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 MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO 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, SEWER 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 POSITIONAL 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.

SOUTHERN NEVADA-SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12- INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIESAND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.

DEVIATIONS FROM STANDARDS

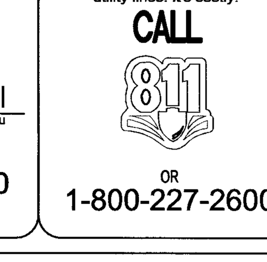
NONE.

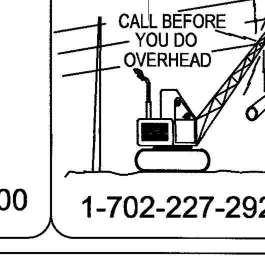
SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

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.





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.

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.

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.

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)

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 32003C1765F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

DRAINAGE FACILITIES QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
48" CLASS III RCP STORM DRAIN PIPE	LF	9	-
36" CLASS III RCP STORM DRAIN PIPE	LF	20	-
18" CLASS III RCP STORM DRAIN PIPE	LF	3	-
20' TYPE CM2 DROP INLET	EA	2	-
12.5' TYPE DM2 DROP INLET	EA	1	-

STREET QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
2.5" AC	SY	-	1132
3.5" AC	SY	1037	-
5.5" AC	SY	1078	-
TYPE II GRAVEL	CY	615	190
"L" CURB & GUTTER	LF	475	-
R TYPE CURB & GUTTER	LF	-	494
CONCRETE VALLEY GUTTER	SF	900	-
4-INCH CONCRETE SIDEWALK	SF	-	2657
5-INCH CONCRETE SIDEWALK	SF	2356	-
WATER SERVICE TO LOTS	EA	9	-
POWER TO LOTS	EA	8	-
SURVEY MONUMENTS	EA	5	-
ADA RAMPS	EA	3	-
SIDEWALK UNDERDRAIN	EA	3	-
PAVEMENT STRIPING - ARTERIAL	LF	440	-

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 THE CONTRACTORS MATERIAL TEST CERTIFICATE FOR THE UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
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.
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS.
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 THE PRIOR FIRE PREVENTION APPROVAL.
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.
8. PAINTING OF THE 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.
9. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST MUST BE WITNESSED BY LAS VEGAS FIRE AND RESCURE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS:
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED
12. WHERE NEW 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 MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR 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.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
15. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS 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.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FEET 6 INCHES.
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FEET FLOW-LINE TO FLOW-LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FEET WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FEET WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FEET.
24. A FIRE DEPARTMENT ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FEET IF THE BUILDING IS SPRIKLERED.
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 FEET. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA.
26. ALL DEAD-END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET.
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 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS NOT PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
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 APENDIX M.

LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT NO.: 135002

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE 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 AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
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 APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF 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 AN 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 WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH LEAD FREE APPROVED PRODUCTS. THE OLD LEADED PRODUCTS MAY NOT BE REUSED.

WATER QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
WATER LATERAL	LF	175	-
12" PVC WATER	LF	381	-
8" PVC WATER	LF	169	-
6" PVC WATER	LF	101	-
8" GATE VALVE	EA	2	-
8" TAPPING SLEEVE W/ TAPPING VALVE	EA	1	-
6" x 8" REDUCER W/ THRUST BLOCK	EA	1	-
CAP W/ 2" BLOW-OFF ASSEMBLY	EA	2	-
3/4" METERS (DOMESTIC)	EA	8	-
3/4" METER (IRRIGATION)	EA	1	-
1" RPPA (IRRIGATION)	EA	1	-
FIRE HYDRANT ASSEMBLY	EA	2	-
12"x8" TEE W/ THRUST BLOCK	EA	1	-
12"x45° BEND	EA	1	-
12"x6" TEE W/ THRUST BLOCK	EA	1	-
PRESSURE REDUCING VALVE	EA	8	-
6"x90° BEND	EA	1	-
WATER MAIN TAP	EA	1	-
FLUSHING VALVE ASSMBLY	EA	1	-
12" x 8" REDUCER W/ THRUST BLOCK	EA	1	-

TRAFFIC CONTROL QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
TRAFFIC SIGNS	EA	9	-
1-1/4" STREETLIGHT CONDUIT	LF	276	-
2" STREETLIGHT CONDUIT	LF	338	-
200A SERVICE PEDESTAL	EA	2	-
4" INTERCONNECT CONDUIT	LF	339	-
100W STREETLIGHT	EA	2	-
250W STREETLIGHT	EA	3	-
3-1/2 PULLBOX	EA	2	-

DRY UTILITIES & OTHER IMPROVEMENTS

DESCRIPTION	UNIT	PUBLIC	PRIVATE
RELOCATE OVERHEAD POWER	LF	216	-
CABLE TO LOTS	EA	8	-
GAS TO LOTS	EA	8	-
PHONE TO LOTS	EA	8	-
POWER TO LOTS	EA	8	-
ADJUST UTILITY VALVES	EA	1	-
LANDSCAPE IMPROVEMENTS	EA	1	-

SEWER QUANTITIES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
8" PVC	LF	232	-
4" PVC LATERAL	LF	199	-
48" SEWER MH	EA	1	-
72" SEWER MH	EA	1	
MANHOLE ADJUSTMENTS	EA	1	-
BACK WATER VALVE	EA	1	-
SEWER MAIN TAP	EA	1	-
4" PVC LATERAL - C900	LF	82	-

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 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	D	D
POWER MANHOLE	E	E
SANITARY MANHOLE	S	S
SIGN		

ABBREVIATIONS

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

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/20/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SHEETS:
C1, C2, C4 THRU C9

L18-00903
107Y5067-2

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GENERAL NOTES
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — 7/23/18

