

CLV GENERAL NOTES

2.1 City of Las Vegas General Notes

1. All construction and materials shall be in accordance with the "Uniform Standard Specifications for Public Works Construction Off-Site Improvements, Clark County Area Nevada", latest issue, the "Uniform Standard Drawings for Public Works Construction, Clark County Area Nevada", latest edition; and other applicable approved standards issued by the controlling agency, the Uniform Building Code; and all local city codes and ordinances applicable, except as noted on this sheet as "Deviations from Standards".
2. The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities as shown from CLV Plans Library are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the Contractor. Existing utility service laterals may not be shown on the plans. The Contractor shall, at his own expense, locate all underground and overhead interference's which may affect his operation during construction and shall take all necessary precautions to avoid damage to same. The Contractor shall use extreme caution when working near overhead utilities so as to safely protect all personnel and equipment, and shall be responsible for all cost and liability in connection therewith.
3. The Contractor shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the Contractor's operations shall be repaired or replaced satisfactory to the City Engineer and owning utility company at the expense of the Contractor.
4. All construction shall be as shown on these plans, any revisions shall have the prior written approval of the City Engineer.
5. Type V cement shall be used in all off-site concrete work. Concrete to be 3000 P.S.I. minimum @ 28 days. Mix design to be approved by the City Engineer, prior to the use on the project.
6. Permits are required for any work in the public Right-of-way. The Contractor shall secure all permits and inspections required for this construction.
7. Expansion joints required, maximum every 300' in extruded-type curb.
8. AC pavement to be on-half inch (1/2") above lip of all gutters after compaction, except at sidewalk ramps and cross gutters.
9. Curb and gutter found to unacceptable to the City of Las Vegas shall be removed and replaced per standard drawing 216.
10. Sidewalk ramps shall be constructed in each quadrant of an intersection per standard drawing 235. Exact location of ramps may be adjusted in the field by a City Inspector.
11. Contractor shall provide all necessary horizontal and vertical transitions between new construction and existing surfaces to provide for proper drainage and for ingress and egress to new construction. The extent of transitions to be as shown on plans.
12. All grading work shall conform to the soils report as prepared by the Soils Engineer approved by the City Engineer, and as shown on these plans.
13. Exact location of all sawcut lines may be adjusted or determined in the field by a City of Las Vegas Engineer if location on plans is not clearly shown, or existing pavement condition requires relocations.
14. The Contractor shall take all precautions necessary to protect existing permanent survey monuments. Any monuments disturbed shall be replaced and adjusted per available records in accordance with N.R.S. Statute No. 625.550.
15. Utility company meter boxes, manhole lids, valve covers, etc., shall be located out of driveways, driveway aprons, flowlines, and cross gutters unless written approval is granted by the utility company and the City Engineer.
16. All walls, new or existing, are only shown on civil plans for the purpose of reviewing grading relationships; flood control and sight distance at intersections. New walls require Building Permit & Building Inspection.
17. Asphalt mix design must be submitted and approved by the City Engineer prior to the placement of Asphalt within city Right of Way.
18. Contractor shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
19. Materials, handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of NDOT or the Clark County Area Specifications (as applicable) and the plans and details shown here on.

CLV STREETLIGHT NOTES

1. All street lighting installations shall be in accordance with the street lighting plans, the "Uniform Standard Specifications for Public Works Construction Off-Site Improvements, Clark County Area, Nevada", Latest Revision, and the "Uniform Standard Drawings for Public Works Construction Off-Site Improvements, Clark County Area, Nevada", Latest Revision.
2. No deviation of street light, pull box, conduits (etc.) locations shall be permitted without written approval of the Traffic/Electrical Field Operations Division and the City Engineer. Any deviation from the plan location will require compliance with section 623.10.03 (e) of the specifications.
3. All existing street lighting shall remain operational during construction.
4. All empty conduit shall have pull strings installed prior to final inspection.
5. Any structure such as block walls, chain link fences, retaining walls, etc., shall leave a minimum clearance of eighteen inches (18") to the face of street lightning pole on all sides when streetlight is installed behind sidewalk, and shall at no time completely enclose the street lightning pole.
6. As-built drawings shall be supplied to the Electrical Services Section prior to any prefinal inspection. The as-built drawing needs to be stamped as-built and signed by the preparer.
7. Service point shall be coordinated with Nevada Power Company, and wherever possible, be located near the center of the circuit. This shall be the Contractors responsibility.
8. It shall be assumed that in the absence of an existing, workable circuit to attach to, all installations shall require a new service for operation of the circuit.
9. Wherever there is an overhead utility that may conflict with the installation of street lighting circuits and/or poles, these conflicts must be resolved between the developer and the utilities involved before streetlight bases are installed at no expense to the City of Las Vegas.
10. The Contractor shall furnish complete service to transformers and control systems if required on plans.

