

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST EDITION. THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST EDITION, REVISED EDITION, THE "SUMMER IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMER AREA, AND OTHER APPLICABLE APPROVED STANDARDS SHALL BE CONTROLLING AGENTS ON THE UNIFORM STANDARD SPECIFICATIONS, ALL 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 SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CITY ENGINEER SHALL SHOW ON CITY PLANS LINES AND LOCATIONS OF ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY BE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OVERHEAD INTERFERENCE, WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID COLLISIONS AND DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFETY 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 EQUIPMENT FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, AND EQUIPMENT OR IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER.
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 GROUND SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE OF THE PRODUCT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTENDED-TYPE CURBS.
8. AS PAVEMENT TO BE ONE-1/2" HIGH (1/2") ABOVE TOP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT DRIVEWAYS AND GUTTERS SHOULD BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
9. 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.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
11. 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.
12. EXACT LOCATION OF ALL SAWTOOTH LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVING CONDITION REQUIRES RELOCATIONS.
13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DESTROYED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH THE SURVEYING AND MAPPING ACT, CHAPTER 202, NRS.
14. UTILITY COMPANY WIRE BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS CUTS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
15. WALL NOTES:
 - a. ALL 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 A SEPARATE WALL DRAWING FOR THE CITY ENGINEER'S REVIEW.
16. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
17. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING LINES, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
18. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST EDITION, REVISED EDITION, THE "SUMMER IMPROVEMENT STANDARDS" (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