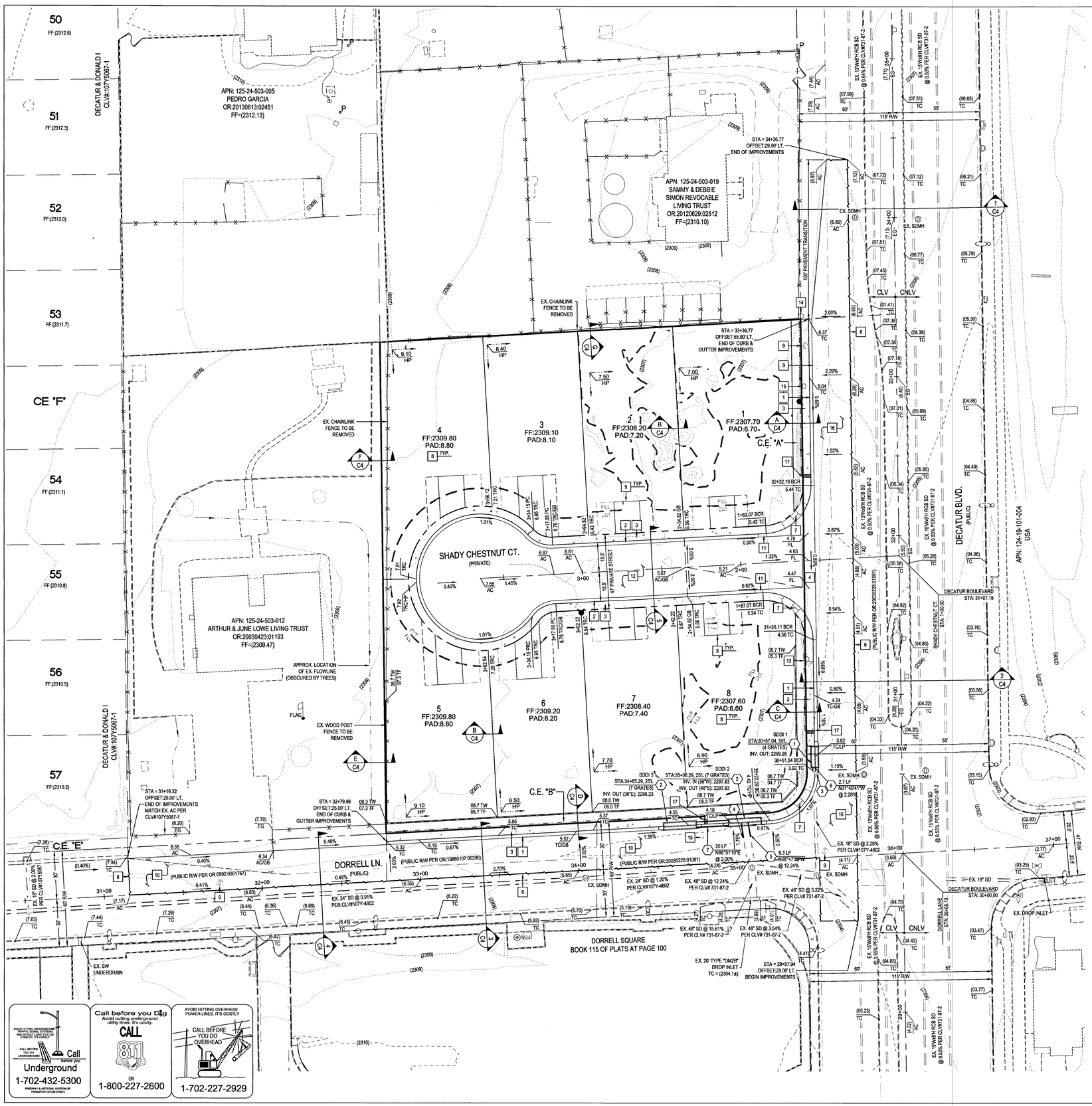
DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

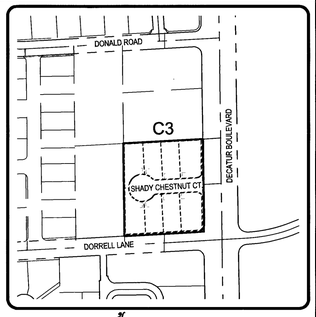
SHEET TITLE
GENERAL NOTES

SHEET NUMBER
C2

PROJ#:135002-A QS:125-24-NE

Plot Stamp: 7/23/2018 1:30:04 PM - Roland Frye
File: P:\BZR011803 - Decatur Donald II\Civil_CD\BZR011803-COVR.dwg, Tab: GENERAL NOTES





KEY MAP
SCALE: NTS

SCALE: 1"=30'

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
2. CONSTRUCT "R" TYPE CURB AND GUTTER PER CCAUSD #217.3.S1
3. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234
4. CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD #228
5. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "B" ON SHEET C4
6. MATCH EXISTING ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER. SAWCUT CLEAN EDGE FOR CONNECTION
7. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED
8. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "6" ON SHEET C4
9. ADJUST EXISTING MANHOLE TO GRADE
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. 5' TRANSITION "L" CURB TO "R" CURB PER DETAIL "7" ON SHEET C4
12. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
13. EXISTING POWER/UTILITY POLE TO BE REMOVED, RESET OR RELOCATED AS SHOWN PER NV ENERGY PLANS
14. EXISTING POWER/UTILITY POLE TO BE PROTECTED IN PLACE
15. EXISTING UTILITY TO BE ADJUSTED TO GRADE
16. INSTALL 5.5" AC OVER 13" TYPE II AGGREGATE BASE
17. CONSTRUCT SIDEWALK DRAIN PER CCAUSD #236

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
2. CONSTRUCT 20' TYPE "CM2" DROP INLET PER CCAUSD #412.1, AND #421
3. REMOVE EXISTING DROP INLET
4. REMOVE EXISTING PRECAST CONCRETE RCP CAP & CONNECT TO EXISTING STORM DRAIN STUBOUT
5. INSTALL 48" CLASS III RCP (PUBLIC)
6. INSTALL 18" CLASS III RCP (PUBLIC)
7. INSTALL 36" CLASS III RCP (PUBLIC)

GRADING NOTES

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. 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 UP 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.
3. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
4. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.

