CITY OF LAS VEGAS GENERAL NOTES

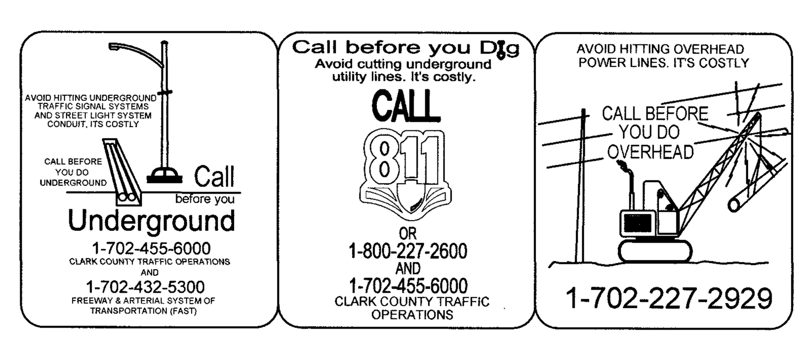
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; 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 ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP 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 AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS 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 THE (COMPANY , _ REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

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 A 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 INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
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 MAPS SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, AND TRANSITION STRUCTURES. STORM DRAIN LATERALS AT THE CONNECTION OF THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET. THE CONNECTION OF SEWER SERVICE LATERALS TO 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 HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITION CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

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 SUBGRADE 0.1'+ +0.0' TO -0.1' SEE SOILS REPORT B. ENGINEERED FILL 0.5'+ +0.1' TO -0.1' SEE SOILS REPORT COMPACTION 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 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 DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING 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.



CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEFO PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL 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 CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, 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 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 SAID 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 ASSISTED 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 MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. 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 HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
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 # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD 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 TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR 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 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

LAS VEGAS FIRE & RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - **APPROVED PRODUCTS LIST** ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER *BEFORE* COMMENCEMENT OF WORK. [IFC § 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED *BEFORE* COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC § 3310, § 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED ***BEFORE*** COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
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. [IFC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [IFC § 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [IFC § 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1
25. 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 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
27. ALL FIRE APPARATUS 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 100 FT ALONG THE 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 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT No.: 125821

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, NOTIVE MUST BE GIVEN BY 2:00 P.P 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 PLATE, DRAWINGS, AND SPECIFICATIONS AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION SHALL SUPERSEDE ANY CONFLICTS 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 MOST RECENT 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 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 METERS 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 REVISIONS, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED 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 APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

    ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
15. NO LEAD COMPLIANCE NOTE:
    TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER BRASS PRODUCTS PROPOSED TO BE RELOCATED OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEAD PRODUCT MAY NOT BE REUSED.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
RIGHT OF WAY		
LOT LINE		
CENTERLINE		
TYPE "A" CURB		
TYPE "L" CURB & SIDEWALK		
EDGE OF PAVEMENT		
WATER LINE	12" W	12" W
12" SANITARY SEWER LINE	12"SS	12"SS
OVERHEAD UTILITY LINES	OH	OH
NATURAL GAS LINE	4"G	4"G
MASONRY BLOCK WALL		
WATER VALVE		
WATER METER		
FIRE DEPARTMENT CONNECTION		
FIRE HYDRANT		
AIR-RELEASE VALVE	A	A
UNDERGROUND POWER VAULT	P	P
UNDERGROUND TELEPHONE VAULT	T	T
UNDERGROUND WATER VAULT	W	W
UNDERGROUND WATER VAULT	TV	TV
TRAFFIC SIGNAL BOX		
GAS METER		
STREET LIGHT		
UTILITY POLE		
STORM MANHOLE	Ⓓ	Ⓓ
TELEPHONE MANHOLE	Ⓣ	Ⓣ
POWER MANHOLE	Ⓟ	Ⓟ
SANITARY MANHOLE	Ⓢ	Ⓢ
SIGN		

NOTE TO CONTRACTOR

QUANTITIES SHOWN ARE ESTIMATE ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT QUANTITIES INVOLVED.

DEVIATION FROM STANDARDS

NONE

QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
2.5" AC PAVEMENT	SY		7287
3.5" AC PAVEMENT	SY	4245	
TYPE II AGGREGATE BASE	CY	763	1363
"L" CURB AND GUTTER	LF	1574	
"R" CURB AND GUTTER	LF		3617
5" CONCRETE SIDEWALK	SF	7870	18085
DROP INLET TYPE "CM" PER CCUSD 412.1	EA	2	
18" RCP	LF	10	
150W STREETLIGHT	EA	4	
100W STREETLIGHT	EA		13
1-1/4 STREETLIGHT CONDUIT	LF	759	1814
8" PVC SEWER LINE	LF	1893	
4" SEWER LATERAL	LF		1711
48" MANHOLE	EA	6	
48" CAST-IN-PLACE MANHOLE	EA	1	
3/4" ~~DOMESTIC~~ WATER METER	EA	59	
1" RPPA	EA	2	
8" PVC WATER LINE	LF	2092	
10" PVC WATER LINE	LF	22	
8" DIP WATER LINE	LF	58	
2" WATER LATERAL	LF	1468	
8" GATE VALVE	EA	6	
8" 45° BEND	EA	6	
8" 90° BEND	EA	1	
8" TEE	EA	2	
8" TAPPING TEE	EA	2	
8" X 6" TEE	EA	3	
10" X 8" TEE	EA	1	
16" STEEL CASING	LF	47	
FIRE HYDRANT ASSEMBLY	EA	3	

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

ABBREVIATIONS

ABAN	ABANDON
AIP	ABANDON IN PLACE
AGG	AGGREGATE
ALT	ALTERNATE
ACP	ASBESTOS CEMENT PIPE
AC	ASPHALTIC CONCRETE
AP	ANGLE POINT
AVE	AVENUE
BC	BACK OF CURB
BCR	BACK OF CURB RETURN
BL	BOUNDARY LINE
BVC	BEGINNING VERTICAL CURVE
BM	BENCHMARK
CATV	CABLE TELEVISION
C-C	CENTER TO CENTER
℄	CENTERLINE
CBC	CITY OF BOULDER CITY
CLV	CITY OF LAS VEGAS
COH	CITY OF HENDERSON
CM	CITY OF MESQUITE
CNLV	CITY OF NORTH LAS VEGAS
CC	CLARK COUNTY
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCT
COR	CORNER
CMP	CORRUGATED METAL PIPE
CSAP	CORRUGATED STEEL ARCH PIPE
CSP	CORRUGATED STEEL PIPE
C&G	CURB AND GUTTER
CIP	CAST IRON PIPE
COL	COLUMN
CY	CUBIC YARD
CULV	CULVERT
CF	CURB FACE
DEPT	DEPARTMENT
DIA	DIAMETER
DWY	DRIVEWAY
DI	DROP INLET
ESMT	EASEMENT
E/O	EAST OF
EP	EDGE OF PAVEMENT
EO	EDGE OF OIL
E	ELECTRIC
EM	ELECTRIC METER
ELEV	ELEVATION
EMBK	EMBANKMENT
ECR	END OF CURB RETURN
EC	END OF CURVE
EG	EXISTING GROUND
EVC	END VERTICAL CURVE
EXIST	EXISTING
F.A.S.T	FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
FF	FINISHED FLOOR
FT	FEET/FOOT
FG	FINISH GRADE
FA	FIRE ALARM
FH	FIRE HYDRANT
FL or FL	FLOW LINE
FS	FINISHED SURFACE
GALV	GALVANIZED
GM	GAS METER
GR	GAS PRESSURE REGULATOR
GB	GRADE BREAK
GUT	GUTTER
HDWL	HEADWALL
HP	HIGH-POINT
IN	INCH
INT	INTERSECTION
INV	INVERT
ISL	ISLAND
JB	JUNCTION BOX
LOC	LENGTH OF CURB
LT	LEFT
LF	LINEAR FEET
LVVWD	LAS VEGAS VALLEY WATER DIST.
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MON	MONOLITHIC
N/O	NORTH OF
NTS	NOT TO SCALE
OC	ON CENTER
PVMT	PAVEMENT
PVC	POLYVINYL CHLORIDE
PI	POINT OF INTERSECTION
PRC	POINT TOF REVERSE CURVE
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PP	POWER POLE
P	POWER
PL	PROPERTY LINE
PROP	PROPOSED
PB	PULL BOX
RP	RADIUS POINT
R	RADIUS
RR	RAILROAD
REINF	REINFORCEMENT
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RELOC	RELOCATE
RT	RIGHT
R/W	RIGHT OF WAY
RVC	REVERSE VERTICAL CURVE
RD	ROAD
SS	SANITARY SEWER
SHT	SHEET
S/O	SOUTH OF
SW	SIDEWALK
SF	SQUARE FEET
SY	SQUARE YARD
STA	STATION
SHP	STEEL HIGH-PRESSURE PIPE
SD	STORM DRAIN
STD	STANDARD
STRUCT	STRUCTURE
SURV	SURVEY
STLT	STREETLIGHT
SNWA	SOUTHERN NEVADA WATER AUTHORITY
T	TELEPHONE
TEMP	TEMPORARY
TBA	TO BE ADJUSTED
TBR	TO BE REMOVED
TC	TOP OF CURB
TF	TOP OF FOOTING
TOP	TOP OF PIPE
TS	TRAFFIC SIGNAL
TSI	TRAFFIC SIGNAL INTERCONNECT
TRANS	TRANSITION
TW	TOP OF RETAINING WALL
TYP	TYPICAL
UG	UNDERGROUND
VAR	VARIABLE
VERT	VERTICAL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
VCP	VITRIFIED CLAY PIPE
WL	WATER
WM	WATER METER
W/O	WEST OF
YD	YARD

APPROVED FOR CONSTRUCTION

Jeanne Ocon for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

Actus
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Las Vegas, NV 89120
www. Actus-NV.com
(702) 586-9296
Engineering - Surveying - Consulting - Planning

NOTES
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

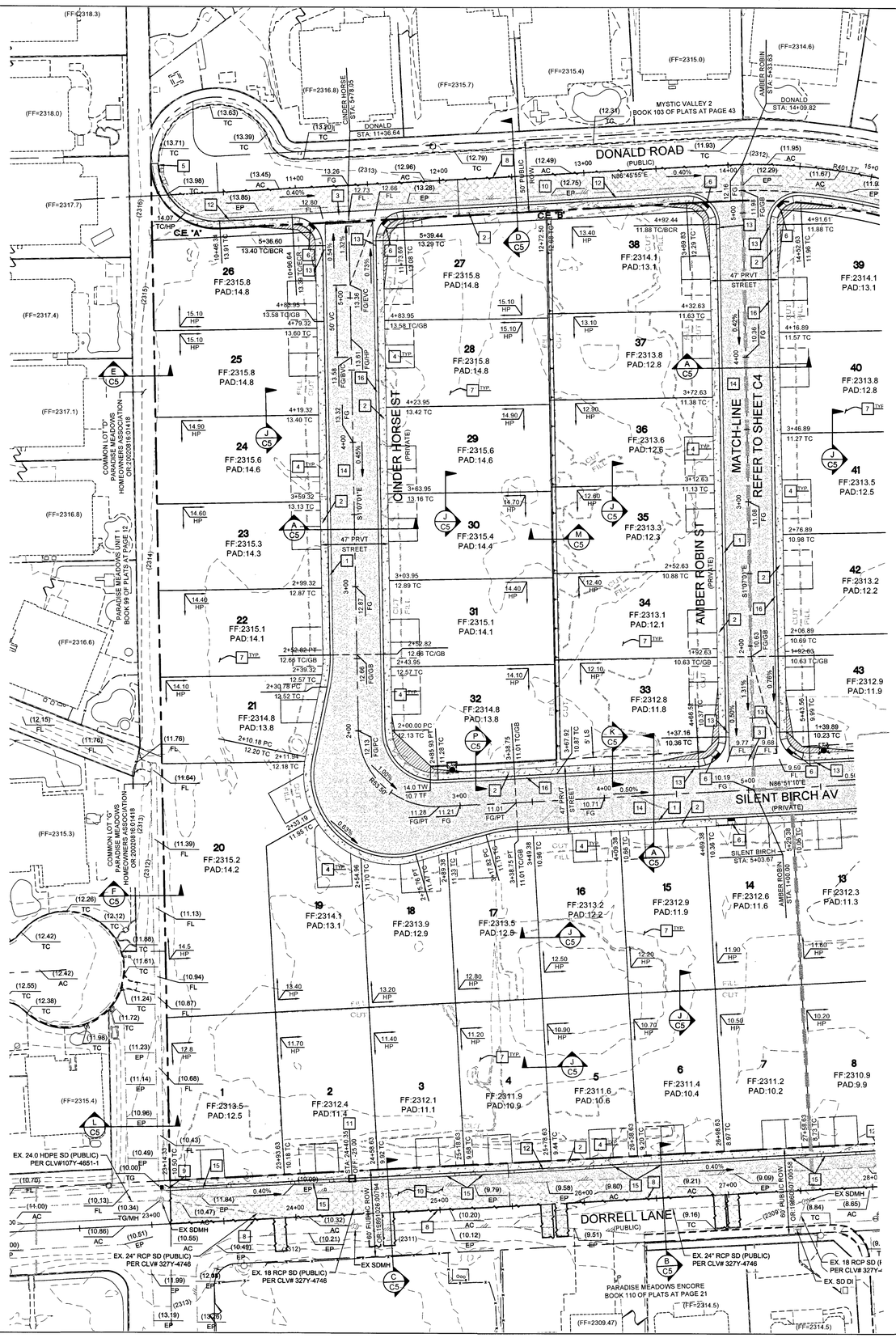
PROFESSIONAL ENGINEER - STATE OF NEVADA - DARRYL C. LATTIMORE - EXP: 12/31/17 - CIVIL - No. 17516 - 10/18/17

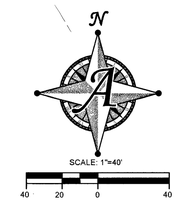
DATE	11-01-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

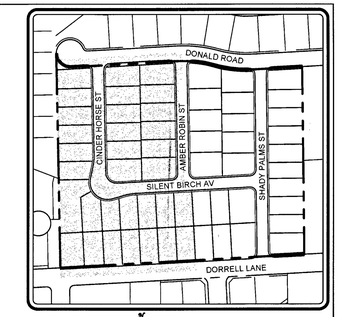
SHEET TITLE
NOTES
SHEET NUMBER
C2
L17-00646
CLV# 107Y5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 11/2/2017 10:12:53 AM - Ryan Sicner
File: P:\BZR011703 - Dorrell Decatur\Civil_CD\BZR011703-CVR.dwg, Tab: C2 - Notes







KEY MAP
SCALE: NTS

GRADING NOTE

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.S1
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' CROSS GUTTER PER CCAUSD #228.
4. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
5. MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
6. SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
7. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
8. SAWCUT EXISTING A.C. PAVEMENT PER PLAN
9. CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. CONSTRUCT DROP INLET TYPE "CM" PER CCUSD 412.1 ONE 2.5' GRATE
12. CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
13. 3' TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
14. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
15. "R" CURB PER CCAUSD # 217.3.S1 & 3' "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
16. CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
		RETAINING WALL
		SAWCUT LINE
		FLOW LINE
		GRADE BREAK
2500	(2500)	MAJOR 5' CONTOUR
2501	(2501)	MINOR 1' CONTOUR
		SCARP (3:1 MAX)
		CONCRETE SIDEWALK/ VALLEY GUTTER
		PROPOSED ASPHALT
		REMOVE AND REPLACE ASPHALT
FILL / CUT		PHASE LINE
		CUT / FILL LINE
[98.72] XX		FUTURE GRADE TAG
	(98.72) XX	EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TC		TOP OF CURB
AC		TOP OF PAVEMENT
FL		FLOW LINE GRADE
EP		EDGE OF PAVEMENT
TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

ESTIMATED QUANTITIES

NOTE: QUANTITIES SHOWN ARE RAW QUANTITIES AND APPROXIMATE. CONTRACTOR TO DETERMINE HIS OWN QUANTITIES FOR GRADING PURPOSES.