1. ALL CONSTRUCTION SIGNING, BARRICAADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW OR EXISTING INTERSECTIONS. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC SIGNALS AND ALL OTHER TRAFFIC WORK IS ACCOMPLISHED AND SHALL MAINTAIN SAE SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCOMPASSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFY A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGHOUT THAT CONSTRUCTION ZONE, THE CONTRACTOR SHALL PROVIDE A GUARD RAIL AND A GUARD. AFTER THE CONSTRUCTION WORK IS COMPLETED, THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE CLOSURE OF TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL OR REDUCTION OF LANE EXISTENTIAL TO THE ADEQUATE OPERATION OF THE TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER PERMANENT SIGNS SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS. ALL SIGNS ON THE PLANS, ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWING AND THE SIGNPOST IS LOCATED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE REMOVED OR A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE REMOVED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED. PERMANENT TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO THE STATUS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO ENSURE THE SAFETY OF THE PUBLIC AND THE SECONDARY AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATISIA TRAFFIC CONTROL TECHNICIAN OR MESA CITY LAS VEGAS SAFETY SPECIALIST SET-UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN HIS CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREET AREAS BEING SHALL BE BY EITHER TO COMPLETION OR TO AS TO PROVIDE MINIMUM TRAFFIC CONTROL DEVICES TO MAINTAIN THE SAFETY OF THE PUBLIC AND THE SECONDARY AREA.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERFERES OR INTERRUPTS A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS DIVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PROPER TRAINING. TRAFFIC CONTROL FEES FOR THE USE OF THESE SPECIAL EVENTS OFFICERS SHALL BE SET UP BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERFERES OR INTERRUPTS A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
14. ANY WORK WITHIN "FOOT" OF A SIGNALIZED INTERSECTION SHALL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENTS ORDINANCE # 5687, "HYDRANT SPECIFICATIONS"; AND "HYDRANT INSTALLATION SPECIFICATION".
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
REARWAY - GUARDIAN MODEL 1014-1000
B. MUELLER - SUPER CENTURION 200 MODEL A-423
C. TAYLOR - MEDALLION MODEL P-2548
D. TROY VALVE - PATRIOT MODEL P1800M NEVADA HYDRANT
E. U.S. PIPE - METROFLOW HA-03
3. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS SHALL BE CONNECTED TO THE HYDRANT BY THE CITY OF LAS VEGAS FIRE DEPARTMENT. 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 #5687.
5. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES SHALL BE CONDUCTED BEFORE COVERING THE HYDRANTS AND FIRE LINES. ALL CITY OF LAS VEGAS INSPECTION NOT-TO-EXCEED REPORTS SHALL BE SUBMITTED TO THE CITY OF LAS VEGAS FIRE DEPARTMENT.
6. PAINTING OF THE CURBS AND FIRE HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE # 5687, 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 AND TEST CERTIFICATE FOR ON-SITE WATER LINES AND FIRE LINES. THE CITY OF LAS VEGAS FIRE DEPARTMENT SHALL BE NOTIFIED PRIOR TO ANY UNDERGROUND PIPING WORK. 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.I.A. APPROVED, AND APPROVED OR RATED FOR THE REQUIRED FIRE FLOW AND WATER PRESSURE.
11. FIRE HYDRANTS SPACING SHALL BE:
RESIDENTIAL - 300 FEET UNSPRINKLED; 400 FEET SPRINKLED.
COMMERCIAL - 300 FEET UNSPRINKLED; 400 FEET SPRINKLED.
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS WHERE FIRE HYDRANTS ARE NOT NEEDED FOR THE PROJECT, THE CONTRACTOR SHALL PROVIDE WATER MAINS TO BE INSTALLED AT MAXIMUM 100 FEET SPACING TO PROVIDE FOR TRANSPORTATION WAREHOUSES. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR OR MORE LANEWAYS, THE CONTRACTOR SHALL PROVIDE WATER MAINS TO BE INSTALLED AT MAXIMUM 100 FEET SPACING. ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS.
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 OTHER OBSTACLE.
15. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
18. TWO SOURCES OF SUPPLY ARE REQUIRED; HOWEVER, THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER HEADS LOCATED WITHIN 100 FEET OF THE FIRE HYDRANT. PRIOR TO OR AFTER THE GRADE CHANGE, ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
20. THE GRADIENT FOR A FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND APPROACH SHALL BE DESIGNED TO PROVIDE A MINIMUM 10 FEET CLEARANCE FROM THE STREET AS INSTALLED. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
21. THE TURNING RADIUS OF A FIRE APPARATUS ACCESS ROAD SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADII.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
23. FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT FOR THE APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FEET FLOW LINE TO THE FLOW LINE (THIS REQUIREMENT REDUCES TO 32 FEET FLOW LINE TO THE FLOW LINE IF PARALLEL PARKING IS ALLOWED IN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET, PRIVATE DRIVE ALLEYS, AND SIDE DRIVEWAYS). THE TURNING RADIUS OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET INSIDE TURNING RADII WHEN NO MORE THAN 6 RESIDENCES, AND WHEN ON STREET PARKING IS ALLOWED.
24. ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FEET FLOW LINE TO THE FLOW LINE, PROVIDED NO MORE THAN 6 RESIDENCES ARE LOCATED WITHIN 100 FEET OF THE TURNING RADIUS. IF PARALLEL PARKING IS ALLOWED ON ONE SIDE OF THE ROAD AND 40 FEET FLOW LINE TO THE FLOW LINE, IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES OF THE ROAD, THE TURNING RADIUS SHALL BE NO LESS THAN 52 FEET INSIDE TURNING RADII.
25. A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET OF A SINGLE EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING.
26. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 100 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 150 FEET IF THE BUILDING IS SPRINKLED.
27. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FEET, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS.
28. ALL DEAD-END FIRE APPARATUS ACCESS ROADS OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF 100 FEET LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET.
29. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY APPROVED SIGNS AT THE START OF THE DEAD-END AND DESIGNATED TURN AROUND SIGNS SHALL BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO GREATER THAN 10 FEET OR LESS THAN 3 FEET FROM THE BEGINNING OF THE DEAD-END OR TURN AROUND AREA. IF A CURB OR FURNISHING IS NOT PROVIDED, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
30. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE ACCESS. THE GATES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

[illegible]

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION SPECIFICATIONS FOR WATER MAINS AND SEWER MAINS, AND THE DESIGN AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT IS 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, OMISSIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYETHYLENE (PE) SDR 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 EXCEEDING (60') FOOT R/W REQUIRE RETRAIT SHALL HAVE CONCRETE COLLARS. SEWER MANHOLES EXCEEDING (60') FOOT R/W SHALL HAVE RETRAIT 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 EXISTING MAINS (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE CONNECTIONS TO EXISTING MAINS SHALL BE WELDED.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A 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 (1) INCH PER FOOT OF SPAN. ANY EXCESSIVE CONSTRUCTION PLANS AT ANY LOCATION, SEWER MAINS TO BE EXPOSED 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 THE USE OF C-900 PIPES WHICH ALLOWS FOR PIPE DEFLECTION OF TWO INCHES.

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTINGS PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST REVISION, AND THE "UNIFORM STANDARD SPECIFICATIONS 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 623.0103 (C) 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 LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS TO BE PLACED WITHIN THE STRUCTURE. THE STRUCTURE SHALL BE REMOVED OR MODIFIED TO ALLOW PROPER CLEARANCE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICE SECTION PRIOR TO ANY FINAL 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. SERVICE POINTS SHALL BE SHOWN ON THESE PLANS.
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 POLES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY CLEARANCE 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.

