

Drawing No.

Project No.

10'

EXIST 12" ACP

EXIST FIRE HYDRANT

EXIST CHAINLINK FENCE

10'x10' EASEMENT FOR THE LVVWD

WATER METER PER LVVWD STD DETAIL NO. 2 (TYP., 2 LOCATIONS)

2" RPPA (2 EA)

8" DOUBLE DETECTOR CHECK VALVE IN PLANTER AREA

10'x20' EASEMENT FOR THE LAS VEGAS VALLEY WATER DISTRICT REMOVE EXIST CHAINLINK FENCE ON WEST SIDE OF EASEMENT AND PLACE FENCE ON NORTH, SOUTH AND EAST SIDE OF EASEMENT.

12"x8" MECHANICAL JOINT WET TAP TO EXIST WATERLINE 1/2"x12"x8 TEE PER LVVWD STD. DETAIL NO. 22

CONNECT TO EXISTING WATERLINE WITH 2" SERVICE SADDLES

2" WATER LINES

8" WATER

MOJAVE

59.00'

20.00'

641.53'

BONANZA

10'x20' EASEMENT FOR THE LAS VEGAS VALLEY WATER DISTRICT REMOVE EXIST CHAINLINK FENCE ON WEST SIDE OF EASEMENT AND PLACE FENCE ON NORTH, SOUTH AND EAST SIDE OF EASEMENT.

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INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY - "B".
THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE DISTRICT'S STANDARD PLATE 20.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

REDUCED PRESSURE PRINCIPLE ASSEMBLY - 2-2".

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE DISTRICT'S STANDARD PLATE NO. 11. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

LVVWD EASEMENT LEGAL DESCRIPTION:

BEING A PORTION OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 25, TOWNSHIP 21, SOUTH, RANGE 61 EAST, M.D.M. AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF BONANZA ROAD AND MOJAVE ROAD; THENCE NORTH 00°31'19" WEST ALONG THE CENTERLINE OF MOJAVE ROAD, A DISTANCE 841.53 FEET; THENCE NORTH 89°28'41" EAST, A DISTANCE OF 50.00 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY OF MOJAVE ROAD (125' ROW) SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE NORTH 89°28'41" EAST, A DISTANCE OF 10.00 FEET; THENCE SOUTH 00°31'19" EAST, A DISTANCE OF 30.00 FEET; THENCE SOUTH 89°28'41" WEST, A DISTANCE OF 10.00 FEET; THENCE NORTH 00°31'19" WEST, A DISTANCE OF 30.00 FEET TO THE POINT OF BEGINNING.

SAID EASEMENT CONTAINING 300.00 SQUARE FEET.

NOTE:

CONTRACTOR TO REMOVE AND REPLACE IN KIND EXISTING AC PAVEMENT AND BASE AS REQUIRED TO INSTALL SANITARY SEWER AND WATERLINES PER LVVWD AND CITY OF LAS VEGAS REQUIREMENTS.

ESTIMATE OF QUANTITIES

ITEM	ON-SITE	OFF-SITE
8" PVC	484 LF.	45 LF.
6" PVC	143 LF.	
3" PVC	469 LF.	
2" PVC	8 LF.	74 LF.
8" GATE VALVE	2 EACH	
8" WET TAP ASSEMBLY	1 EACH	1 EACH
8" DOC	1 EACH	
2" WET TAP (FROM LVVWD)	2 EACH	2 EACH
1-1/2" PVC	310 LF.	

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE 53677.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A. KENNEDY GUARDIAN
B. MULLER 4-423 CENTURIAN
C. GLOW MODEL 2548 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMPLETION OF CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AS REQUIRED IN ORDINANCE 53677 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 228-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANTS AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE 53677 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATER LINE AND FIRE HYDRANT INSTALLATIONS. THE PERMIT AND CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY. FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE UL-LISTED AND A.W.W.A. APPROVED.
- FIRE HYDRANT SPACING:
RESIDENTIAL - 500 FEET UNSPRINKLERED, 800 FEET SPRINKLERED
COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT. OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 8 FT. OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN UPC 8A, SECTION 10.207).
- ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA IN ACCORDANCE WITH ORDINANCE 1847.

CITY OF LAS VEGAS SANITARY SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE B 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" DIAMETER 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 TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

BUILDING INFORMATION

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.	
SQUARE FOOTAGE	12,583 SF
BASED ON:	1 STORY
HEIGHT	STEE FRAMING AND DECK
ROOF CONSTRUCTION	SPRINKLER SYSTEM
OCCUPANCY	H-4
EXPOSURES	TYPE II H (FULLY SPRINKLERED)
TYPE OF CONSTRUCTION	
DATE	6/18/04
BY	J. Marshall, CITY OF LAS VEGAS

LEGEND

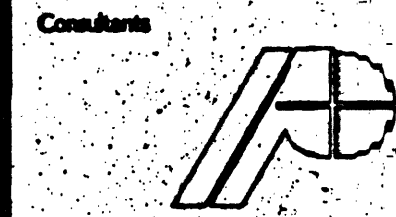
- EXISTING WATERLINE
- EXISTING GAS LINE
- EXISTING SEWERLINE
- EXISTING FIRE HYDRANT
- PROPOSED WATERLINE
- PROPOSED SEWERLINE
- SEWER LATERALS
- FIRE HYDRANT
- MANHOLE
- CLEANOUT
- VALVE

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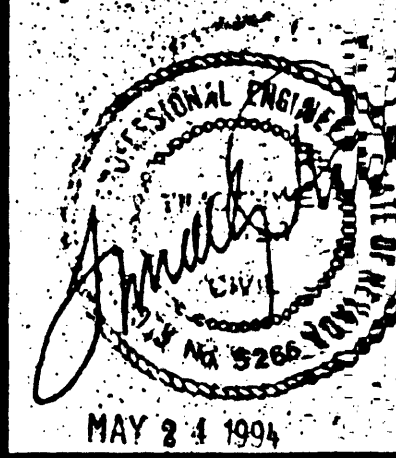


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The Contractor shall check and verify all dimensions and report any errors and omissions to the office prior to commencing work. These drawings are not to be scaled.

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Seal



Revisions

No.	Date	Description
1	5/9/94	REVISED SANITARY SEWER
2	5/20/94	REVISED SANITARY SEWER AND WATER

Date: 20 MAY 04

Drawn: JCH

Checked: DCL/TEP

Project No.: 43069

Project:

CITY OF LAS VEGAS

FIRE EQUIPMENT SERVICE CENTER (FESC)

Las Vegas, Nevada 89101

Drawing Title

UTILITY PLAN

Drawn: No.

C-5