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.

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAT 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.

PLEASE REFER TO TRAFFIC SHEET C10 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 1710053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

STORM DRAIN CONNECTIONS NOTE

WHEN CONNECTING TO EXISTING RCP, CONTRACTOR SHALL REMOVE THE EXISTING RCP TO THE NEAREST BELL CONNECTION, CONNECT NEW RCP TO EXISTING RCP AND MATCH EXISTING PIPE SLOPE.

LEGEND

PROPOSED	EXISTING	
		PUBLIC ROW LINE
		PRVT STREET/PROPERTY LINE
		BOUNDARY/PROPERTY 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 SURFACE PER PLAN
		PROPOSED ASPHALT
		REMOVE AND REPLACE EX. ASPHALT
		MATCH LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TRC		TOP OF "R" TYPE CURB
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
PRIV. ST.		PRIVATE STREET
TYP.		TYPICAL
1.00%		GRADE SLOPE
C / C4		SECTION MARKER-DETAIL NUMBER ABOVE SHEET NUMBER
		SIGHT VISIBILITY ZONE
FILL / CUT		CUT / FILL LINE

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 (NAVD88 2008 ADJUSTMENT)
ELEVATION = 2304-51 US SURVEY FEET (NAV88 2008 ADJUSTMENT)

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 32003C1765F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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 2012 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE CITY OF LAS VEGAS PRIOR TO CITY OF LAS VEGAS APPROVAL AT FINAL INSPECTION.

CUT: 1,247 CY
FILL: 1,414 CY
BALANCE: 167 CY (FILL)

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.

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 CLV# DS4975 ON FILE WITH THE CITY OF LAS VEGAS.

DARRYL LATTIMORE, P.E. — DATE 7/25/18

L18-00903
107Y5067-2

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3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
www.Actus-NV.com
(702) 586-9296
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GRADING PLAN
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY
1			

PROFESSIONAL ENGINEER — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — STATE OF NEVADA — 7/25/18

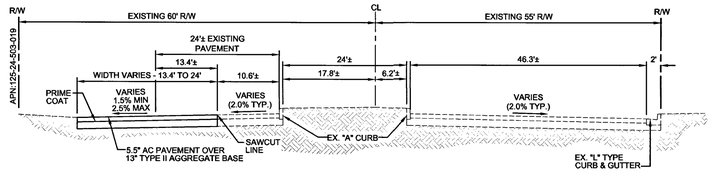
DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

SHEET TITLE: GRADING

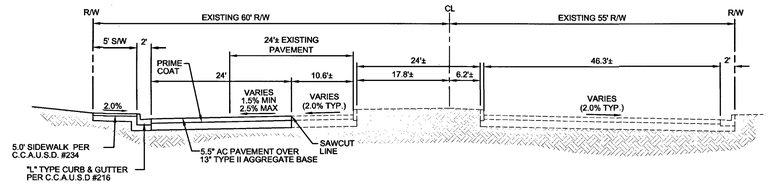
SHEET NUMBER: C3

SHT. 3 OF 10

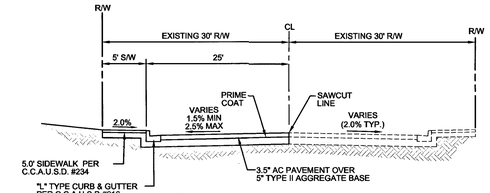
Plot Stamp: 7/23/2018 1:30:24 PM - Roland Frye
File: P:\BZR011803 - Decatur Donald II\Civil_CD\BZR011803-GRAD.dwg, Tab: GRADING PLAN



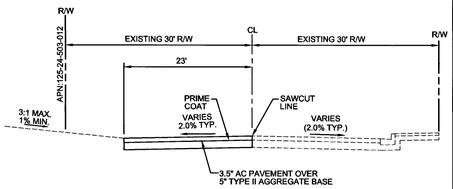
1 DECATUR BLVD. SECTION
NOT TO SCALE



2 DECATUR BLVD. SECTION
NOT TO SCALE

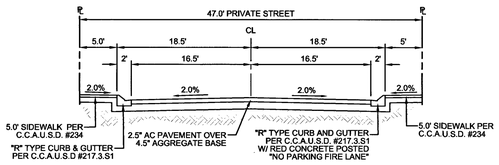


3 DORRELL LANE SECTION
NOT TO SCALE



4 DORRELL LANE SECTION
NOT TO SCALE

NOTE TO CONTRACTOR:
REFER TO DETAIL J, THIS SHEET FOR ROUGH GRADING STREET SECTION.

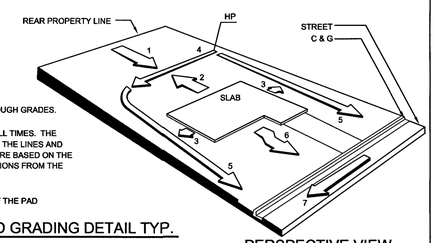


5 47' (PRIVATE) STREET SECTION
NOT TO SCALE

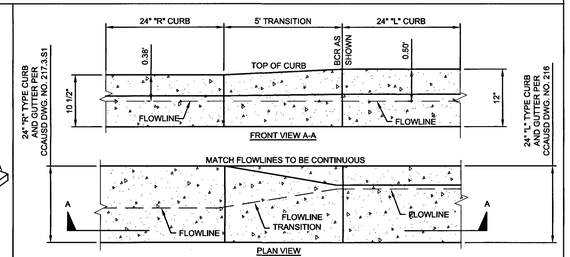
1. SLOPE FROM REAR TO SWALE (MIN. 1%)
2. SLOPE FROM HOUSE TO SWALE (MIN. 2%)
3. SLOPE FROM HOUSE TO SIDE SWALE (MIN. 2%)
4. REAR SWALE (10' MIN. FROM REAR OF HOUSE)
5. SIDE SWALE (MIN. 1%)
6. SLOPE FROM HOUSE TO BACK OF CURB (MIN. 2%)
7. SLOPE OF STREET

