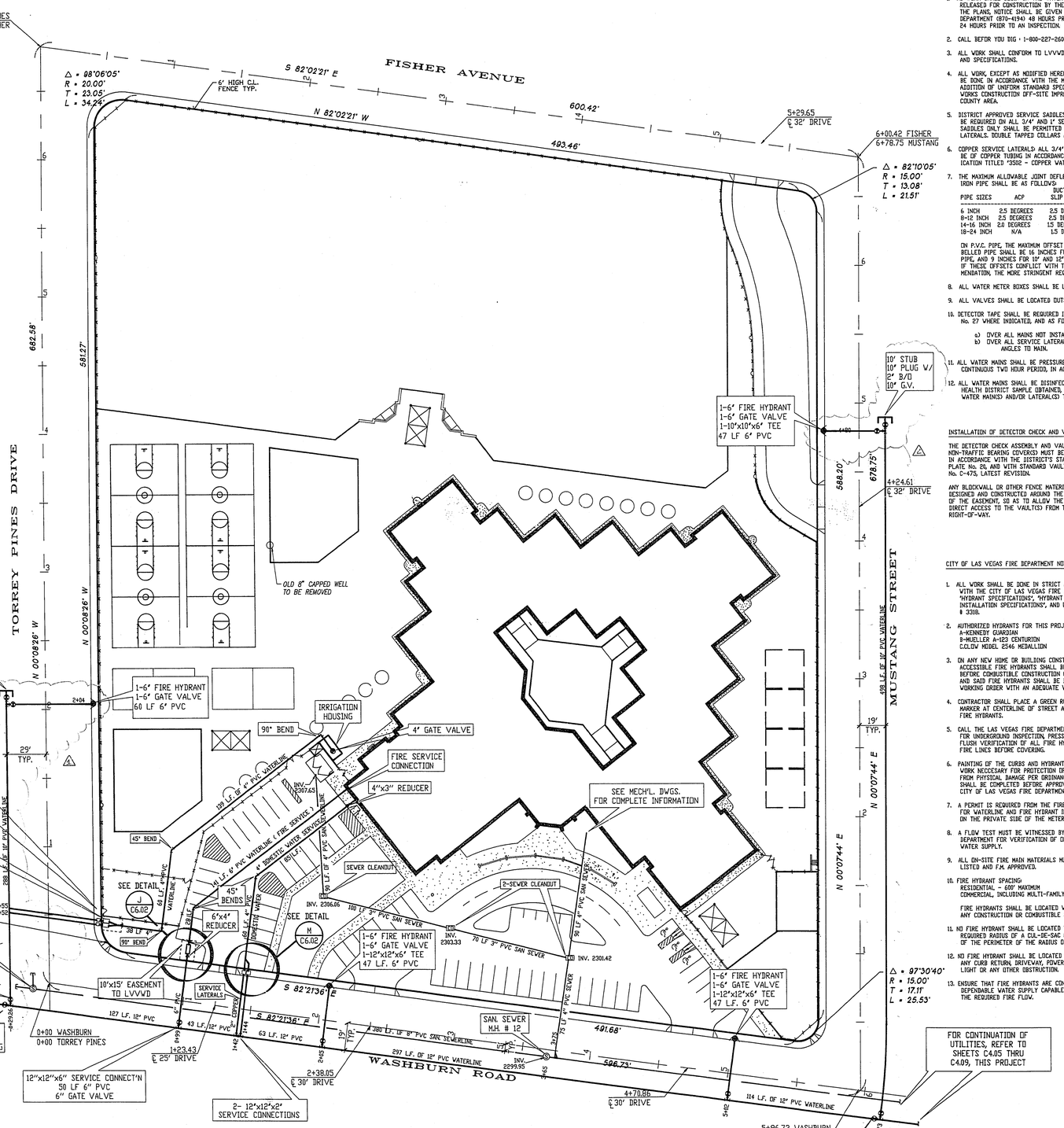
Avoid cutting underground utility lines. It's costly.

Call before you Dig

1-800-227-2600



CITY OF LAS VEGAS SEWER NOTES

1. ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFFSITE IMPROVEMENT, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
2. CHISEL "S" OR "S" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
3. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D 3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
4. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
5. 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.
6. 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.

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
2. CALL BEFOR YOU DIG : 1-800-227-2600.
3. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR ADDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
5. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1-1/2" AND 2" SEVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
6. COPPER SERVICE LATERALS ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATION TITLED "3502 - COPPER WATER TUBING".
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR A.C.P. AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8-12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14-16 INCH	2.0 DEGREES	1.5 DEGREES	1.5 DEGREES
18-24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

ON P.V.C. PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE. IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURER'S RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE No. 27 WHERE INDICATED, AND AS FOLLOWS:
    a) OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
    b) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 P.S.I. FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
12. ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH DISTRICT SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.

INSTALLATION OF DETECTOR CHECK AND VAULT

THE DETECTOR CHECK ASSEMBLY AND VAULT WITH NON-TRAFFIC BEARING COVER(S) MUST BE INSTALLED IN ACCORDANCE WITH THE DISTRICT'S STANDARD PLATE No. 24, AND WITH STANDARD VAULT DRAWING No. C-475, LATEST REVISION.