WORK UNDER THIS PLAN CONSTITUTES GRADING IN ACCORDANCE WITH 2009 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE COUNTY PRIOR TO COUNTY APPROVAL AT FINAL INSPECTION.

CUT: 9,644 CY
FILL: 12,531 CY
NET: 2,887 CY (FILL)

SIGHT VISIBILITY RESTRICTION ZONES

CCAUSD DWG. NO. 201.2

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

REFER TO TRAFFIC SHEETS C15 & C16 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

PRIVATE STREET NOTE:

ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED UPDATED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS FOR CLV# 640226

DARRYL LATTIMORE, P.E. — DATE 10/18/17

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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Engineering - Surveying - Consulting - Planning

GRADING PLAN 1
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — No. 17516 — STATE OF NEVADA
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
GRADING PLAN 1

SHEET NUMBER
C3

L17-00646
CLV# 107Y5067-1

Plot Stamp: 10/18/2017 3:59:28 PM - Alan Whittington
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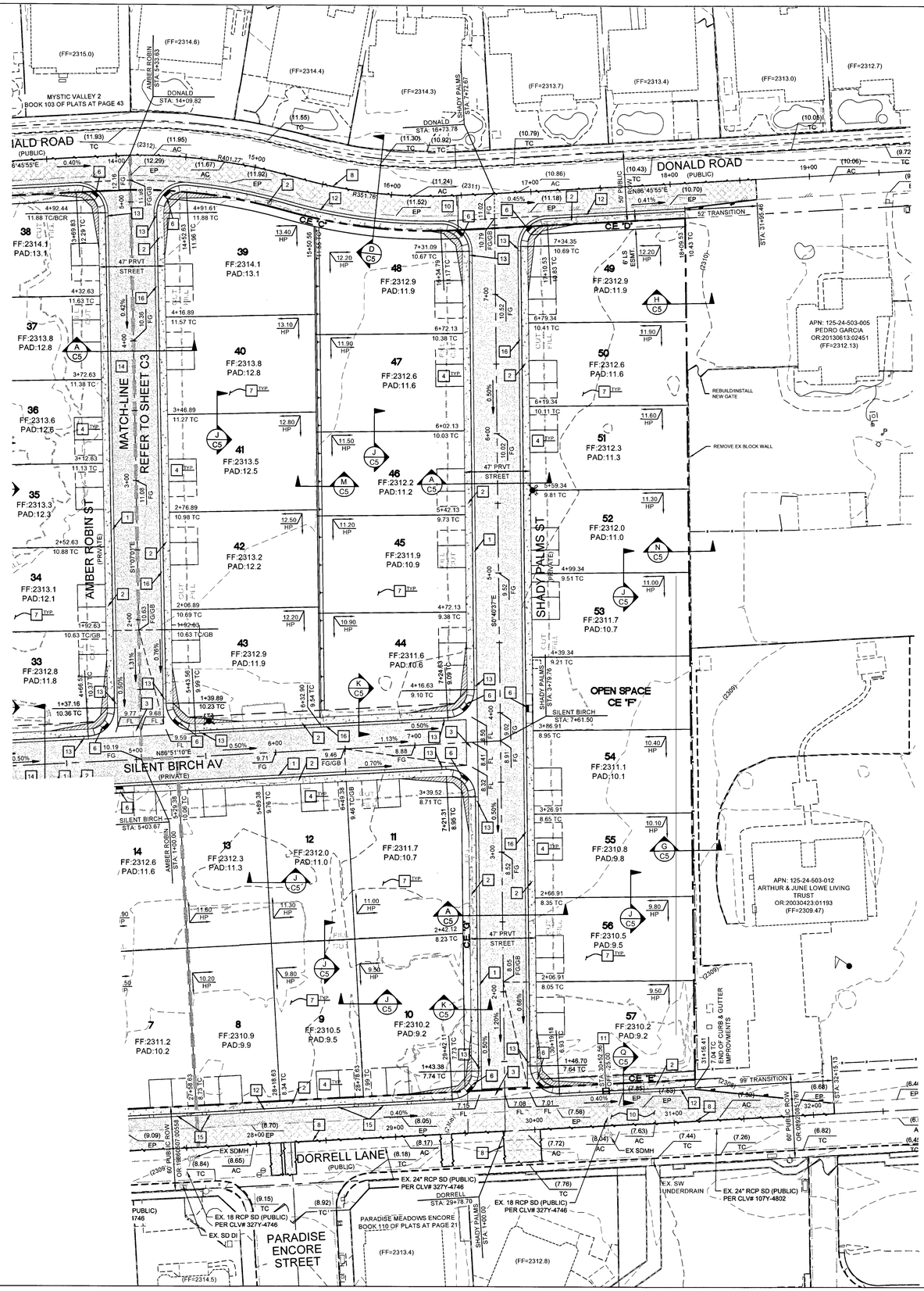
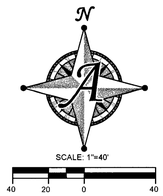
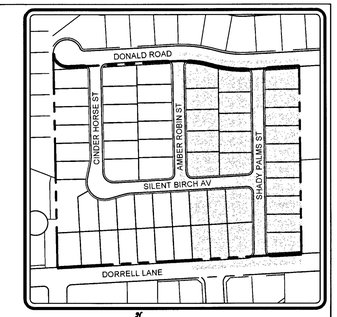






KEY MAP
SCALE: NTS

GRADING NOTE

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.S1
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' CROSS GUTTER PER CCAUSD #228.
4. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
5. MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
6. SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
7. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
8. SAWCUT EXISTING A.C. PAVEMENT PER PLAN
9. CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. CONSTRUCT DROP INLET TYPE "CM" PER CCUSD 412.1 ONE 2.5' GRATE
12. CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
13. 3' TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
14. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
15. "R" CURB PER CCAUSD # 217.3.S1 & 3' "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
16. CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
		RETAINING WALL
		SAWCUT LINE
		FLOW LINE
		GRADE BREAK
2500	(2500)	MAJOR 5' CONTOUR
2501	(2501)	MINOR 1' CONTOUR
		SCARP (3:1 MAX)
		CONCRETE SIDEWALK/ VALLEY GUTTER
		PROPOSED ASPHALT
		REMOVE AND REPLACE ASPHALT
		PHASE LINE
FILL / CUT		CUT / FILL LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TC		TOP OF CURB
AC		TOP OF PAVEMENT
FL		FLOW LINE GRADE
EP		EDGE OF PAVEMENT
TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 / D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

ESTIMATED QUANTITIES

NOTE: QUANTITIES SHOWN ARE RAW QUANTITIES AND APPROXIMATE. CONTRACTOR TO DETERMINE HIS OWN QUANTITIES FOR GRADING PURPOSES.

WORK UNDER THIS PLAN CONSTITUTES GRADING IN ACCORDANCE WITH 2009 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE COUNTY PRIOR TO COUNTY APPROVAL AT FINAL INSPECTION.

CUT: 9,644 CY
FILL: 12,531 CY
NET: 2,887 CY (FILL)

SIGHT VISIBILITY RESTRICTION ZONES

CCAUSD DWG. NO. 201.2

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

REFER TO TRAFFIC SHEETS C15 & C16 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

PRIVATE STREET NOTE:

ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED UPDATED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS FOR CLV# 640226

DARRYL LATTIMORE, P.E. — DATE 10/18/17

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA),

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

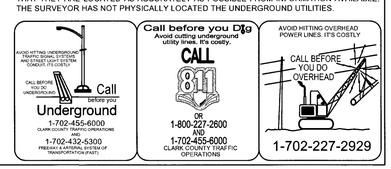
ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



Actus
3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
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Engineering - Surveying - Consulting - Planning

GRADING PLAN 2
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703
SHEET TITLE	GRADING PLAN 2
SHEET NUMBER	C4
CLV#	107Y5057-1

Plot Stamp: 10/18/2017 3:59:32 PM - Alan Whittington
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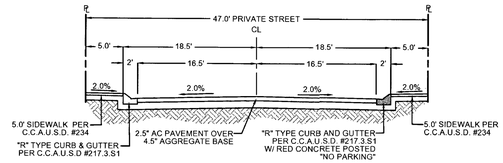
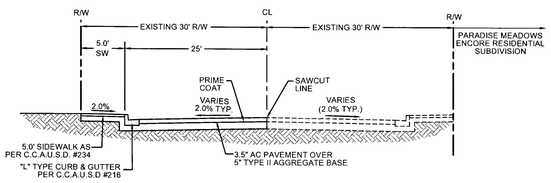
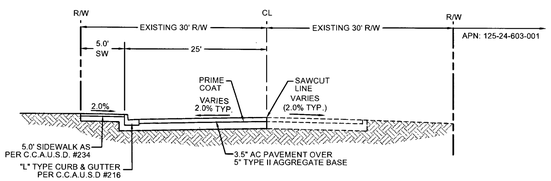


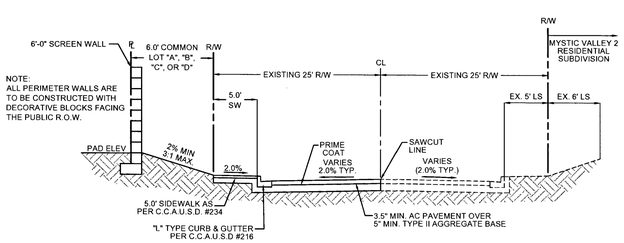
A - 47.0' (PRIVATE) STREET SECTION
NOT TO SCALE



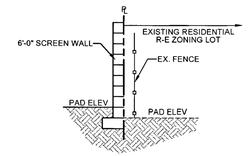
B - DORRELL LANE SECTION
NOT TO SCALE



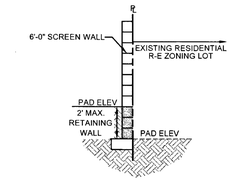
C - DORRELL LANE SECTION
NOT TO SCALE



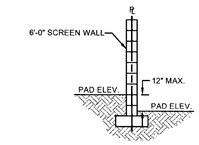
D - DONALD ROAD SECTION
NOT TO SCALE



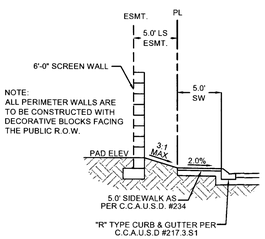
G - EAST PROPERTY LINE SECTION
NOT TO SCALE



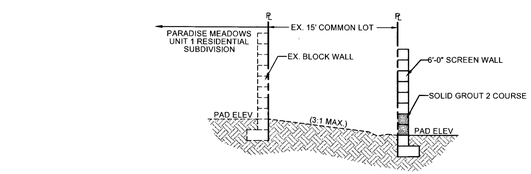
H - EAST PROPERTY LINE SECTION
NOT TO SCALE



J - LOT LINE SECTION
NOT TO SCALE



K - SIDE YARD SECTION
NOT TO SCALE



E - WEST PROPERTY LINE SECTION
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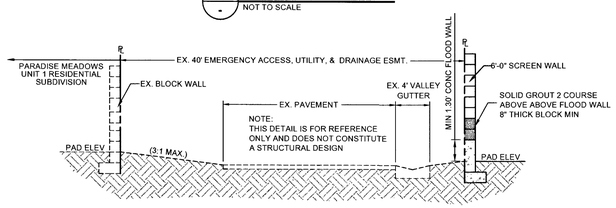
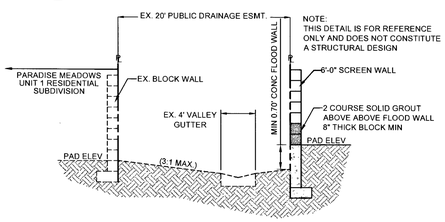


L - WEST PROPERTY LINE SECTION
NOT TO SCALE



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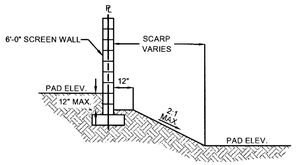
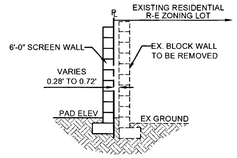
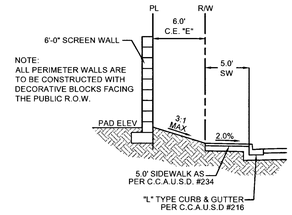


M - LOT LINE SECTION
NOT TO SCALE



N - EAST PROPERTY LINE SECTION
NOT TO SCALE

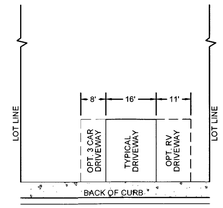
P - LOT LINE SECTION
NOT TO SCALE



Q - SOUTH PROPERTY LINE SECTION
NOT TO SCALE

WALL NOTES

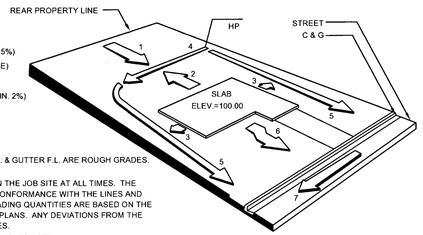
1. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
2. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. ALL PERIMETER WALLS TO BE CONSTRUCTED WITH DECORATIVE BLOCK FACING THE PUBLIC R.O.W.