A. INDICATED GRADES OTHER THAN TC, FG & GUTTER FL 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.

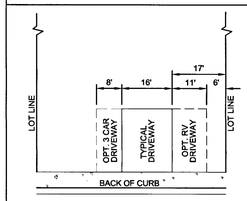
6 TYPE "A" PAD GRADING DETAIL TYP.
NOT TO SCALE



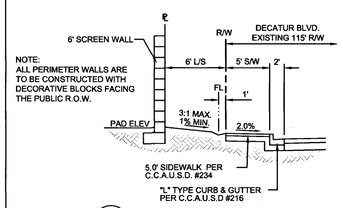
PERSPECTIVE VIEW



7 5' "L" CURB TO "R" CURB TRANSITION
NOT TO SCALE

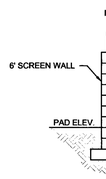


8 TYP. DRIVEWAY DETAIL
NOT TO SCALE

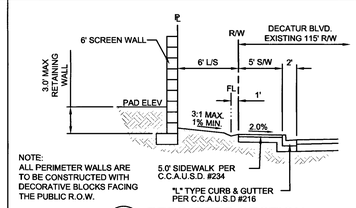


NOTE:
ALL PERIMETER WALLS ARE TO BE CONSTRUCTED WITH DECORATIVE BLOCKS FACING THE PUBLIC R.O.W.

A PERIMETER SECTION
NOT TO SCALE

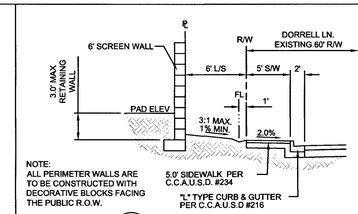


B LOT LINE SECTION
NOT TO SCALE



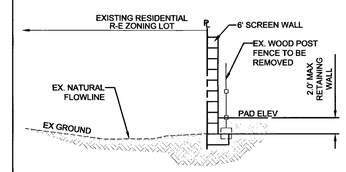
NOTE:
ALL PERIMETER WALLS ARE TO BE CONSTRUCTED WITH DECORATIVE BLOCKS FACING THE PUBLIC R.O.W.

C PERIMETER SECTION
NOT TO SCALE

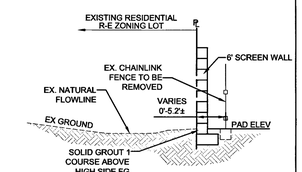


NOTE:
ALL PERIMETER WALLS ARE TO BE CONSTRUCTED WITH DECORATIVE BLOCKS FACING THE PUBLIC R.O.W.

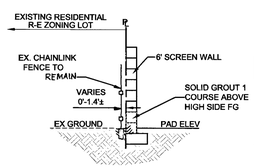
D PERIMETER SECTION
NOT TO SCALE



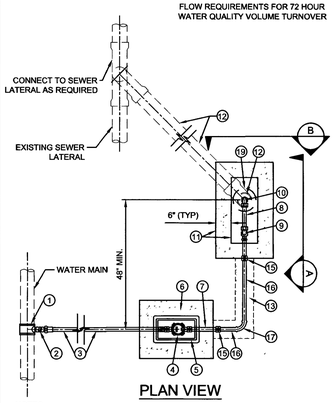
E PERIMETER SECTION
NOT TO SCALE



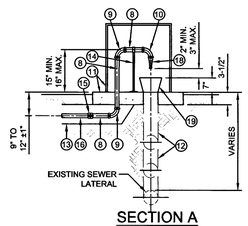
F PERIMETER SECTION
NOT TO SCALE



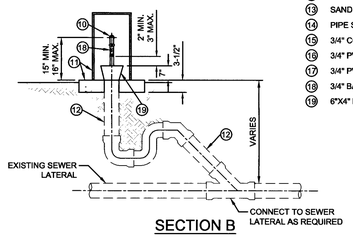
G PERIMETER SECTION
NOT TO SCALE



PLAN VIEW



SECTION A



SECTION B

LEGEND

1. SERVICE SADDLE
2. CORPORATION STOP
3. SERVICE LATERAL
4. 3/4" WATER METER
5. METER BOX
6. CONCRETE COLLAR OR SIDEWALK PANEL
7. TAILPIECE
8. 3/4" BRASS PIPE THREADED ON BOTH ENDS (LENGTH AS REQUIRED)
9. 3/4" BRASS 90° BEND (FEMALE THREAD X FEMALE THREAD)
10. 3/4" BRASS 90° BEND (FEMALE THREAD X MALE THREAD), FOR FLUSHING VALVE CONNECTION
11. APPROVED FIBERGLASS ENCLOSURE AND CONCRETE PAD (ANCHOR TO CONCRETE PAD PER MANUFACTURERS REQUIREMENTS)
12. 4" PVC SEWER LATERAL
13. SAND BACKFILL FULL WIDTH OF TRENCH
14. PIPE SUPPORT AS REQUIRED
15. 3/4" COUPLING
16. 3/4" PVC PIPE (SCH 40), LENGTH AS REQUIRED
17. 3/4" PVC (SCH 40) 90° BEND
18. 3/4" BALL VALVE (APOLLO MODEL 77CLF-100)
19. 6"X4" PVC REDUCER

