

1. ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND USED FOR PERMIT AND BOND PURPOSES ONLY. THE CONTRACTOR SHALL NOT BE USED IN ANY WAY FOR BIDDING OR CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT QUANTITY TAKE-OFFS FOR BIDDING AND CONSTRUCTION PURPOSES.
2. TECHNICAL SPECIFICATIONS SHALL BE THE 2012 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, LATEST EDITION, PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION, "NDS-2012", LAST UPDATED DECEMBER 30, 2013, & UPDATED March 9, 2015, PROJECT NO.1691-GEO. THE CONTRACTOR SHALL ATTENTIVELY EXAMINE THE SITE IN SUCH A MANNER THAT HE CAN SATISFY EXISTING SURFACE CONDITIONS WITH THOSE PRESENTED IN THE GEOTECHNICAL REPORT. HE SHALL CONFIRM HIMSELF THAT THE QUALITY AND QUANTITY OF EXPOSED MATERIALS AND SUBSTRATA OF ROADWAY DEPOSITS ARE BEING SATISFACTORILY REPRESENTED BY THE GEOTECHNICAL ENGINEER'S REPORT AND CIVIL ENGINEER'S DRAWINGS.
3. ANY DISCREPANCY THAT MAY BE OF PRIOR KNOWLEDGE TO THE CONTRACTOR SHALL BE REVEALED. IT SHALL BE HIS INVESTIGATIONS SHALL BE MADE AVAILABLE TO THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE INVESTIGATIONS AND REPORTS FOR CONSTRUCTION. RESULTS OF THE GEOTECHNICAL INVESTIGATION ALONG WITH THEIR RECOMMENDATIONS SHALL BECOME PART OF THE SPECIFICATIONS BUT DO NOT CONSTITUTE A GUARANTEE OF THE SUBSURFACE CONDITIONS IN ANY WAY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL CLAIMS AND ALL LIABILITIES OF ANY KIND, INCLUDING ATTORNEY'S FEES, ARISING OUT OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES AND CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GOING DUST CONTROL PROGRAM, INCLUDING MAINTENANCE OF OPEN AREAS, IN ORDER TO CONFORM WITH THE LATEST STATE AND COUNTY AIR POLLUTION REGULATIONS. THE CONTRACTOR SHALL HAVE A DUST CONTROL PLAN APPROVED BY THE CLARK COUNTY DISTRICT HEALTH DEPARTMENT AIR POLLUTION CONTROL DIVISION PRIOR TO COMMENCEMENT OF ANY WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL CONSTRUCTION MATERIALS SPILLED ON PAVED STREETS, ONSITE AND OFFSITE.
8. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS, TO INSURE A TIMELY COMPLETION OF THE PROJECT.
9. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES INVOLVED IN WRITING AND PRIVATELY AS MUCH PRIOR TO BEGINNING CONSTRUCTION, AND 48 HOURS PRIOR NOTICE FOR ALL SURVEYING AND INSPECTIONS DURING CONSTRUCTION.
10. AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF AN APPROVED DUST SUPPLEMENT TO THE COST OF THE CONTRACTOR AND PER THE APPROVED STORM WATER POLLUTION PREVENTION PLAN.
11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
12. ALL EXISTING UTILITY LOCATIONS, SIZES, AND DESCRIPTIONS AS SHOWN ON THESE DRAWINGS ARE FROM SURFACE OBSERVATIONS USED IN CONJUNCTION WITH AVAILABLE RECORDS, REFERENCE MAPS, DRAWINGS, AND VERTICAL STATEMENTS SUPPLIED BY THE CONTRACTOR, AND MAY NOT BE WHOLLY ACCURATE OR RELIABLE. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY ERRORS WHICH MAY BE AFFECTED BY THE WORK TO OBTAIN ASSISTANCE IN THE LOCATION OF EXISTING MAINS AND SERVICE CONNECTIONS. THE CONTRACTOR SHALL ALSO CALL U.S.A. (1-800-227-2600) PRIOR TO BEGINNING WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNAGE, BARRICADES AND TRAFFIC ENGINEERING TO BE IN ACCORDANCE TO THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, "NEVADA WORK ZONE TRAFFIC CONTROL MANUAL".
14. THE WORK IN THIS CONTRACT INCLUDES ALL ONSITE AND OFFSITE WORK SHOWN ON THESE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. IMPROVEMENTS ON AND AROUND THE SITE, INCLUDING, BUT NOT LIMITED TO, PAYMENT, CURB & GUTTER, SIDEWALK, LANDSCAPING, SIGNAGE, STORM & SANITARY SEWERS, AND ALL UTILITIES. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE REPAIR OF ANY IMPROVEMENTS (EXISTING OR PROPOSED) DAMAGED THROUGHOUT THE COURSE OF CONSTRUCTION.
16. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES EMERGENCY ACCESS TO THE PROJECT SITE TO THE SATISFACTION OF THE LOCAL FIRE DEPARTMENT.
17. THE CONTRACTOR SHALL, UPON COMPLETION OF THE PROJECT, PREPARE AND SUBMIT TO THE OWNER RECORD DRAWINGS INDICATING BY DIMENSION AND DESCRIPTION ANY FACILITY CONSTRUCTED CONTRARY TO THAT SHOWN ON THESE PLANS.
18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIALS TO BE USED ON THE SITE TO INCLUDE, BUT NOT BE LIMITED TO, A.C. AND P.C.C. MIX DESIGN, AGGREGATE BASE QUALIFICATIONS, PRECAST CONCRETE, REINFORCING BARS, CURB AND GUTTER, SIDEWALKS, AND CURB AND GUTTER. THE CONTRACTOR SHALL OBTAIN TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE MANUFACTURING OR USE OF SUCH ITEMS.
19. INSPECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS OR THE STANDARD SPECIFICATIONS, WHICH EVER IS THE MORE STRINGENT.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITY MANHOLE RISERS AND CLEANING UTILITY, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