5 - TYP. DRIVEWAY DETAIL
NOT TO SCALE

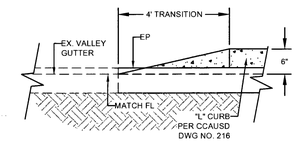
1. SLOPE FROM REAR TO SWALE
2. SLOPE FROM HOUSE TO SWALE (MIN. 5%)
3. SLOPE FROM HOUSE TO SIDE SWALE (MIN. 5%)
4. REAR SWALE (5' MIN. FROM REAR OF HOUSE)
5. SIDE SWALE
6. SLOPE FROM HOUSE TO BACK OF CURB (MIN. 2%)
7. SLOPE OF STREET

A. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES. (0.3' LOWER THAN FINISHED GRADE).
B. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
C. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
D. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.3' OF THE PAD ELEVATIONS SHOWN ON THE PLANS.

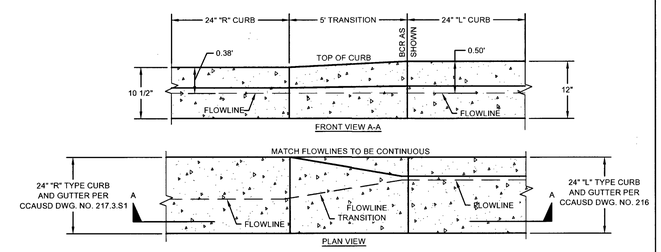


PERSPECTIVE VIEW

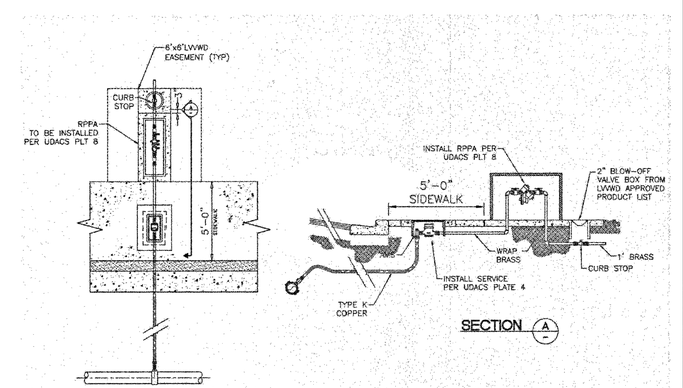
1 - TYPE "A" PAD GRADING DETAIL TYP.
NOT TO SCALE



2 - "L" CURB TO VALLEY GUTTER TRANSITION DETAIL
NOT TO SCALE



3 - 3' "L" CURB TO "R" CURB TRANSITION
NOT TO SCALE



4 - METER WITH RPPA PER UDACS PLATE #4 AND #8 AND CURB STOP
NOT TO SCALE

APPROVED FOR CONSTRUCTION
Jeanne Ocon for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

Actus
3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
www.Actus-NV.com
(702) 586-9296
Engineering - Surveying - Consulting - Planning

DETAILS
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY
1			

PROFESSIONAL ENGINEER
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
STATE OF NEVADA
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
DETAILS

SHEET NUMBER
C5

L17-00646
CLV# 1017X5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 3:55:36 PM - Alan Whittington
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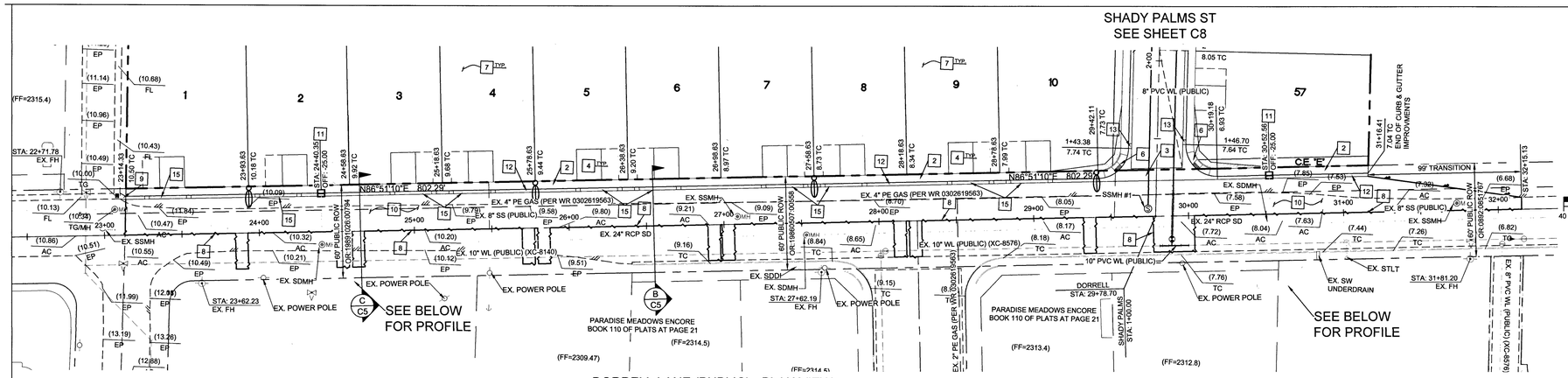

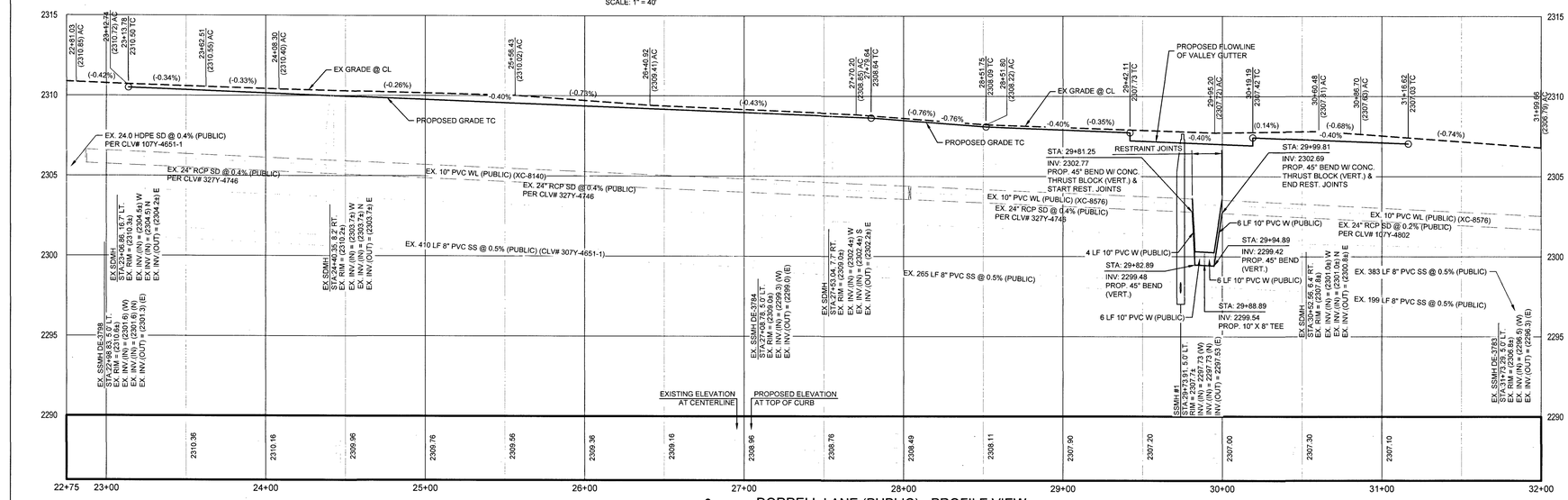

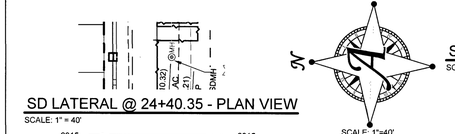

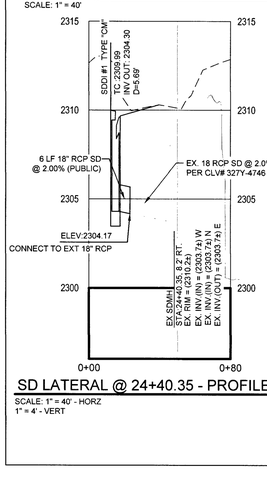

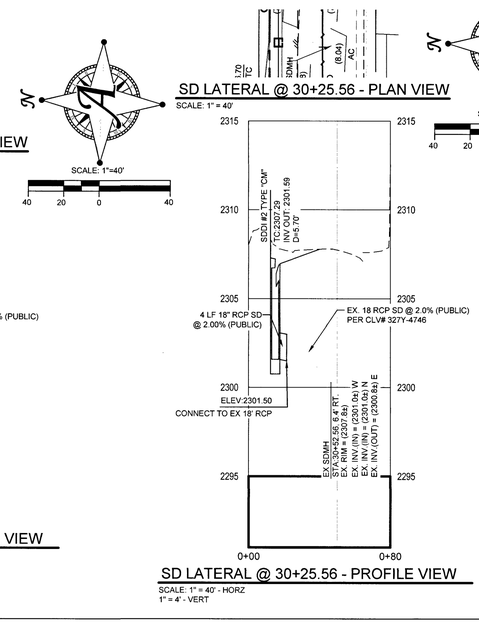

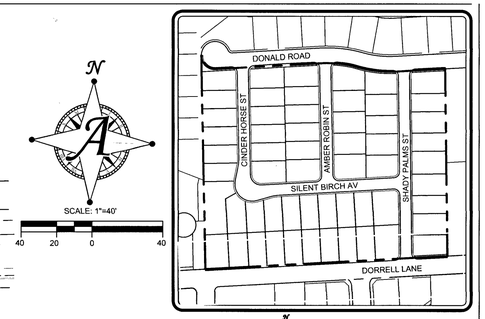

KEY MAP
SCALE: NTS

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
		RETAINING WALL
		SAWCUT LINE
		FLOW LINE
		GRADE BREAK
2500	(2500)	MAJOR 5' CONTOUR
2501	(2501)	MINOR 1' CONTOUR
		SCARP (3:1 MAX)
		CONCRETE SIDEWALK/ VALLEY GUTTER
		PROPOSED ASPHALT
		REMOVE AND REPLACE ASPHALT
		PHASE LINE
		CUT / FILL LINE
[98.72] XX		FUTURE GRADE TAG
	(98.72) XX	EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TC		TOP OF CURB
AC		TOP OF PAVEMENT
FL		FLOW LINE GRADE
EP		EDGE OF PAVEMENT
TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

GRADING NOTE

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3 S1
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' CROSS GUTTER PER CCAUSD #228.
4. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
5. MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
6. SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
7. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
8. SAWCUT EXISTING A.C. PAVEMENT PER PLAN
9. CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
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15. "R" CURB PER CCAUSD # 217.3 S1 & 3' "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
16. CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

UTILITY NOTES

- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ALL SEWER/STORM CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- MAINTAIN ADEQUATE COVER OVER EXISTING WATERLINE (UDACS 2.08)

DEPTH OF COVER DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

APPROVED FOR CONSTRUCTION

Bonne Ocon for DJM

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA),

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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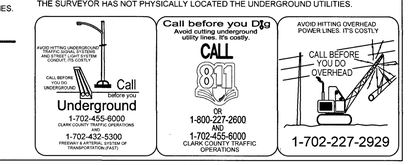

Actus
3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
www.Actus-NV.com
(702) 588-9296
Engineering - Surveying - Consulting - Planning

PLAN & PROFILE - DORRELL LANE
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — No. 17516 — STATE OF NEVADA
10/18/17

DATE	11-01-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
PLAN & PROFILE

SHEET NUMBER
C6

47-00446
CLV# 107Y5067-1

PROJ.#:125821 AGR:116514 QS:125-24-NE XC: 11366

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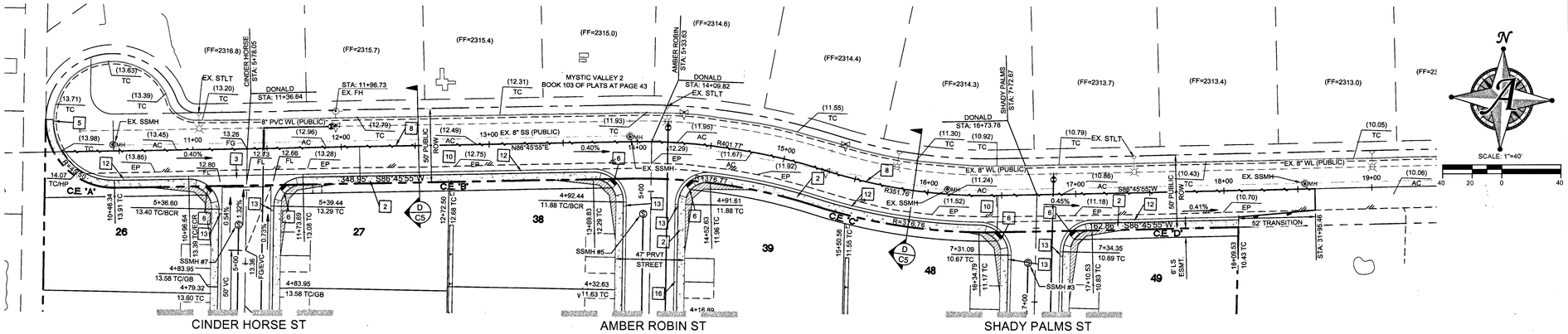
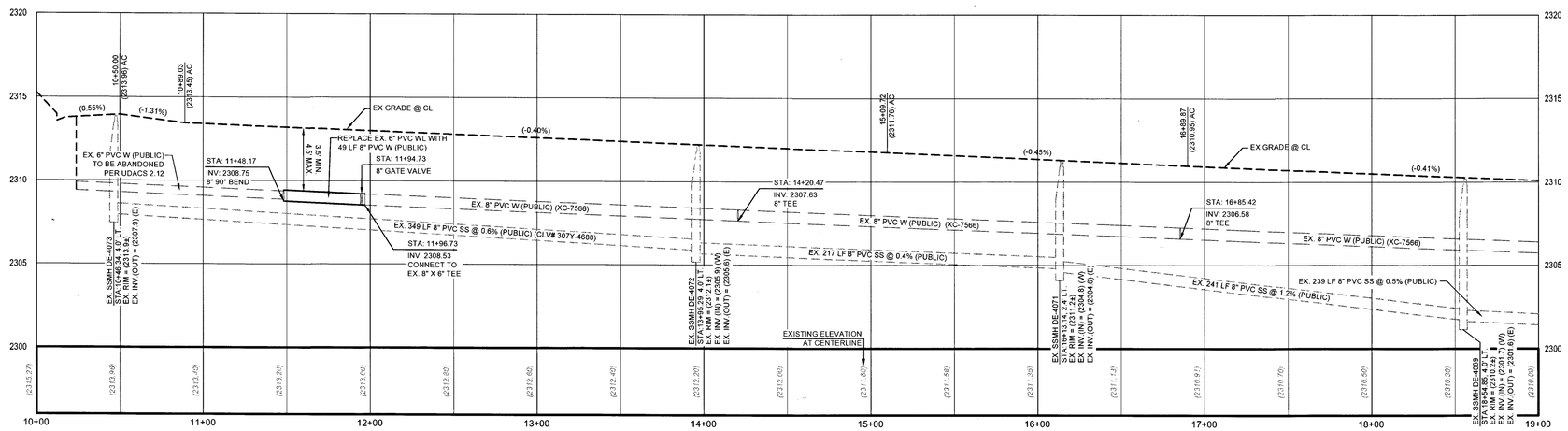