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF EXISTING MATERIAL.
4. THE CONTRACTOR SHALL MAINTAIN AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL ACQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPARISON, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPARISON
A. PAVEMENT AREA SUBGRADE	0.1"	+0.01"	SEE SOILS REPORT
B. ENGINEERED FILL	0.5"	+0.01" TO -0.1"	SEE SOILS REPORT

CONSTRUCTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION (GROUT) OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, DRIVEWAYS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN

NONE

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVWMD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVWMD COMMUNICATIONS SUPPORT CENTER (202) 276-3152. TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVWMD INSPECTION. WHEN REQUESTED, THE LVWMD WILL BE REQUIRED TO PROVIDE ACCESS TO THE PROPERTY OF THE CONTRACTOR.

2. ALL WORK SHALL CONFORM TO LVWMD STANDARD PLANS, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2003 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS).

3. ALL WORK, EXCEPT AS MODIFIED BY THE SPECIFICATIONS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION GRANT GUIDELINES, THE LVWMD STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND THE LVWMD STANDARD SPECIFICATIONS FOR PRIVATE CONSTRUCTION.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVWMD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVWMD APPROVED SERVICE JOINTS.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF THE DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.

8. ALL WATER AND STORM DRAIN OR SANITARY SERVICE CROSSINGS SHALL CONFORM TO SECTION 2.18 OF THE 2003 EDITION OF THE LVWMD UDACS.

9. ALL WATER FACILITIES SHALL BE FILLED, DESIGNED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVWMD DISTRIBUTION SYSTEM.

10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVWMD CENTRAL STORES. TELEPHONE 256-3152 OR 245-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.

11. ANY INTERRUPTION OF SERVICES MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.3.3.01, AND ANY INTERRUPTION DURATION PRIOR TO SHUTDOWNS, PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.

12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST AS BE LISTED ON THE LVWMD PRE-APPROVED MATERIALS LIST. MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

13. TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2800.

	STANDARD	ALTERNATE
RIGHT OF WAY		
CENTERLINE		
SIDEWALK, CURB & GUTTER		
EASEMENT		
BOUNDARY LINE		
LOT LINE		
EDGE OF PAVEMENT		
GRADE BREAK		
SAWTOOTH LINE		
SCARP		
SIDEWALK RAMP		
INDEX CONTOUR		
INTERMEDIATE CONTOUR		
SEWER MAIN		
SEWER MANHOLE		
SEWER LATERAL		
WATER MAIN		
WATER LATERAL AND METER		
WATER METER		
RPPA		
WATER VALVE		
WATER TEE OR BEND		
WATER REDUCER		
FIRE HYDRANT		
STORM DRAIN		
STORM DRAIN MANHOLE		
STREETLIGHT - 100 WATT		
STREETLIGHT - 150 WATT		
STREETLIGHT - 250 WATT		
STREET NAME SIGN		
STOP SIGN		
SERVICE PEDESTAL		
LOT NUMBER		
FINISH FLOOR ELEVATION		
PAD ELEVATION		
RATE OF GRADE		
ELEVATION		
WALL HEIGHT ELEVATION		
BLOCK WALL		
RETAINING WALL		
SIGHT VISIBILITY RESTRICTION		
CONCRETE SIDEWALK		

NOTE: THIS QUANTITY ESTIMATE IS FOR BONDING PURPOSED ONLY. CONTRACTOR TO DETERMINE INDEPENDANT ESTIMATIONS

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

**CALL BEFORE YOU
DO UNDERGROUND**

CALL BEFORE YOU DO UNDERGROUND

**Call
before you
Overhead**
1-702-593-6111
**NEVADA POWER ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT**

**Call
before you
Dig**
811 or
1-800-227-2600

1-702-229-6611
F.A.S.T.

NORTH 88°54'28" EAST, BEING THE
CENTERLINE OF CHEYENNE AVENUE AS SHOWN
ON FILE 91 PAGE 9 OF PARCEL MAPS,
OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

CITY OF LAS VEGAS BENCHMARK
NUMBER 1LV0012SWIS, BEING A
RIVET AND PLATE IN TOP OF CURB @
NE CORNER OF CHEYENNE AND JONES.

601.6323 METERS NAVD88 DATUM (PUBLISHED)
2289.13 FEET NAVD 88 DATUM (CONVERTED)

Sen. F. Gordon
LAS VEGAS VALLEY WATER DISTRICT
PROJECT # 114889

SHEET
NT
2 OF 10 SHEETS
DRAWING NO.

07V5000