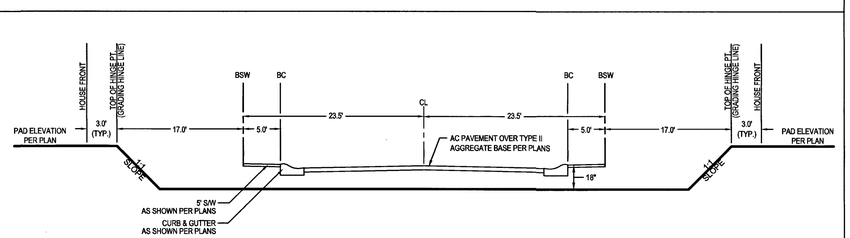
NOTES:

1. AN EASEMENT MAY BE REQUIRED FOR ASSEMBLIES LOCATED BEHIND EXISTING RIGHT-OF-WAY.
2. EXISTING SIDEWALK PANELS REMOVED FOR INSTALLATION ARE TO BE REPLACED TO NEAREST WEAKENED PLANE JOINT AS REQUIRED (TYP).

H FLUSHING VALVE ASSEMBLY
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.



J ROUGH GRADING STREET SECTION
NOT TO SCALE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SHEETS:
C1, C2, C4 THRU C9

L18-00903
107Y5067-2

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL
OR
1-800-227-2600

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

Call before you Dig
Underground
1-702-432-5300

Plot Stamp: 9/17/2018 11:46:51 AM - Roland Frye
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DETAIL SHEET
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER STATE OF NEVADA
DARRYL C. LATTIMORE
EXP: 12/31/19
CIVIL
No. 17516
7/12/18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

SHEET TITLE
DETAILS

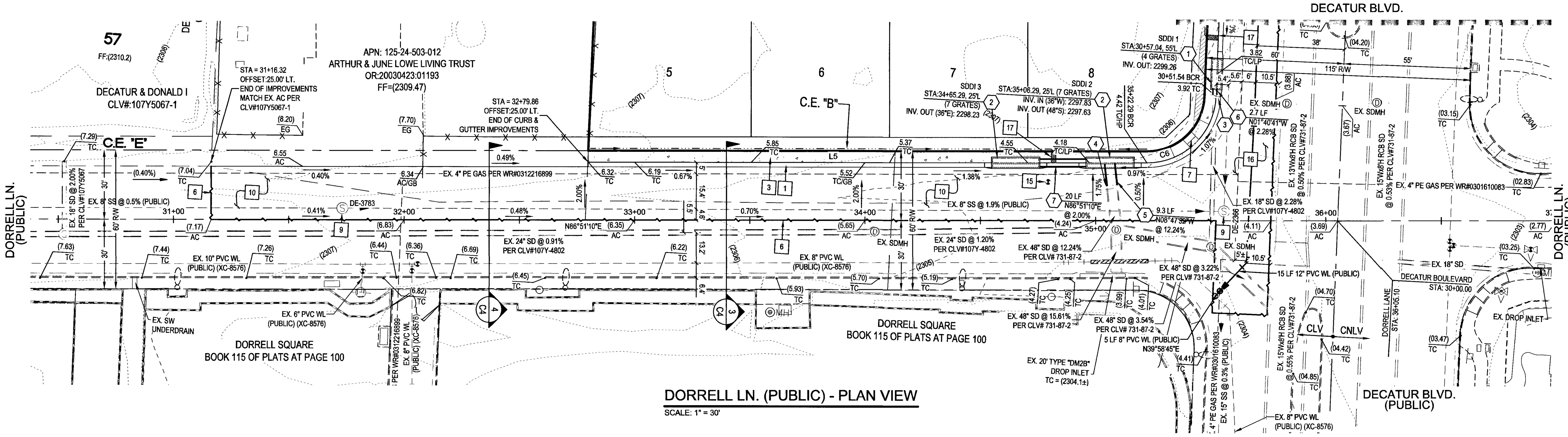
SHEET NUMBER
C4

SHT. 4 OF 10

PROJ#:135002-A QS:125-24-NE

BACK OF CURB LINE TABLE		
LINE #	BEARING	LENGTH
L1	N0°47'07"W	104.57'
L2	N86°51'10"E	134.88'
L3	S86°51'10"W	130.88'
L4	N0°47'07"W	83.57'
L5	N86°51'10"E	242.43'
L6	N86°51'10"E	264.62'

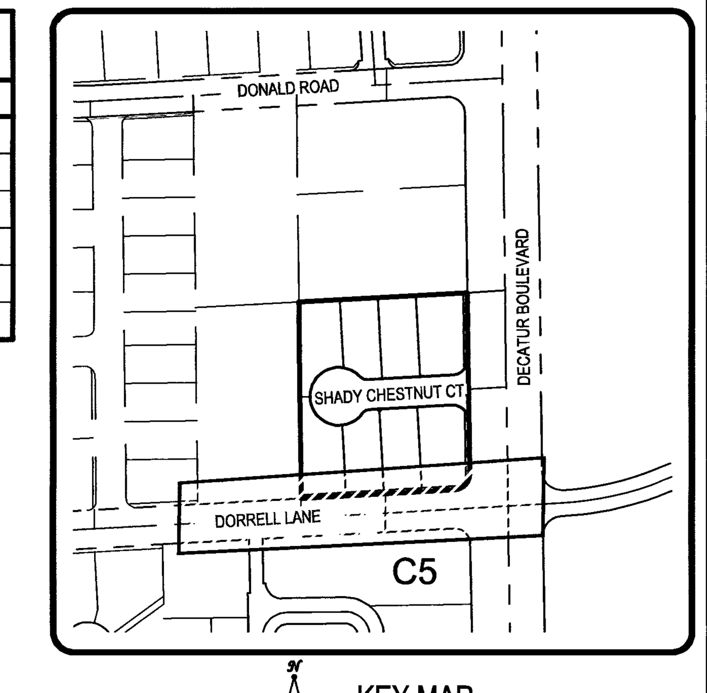
BACK OF CURB CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	45.89'	30.00'	87.64°	28.79
C2	17.62'	20.00'	50.48°	9.43
C3	198.60'	40.50'	280.96°	33.41
C4	17.62'	20.00'	50.48°	9.43
C5	48.36'	30.00'	92.36°	31.26
C6	45.89'	30.00'	87.64°	28.79