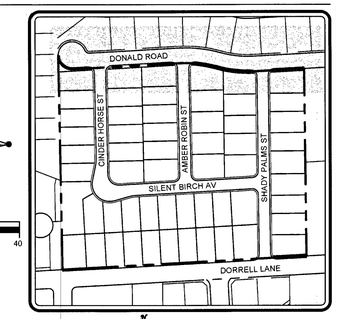
DONALD ROAD (PUBLIC) - PLAN VIEW

SCALE: 1" = 40'



DONALD ROAD (PUBLIC) - PROFILE VIEW

SCALE: 1" = 40' - HORZ
1" = 4' - VERT



KEY MAP
SCALE: NTS

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
		RETAINING WALL
		SAWCUT LINE
		FLOW LINE
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		CONCRETE SIDEWALK/ VALLEY GUTTER
		PROPOSED ASPHALT
		REMOVE AND REPLACE ASPHALT
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TF		TOP OF WALL FOOTING
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1 D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

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APPROVED FOR CONSTRUCTION

Lanne Dean for DJM

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

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NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUIT. IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND
Call before you Dig
Underground
1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS
OR
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL
OR
1-800-227-2600
AND
1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

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Engineering - Surveying - Consulting - Planning

PLAN & PROFILE - DONALD ROAD
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — No. 17516 — 10/19/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
PLAN & PROFILE

SHEET NUMBER
C7

LI7-00646
CLV# 107Y5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11386

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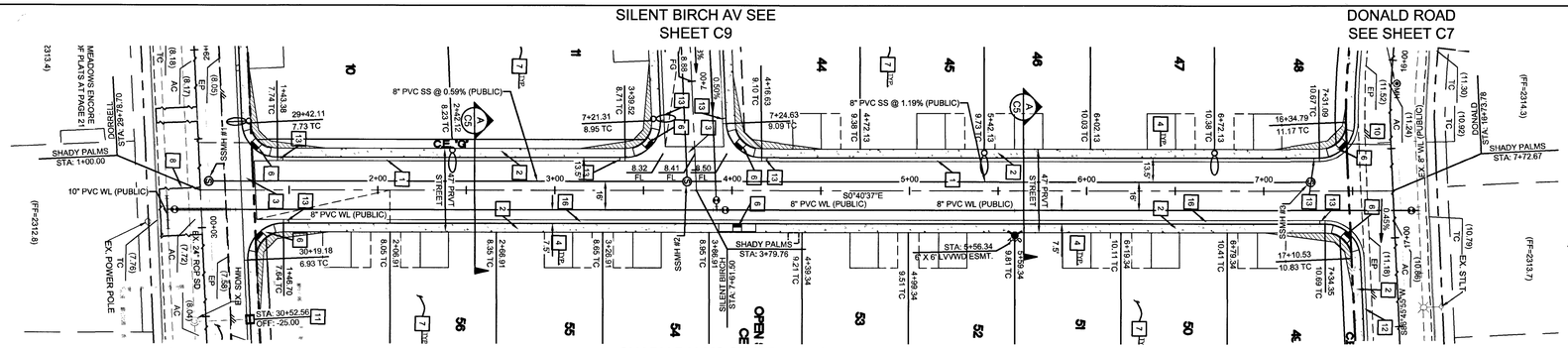
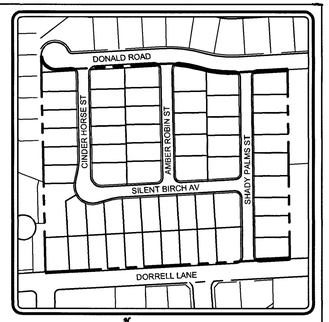
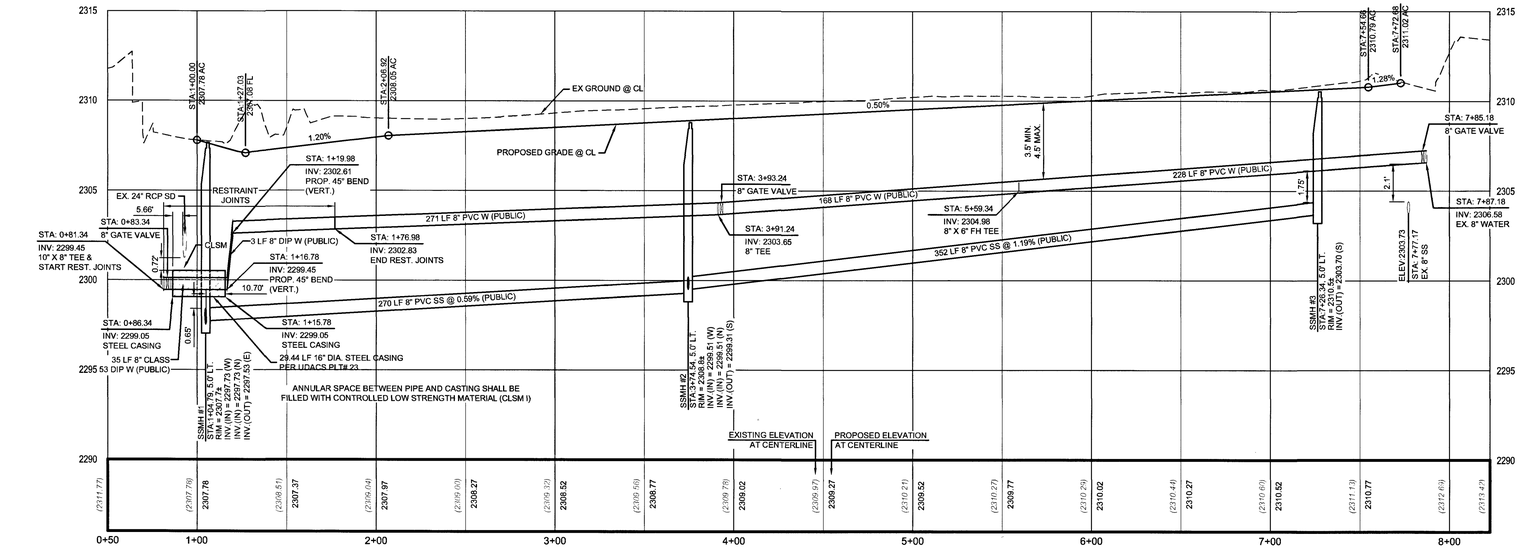




KEY MAP
SCALE: NTS



LEGEND

PROPOSED	EXISTING	
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TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

GRADING NOTE

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2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
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APPROVED FOR CONSTRUCTION

Jeanne Dean for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

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ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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(702) 586-9296
Engineering - Surveying - Consulting - Planning

DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — No. 17516 — 11/9/17

DATE	11-01-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
PLAN & PROFILE

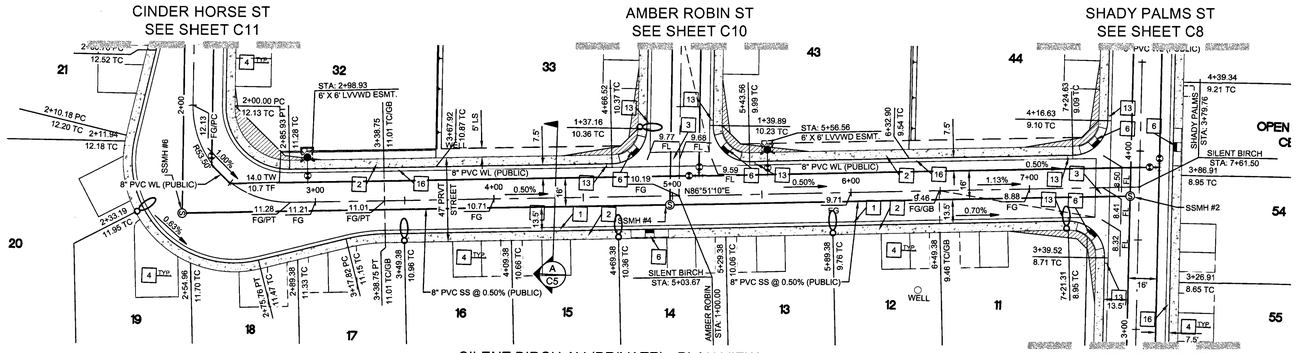
SHEET NUMBER
C8

47-00644
CLV# 107145067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

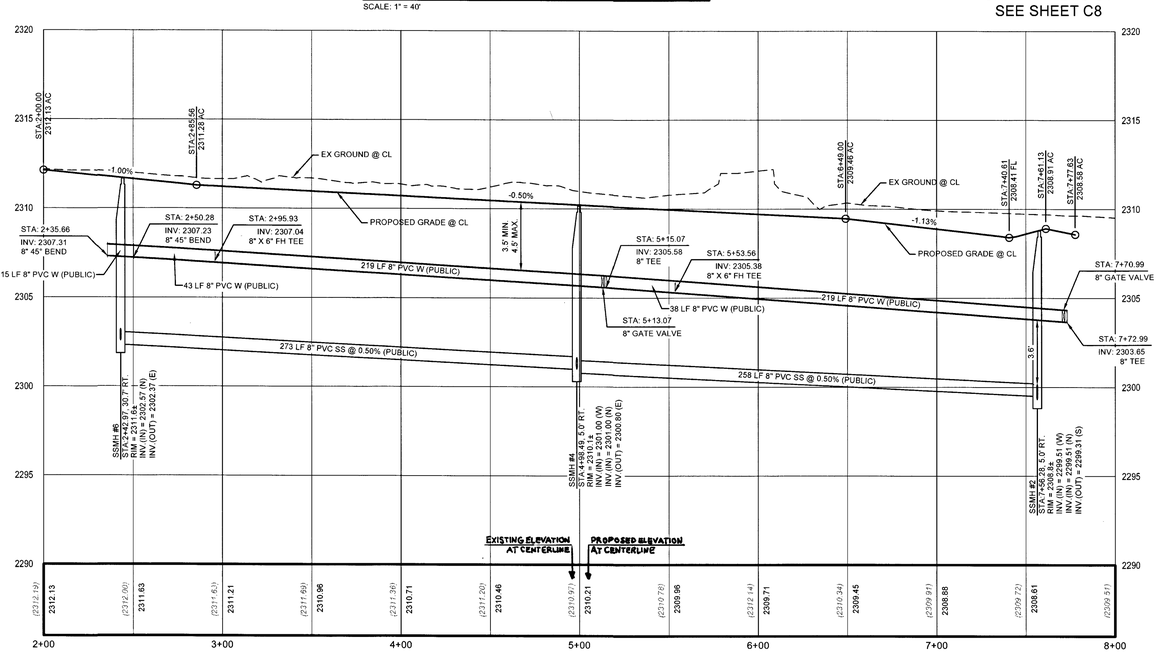
PLAN & PROFILE - SHADY PALMS STREET
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

Plot Stamp: 11/9/2017 9:07:31 AM - Alan Whittington
File: P:\BZR011703 - Dorrell Decatur\Civil_CD\BZR011703-PNP.dwg, Tab: C8 - P&P Shady Palms



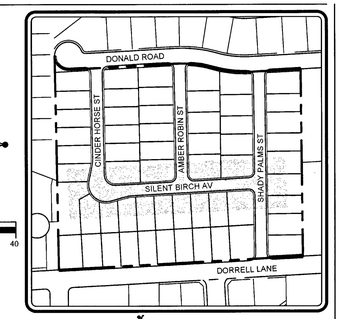
SILENT BIRCH AV (PRIVATE) - PLAN VIEW

SCALE: 1" = 40'



SILENT BIRCH AV (PRIVATE) - PROFILE VIEW

SCALE: 1" = 40' - HORZ
1" = 4' - VERT



KEY MAP
SCALE: NTS

GRADING NOTE

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.S1
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' CROSS GUTTER PER CCAUSD #228.
4. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
5. MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
6. SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
7. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
8. SAWCUT EXISTING A.C. PAVEMENT PER PLAN
9. CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. CONSTRUCT DROP INLET TYPE "CM" PER CCUSD 412.1 ONE 2.5' GRATE
12. CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
13. 3' TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
14. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
15. "R" CURB PER CCAUSD # 217.3.S1 & 3' "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
16. CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
		RETAINING WALL
		SAWCUT LINE
		FLOW LINE
		GRADE BREAK
2500	(2500)	MAJOR 5' CONTOUR
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		CONCRETE SIDEWALK/ VALLEY GUTTER
		PROPOSED ASPHALT
		REMOVE AND REPLACE ASPHALT
		PHASE LINE
		CUT / FILL LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TC		TOP OF CURB
AC		TOP OF PAVEMENT
FL		FLOW LINE GRADE
EP		EDGE OF PAVEMENT
TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA),

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
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- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

UTILITY NOTES

- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ALL SEWER/STORM CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

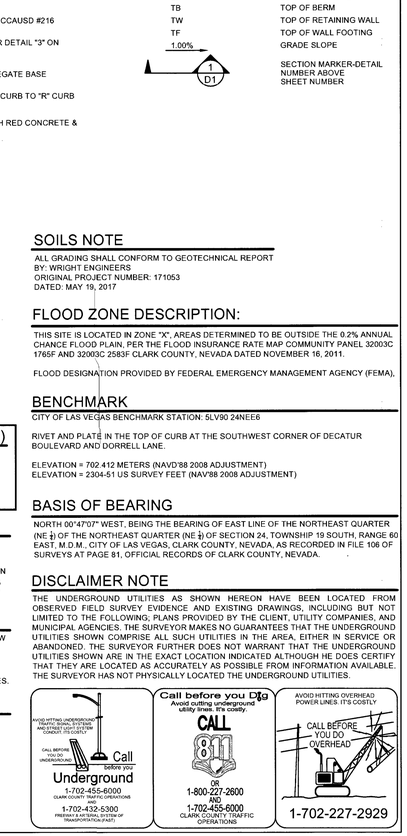
DEPTH OF COVER DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