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; AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ON-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST EDITION; AND THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE, AND LOCAL ORDINANCES 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 ARE TO BE DETERMINED PRIOR TO CONSTRUCTION OF ANY NEW UTILITIES OR RECORDS. EXISTING UTILITIES AS SHOWN ON CIVIL PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES ONLY. EXISTING UTILITIES AS LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS ARE NOT TO BE SHOWED ON CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO SAME. DURING CONSTRUCTION, 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 EQUIPMENTS WHICH ARE TO REMAIN IN SITUATION 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 PUBLIC WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM 28 DAYS COMPRESSIVE STRENGTH. THE CONTRACTOR IS TO REPORT 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 ONE-HALF INCH (½") ABOVE PL OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND 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. THE CONTRACTOR SHALL PROVIDE PROPERLY DESIGNED TRANSITIONS TO ALLOW FREE PASSAGE AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY NOVA GEOTECHNICAL PROJECT. E-12--044, DATED MAY, 25 2012 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 INSPECTOR. CONSTRUCTION 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 THE 1925-330 & CITY OF AN YEAR BASED 16, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE UDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APPROXS, FLOWLINES, AND GROSS CUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER. WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSES OF REVIEWING GRADING RELATIONS, ELEVATIONS, ETC. THE CONTRACTOR SHALL PROVIDE THE NECESSARY DETAIL FOR SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
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 MANHOLE UDS, VALVE BOXES, MANHOLE RIMS, AND CLEANER OUTLETS, ETC., TO FINISH GRADE AND DISCLOSE WHETHER OR NOT THEY ARE BELOW OR ABOVE FINISH GRADE.
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 HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BARS LOCATED AT THE END OF THE LINE, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN ACCORDANCE WITH THE CITY OF LAS VEGAS CITY ENGINEER'S OFFICE RECORDS.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MAINS, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES; STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN; AND THE LOCATION OF THE SANITARY SEWER MAINS AND TRANSITION STRUCTURES AT THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL 2011 NAD 83 NORTH ZONE 17N DATUM. THE COORDINATES SHALL BE GIVEN IN METERS. MAP(S) SHALL BE CALLED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINIES OF ± 0.09 METERS (± 0.3 FEET). HORIZONTAL AND VERTICAL DATA, A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN LATERALS SHALL ALSO BE PROVIDED TO THE CITY OF LAS VEGAS. THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.
22. SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NWS 455 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A TRANSITION STRUCTURE, AND THE SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.
23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS SHALL BE REQUIRED TO BE OBSERVED BY THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
- 23.A. SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC INTO 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.
2. 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 GROUND MOUNTED TRAFFIC SIGNS AT ALL NEW STREET INTERSECTIONS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST STAKING MOUNTED SIGNS ARE INSTALLED AND SHALL MAINTAIN THEM THROUGHOUT THE CONSTRUCTION PERIOD.
3. ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1986 AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SECOND EDITION.
4. 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 MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
5. THE DEVELOPMENT OF THE PLANS SHALL PROVIDE FOR THE INSTALLATION OF TRAFFIC SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGNPOSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.
6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN, SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE (1) ON THE STREETLIGHT STANDARD.
7. FOR ALL CONSTRUCTION SIGNS, THE CONTRACTOR SHALL PROVIDE FOR THE OBTAINING OF STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A-123.
9. ALL STREET LIGHTING INSTALLATIONS EXCEPT NOTED ON THE STREET LIGHTING PLANS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH.
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, F.A.S.T. INTERCONNECT CABLE, F.A.S.T. INTERCONNECT CABLE, F.A.S.T. INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF THE AREA THEREFORE YOU MUST (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR ANY DAMAGE TO ANY COUNTY FACILITY.
11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE BEING REPAIRED. TEMPORARY CABLE SHALL BE INSTALLED USING CABLE-BLANKET, TO FAC. COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY AND INDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. \$2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
12. IF NEW OR REPAIR CABLE IS INSTALLED USING CABLE-BLANKET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE CABLE-BLANK, AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE L.E.D. TYPE.
14. ELECTRICAL TRAFFIC SIGNAL LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.
15. WHEN STREETLIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.
16. CLARK COUNTY RESERVES THE RIGHT TO STREET LIGHTING AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPPED" APPEARANCE.
17. THE NEW OR REPAIR CABLE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION. WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.
18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATIONS) TO A TRAFFIC SIGNAL SYSTEM. WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

