

JOB NO. 701.164
PLOTTER: 06/29/92 11:04 am DRAWING: D37-4

10-9-97 301V-4/41-37