CLV SEWER NOTES

1. 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. It will be the responsibility of the Contractor to be aware of the contents of the above specifications.
2. 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 City Engineer.
3. Chisel "S" or "G" in curbs where sewer or gas laterals pass under the curb.
4. Polyvinyl (PVC) sewer pipe shall meet ASTM D-3034 SDR 35 specifications, installed with sand bedding and backfill of Type II aggregate base.
5. All manholes paved in streets eighty (80') foot R/W and larger shall have concrete collars. Streets less than eighty (80') foot R/W will require retrofit if paving does not conform to City standards at the manhole.
6. Tee saddles shall be used to connect sewer laterals to existing main lines up to twelve inch (12") diameter. Connections to fifteen inch (15") or larger mains shall require special procedures. In line "Y" 's shall be used on lines twelve inches (12") or above.
7. A sewer main crossing over a water main or less than eighteen inch (18") under a water main, must be reinforced concrete encased for a distance not less than ten feet (10') to each side of the centerline of the water main.
8. All Contractors installing sewer mains that will be under the jurisdiction of the City of Las Vegas must be State of Nevada Class "A" Contractors.
9. The City of Las Vegas will not accept any sewer mains which have a vertical deflection of more than one tenth (0.1) of a foot from the approved construction plans at any location. Sewer mains found to exceed this tolerance will have to be repaired or removed and replaced to the satisfaction of the City Engineer prior to acceptance by the City of Las Vegas.
10. Installation of curved sewer requires special construction procedures and inspections. Contact City of Las Vegas Construction Services 24 hours prior to installation.

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. No work shall begin until the water plans have been released for construction by the LVVWD. following water plan approval, forty-eight (48) hour notice shall be given to the LVVWC communication 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.
2. All work shall conform to LVVWD standard plates, drawing, and specifications and uniform design and construction standards for water distribution system (UDACS), latest edition.
3. 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 off-site improvements, CLARK COUNTY AREA.
4. A single pipe material shall be used throughout the project, unless otherwise approved by the LVVWD.
5. All service laterals two inches (2") in diameter and smaller shall be copper tubing with LVVWD approved service saddles.
6. All water meter boxes shall be located outside of driveway areas.
7. All valves shall be located outside of driveways, gutters, curbs and alley gutters.
8. The following requirements must be met in the event a water line and a sanitary sewer or storm sewer line cross:
- A minimum eighteen inch (18") 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:
- A. potable water supply quality material
B. encasement, with four inch (4") concrete (minimum)
C. sleeving with potable water supply quality pipe
- Each provision must extend along the sanitary or storm sewer, on either side of the water main, a minimum ten foot (10') distance perpendicular to the exterior of main.
9. Warning tape shall be required over all mains, all six inch (6") diameter and larger service laterals, and any service lateral not installed perpendicular to the main in accordance with standard plate no. 27.
10. All water facilities shall be filled, disinfected, pressure tested, flushed, filled and acceptable water sample obtained prior to connection to the LVVWD'S distribution system.
11. The contractor must obtain all meters two inches (2") and smaller from LVVWD central stores. Telephone 258-3152 forty-eight (48) hours prior to pick-up.
12. Construction may interrupt service, with LVVWD approval and proper notification, between the hours of 10:00 p.m. and 6:00 a.m. Sunday through Thursday, circumstances that may require temporary service feed must have prior LVVWD approval.
13. All water facility construction materials used must be listed on the LVVWD'S pre-approved materials and manufacturers listing for new facilities, latest revision or specifically approved on these plans.

LAS VEGAS VALLEY WATER DISTRICT

DATE

CLV FIRE NOTES

1. All work shall be done in strict accordance with the City of Las Vegas Fire Department's Ordinance # 5115, "Hydrant Specifications"; and "Hydrant Installation Specification".
2. Authorized hydrants for this project are:
- A. Kennedy - Guardian models K81A and K81D
B. Mueller - Super Centurion 250 model A-423
C. Clow - Medallion model F-2548LV
3. On any residential or commercial installations fire hydrants shall be installed and fire apparatus access roads shall be maintained **before** commencement of any combustible construction. All fire hydrants shall be in good working order and shall be capable of delivering the required fire flow.
4. To identify the fire hydrant locations, contractor shall place a blue reflective marker at the center line of street adjacent to the fire hydrants as required by Ordinance #5115.
5. All underground inspections, pressure and flush verifications of all fire hydrants and fire lines, shall be conducted **before** covering the lines. Call the City of Las Vegas Inspection Hot-line at 229-2071 to request an inspection by the City of Las Vegas Fire Department.
6. Painting of the curbs and fire hydrants and all other work necessary as required by Ordinance # 5115, for the protection of fire hydrants from physical damage, shall be completed **before** approval by the City of Las Vegas Fire Department.
7. A permit is required from the City of Las Vegas Fire Department for the on-site water lines and fire hydrants. The permit and contractor's material and test certificate for underground piping form shall be obtained from the Fire Protection Engineer **before** commencement of work.
8. Private fire hydrants shall be painted red.
9. Prior to the final occupancy, a flow test must be witnessed by the City of Las Vegas Fire Department to verify availability of the required fire flow.
10. All on-site underground water mains and materials shall be U.L. listed, A.W.W.A. approved, and shall be rated for the appropriate working pressure.
11. Fire hydrants spacing shall be:
- Residential - 500 feet unsprinklered; 1,000 feet sprinklered.
Commercial - 300 feet unsprinklered; 600 feet sprinklered.
12. Where new water mains are extended along streets where fire hydrants are not needed for protection of the structures, fire hydrants shall be installed at maximum 1,000 foot spacing, to provide for transportation hazards.
13. No fire hydrants shall be located within the required radius of a cul-de-sac or within 20 feet of the perimeter of the radius of the cul-de-sac.
14. No fire hydrants shall be located within 6 feet of any curb return, driveway, power pole, street light or any other obstruction.
15. The maximum distance from a fire hydrant to the end of a dead-end street shall not exceed 200 feet.
16. The maximum distance from a fire hydrant to a Fire Department Connection (FDC) shall not exceed 100 feet