DORRELL LN. (PUBLIC) - PLAN VIEW

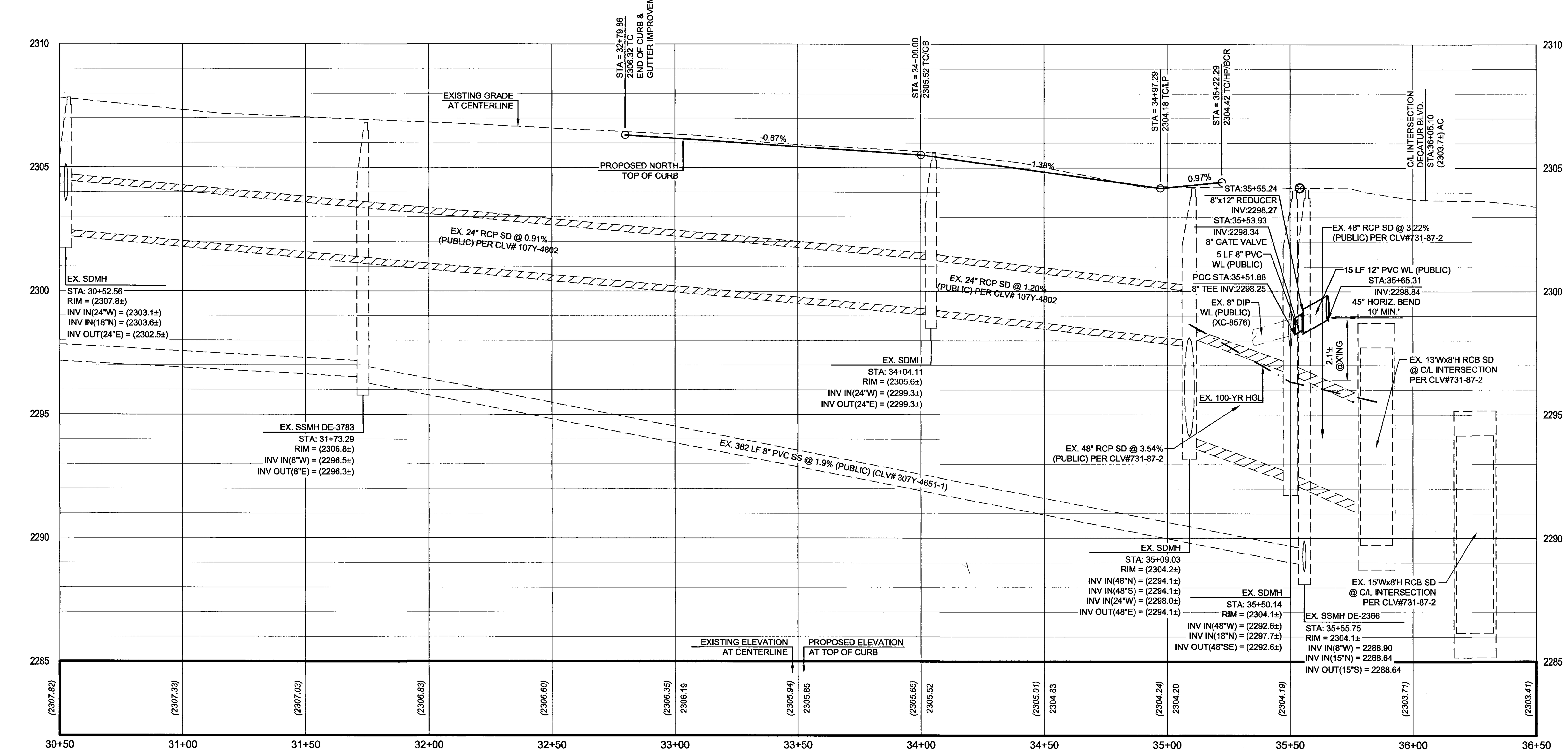
SCALE: 1" = 30'

SCALE: 1"=30'



KEY MAP

SCALE: NTS



DORRELL LN. (PUBLIC) - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
2. CONSTRUCT "R" TYPE CURB AND GUTTER PER CCAUSD #217.3.S1
3. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234
4. CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD #228
5. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "8" ON SHEET C4
6. MATCH EXISTING ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER. SAWCUT CLEAN EDGE FOR CONNECTION
7. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I. "A" & "B" = 8' UNLESS OTHERWISE NOTED
8. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "6" ON SHEET C4
9. ADJUST EXISTING MANHOLE TO GRADE
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. 5' TRANSITION "L" CURB TO "R" CURB PER DETAIL "7" ON SHEET C4
12. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
13. EXISTING POWER/UTILITY POLE TO BE REMOVED, RESET OR RELOCATED AS SHOWN PER NV ENERGY PLANS
14. EXISTING POWER/UTILITY POLE TO BE PROTECTED IN PLACE
15. EXISTING UTILITY TO BE ADJUSTED TO GRADE
16. INSTALL 5.5" AC OVER 13" TYPE II AGGREGATE BASE
17. CONSTRUCT SIDEWALK DRAIN PER CCAUSD #236

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
2. CONSTRUCT 20' TYPE "CM2" DROP INLET PER CCAUSD #412.1, AND #421
3. REMOVE EXISTING DROP INLET
4. REMOVE EXISTING PRECAST CONCRETE RCP CAP & CONNECT TO EXISTING STORM DRAIN STUBOUT
5. INSTALL 48" CLASS III RCP (PUBLIC)
6. INSTALL 18" CLASS III RCP (PUBLIC)
7. INSTALL 36" CLASS III RCP (PUBLIC)