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. COSTE 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.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST BE MADE WITH THE APPROVAL OF THE CITY ENGINEER.

CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

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.

TIE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE (12) DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "T" SHALL BE USED ON LINES TWELVE INCHES (12") AND LARGER.

WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD'S STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

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.

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 BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

1. INSPECTIONS ARE REQUIRED, CALL 24 HOURS IN ADVANCE. 455-4610. YOUR PERMIT, APPROVED PLANS, AND BARICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR. CURB AND GRADE PLANS SHALL BE FIELD CHECKED THAT 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
3. ALL ASPHALT CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
4. ALL OFF-SITE DRAINAGE CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS.
5. PRIVATE STREETS CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
6. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXISTING CURBS OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
7. PROPER SIGNS, BARRIERS, BARICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" TRAFFIC, SCHOOL, AND STREET SIGNS TO BE IN PLACE AT ALL TIMES. NO WORK SHALL BE MOVED WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS INSPECTOR OR 455-4613.
8. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
9. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS BEING DONE IN THE ROAD AREA. WHEN AN ACCEPTABLE STEEL PLATE ARE NOT CONSTRUCTED AS A TRENCH, NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILLS SHALL MEET THE STANDARD SPECIFICATIONS UNLESS OTHERWISE STATED.
10. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH DAY. THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PATCHED AT THE OPENING OF THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE END OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

