



CLARK COUNTY SANITATION DISTRICT GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN & CONSTRUCTION STANDARDS OF THE CLARK COUNTY SANITATION DISTRICT AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA. IN ALL CASES, THE DISTRICT'S CRITERIA 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.
- CLARK COUNTY SANITATION DISTRICT'S STANDARD DRAWINGS SHALL APPLY TO ALL CONSTRUCTION.
- SEWER MAINS ONLY TO BE LAID IN SEWER TRENCHES.
- ALL 4" HOUSE LATERALS TO BE LAID AT NOT LESS THAN MINIMUM SLOPES AS SHOWN IN THE DISTRICT'S STANDARD DRAWINGS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST BEET WITH THE APPROVAL OF THE CLARK COUNTY SANITATION DISTRICT.
- SOIL TESTING SHALL BE IN ACCORDANCE WITH SECTION 3.11 OF THE CONSTRUCTION STANDARDS OF THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
- ALL EXFILTRATION, INFILTRATION, AND AIR TESTING OF LINES SHALL BE IN ACCORDANCE WITH THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
- CUT SHEETS MUST BE SUBMITTED TO THE DISTRICT BEFORE CONSTRUCTION WILL BE PERMITTED TO START.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER JURISDICTION OF THE DISTRICT MUST BE CLASS "A" CONTRACTORS.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

- SQUARE FOOTAGE: 4800 MAX. SQ. FT.
- LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A. SQ. FT.
- BUILDING HEIGHT: FEET
- NUMBER OF STORES: 1 & 2
- TYPE OF CONSTRUCTION: V
- OCCUPANCY: V
- FULL AUTOMATIC FIRE SPRINKLER SYSTEM: V

REVIEWED BY: *[Signature]*
DATE: 10-12-99

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLANS 48 HOURS NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
- WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDCS), LATEST EDITION. ALL WORK EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES. LARGER DIAMETER LATERALS SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB CUTTERS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY OR STORM SEWER LINE CROSS:
 - A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR AS SHOWN ON THESE PLANS:
 - POTABLE WATER SUPPLY QUALITY MATERIAL.
 - ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM) SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
- EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
- WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
- CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 P.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

ESTIMATE OF QUANTITIES

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE INSTALLATION SPECIFICATIONS.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CENTER SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROADS MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED LAND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- REFLECTIVE MARKERS INSTALLED PER SECTION 13.04.130(D) OF CLARK COUNTY ORDINANCE #1167, MUST BE PROVIDED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED.

ESTIMATE OF QUANTITIES - WATER (PUBLIC)

WATER (PUBLIC)

1 FIRE HYDRANT ASSEMBLY, PER UDS PLATE NO. 7	3 EA.
2 8" x 8" MECHANICAL JOINT TAPPING TEE WITH 8" TAPPING VALVE	1 EA.
3 8" 45° ELBOW	2 EA.
4 8" GATE VALVE	1 EA.
5 8" GATE VALVE	1 EA.
6 8" GATE VALVE	1 EA.
7 8" x 8" TEE	1 EA.
8 2" MANUAL BLOW-OFF ASSEMBLY	2 EA.
9 8" 22 1/2" WATER MAIN	1 EA.
10 8" WATER MAIN	1,364 LF.
11 8" WATER MAIN	190 LF.
12 1" SERVICE 1/2" x 3/4" METER	23 EA.
13 3/4" IRRIGATION METER	2 EA.
14 SEE NOTES FOR SPECIAL REQUIREMENTS FOR TAPPING VALVES 6" x 8", 8" x 8" & 8" x 6"	2 EA.
15 STANDARD MANHOLE 4' DIA.	9 EA.
16 8" SEWER MAIN	1,894 LF.
17 4" SEWER LATERALS	23 EA.
18 6" SEWER LATERALS	0 EA.
19 SEWER BACKWATER VALVE	1 EA.
20 PER CLARK CO. SANITATION DISTRICT DNG.# 50-24	

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW	0.0133 MOD
PEAK FLOW	0.0451 MOD

FIRE HYDRANT DETAIL

CLARK COUNTY SANITATION DISTRICT

DATE: 10-12-99

SIGNATURE: *[Signature]*

APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OR ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS, FIRE FLOW 1750 GALLONS PER MINUTE @ 20 PSI, RESIDUAL.

SEWER AS-BUILTS

ESTIMATE OF QUANTITIES - WATER (PUBLIC) (CONTINUED FROM ABOVE)

1 8" 11/2" ELBOW	2 EA.
2 8" 22 1/2" ELBOW	1 EA.
3 6" 1 1/4" ELBOW	1 EA.

POINT OF CONNECTION TO EXISTING UTILITIES

DRIVEWAY LOCATION (SCHEMATIC ONLY)

CLARK COUNTY FIRE DEPARTMENT GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY ORDINANCE #1167, NFPA #24, 1987 EDITION OF THE UNIFORM FIRE CODE.
- ON ANY BUILDING CONSTRUCTION SITE, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER