

## 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 EDITION, 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, STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. 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 INTERFERENCES WHICH MAY AFFECT HIS PREPARATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY AND PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS 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 OR 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 I CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM & 28 DAY CURE. MIX TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO 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 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT HANDICAP RAMPS.
9. CURB & GUTTER FOUND TO BE 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 AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR. LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTION NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.E.S. STATUTE NO. 625.550.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOW LINES, 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 EXISTING INLETS, VALVE BOXES, MANHOLE RISERS, 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 OF THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

## CITY OF LAS VEGAS GRADING NOTES

## CITY OF LAS VEGAS GRADING NOTES

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 THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS 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 THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED 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 COMPACTION, IN THE AREAS INDICATED:

|                    | HORIZONTAL | VERTICAL      | COMPACTION                       |
|--------------------|------------|---------------|----------------------------------|
| A. PAVEMENT AREA   | 0.1"       | -0.0 to -0.1" | As indicated on plan             |
| B. ENGINEERED FILL | 0.5"       | -0.1 to -0.1" | Minimum of 90% as shown on plans |
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 OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

DEVIATION FROM STANDARDS  
NONELAS VEGAS VALLEY WATER DISTRICT  
STANDARD NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD 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, DRAWINGS, AND SPECIFICATIONS, 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 OFFSITE IMPROVEMENT, 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 (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD.
  6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
  7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
  8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:

|  | A. POTABLE WATER SUPPLY QUALITY MATERIAL,          |
|--|----------------------------------------------------|
|  | B. ENCASEMENT, WITH FOUR (4) INCH 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 MAIN, A MINIMUM 10 FOOT DISTANCE.
- MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
  10. 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.
  11. 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.
  12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THRU THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEES BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEES MUST HAVE LVVWD PRIOR APPROVAL.
  13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND LISTING FOR NEW FACILITIES, LATEST EDITION OR SPECIFICALLY APPROVED ON THESE PLANS.

## CONDITIONAL APPROVAL OF VALVED OUTLET

(6" and larger)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE

## CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK", LATEST EDITION, AND 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 PRIOR TO CONSTRUCTION.
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 STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAE SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSIGNED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIAL TO THE SATISFACTION OF THE CITY STANDARDS.
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 SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED 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 SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
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 HEREUNDER, REGARDLESS 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.
10. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES 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 CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE NO. IS 229-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET UP BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

## CITY OF LAS VEGAS FIRE NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF INSTALLATION SPECIFICATIONS", AND ORDINANCE NO. 3994.
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 INSTALLATION, 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 BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE \*3944 TO IDENTIFY FIRE HYDRANT LOCATIONS.
5. CONTRACTOR SHALL CALL THE LAS VEGAS BUILDING DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE BACK FILLING.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE \*3944 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
8. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
9. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
10. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A.W.W.A. APPROVED.
11. FIRE HYDRANT SPACING:

|  | RESIDENTIAL - 500 FEET UNSPRINKLERED, 1000 FEET SPRINKLERED                    |
|--|--------------------------------------------------------------------------------|
|  | COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 600' SPRINKLERED. |
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, WHERE HYDRANTS SHALL BE SPACED AT MAXIMUM ONE-THOUSAND (1,000) FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
13. NO FIRE HYDRANT 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 HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
15. TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE FOUR (4) OR MORE FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
16. NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
17. FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY FEET (20') PROVIDED NO PARKING IS ALLOWED, NOT LESS THAN TWENTY-EIGHT FEET (28') IF PARALLEL PARKING IS ALLOWED ON ONE SIDE, AND NOT LESS THAN THIRTY-SIX (36') IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL NOT BE LESS THAN THIRTEEN- FEET-SIX-INCHES (13'6").
18. THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, FIRE OR PRIVATE, SHALL BE NOT LESS THAN FORTY-FIVE FEET (45') OUTSIDE RADIUS AND TWENTY-TWO FEET (22') INSIDE RADIUS.
19. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN ONE-HUNDRED FIFTY FEET (150') FROM A FIRE DEPARTMENT VEHICLE ACCESS (SEE EXCEPTIONS UFC 94, SECTION 902.2).
20. ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF ONE-HUNDRED FIFTY FEET (150') IN LENGTH SHALL BE PROVIDED WITH AN APPROVAL TURN AROUND AREA. SEE ORDINANCE NO. 3944.
21. ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF ONE-HUNDRED FEET (100') ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN TEN FEET (10') OR LESS THAN SIX FEET (6') FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
22. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC VEHICLE ACCESS GATES.

## BASIS OF BEARING

BEING THE NORTH LINE OF THE LOT 63, AS IT IS SHOWN ON THE RECORD OF SURVEY FILE 52, OF SURVEY PAGE 70, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA, WHICH BEARS: SOUTH 85°04'37" WEST.

## BENCHMARK

BEING THE CITY OF NORTH LAS VEGAS BM \*511818, 50' WEST OF BLM BRASS CAP @ DECATUR BLVD. & FARM ROAD. ELEVATION - 707.9639 METERS - 2,322.71 FEET. (N.A.V.D. 1988) (ELEVATION BASED ON CITY OF LAS VEGAS VERTICAL DATUM)

APPROVED FOR CONSTRUCTION

*Shirley L. Roberts* 11/4/98  
LAS VEGAS VALLEY WATER DISTRICT DATE

## ABBREVIATIONS

|                  |                                                               |           |                                                                           |
|------------------|---------------------------------------------------------------|-----------|---------------------------------------------------------------------------|
| A                | AT                                                            | FT        | FEET OR FOOT                                                              |
| ABAN             | -ANODE, GAS                                                   | F TO F    | -FACE TO FACE                                                             |
| ABBR             | -ABANDON                                                      | GAL       | -GALLON                                                                   |
| ABD              | -ABANDONED                                                    | GB        | -GRADE BREAK                                                              |
| ABUT.            | -ABUTMENT                                                     | GB        | -GALVANIZED                                                               |
| AC               | -ACRE                                                         | GM        | -GAS METER                                                                |
| ACP              | -ASPHALTIC CONCRETE                                           | GR        | -GAS PRESSURE REGULATOR                                                   |
| ADD.             | -ADDITION                                                     | GUT       | -GUTTER                                                                   |
| ADDJ             | -LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT | HWL       | -HEADWALL                                                                 |
| AGG              | -AGGREGATE                                                    | IN        | -INSIDE DIAMETER                                                          |
| ATP              | -ABANDONED IN PLACE                                           | INT       | -INTERSECTION                                                             |
| ALT              | -ALTERNATE                                                    | INT       | -INVERT                                                                   |
| APPD             | -APPROVED                                                     | ISL       | -ISLAND                                                                   |
| APPROX           | -APPROXIMATE                                                  | JCT       | -JUNCTION BOX                                                             |
| ASB              | -ASBESTOS                                                     | JNT       | -JOINT                                                                    |
| ASPH             | -ASPHALT                                                      | LAT       | -LATITUDE                                                                 |
| ASSN             | -ASSOCIATION                                                  | LIN       | -LINEAR                                                                   |
| ASST             | -ASSISTANT                                                    | LIN FT    | -LINEAR FOOT                                                              |
| AUX              | -AUXILIARY                                                    | LOC       | -LENGTH OF CURB                                                           |
| AVE              | -BACK TO BACK                                                 | LVVWD     | -LAS VEGAS VALLEY WATER DISTRICT                                          |
| B TO B           | -BACK TO CURB                                                 | MAX       | -MAXIMUM                                                                  |
| BCPA             | -BITUMINOUS COATED                                            | MIN       | -MINIMUM                                                                  |
| BCPCMP           | -PIPE ARCH CULVERT                                            | MON       | -MONOLITHIC                                                               |
| BCPPA            | -BITUMINOUS COATED & PAVED CORRUGATED                         | N         | -NORTH                                                                    |
|                  | -BITUMINOUS COATED & PAVED PIPE ARCH                          | NE        | -NORTHEAST                                                                |
| BCR              | -BACK OF CURB RADIUS                                          | N/O       | -NOT TO SCALE                                                             |
| BDRY LINE        | -BOUNDARY LINE                                                | NTS       | -NOT TO SCALE                                                             |
| BLOG             | -BUILDING                                                     | OC        | -ON CENTER                                                                |
| BLVD             | -BOULEVARD                                                    | OD        | -OUTSIDE DIAMETER                                                         |
| BM               | -BENCHMARK                                                    | OPEN      | -OPEN-GRADED PAVEMENT.                                                    |
| BOT              | -BOTTOM                                                       | ORIG      | -ORIGINAL GROUND                                                          |
| BS               | -BEST PRACTICE                                                | O TO O    | -OUTSIDE TO OUTSIDE                                                       |
| BVC              | -BEGINNING OF VERTICAL CURVE                                  | P         | -POWER                                                                    |
| C TO C           | -CENTER TO CENTER                                             | PB        | -PULL BOX                                                                 |
| C&G              | -CURB AND GUTTER                                              | PCC       | -PORTLAND CEMENT CONCRETE                                                 |
| C&G              | -CURB AND GUTTER                                              | PCC, CONC | -PORTLAND CEMENT CONCRETE                                                 |
| CBC              | -CITY OF BOULDER CITY                                         | PI        | -POINT OF INTERSECTION                                                    |
| CB               | -CLARK COUNTY                                                 | PL        | -PROPERTY LINE                                                            |
| CF               | -CROSS FACE                                                   | PL-G      | -PLASTIC GAS                                                              |
| CI               | -CAST IRON                                                    | PL        | -POWER POLE                                                               |
| CIP              | -CENTER LINE                                                  | PRC       | -POINT OF REVERSE CURVE                                                   |
| CLV              | -CITY OF LAS VEGAS                                            | PRO       | -PROPOSED                                                                 |
| CM               | -CORRUGATED METAL                                             | PT        | -POINT                                                                    |