- A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE 2012 INTERNATIONAL FIRE PREVENTION CODE.
- B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE prior to AND DURING the TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 1412 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.
- C. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FOR THE FIRE DEPARTMENT prior TO PLACING the HYDRANT OUT OF SERVICE.
- D. PAINTING OF AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION DIVISION.
- E. 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 PERMITTED AND UNOBTAINED MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- F. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS. TEMPORARY ACCESS ROADS SHALL BE CONSTRUCTED ON ALL HANDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.
EXCEPTION: TEMPORARY ACCESS ROADS SERVING ONLY BUILDINGS UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 1403.3 OF THE CLARK COUNTY FIRE CODE.
- G. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S CERTIFICATE OF TEST MUST BE PROVIDED TO THE FIRE PREVENTION DIVISION. SCHEDULE INSPECTION AT WWW.CLARKCOUNTYNV.GOV/DEPT5/DEVELOPMENT_SERVICES/FIRE_PREVENTION.
- H. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TRUNKS.
- I. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED (SECTION 1407 OF THE CLARK COUNTY FIRE CODE).
- J. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION IN PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE DEPARTMENT.

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFICE 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 TYPE K 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, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL WORKING TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES, TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-222-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSIGNED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

4. DISHAZI, FR Dgn
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT # 123816 DATE: 3/9/16

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.	PRB RP RPPA REIN RCB RCP R/W S SS SHT SHT SF, FT SD SD, SY STO STO STO STO STO T TEMP TOP TRC TRC TS TS	PULL BOX POINT OF REVERSE VERTICAL CURVE RAISED POINT REDUCED PRESSURE PRINCIPLE ASSEMBLY REINFORCED REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE RIGHT OR RADIIUS RIGHT-OF-WAY SANITARY SEWER SHEET SIDEWALK SQUARE FOOT SQUARE YARD STATION STORM DRAIN STANDARD STREETLIGHT TELEPHONE TEMPORARY TOP OF CURB TOP OF ROLL CURB TRAFFIC SIGNAL TRANSVERSE INTERCONNECT
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND THE AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY TITLE 24.400 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL.		
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.		
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL AREAS WITHIN 24 HOURS AFTER A RAIN OR WET WEATHER OF 0.5 INCHES OR MORE. THE AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.		
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICH OCCURS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.		

AGG	AGGREGATE
ACG	ASBESTOS CEMENT PIPE
AP	ANGLE POINT
AC	ASPHALTIC CONCRETE
BC	BACK OF CURB
BVC	BEGINNING OF VERTICAL CURVE
BN	BENCH MARK
BRY	BOUNDARY
CLV	CABLE TELEVISION
CT	CENTERLINE
CCUSD	CLARK COUNTY UNIFORM STANDARD DRAWINGS
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CMH	CENTER OF MANHOLE
CO	CLEAN OUT, SEWER
COMM	COMMERCIAL
CONC, PCC	CONCRETE
CONST	CONSTRUCTION OR CONSTRUCT
CU YD, CY	CUBIC YARD
CU FT, CF	CUBIC FEET
CF	CURB FACE
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS

DIA	DIAMETER
DR	DRIVEWAY
DI	DROP INLET
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
E	ELECTRIC
ELEV	ELEVATION
ECR	END OF CURB RETURN
EVC	END OF VERTICAL CURVE
EX, EXIST	EXISTING
FT	FEET OR FOOT
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FUT	FUTURE
GALV	GALVANIZED
PL-6	PLASTIC
S-C	STEEL
GB	GRADE BREAK
HP	HIGH POINT
ROP	RIGHT OF PROPERTY POLYETHYLENE
INT	INTERSECTION
INV	INVERT
LVWD	LAS VEGAS VALLEY WATER DISTRICT
	LEFT
LF	LINEAR FEET
LS	LANDSCAPE
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
NVS	NOT TO SCALE
OC	ON CENTER
PMT	PAYMENT
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
PVC	PUBLIC PUBLIC EASEMENT
PUE	PUBLIC UTILITY EASEMENT
PSE	POLYVINYL CLOSER
PP	POWER POLE
P	POWER
PL	PROPERTY LINE
POC	POINT OF CONNECTION
PROP	PROPOSED
PB	PILOT BOX
PRV	POINT OF REVERSE VERTICAL CURVE
RVC	RADIUS POINT
RPPA	REDUCED PRESSURE PRINCIPLE
	ASSEMBLY
REINF	REINFORCED
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
R	RIGHT OR RADIUS
R/W	RIGHT-OF-WAY
S, SS	SANITARY SEWER
SHT	SHEET
SW	SIDEWALK
SO, FT, SF	SQUARE FOOT
SO, YD, SY	SQUARE YARD
STA	STATION
SD	STORM DRAIN
STD	STANDARD
SL	STREETLIGHT
T	TELEPHONE
TEMP	TEMPORARY
TC	TOP OF CURB
TRS	TOP OF ROLL CURB
TSC	TRAFFIC SIGNAL
TSE	TRAFFIC SIGNAL INTERSECT
TRANS	TRANSITION
TP	TYPICAL
UC	UNDERGROUND
UDACS	UNDERGROUND AND CONSTRUCTION
	STANDARDS

PROPOSED	DESCRIPTION
	SPOT ELEVATION
	SWALE LINE
	LOT DIMENSION
	SIGHT VISIBILITY ZONE
	WATERLINE MAIN AND SIZE
	FIRE HYDRANT
	WATER METER AND SERVICE LATERAL
	WATER VALVE
	WATER FITTINGS
	WATER LINE REDUCER
	WATER CAP WITH WATER BLOW OFF ASSEMBLY
	IRRIGATION SLEEVE
	PRESSURE REDUCING VALVE
	REDUCED PRESSURE PRINCIPLE ASSEMBLY
	SEWERLINE MAIN AND SIZE
	SEWERLINE MANHOLE
	SEWERLINE CAP
	SEWER LATERAL
	BACK WATER VALVE
	100W HPS STREET LIGHT
	250W HPS STREET LIGHT
	400W HPS STREET LIGHT