APPROVED FOR CONSTRUCTION

Jeanne Bem for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL



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#	DATE	DESCRIPTION	BY

PLAN & PROFILE - SILENT BIRCH AVENUE

DECATUR & DONALD I

BEAZER HOMES

CITY OF LAS VEGAS, NEVADA

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — NO. 17516
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
PLAN & PROFILE

SHEET NUMBER
C9

L17-00646
CLV# 1017 5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 4:00:38 PM - Alan Whitington
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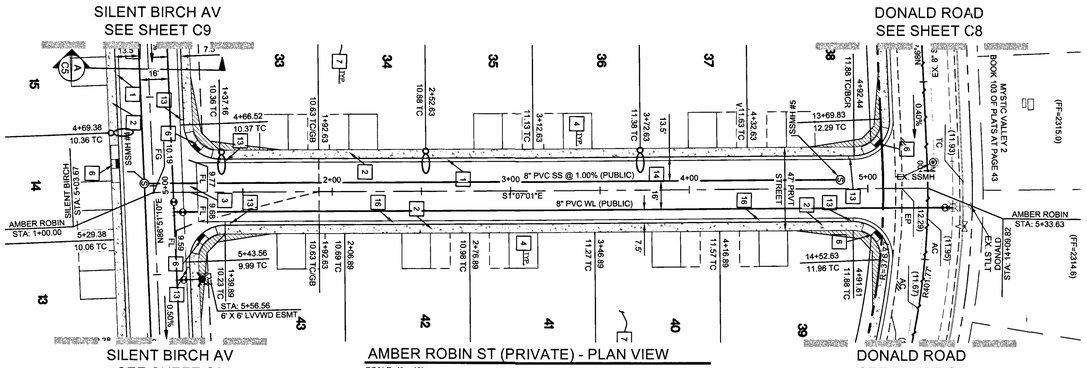
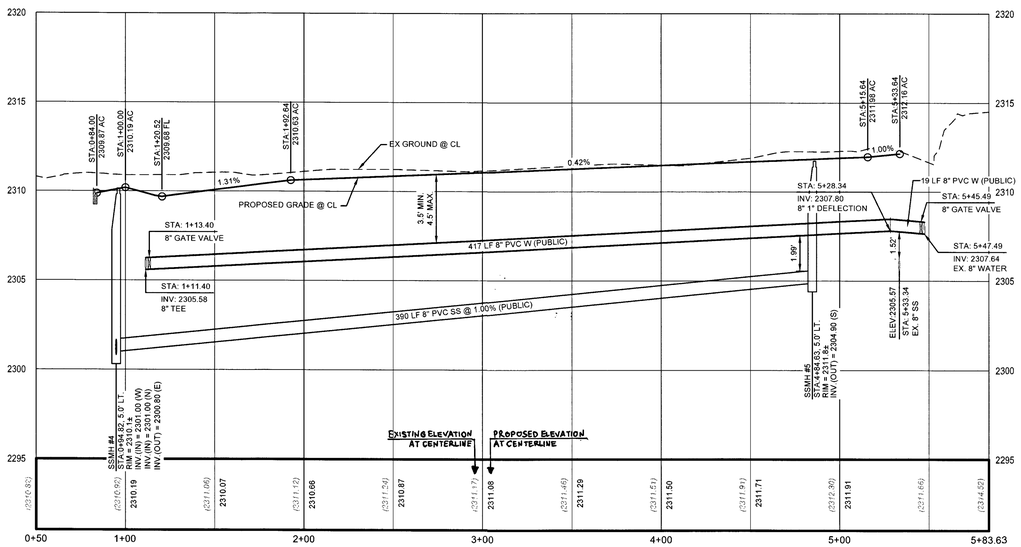


AMBER ROBIN ST (PRIVATE) - PLAN VIEW

SCALE: 1" = 40'



AMBER ROBIN ST (PRIVATE) - PROFILE VIEW

SCALE: 1" = 40' - HORZ

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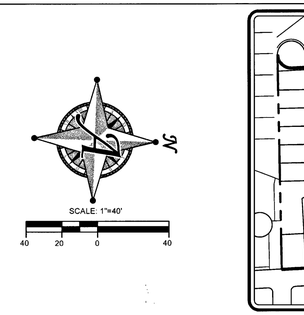

KEY MAP

SCALE: NTS

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		EDGE OF ASPHALT
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TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 / D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

SOILS NOTE

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BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

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FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

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APPROVED FOR CONSTRUCTION

Sonni Dean for DJM

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-04-17

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHTING CONDUIT. CALL BEFORE YOU DIG UNDERGROUND. Call before you Dig Underground 1-702-455-6000 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300 FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

Call before you Dig Avoid cutting underground utility lines. It's costly. CALL 811 OR 1-800-227-2600 AND 1-702-455-6000 CLARK COUNTY TRAFFIC OPERATIONS

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

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Las Vegas, NV 89120
www.Actus-NV.com
(702) 386-9266
Engineering - Surveying - Consulting - Planning

#	DATE	DESCRIPTION	BY
A			

PLAN & PROFILE - AMBER ROBIN STREET

DECATUR & DONALD I

BEAZER HOMES

CITY OF LAS VEGAS, NEVADA

PROFESSIONAL ENGINEER STATE OF NEVADA DARRYL C. LATTIMORE EXP: 12/31/17 CIVIL No. 17515 10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE

PLAN & PROFILE

SHEET NUMBER

C10

CLV# 107Y5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 4:00:48 PM - Alan Whittington
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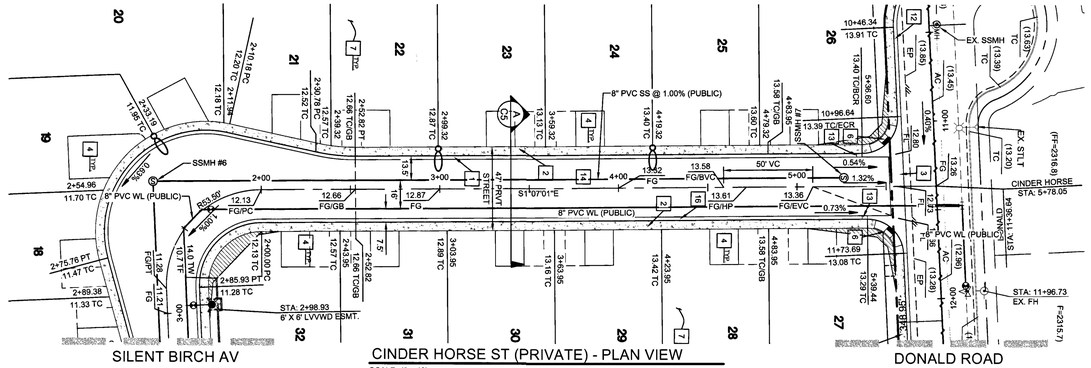
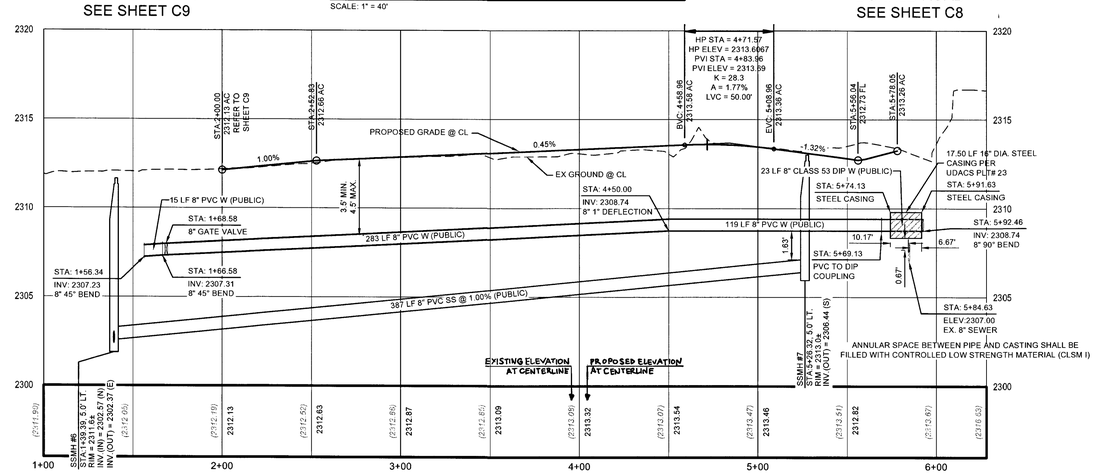


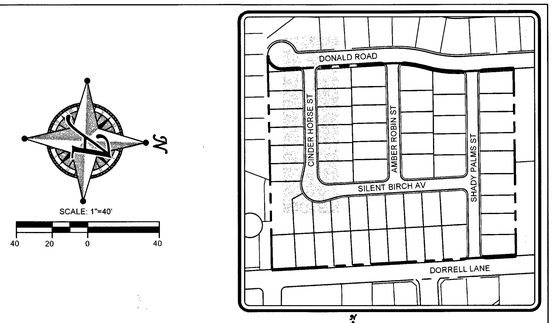
SILENT BIRCH AV
SEE SHEET C9

CINDER HORSE ST (PRIVATE) - PLAN VIEW
SCALE: 1" = 40'

DONALD ROAD
SEE SHEET C8



CINDER HORSE ST (PRIVATE) - PROFILE VIEW
SCALE: 1" = 40' - HORZ
1" = 4' - VERT



KEY MAP
SCALE: NTS

SCALE: 1"=40'

LEGEND

PROPOSED	EXISTING	
		PROPERTY LINE / ROW LINE
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TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
1.00%		GRADE SLOPE
1 D1		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

GRADING NOTE

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.S1
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' CROSS GUTTER PER CCAUSD #228.
4. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
5. MATCH EK. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
6. SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
7. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
8. SAWCUT EXISTING A.C. PAVEMENT PER PLAN
9. CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. CONSTRUCT DROP INLET TYPE "CM" PER CCUSD 412.1 ONE 2.5' GRATE
12. CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
13. 3' TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
14. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
15. "R" CURB PER CCAUSD # 217.3.S1 & 3' "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
16. CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

UTILITY NOTES

- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ALL SEWER/STORM CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

DEPTH OF COVER DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

APPROVED FOR CONSTRUCTION

Jeanne Dean for DJM

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11.09.17

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

FLOOD ZONE DESCRIPTION:

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN. PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA),

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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Las Vegas, NV 89120
www.actus-ae.com
(702) 598-9296
Engineering - Surveying - Consulting - Planning

PLAN & PROFILE - CINDER HORSE STREET
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER - STATE OF NEVADA
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
10/18/17

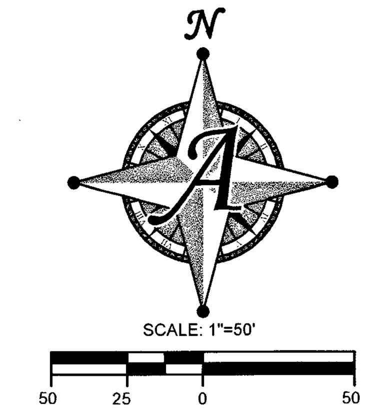
DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

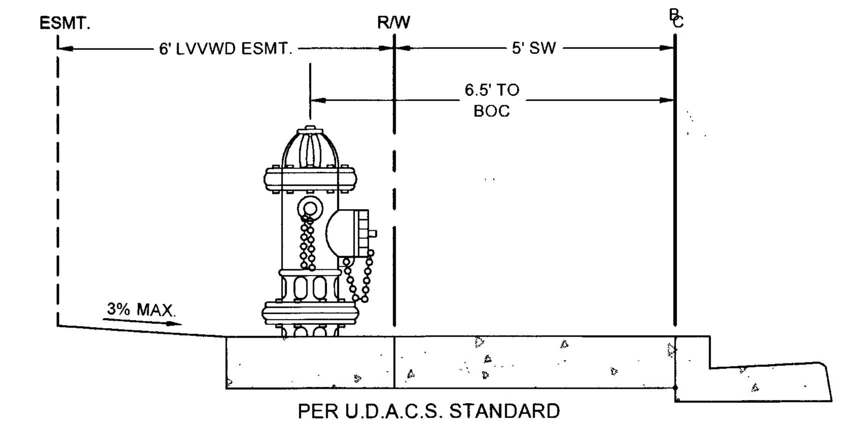
SHEET TITLE
PLAN & PROFILE

SHEET NUMBER
C11

PROJ.#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 4:00:58 PM - Alan Whittington
File: P:\BZR011703 - Dorrell Decatur\Civil_CD\BZR011703-PNP.dwg, Tab: C11 - P&P Cinder Horse

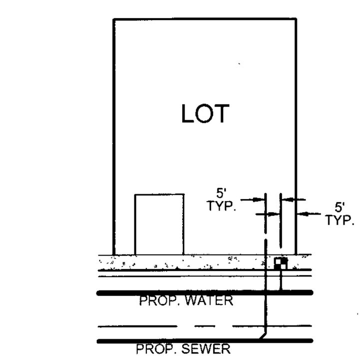




1 FIRE HYDRANT DETAIL W/ SIDEWALK

NOT TO SCALE USD #516

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE #40



TYP. UTILITY LOCATION

NTS

UTILITY NOTE

- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE PUBLIC AND/OR PRIVATE FIRE HYDRANT(S) USED TO OBTAIN THE FIRE FLOW ARE:
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI.THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE -REDUCING VALVES BE INSTALLED WHENEVER TEH PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

PRIVATE WELLS (WITH REVOCABLE RIGHTS) TO BE REMOVED FROM SERVICE

THE EXISTING PRIVATE WELL IS TO BE ABANDONED. THE DISTRICT WATER SERVICE WILL REMAIN IN THE OFF AND LOCKED POSITION UNTIL THE WELL HAS BEEN ABANDONED. THE STATE OF NEVADA DIVISION OF WATER RESOURCES (TELEPHONE NUMBER 702-486-2770) MAY BE CONTACTED FOR INFORMATION CONCERNING REQUIREMENTS AND PROCEDURES FOR ABANDONING WELLS. PROOF FROM THE STATE THAT THE WELL HAS BEEN ABANDONED AND IS NO LONGER FUNCTIONAL WILL BE REQUIRED AS A CONDITION OF PROJECT ACCEPTANCE AND SERVICE ACIVATION.
GWMP# 13734, 15395, 15396, & 15398
(ABANDONED PER WELL DRILLERS LOG REPORT # 65288, 39116, 38163, 65289)