LEGEND

PROPOSED / EXISTING

- PUBLIC ROW LINE
- PRVT STREET/PROPERTY LINE
- BOUNDARY/PROPERTY 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 SURFACE PER PLAN
- PROPOSED ASPHALT
- REMOVE AND REPLACE EX. ASPHALT
- MATCH LINE
- [98.72] XX FUTURE GRADE TAG
- (98.72) XX EXISTING GRADE TAG
- 98.72 XX PROPOSED GRADE TAG
- FF FINISHED FLOOR
- TRC TOP OF "R" TYPE CURB
- 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
- PRIV. ST. PRIVATE STREET
- TYP. TYPICAL
- 1.00% GRADE SLOPE
- A/C4 SECTION MARKER- DETAIL NUMBER ABOVE SHEET NUMBER
- SIGHT VISIBILITY ZONE
- CUT / FILL LINE

GRADING NOTES

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FILED.
2. 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.
3. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
4. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.

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.

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAT 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.

PLEASE REFER TO TRAFFIC SHEET C10 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

STORM DRAIN CONNECTIONS NOTE

WHEN CONNECTING TO EXISTING RCP, CONTRACTOR SHALL REMOVE THE EXISTING RCP TO THE NEAREST BELL CONNECTION, CONNECT NEW RCP TO EXISTING RCP AND MATCH EXISTING PIPE SLOPE.

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)

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 32003C1765F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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 2012 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE CITY OF LAS VEGAS PRIOR TO CITY OF LAS VEGAS APPROVAL AT FINAL INSPECTION.

CUT: 1,247 CY
FILL: 1,414 CY
BALANCE: 167 CY (FILL)

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.

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 CLV# DS4975 ON FILE WITH THE CITY OF LAS VEGAS.

DARRYL LATTIMORE, P.E. — DATE 7/25/18

L18-00903
107Y5067-2

LVVWD NOTES

1. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
2. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
3. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
4. 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.

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/30/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM
SHEETS:
C1, C2, C4 THRU C9

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUIT, ITS COSTLY
CALL BEFORE YOU DO UNDERGROUND
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

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Las Vegas, NV 89120
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Engineering - Surveying - Consulting - Planning

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

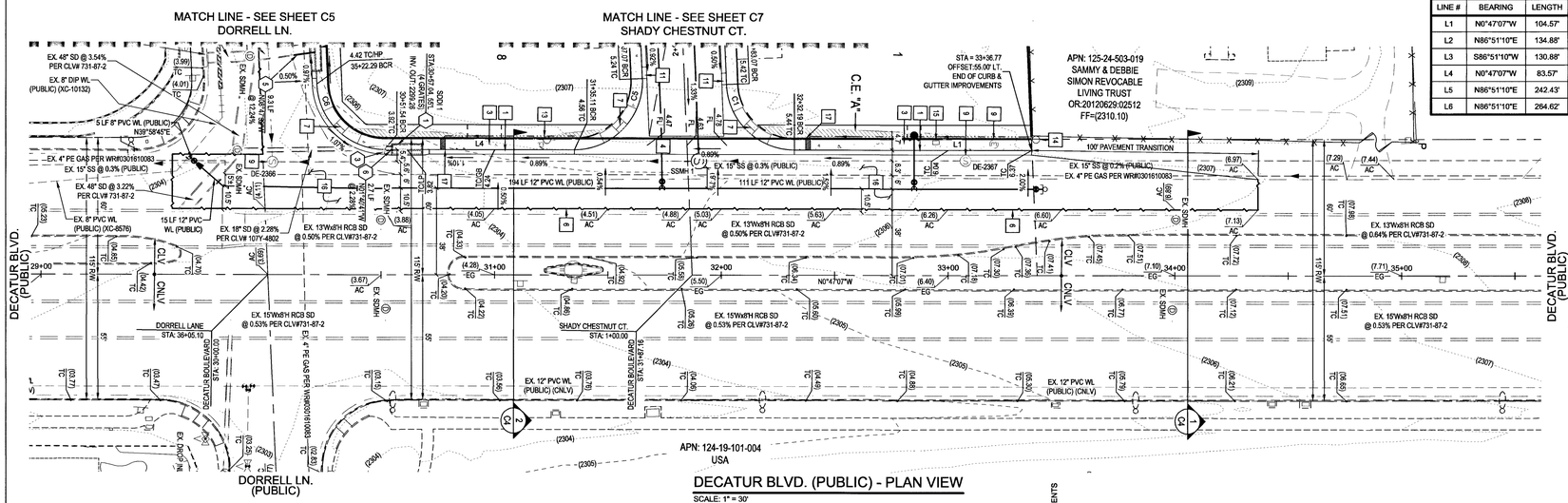
#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — 7/25/18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