DESCRIPTION	PUBLIC	PRIVATE
2-INCH ASPHALTIC CONCRETE PAVING	- SY	4,041 SY
3-INCH ASPHALTIC CONCRETE PAVING	6,585 SY	- SY
4-INCH ASPHALTIC CONCRETE PAVING	- SY	- SY
5-INCH ASPHALTIC CONCRETE PAVING	- SY	- SY
OPEN GRADE	- SY	- SY
TYPE I GRAVEL	- CY	- CY
TYPE II GRAVEL	731 CY	687 CY
EXCAVATION & EMBANKMENTS	731 CY	687 CY
CURB & GUTTER (24-INCH)	- LF	- LF
CURB & GUTTER (30-INCH)	- LF	2,027 LF
CONCRETE VALLEY GUTTER	- SF	- SF
4-INCH CONCRETE SIDEWALK	- SF	- SF
5-INCH CONCRETE SIDEWALK	- SF	3,880 SF
SIDEWALK UNDERDRAIN	- EA	- EA
3/4" WATER METER	- EA	8 EA
3/4" METER WITH 1" RPPA	- EA	2 EA
1" WATER METER	- EA	10 EA
POWER SERVICE TO LOTS	18 EA	- EA
SURVEY MONUMENTS	1 EA	- EA
ADA RAMPS	- EA	4 EA
"A" CURB	- LF	- LF
TACK ON CURB	- LF	- LF
10" CONCRETE BUS TURN OUT	- SF	- SF
4-INCH SEWER LATERAL	- LF	520 LF
8-INCH PVC SEWER MAIN	2,304 LF	- LF
48-INCH SEWER MANHOLES	10 EA	- EA
BACKWATER VALVES	- EA	1 EA
WATER LATERAL	464 LF	- LF
6-INCH PVC WATER MAIN	292 LF	- LF
10-INCH PVC WATER MAIN	2,229 LF	- LF
10-INCH PVC WATER MAIN	- LF	- LF
8-INCH DIP WATER MAIN	- LF	- LF
IRRIGATION SLEEVES	200 LF	- LF
FIRE HYDRANT	4 EA	- EA
LIGHT STANDARD (STD. BASE)	- EA	- EA
ADJUST/RELOCATE STREETLIGHT	- EA	- EA
1-1/4 INCH STREET LIGHT CONDUIT	- LF	- LF
2 INCH STREET LIGHT CONDUIT	- LF	- LF
SL 125 AMP SERVICE PEDESTAL	- EA	- EA
4-IN FEET INTERCONNECT CONDUIT	- LF	- LF
STREET SIGNS - STAND ALONE	9 EA	- EA
PAVEMENT STRIPING - COLLECTOR	1,123 LF	- LF
4-INCH WIDE WHITE PAINTED LINE	2,641 LF	- LF
FILM FOR CROSSWALKS, STRIPING, ETC.	100 SF	- SF
USD 601 BARRICADE (5FT)	- EA	- EA
#3 1/2 PULLBOX	- EA	- EA
18-INCH STORM DRAIN	- LF	- LF
24-INCH STORM DRAIN	- LF	- LF
30-INCH STORM DRAIN	- LF	- LF
48-INCH STORM DRAIN	- LF	- LF
11'X5' ARCH CULVERT	- LF	- LF
3" CONCRETE CUT-OUT WALL	1,200 LF	- LF
ZURN Z1737 DRAIN	- EA	- EA
TYPE C DROP INLET	- EA	- EA
17.5-FOOT MOD TYPE C DROP INLET	- EA	- EA
20.5-FOOT MOD TYPE C DROP INLET	- EA	- EA
18-INCH SD MANHOLE (>6')	- EA	- EA
DRAINAGE EASEMENT - CONCRETE	- SF	1,290 SF
RIP RAS (050=6") THICKNESS 12"	190 CY	- CY
RIP RAP (050=24")	- CY	- CY

NOTE:
CONTRACTOR TO DETERMINE INDEPENDENT
ESTIMATIONS. THIS QUANTITY ESTIMATE IS FOR
BONDING PURPOSES ONLY.

CITY OF LAS VEGAS BENCHMARK 6LV99 24SES
A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF
CENTENNIAL PARKWAY AND HUALAPAI WAY.
ELEVATION=844.924 METERS (NAVD'88)
ELEVATION=2772.06 US SURVEY FEET (NAVD'88)

SOUTH 89°47'00" EAST BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 89, PAGE 3 OF SURVEYS.

NH 59963
 307V1114

1963-1964 ENGINEERING STATE OF NEW YORK
 CHRISTOPHER R. ZIRINY
 CIVIL

	DRAWING N-1 SHT. 2 OF 24 HTE NUMBER 15-27518		CENTENNIAL AND TEE PEE UNIT 2 A SINGLE FAMILY RESIDENTIAL SUBDIVISION		IMPROVEMENT PLANS FOR		LENNAR® 2450 PASSE VERDE PARKWAY SUITE 120 HENDERSON, NV 89074 PHONE: (736-9100 FAX: (702) 736-9200		RCI Engineering 4325 Dean Martin Road, Suite 300, Las Vegas, NV 89103 PHN(702) 453-0660 FAX(702) 453-0661		DATE: April 27, 2016 HORIZ. SCALE: N/A VERT. SCALE: N/A DRAWN BY: MJD DESIGNED BY: AW CHECKED BY: GZ APPROVED BY: GZ PROJECT #: 3645-0036	REV DESCRIPTION BY APPD DATE