| CMPA             | -CORRUGATED METAL PIPE                                        | PT        | -POINT OF TANGENCY                                                        |
| CNV              | -CITY OF NORTH LAS VEGAS                                      | PVC       | -POLYVINYL CHLORIDE                                                       |
| COH              | -CROSS HATCH                                                  | PVMT      | -PAVEMENT                                                                 |
| COL              | -COLUMN                                                       | R         | -RADIUS                                                                   |
| CP               | -CONCRETE PIPE                                                | RC        | -REINFORCED CONCRETE                                                      |
| COORD            | -COORDINATE                                                   | RCP       | -REINFORCED CONCRETE PIPE                                                 |
| CORR. I          | -CORRUGATED IRON                                              | RD        | -ROAD                                                                     |
| XSECT            | -CROSS SECTION                                                | RELOC     | -RELOCATED                                                                |
| CROSS            | -CROSS                                                        | RP        | -RADIUS POINT                                                             |
| CU               | -CUBIC                                                        | RR        | -RAILROAD                                                                 |
| CUL-DE-SAC       | -CUL-DE-SAC                                                   | R/W       | -RIGHT-OF-WAY                                                             |
| CUL-DE-SAC       | -CUL-DE-SAC                                                   | RT        | -RIGHT-OF-WAY                                                             |
| DEVL             | -DEVELOPMENT                                                  | S         | -SOUTH                                                                    |
| DEPT             | -DEPARTMENT                                                   | SD        | -STEEL DRAIN                                                              |
| DIP              | -DIP                                                          | SE        | -SOUTHEAST                                                                |
| DRIVEWAY         | -DRIVEWAY                                                     | SHIP      | -STEEL HIGH PRESSURE PIPE                                                 |
| EA               | -EACH                                                         | SHT       | -SHEET                                                                    |
| EAST             | -EAST                                                         | SHL       | -SHOULDER                                                                 |
| E                | -ELECTRIC                                                     | SO        | -SOUTH                                                                    |
| EBS              | -EDGE OF PROTECTION                                           | SO        | -SOUTH                                                                    |
| END STATION      | -END OF CURVE                                                 | SO FT, FT | -SQUARE FOOT                                                              |
| EC               | -END OF CURB RETURN                                           | SO IN     | -SQUARE INCH                                                              |
| EL               | -ELEVATION                                                    | SO MILE   | -SQUARE MILE                                                              |
| ELV              | -ELEVATION                                                    | SO YD, SY | -SQUARE YARD                                                              |
| EM               | -EMBANKMENT                                                   | SS        | -SANITARY SEWER                                                           |
| EMB              | -EMBANKMENT                                                   | ST        | -STANDARD                                                                 |
| END              | -END                                                          | STRUCT    | -STRUCTURE                                                                |
| ED               | -EDGE OF OIL                                                  | SURV      | -SURVEY                                                                   |
| EDGE OF PAVEMENT | -EDGE OF PAVEMENT                                             | SW        | -SIDEWALK                                                                 |
| EST              | -ESTIMATE                                                     | SW        | -SOUTHWEST                                                                |
| ETS              | -END TO END                                                   | T         | -TEMPORARY                                                                |
| EVC              | -END OF STATION                                               | TBA       | -TO BE ADJUSTED                                                           |
| EXC              | -EXCAVATION                                                   | TC        | -TOP OF CURB                                                              |
| EXP              | -EXPANSION                                                    | TEMP      | -TEMPORARY                                                                |
| EXIST            | -EXISTING                                                     | TOP       | -TOP OF PIPE                                                              |
| EXT              | -EXTENSION                                                    | TMH       | -TOP OF MANHOLE                                                           |
| FA               | -FIRE ALARM                                                   | TS        | -TRAFFIC SIGNAL                                                           |
| FB               | -FINISH GRADE                                                 | TSI       | -TRAFFIC SIGNAL INTERSECTION                                              |
| FH               | -FIRE HYDRANT                                                 | TRANS     | -TRANSITION                                                               |
| FIG.             | -FIGURE                                                       | UDACS     | -UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS |
| FL               | -FLOW LINE                                                    | UG        | -UNDERGROUND                                                              |
| FL               | -FLOW LINE                                                    | VAR       | -VARIABLE                                                                 |
| FPM              | -FEET PER MINUTE                                              | VC        | -VERTICAL CURVE                                                           |
| FPS              | -FEET PER SECOND                                              | VERT      | -VERTICAL CLAY PIPE                                                       |
| HOR              | -HORIZONTAL                                                   | VO        | -VALLEY                                                                   |
| HORIZ.           | -HORIZONTAL                                                   | WM        | -WATER METER                                                              |
|                  |                                                               | W/O       | -WEST OF                                                                  |
|                  |                                                               | YD        | -YARD                                                                     |