KEY MAP

SCALE: NTS

UTILITY LEGEND

— — —	EXISTING RIGHT-OF-WAY/PROPERTY LINE
— - —	EXISTING CENTER LINE
EX. WATER LINE	EXISTING WATER LINE (SIZE PER PLAN)
EX. SEWER LINE	EXISTING SEWER LINE (SIZE PER PLAN)
EX. GAS LINE	EXISTING GAS LINE (SIZE PER PLAN)
———	PROPOSED WATER LINE (SIZE PER PLAN)
——▶	PROPOSED SANITARY SEWER LINE (SIZE PER PLAN)
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
Ⓢ	PROPOSED SEWER MANHOLE
	EXISTING FIRE HYDRANT
Ⓢ	EXISTING SEWER MANHOLE
	EXISTING LIGHT W/ POLE & BASE

SEWER CONTRIBUTION

FACILITY TYPE: RESIDENTIAL

TOTAL RESIDENTIAL LOTS AT BUILD OUT: 57

57 UNITS x 250 GPD/UNIT / 1,000,000 = 0.01425 MGD (AVERAGE)

0.01425 x 3.5 = 0.049875 MGD (PEAK)

0.049875 x 1.25 =0.06234375 MGD (WET PEAK)

FIRE FLOW CALCULATION

USE/OCCUPANCY: R-3
TYPE OF CONSTRUCTION: VB
FIRE FLOW: 1750 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS: NO
NFPA 13:__13R:__13D:__ESFR:___
SQUARE FOOTAGE: 3909 SF
LARGEST AREA BETWEEN 4 HOUR WALLS: N/A
BUILDING HEIGHT: 26'
OF STORIES INCLUDING BASEMENT: 2
HIGH PILED COMBUSTIBLE STORAGE: NO
OF HYDRANTS INSTALLED: 3

WATER METER NOTE

57 RESIDENTIAL LOT WATER METERS ARE TO BE 3/4".
2 COMMON LOT WATER METERS ARE TO BE 3/4".

DISCLAIMER NOTE

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FAST Call before you Underground 1-702-432-5300 FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

SEWER MANHOLE TABLE

MH #	RIM	INV. IN	INV. OUT	NORTHING	EASTING
SSMH #1	2307.658	2297.73 (W) 2297.73 (N)	2297.53 (E)	11327.4161	9351.1485
SSMH #2	2308.788	2299.51 (W) 2299.51 (N)	2299.31 (S)	11597.1479	9347.9609
SSMH #3	2310.548		2303.70 (S)	11948.9240	9343.8337
SSMH #4	2310.149	2301.00 (W) 2301.00 (N)	2300.80 (E)	11582.9952	9090.5615
SSMH #5	2311.750		2304.90 (S)	11972.7310	9082.9624
SSMH #6	2311.649	2302.57 (N)	2302.37 (E)	11567.9980	8817.8020
SSMH #7	2313.030		2306.44 (S)	11954.8505	8810.2591

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALLS, OR FENCE TREES, SHRUBS. OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

LAS VEGAS FIRE & RESCUE DATE 10-19-17

APPROVED FOR CONSTRUCTION

Dianne Ocon for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11.09.17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

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MASTER UTILITY PLAN
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER - STATE OF NEVADA
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
MASTER UTILITY

SHEET NUMBER
C12

L17-00646
CLV# 107X5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 4:01:06 PM - Alan Whittington
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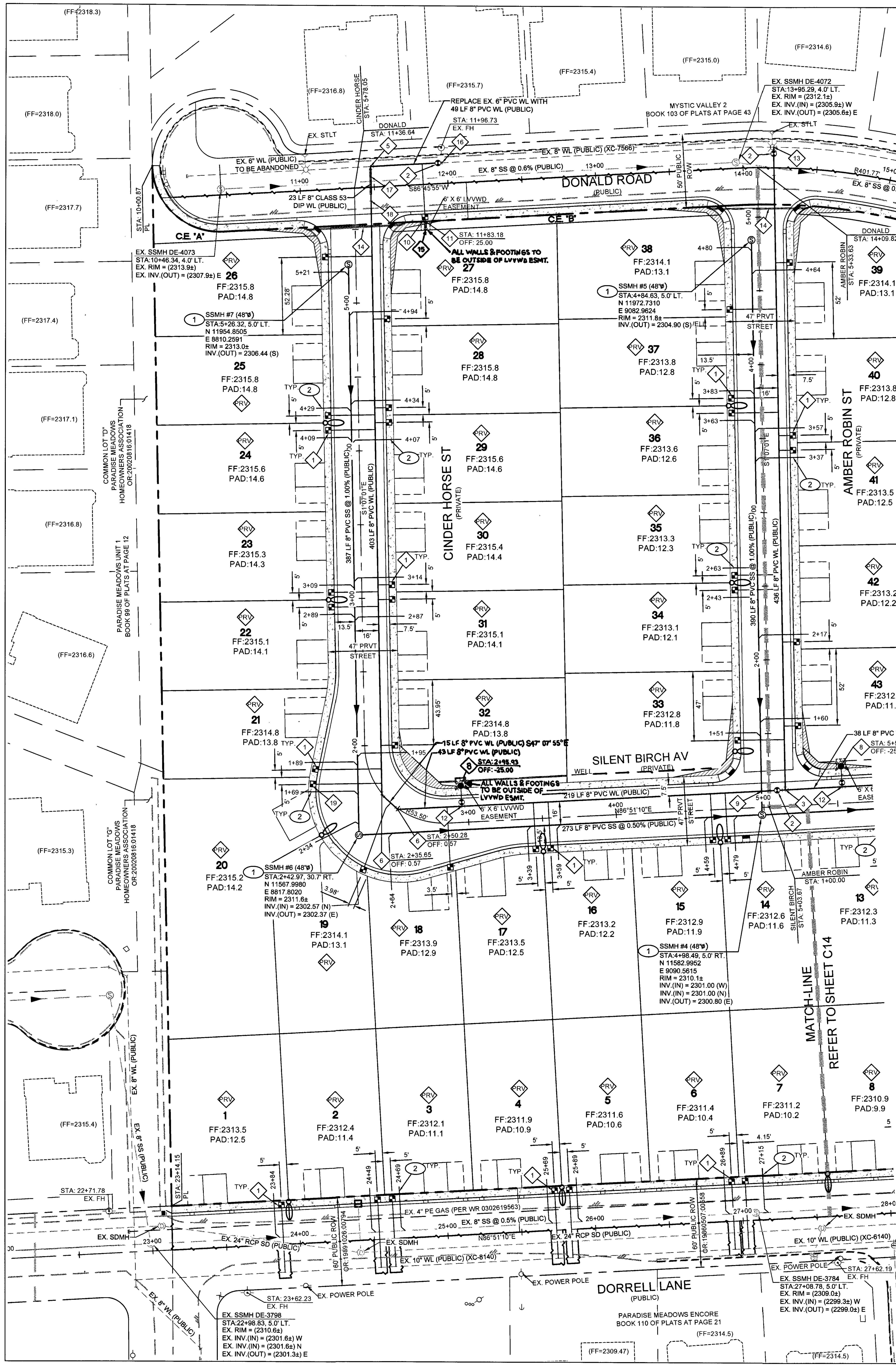


WATER CONSTRUCTION NOTES

1. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #1.
2. INSTALL 8" GATE VALVE PER UDACS PLATES #30 AND #39.
3. INSTALL 8" TEE W/ THRUST BLOCK PER UDACS PLATES #31
4. INSTALL 10" X 8" TEE W/ VALVE PER UDACS PLATE #30, 31, 39
5. INSTALL 8" 90° BEND W/ THRUST BLOCK PER UDACS PLATE #31
6. INSTALL 8" 45° BEND W/ THRUST BLOCK PER UDACS PLATE #31
7. NOT USED
8. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #40
9. MAINTAIN SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER PIPE PER UDACS STANDARD 2.22.02A
10. INSTALL 3/4" WATER METER (IRRIGATION) PER UDACS PLATE #4
11. INSTALL 3/4" RPPA (IRRIGATION) PER UDACS PLATE #8 WITH CURB STOP PER DETAIL "4" ON SHEET C5
12. INSTALL 6" X 8" TEE PER UDACS PLATE #31
13. 8" X 8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS PLATE #34, 39, & 2.24.01A
14. INSTALL 2 - 6" IRRIGATION SLEEVES
15. INSTALL CURB STOP IN 2" BLOWOFF BOX
16. CONNECT TO EXISTING 8" X 6" TEE[1]
17. INSTALL STEEL CASING PER UDACS PLATE #22
18. INSTALL PVC TO DIP COUPLING
19. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #3.

PRV PRESSURE REDUCING VALVE

SEWER CONSTRUCTION NOTES

1. INSTALL 48" STANDARD PRECAST MANHOLE WITH 24" SINGLE LID PER DCSWCS DWG SD-1A, SD-2, SD-1B, SD-4 & SD-5
2. INSTALL 4" PVC SEWER LATERAL @ MINIMUM 2.0% SLOPE, 4" SEWER WYE PER DCSWCS SD-23 & SD-25. STUB AND CAP 4" SEWER LATERAL 5' PAST PROPERTY LINE.
3. INSTALL 48" CAST-IN-PLACE MANHOLE PER DCSWCS DWG SD-4, SD-7, & SD-9. SEE CAST-IN-PLACE MANHOLE NOTE.

UTILITY NOTES:

- SEWER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" LATEST EDITION, WHERE APPLICABLE.
- ALL WATERLINE FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS", (UDACS) LATEST EDITION, .
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.
- FOR ANY UTILITY CUTS, TRENCH BACKFILL PER CCAUSD #503 THAT APPLIES (SEE NEW RTC SPECS)
- DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- ADJUST ALL WATER VALVES BOXES TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
- ADJUST ALL MANHOLES TO FINISHED GRADE.
- ADJUST ALL EXISTING UTILITY BOXES/VAULTS TO FINISHED GRADE.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITIES CROSSING PROPOSED UTILITIES PRIOR TO CONSTRUCTION.
- ENTIRE PROJECT SITE AND ALL PROPOSED LINES ARE PART OF THE 2538 PRESSURE ZONE SYSTEM.
- NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES AND STREETLIGHT POLE, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.
- ELEVATION OF PROPOSED AND EXISTING GAS MAINS ARE NOT KNOWN.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- ALL WATER MAINS TO BE INSTALLED PER UDACS PLATE #17
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE PUBLIC AND/OR PRIVATE FIRE HYDRANT(S) USED TO OBTAIN THE FIRE FLOW ARE:
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI.THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE -REDUCING VALVES BE INSTALLED WHENEVER TEH PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.
- SERVICE LATERALS FOR LOTS: 1 - 10 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.

FIRE FLOW CALCULATION

USE/OCCUPANCY: R-3
TYPE OF CONSTRUCTION: VB
FIRE FLOW: 1750 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS: NO
NFPA 13:__13R:__13D:__ESFR:__
SQUARE FOOTAGE: 3909 SF
LARGEST AREA BETWEEN 4 HOUR WALLS: N/A
BUILDING HEIGHT: 26'
OF STORIES INCLUDING BASEMENT: 2
HIGH PILED COMBUSTIBLE STORAGE: NO
OF HYDRANTS INSTALLED: 3

SCALE: 1"=40'

40 20 0 40

CAST-IN-PLACE SEWER MANHOLE BASE

CAST-IN-PLACE MANHOLE BASE REQUIRED TO CURE FOR A MINIMUM OF 7 DAYS BEFORE MANHOLE COMPONENTS CAN BE SET.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

REDUCED PRESSURE PRINCIPLE ASSEMBLY

(5) 1" (IRRIGATION)

APPROVED REDUCED PRESSURE PRINCIPLE ASSMEBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE #8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCE PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT OF WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCK, BLOCK WALL, OR FENCE

TREES. SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) BACKFLOW ASSEMBLES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

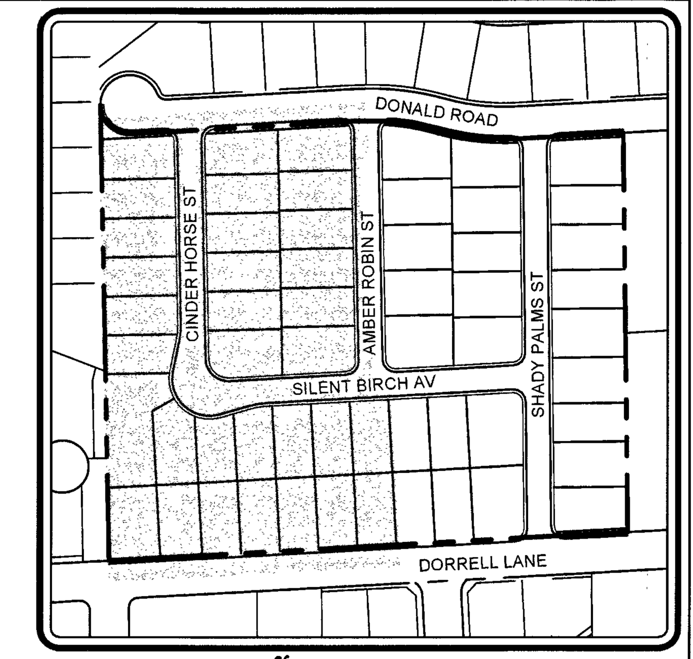
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

LAS VEGAS FIRE & RESCUE 10-19-17 DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11.09.17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL



KEY MAP

SCALE: NTS

UTILITY LEGEND

— — —	EXISTING RIGHT-OF-WAY/PROPERTY LINE
- - - -	EXISTING WATER LINE (SIZE PER PLAN)
—▶—	EXISTING SEWER LINE (SIZE PER PLAN)
———	PROPOSED WATER LINE (SIZE PER PLAN)
——▶——	PROPOSED SANITARY SEWER LINE (SIZE PER PLAN)
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED WATER METER
Ⓢ	PROPOSED SEWER MANHOLE
	PROPOSED SEWER WYE (SIZE AND DIRECTION PER PLAN)
Ⓢ	EXISTING SEWER MANHOLE
	PROPOSED 150W STREETLIGHT
	PROPOSED 100W STREETLIGHT
	EXISTING LIGHT W/ POLE & BASE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