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

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS", AND ORDINANCE # 3318.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
   A-KENNEDY GUARDIAN
   B-MUELLER A-423 CENTURION
   C.CLOW MODEL 2546 MEDALLION
3. 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.
4. CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.
5. 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.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECCESARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE # 3318 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATERLINE AND FIRE HYDRANT INSTALLATIONS ON THE PRIVATE SIDE OF THE METER.
8. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT FOR VERIFICATION OF ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE MAIN MATERIALS MUST BE UL. LISTED AND F.M. APPROVED.
10. FIRE HYDRANT SPACING:
    RESIDENTIAL - 600' MAXIMUM
    COMMERCIAL, INCLUDING MULTI-FAMILY, 500' MAX.
    FIRE HYDRANTS SHALL BE LOCATED WITHIN 500' OF ANY CONSTRUCTION OR COMBUSTIBLE STORAGE.
11. 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.
12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
13. ENSURE THAT FIRE HYDRANTS ARE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.

BENCHMARK

ELEVATION = 2258.894

SET DRIVE RIVET IN A 2"x2" ALUMINUM PLATE, IN THE TOP OF THE SOUTHWEST PORTION OF A GAS COMPANY VAULT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF CRAIG ROAD AND JONES BOULEVARD, 8.5 FEET SOUTHEAST OF POWER POLE No. SNT. CO 3322.

APPROVALS

GEORGE K. JACOBY — DATE 10-15-90
LAS VEGAS VALLEY WATER DISTRICT

CITY OF LAS VEGAS FIRE MARSHALL — DATE 10/15/90
RICHARD A. BRENNER

CITY OF LAS VEGAS SANITATION CHIEF — DATE

QUANTITIES (this sheet)

ONSITE

3" PVC SANITARY SEWERLINE	260	L.F.
4" PVC SANITARY SEWERLINE	139	L.F.
SEWER CLEANOUT	3	EACH
4" PVC WATERLINE	382	L.F.
6" PVC WATERLINE	169	L.F.
6" 45° BEND	1	EACH
4" 45° BEND	3	EACH
4" 90° BEND	2	EACH
6"x 4" REDUCER	2	EACH
4"x 2" REDUCER	2	EACH
4"x2" REDUCER / EXPANSION	2	EACH
4" 45° WYE	2	EACH

OFFSITE (STATION 6+19 TO STATION 6+15.73)

6" FIRE HYDRANT	4	EACH
10" 90° BEND	2	EACH
10" GATE VALVE	4	EACH
6" GATE VALVE	5	EACH
6" PVC WATERLINE	251	L.F.
2" COPPER WATER SERVICES	102	L.F.
12" GATE VALVE	2	EACH
12"x12"x2" TEE	5	EACH
12"x12"x6" TEE	3	EACH
12"x12"x10" TEE	1	EACH
10" PVC WATERLINE	806	L.F.
12" PVC WATERLINE	644	L.F.
12" PLUG	1	EACH
4" PVC SANITARY SEWERLINE	13	L.F.
8" PVC SANITARY SEWERLINE	587	L.F.
SEWER MANHOLE	2	EACH
4" DOUBLE DETECTOR CHECK W/ VAULT	1	EACH
2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY	2	EACH
WATER SERVICE CONNECTION	5	EACH
10" CAP	2	EACH
10"x10"x6" TEE	2	EACH
2" METERS (SUPPLIED BY LVVWD)	4	EACH
2" COPPER WATERLINE	18	L.F.
2" BALL VALVES	2	EACH
2" BLOWOFF	2	EACH

BUILDING DATA -- CITY OF LAS VEGAS FIRE DEPARTMENT

TYPE OF CONSTRUCTION - II-N, II — MAX. SQ. FT. - 52,497

NUMBER OF FLOORS - 1

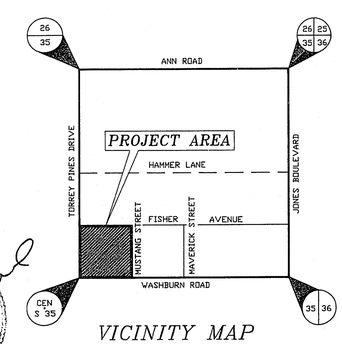
PLANNED USE - CLASSROOMS, ADMIN. OFFICES, MULTI-PURPOSE

FIRE RESISTIVE RATING OF SEPARATION WALLS - 1 HR, 2 HR.

AUTOMATIC FIRE SPRINKLER SYSTEM - PROVIDED THROUGHOUT

REQUIRED FIRE FLOW = 3500 G.P.M.

NOTE: NO ASBESTOS CONTAINING MATERIALS ALLOWED ON-SITE



VICINITY MAP

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER — RALPH M. GABRIEL — CIVIL — No. 8430 — STATE OF NEVADA — 10/10/90

No.	Date	REVISIONS
1	10-5-90	MOVED WATERLINES, SEWER, QUANTITIES CHANGED S.PHILLIPS
2	10-11-90	GATE VALVES, WATER LATERALS

Scale 1" = 40'
Drawing No. 2085.01
Drawn by FMZ
Checked by RMG
Date 7-06-90

MASTER UTILITY PLAN

ERNEST J. MAY ELEMENTARY SCHOOL

Prepared in the office of
Church Engineering, Inc.
Consulting Engineers
Planners
Surveyors
2909 Lucile Ave.
Las Vegas
NV 89102
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Job Number 7108.208
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