## LEGEND

| DESCRIPTION                | PROPOSED           | EXISTING      |
|----------------------------|--------------------|---------------|
| ELEVATION                  | xx.xx<br>TC        | (xx.xx)<br>TC |
| CENTER                     | ---                | ---           |
| RIGHT OF WAY               | ---                | ---           |
| PROPERTY LINE              | ---                | ---           |
| CONSTRUCTION               | ---                | ---           |
| CONTOUR                    | ---                | ---           |
| CHAIN LINK FENCE           | ---                | ---           |
| WALL                       | ---                | ---           |
| SEWER MAIN (12" & SMALLER) | 12" XXX SS         | 12" SS        |
| SEWER MAIN (ABOVE 12")     | 18" XXX SS         | 18" SS        |
| STORM DRAIN                | 66" M-CP           | 60" SD        |
| WATER MAIN                 | 24" DIP WATER MAIN | 18" W         |
| GAS                        | N/A                | 2" GAS        |
| TELEPHONE                  | N/A                | TEL           |
| UNDERGROUND POWER          | N/A                | ELEG          |
| OVERHEAD POWER             | N/A                | ---           |
| CABLE TELEVISION           | N/A                | CATV          |
| FUTURE ELEVATION           | [XXX.X]            | N/A           |
| TRAFFIC CONTROL SIGN       | ---                | ---           |
| 100 W LUMINAIRE            | ---                | ---           |
| PULL BOX                   | PB                 | PB            |
| VALVE                      | ---                | ---           |
| FIRE HYDRANT               | ---                | ---           |
| MONUMENT                   | ---                | ---           |
| CURB AND GUTTER            | ---                | ---           |
| SIDEWALK RAMP              | ---                | ---           |

THE GATES, L.L.C.  
238 SOUTH RAINBOW BLVD.  
LAS VEGAS, NEVADA 89129GENERAL NOTES  
SHEETTITLE OFFSITE WATER PLANS  
FOR LYNNBROOKDRAWN BY: AI  
DESIGNED BY: BB  
CHECKED BY: JV  
PROJECT NO: 98902003SCALE: NO SCALE  
1" = 1' VERT.SHEET  
C3 19  
3 OF 21 SHEETS  
DRAWING NO.SEAL  
CLARK COUNTY ENGINEER-STATE OF NEVADA  
DARRIN L. GATES  
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