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CCAUSD DWG. NO. 201.2

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CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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Engineering - Surveying - Consulting - Planning

UTILITY PLAN 1
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER STATE OF NEVADA
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
10/19/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
UTILITY

SHEET NUMBER
C13

L17-00640
CLV# 107Y5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

Plot Stamp: 10/18/2017 4:01:18 PM - Alan Whittington
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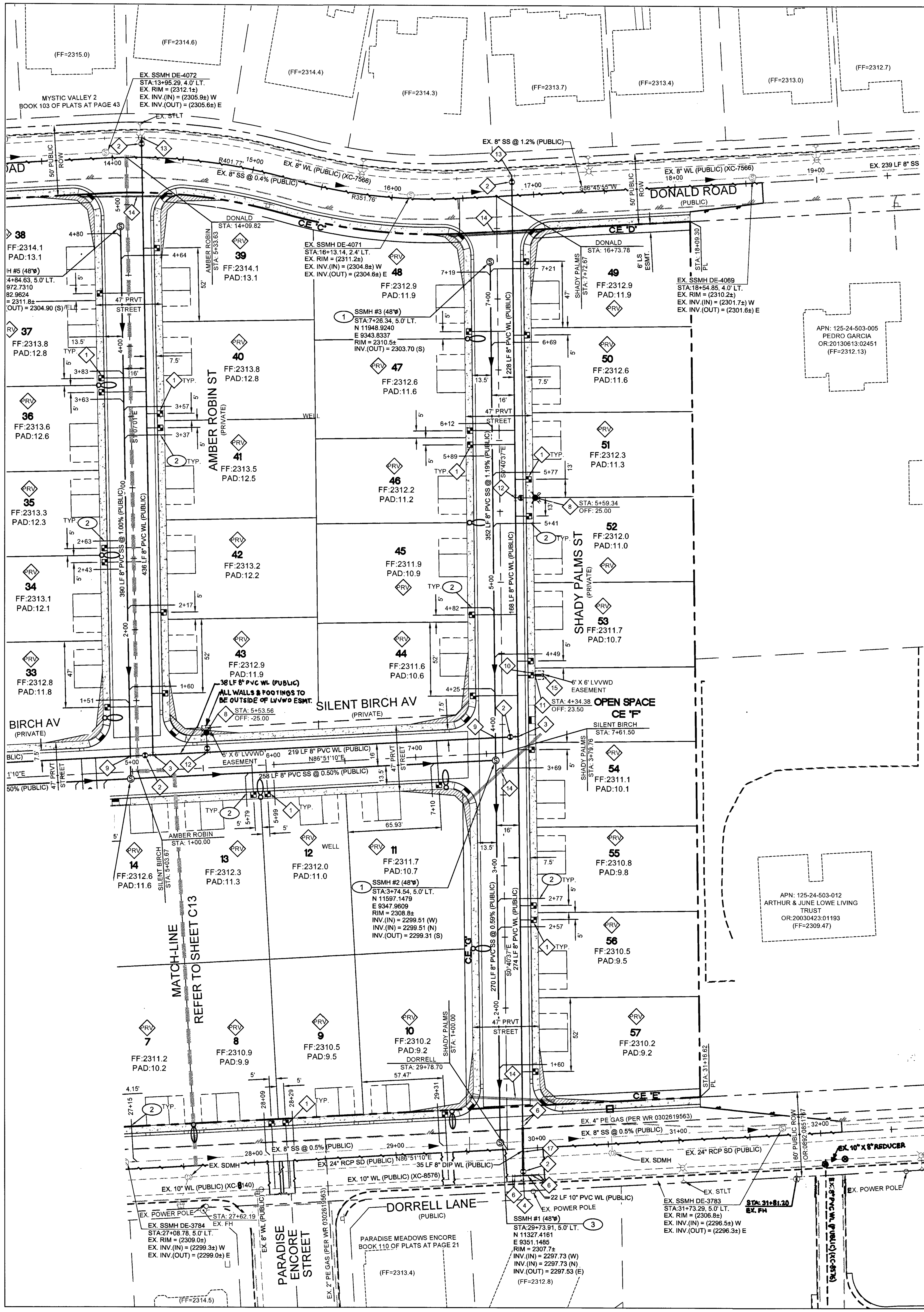

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WATER CONSTRUCTION NOTES

1. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #1.
2. INSTALL 8" GATE VALVE PER UDACS PLATES #30 AND #39.
3. INSTALL 8" TEE W/ THRUST BLOCK PER UDACS PLATES #31
4. INSTALL 10" X 8" TEE W/ VALVE PER UDACS PLATE #30, 31, 39
5. INSTALL 8" 90° BEND W/ THRUST BLOCK PER UDACS PLATE #31
6. INSTALL 8" 45° BEND W/ THRUST BLOCK PER UDACS PLATE #31
7. NOT USED
8. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #40
9. MAINTAIN SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER PIPE PER UDACS STANDARD 2.22.02A
10. INSTALL 3/4" WATER METER (IRRIGATION) PER UDACS PLATE #4
11. INSTALL 3/4" RPPA (IRRIGATION) PER UDACS PLATE #8 WITH CURB STOP PER DETAIL "4" ON SHEET C5
12. INSTALL 6" X 8" TEE PER UDACS PLATE #31
13. 8" X 8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS PLATE #34, 39, & 2.24.01A
14. INSTALL 2 - 6" IRRIGATION SLEEVES
15. INSTALL CURB STOP IN 2" BLOWOFF BOX
16. CONNECT TO EXISTING 8" X 6" TEE
17. INSTALL STEEL CASING PER UDACS PLATE #22
18. INSTALL PVC TO DIP COUPLING
19. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #3.

PRV PRESSURE REDUCING VALVE

SEWER CONSTRUCTION NOTES

1. INSTALL 48" STANDARD PRECAST MANHOLE WITH 24" SINGLE LID PER DCSWCS DWG SD-1A, SD-2, SD-1B, SD-4 & SD-5
2. INSTALL 4" PVC SEWER LATERAL @ MINIMUM 2.0% SLOPE, 4" SEWER WYE PER DCSWCS SD-23 & SD-25. STUB AND CAP 4" SEWER LATERAL 5' PAST PROPERTY LINE.
3. INSTALL 48" CAST-IN-PLACE MANHOLE PER DCSWCS DWG SD-4, SD-7, & SD-9. SEE CAST-IN-PLACE MANHOLE NOTE.

UTILITY NOTES:

- SEWER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" LATEST EDITION, WHERE APPLICABLE.
- ALL WATERLINE FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS", (UDACS) LATEST EDITION, .
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.
- FOR ANY UTILITY CUTS, TRENCH BACKFILL PER CCAUSD #503 THAT APPLIES (SEE NEW RTC SPECS)
- DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- ADJUST ALL WATER VALVES BOXES TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
- ADJUST ALL MANHOLES TO FINISHED GRADE.
- ADJUST ALL EXISTING UTILITY BOXES/VAULTS TO FINISHED GRADE.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITIES CROSSING PROPOSED UTILITIES PRIOR TO CONSTRUCTION.
- ENTIRE PROJECT SITE AND ALL PROPOSED LINES ARE PART OF THE 2538 PRESSURE ZONE SYSTEM.
- NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES AND STREETLIGHT POLE, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.
- ELEVATION OF PROPOSED AND EXISTING GAS MAINS ARE NOT KNOWN.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- ALL WATER MAINS TO BE INSTALLED PER UDACS PLATE #17
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE PUBLIC AND/OR PRIVATE FIRE HYDRANT(S) USED TO OBTAIN THE FIRE FLOW ARE:
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI.THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE -REDUCING VALVES BE INSTALLED WHENEVER TEH PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.
- SERVICE LATERALS FOR LOTS: 1 - 10 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.

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LAS VEGAS FIRE & RESCUE — DATE 10-19-17

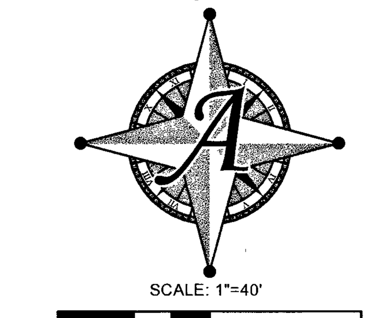
APPROVED FOR CONSTRUCTION

Jeanne Dean for DLM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11.09.17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

FIRE FLOW CALCULATION

USE/OCCUPANCY: R-3
TYPE OF CONSTRUCTION: VB
FIRE FLOW: 1750 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS: NO
NFPA 13:__13R:__13D:__ESFR:__
SQUARE FOOTAGE: 3909 SF
LARGEST AREA BETWEEN 4 HOUR WALLS: N/A
BUILDING HEIGHT: 26'
OF STORIES INCLUDING BASEMENT: 2
HIGH PILED COMBUSTIBLE STORAGE: NO
OF HYDRANTS INSTALLED: 3



CAST-IN-PLACE SEWER MANHOLE BASE

CAST-IN-PLACE MANHOLE BASE REQUIRED TO CURE FOR A MINIMUM OF 7 DAYS BEFORE MANHOLE COMPONENTS CAN BE SET.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

REDUCED PRESSURE PRINCIPLE ASSEMBLY

(5) 1" (IRRIGATION)

APPROVED REDUCED PRESSURE PRINCIPLE ASSMEBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE #8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCE PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT OF WAY.

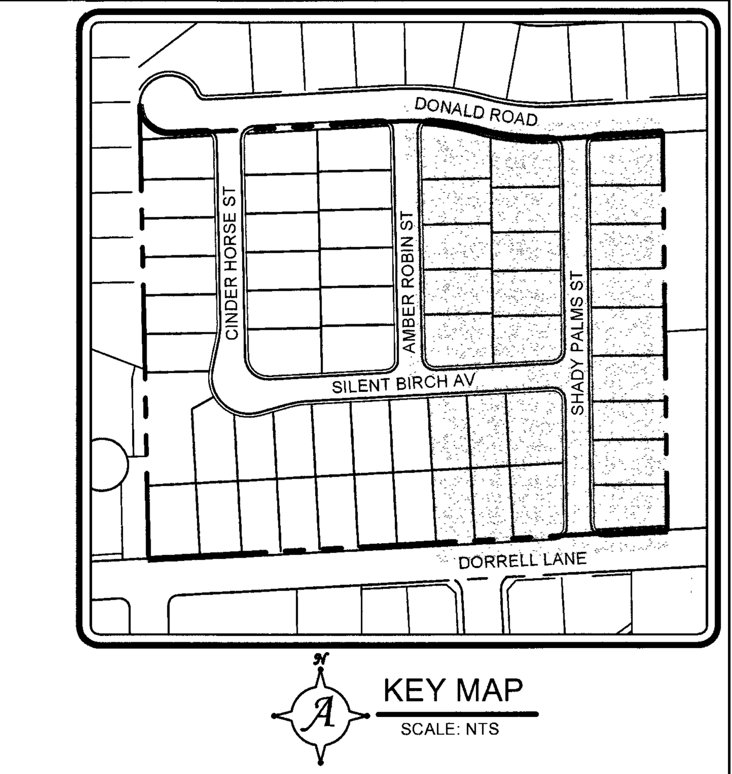
EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCK, BLOCK WALL, OR FENCE

TREES. SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) BACKFLOW ASSEMBLES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.



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UTILITY PLAN 2
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/17 — CIVIL — No. 17516 — 10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
UTILITY

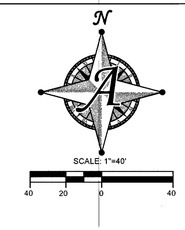
SHEET NUMBER
C14

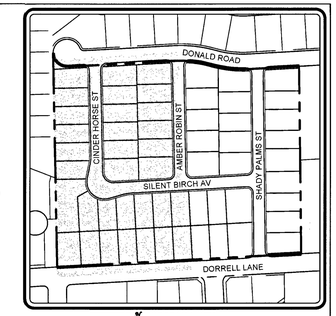
L17-00646
CLV# 107Y5067-1

PROJ#:125821 AGR:116514 QS:125-24-NE XC: 11366

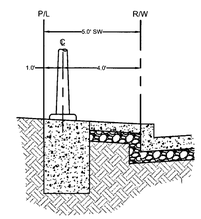
LINE TABLE		
LINE #	LENGTH	BEARING
L1	4.24'	N63° 29' 55"W
L2	627.96'	N86° 51' 10"E
L3	196.18'	N0° 40' 37"W
L4	382.55'	S86° 51' 10"W
L5	50.54'	S74° 07' 15"W
L6	50.54'	N11° 36' 54"E
L7	283.77'	N1° 07' 01"W
L8	50.30'	S86° 45' 55"W
L9	196.13'	S86° 45' 55"W
L10	355.28'	N1° 07' 01"W
L11	180.58'	N86° 51' 10"E
L12	339.44'	S1° 07' 01"E
L13	314.49'	N0° 40' 37"W
L14	181.06'	N86° 51' 10"E
L15	351.72'	S1° 07' 01"E
L16	98.99'	S86° 45' 55"W
L17	587.65'-	S0° 40' 37"E
L18	97.23'	N86° 51' 10"E

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	30.55'	20.00'	87.53"	19.16
C2	32.28'	20.00'	92.47"	20.88
C3	22.22'	100.00'	12.73"	11.16
C4	116.89'	57.00'	117.49"	93.92
C5	22.22'	100.00'	12.73"	11.16
C6	32.16'	20.00'	92.12"	20.75
C7	65.11'	40.50'	92.12"	42.03
C8	30.68'	20.00'	87.88"	19.27
C9	32.16'	20.00'	92.12"	20.75
C10	30.71'	20.00'	87.97"	19.30
C11	56.22'	35.00'	92.03"	36.26
C12	33.53'	20.00'	96.06"	22.24
C13	72.76'	381.77'	10.92"	36.49
C14	111.59'	371.76'	17.20"	56.22
C15	31.65'	20.00'	90.66"	20.23
C16	30.55'	20.00'	87.53"	19.16
C17	32.12'	20.00'	92.03"	20.72
C18	30.52'	20.00'	87.44"	19.13
C19	32.28'	20.00'	92.47"	20.88

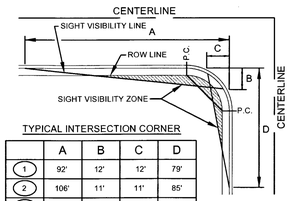




KEY MAP
SCALE: NTS



STREETLIGHT DETAIL W/ SW
NTS



TYPICAL INTERSECTION CORNER

	A	B	C	D
1	92'	12'	12'	79'
2	106'	11'	11'	85'
3	85'	11'	11'	97'
4	91'	12'	11'	75'
5	87'	11'	12'	79'

SIGHT VISIBILITY RESTRICTION ZONES

CCAUSD DWG. NO. 201.2

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

TRAFFIC CONTROL / FIRE PLAN LEGEND

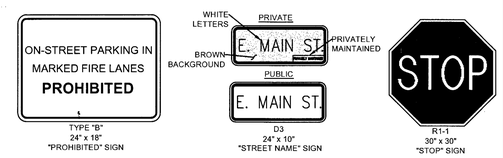
- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED "L" TYPE CURB
- EXISTING "L" TYPE CURB
- PROPOSED FIRE STRIPING
- PROPOSED 150W STREETLIGHT
- PROPOSED 100W STREETLIGHT
- EXISTING STREETLIGHT
- PROPOSED STREET SIGN
- EXISTING STREET SIGN
- PROPOSED BLUE REFLECTIVE MARKER
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT

TRAFFIC CONSTRUCTION NOTES:

1. INSTALL R1-1 STOP SIGN (30") AND 2 PRIVATE D3 (9") STREET SIGN PER CCAUSD # 249.1 (SIGN TO BE PRIVATELY MAINTAINED)
2. REMOVE EXISTING TRAFFIC SIGN. ALL REMOVED SIGNS MUST BE RETURNED TO CITY OF LAS VEGAS PUBLIC WORKS
3. INSTALL 100W (LED EQUIVALENT) STREETLIGHT AND FOUNDATION PER CCAUSD #314, #320, AND #321.
4. INSTALL 150W (LED EQUIVALENT) STREETLIGHT AND FOUNDATION PER CCAUSD #314, #320, AND #321.
5. INSTALL 1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 THW COPPER CONDUCTORS AND PULL STRING
6. INSTALL #3 CONDUIT BOX
7. INSTALL NEW 200 AMP SERVICE PEDESTAL FOR STREET LIGHTING PER CCAUSD #330, 331, 332.1, &335.1
8. INSTALL R1-1 STOP SIGN (30") AND 1 PUBLIC & 1 PRIVATE D3 (9") STREET SIGN PER CCAUSD # 249.1 (SIGN TO BE PRIVATELY MAINTAINED) WITH TYPE "B" "PROHIBITED SIGN

FIRE CONSTRUCTION NOTES:

1. INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT (16) FEET FROM FACE OF CURB ON THE HYDRANT SIDE PER SECTION 507.5.7.3 OF THE INTERNATIONAL FIRE CODE OF SNFC AMENDMENTS.
2. PROPOSED FIRE HYDRANT LOCATION.
3. PAINT ENTIRE STREET SIDE CURB RED WITH TYPE "C" "NO PARKING FIRE LANE" STENCILED OVER FACE OF CURB AT A MAXIMUM SPACING OF 50' PER SECTION 507.5.7.2 OF THE INTERNATIONAL FIRE CODE.
4. INSTALL TYPE "B" "PROHIBITED" SIGN AT THE CURB RETURN OF ALL ENTRANCE STREETS



BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

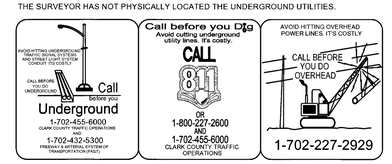
ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING; PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



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TRAFFIC PLAN 1
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER
DARRYL C. LATTIMORE
EXP: 12/31/17
CIVIL
No. 17516
STATE OF NEVADA
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
TRAFFIC

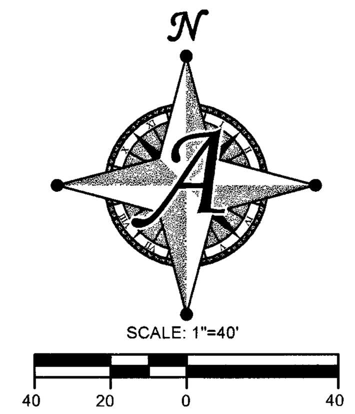
SHEET NUMBER
C15

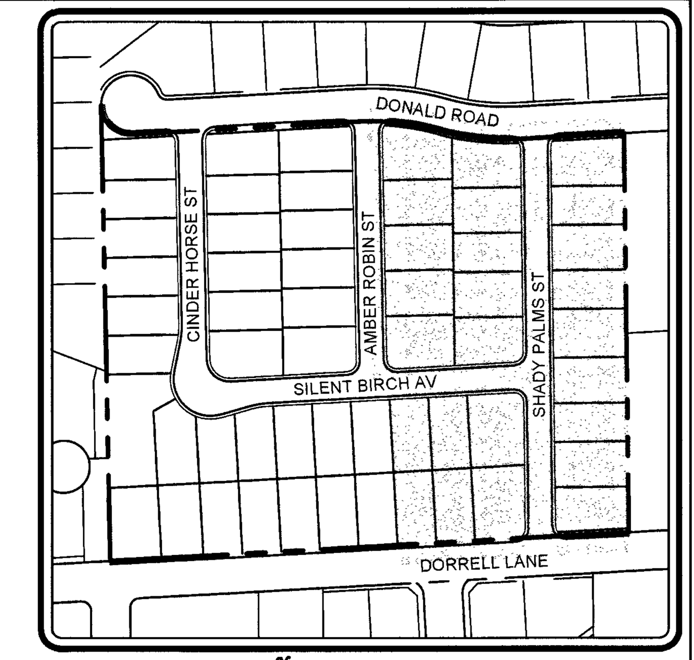
LD7-00646
CLV# 107X5067-1

Plot Stamp: 10/18/2017 4:01:29 PM - Alan Whittington
File: P:\BZR011703 - Dorrell Decatur\Civil_CD\BZR011703-TRAF.dwg, Tab: C15 - Traffic 1

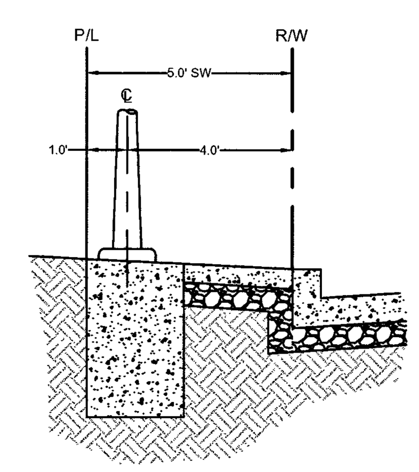
LINE TABLE		
LINE #	LENGTH	BEARING
L1	4.24'	N63° 29' 55"W
L2	627.96'	N86° 51' 10"E
L3	196.18'	N0° 40' 37"W
L4	382.55'	S86° 51' 10"W
L5	50.54'	S74° 07' 15"W
L6	50.54'	N11° 36' 54"E
L7	283.77'	N1° 07' 01"W
L8	50.30'	S86° 45' 55"W
L9	196.13'	S86° 45' 55"W
L10	355.28'	N1° 07' 01"W
L11	180.58'	N86° 51' 10"E
L12	339.44'	S1° 07' 01"E
L13	314.49'	N0° 40' 37"W
L14	181.06'	N86° 51' 10"E
L15	351.72'	S1° 07' 01"E
L16	98.99'	S86° 45' 55"W
L17	587.65'	S0° 40' 37"E
L18	97.23'	N86° 51' 10"E

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	30.55'	20.00'	87.53°	19.16
C2	32.28'	20.00'	92.47°	20.88
C3	22.22'	100.00'	12.73°	11.16
C4	116.89'	57.00'	117.49°	93.92
C5	22.22'	100.00'	12.73°	11.16
C6	32.16'	20.00'	92.12°	20.75
C7	65.11'	40.50'	92.12°	42.03
C8	30.68'	20.00'	87.88°	19.27
C9	32.16'	20.00'	92.12°	20.75
C10	30.71'	20.00'	87.97°	19.30
C11	56.22'	35.00'	92.03°	36.26
C12	33.53'	20.00'	96.06°	22.24
C13	72.76'	381.77'	10.92°	36.49
C14	111.59'	371.76'	17.20°	56.22
C15	31.65'	20.00'	90.66°	20.23
C16	30.55'	20.00'	87.53°	19.16
C17	32.12'	20.00'	92.03°	20.72
C18	30.52'	20.00'	87.44°	19.13
C19	32.28'	20.00'	92.47°	20.88

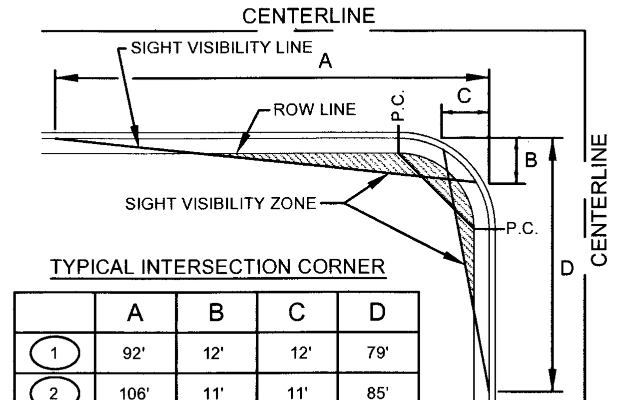




KEY MAP
SCALE: NTS



STREETLIGHT DETAIL W/ SW
NTS



TYPICAL INTERSECTION CORNER

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SIGHT VISIBILITY RESTRICTION ZONES
CCAUSD DWG. NO. 201.2

SIGHT VISIBILITY ZONE NOTE

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PRIVATE STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "SP-1"

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6272 TO PERFORM CIRCUIT CAPACITY VERIFICATION.
	(NO)	INSTALL A NEW PEDESTAL.

SERVICE PEDESTAL LOCATION: SILENT BIRCH AV @ STA: 5+86.07

CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION	

ENGINEER OF THE OFFSITE PLANS

PERSON WHO DID THE CALCULATIONS:	RLS
CONSULTING ENGINEERING FIRM:	ACTUS

CAPACITY CALCULATIONS

1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	AVAILABLE (2 MINUS 3)	48	AMPS
	PROPOSED LUMINAIRE LOAD TO CIRCUIT:		
5	13 NUMBER OF 100 WATT STLTS @ 1 AMPS/EA	13	AMPS
6	TOTAL PROPOSED ADDITIONAL LOAD	13	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 6)	35	AMPS

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "SP-2"

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6272 TO PERFORM CIRCUIT CAPACITY VERIFICATION.
	(NO)	INSTALL A NEW PEDESTAL.

SERVICE PEDESTAL LOCATION: DORRELL LANE @ STA: 30+63.10

CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION	

ENGINEER OF THE OFFSITE PLANS

PERSON WHO DID THE CALCULATIONS:	RLS
CONSULTING ENGINEERING FIRM:	ACTUS

CAPACITY CALCULATIONS

1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	AVAILABLE (2 MINUS 3)	48	AMPS
	PROPOSED LUMINAIRE LOAD TO CIRCUIT:		
5	4 NUMBER OF 150 WATT STLTS @ 1.0 AMPS/EA	4	AMPS
6	TOTAL PROPOSED ADDITIONAL LOAD	4	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 6)	44	AMPS

TRAFFIC CONTROL / FIRE PLAN LEGEND

- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED "L" TYPE CURB
- EXISTING "L" TYPE CURB
- PROPOSED FIRE STRIPING
- PROPOSED 150W STREETLIGHT
- PROPOSED 100W STREETLIGHT
- EXISTING STREETLIGHT
- PROPOSED STREET SIGN
- EXISTING STREET SIGN
- PROPOSED BLUE REFLECTIVE MARKER
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT

TRAFFIC CONSTRUCTION NOTES:

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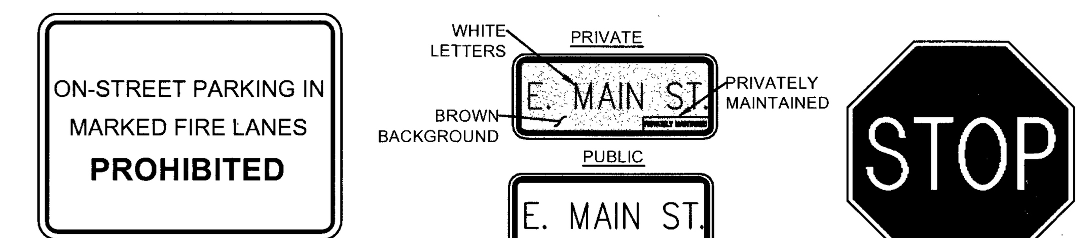
2. PROPOSED FIRE HYDRANT LOCATION.
3. PAINT ENTIRE STREET SIDE CURB RED WITH TYPE "C" "NO PARKING FIRE LANE" STENCILED OVER FACE OF CURB AT A MAXIMUM SPACING OF 50' PER SECTION 507.5.7.2 OF THE INTERNATIONAL FIRE CODE.
4. INSTALL TYPE "B" "PROHIBITED" SIGN AT THE CURB RETURN OF ALL ENTRANCE STREETS



TYPE "B"
24" x 18"
"PROHIBITED" SIGN

D3
24" x 10"
"STREET NAME" SIGN

R1-1
30" x 30"
"STOP" SIGN

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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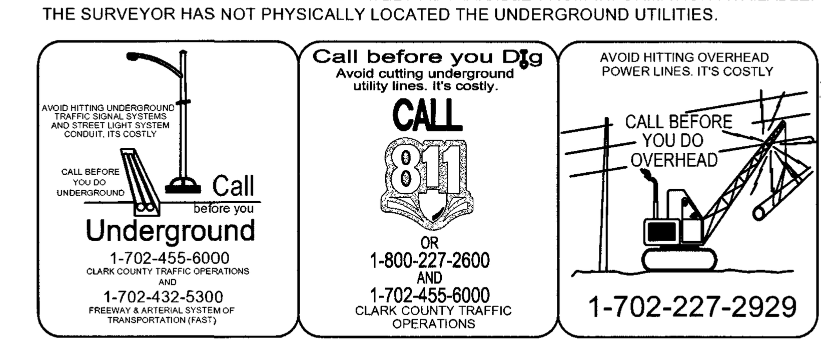

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TRAFFIC PLAN 2
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER STATE OF NEVADA DARRYL C. LATTIMORE EXP: 12/31/17 CIVIL No. 17516
10/18/17

DATE	10-18-2017
DRAWN	RLS
DESIGNED	ALW
CHECKED	DCL
PROJECT #	BZR011703

SHEET TITLE
TRAFFIC

SHEET NUMBER
C16

L17-00646
CLV# 107Y5067-1

Plot Stamp: 10/18/2017 4:01:36 PM - Alan Whittington
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