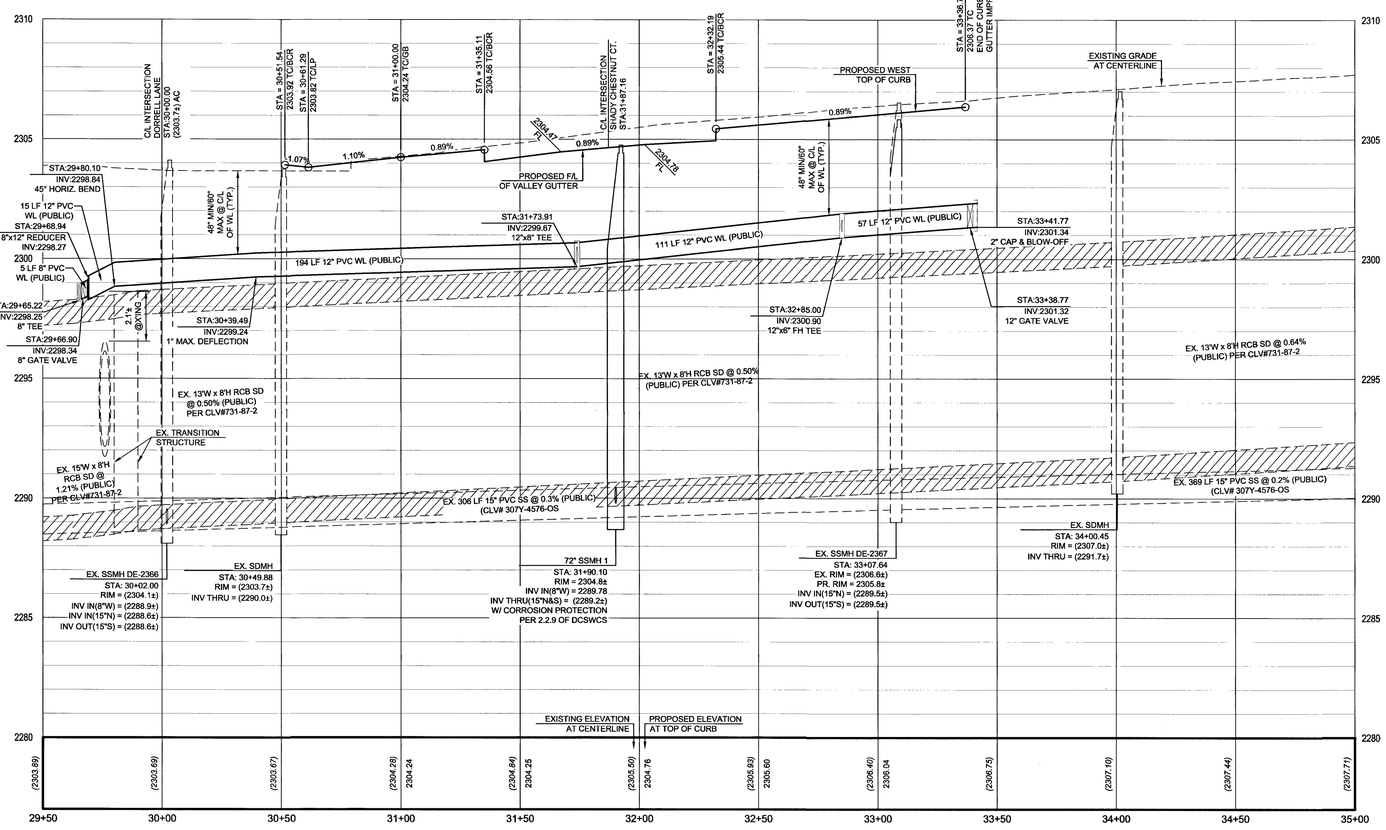
SHEET TITLE
PLAN & PROFILES
SHEET NUMBER
C5

PROJ#:135002-A QS:125-24-NE



DECATUR BLVD. (PUBLIC) - PLAN VIEW

SCALE: 1" = 30'



DECATUR BLVD. (PUBLIC) - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'

BACK OF CURB LINE TABLE

LINE #	BEARING	LENGTH
L1	N0°47'07"W	104.57'
L2	N86°51'10"E	134.88'
L3	S86°51'10"W	130.88'
L4	N0°47'07"W	83.57'
L5	N86°51'10"E	242.43'
L6	N86°51'10"E	264.62'

BACK OF CURB CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	45.89'	30.00'	87.64°	28.79
C2	17.62'	20.00'	50.48°	9.43
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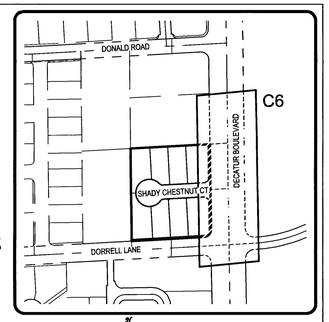
SCALE: 1"=30'



KEY MAP

SCALE: NTS

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
2. CONSTRUCT "R" TYPE CURB AND GUTTER PER CCAUSD #217.3.S1
3. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234
4. CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD #228
5. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "B" ON SHEET C4
6. MATCH EXISTING ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER. SAWCUT CLEAN EDGE FOR CONNECTION
7. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I, "A" & "B" = 8' UNLESS OTHERWISE NOTED
8. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "B" ON SHEET C4
9. ADJUST EXISTING MANHOLE TO GRADE
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. 5' TRANSITION "L" CURB TO "R" CURB PER DETAIL "7" ON SHEET C4
12. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
13. EXISTING POWER/UTILITY POLE TO BE REMOVED, RESET OR RELOCATED AS SHOWN PER NV ENERGY PLANS
14. EXISTING POWER/UTILITY POLE TO BE PROTECTED IN PLACE
15. EXISTING UTILITY TO BE ADJUSTED TO GRADE
16. INSTALL 5.5" AC OVER 13" TYPE II AGGREGATE BASE
17. CONSTRUCT SIDEWALK DRAIN PER CCAUSD #236

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
2. CONSTRUCT 20' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
3. REMOVE EXISTING DROP INLET
4. REMOVE EXISTING PRECAST CONCRETE RCP CAP & CONNECT TO EXISTING STORM DRAIN STUBOUT
5. INSTALL 48" CLASS III RCP (PUBLIC)
6. INSTALL 18" CLASS III RCP (PUBLIC)
7. INSTALL 36" CLASS III RCP (PUBLIC)

LEGEND

PROPOSED	EXISTING	
		PUBLIC ROW LINE
		PRVT STREET/PROPERTY LINE
		BOUNDARY/PROPERTY 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 SURFACE PER PLAN
		PROPOSED ASPHALT
		REMOVE AND REPLACE EX. ASPHALT
		MATCH LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TRC		TOP OF "R" TYPE CURB
TC		TOP OF CURB
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FL		FLOW LINE GRADE
EP		EDGE OF PAVEMENT
TB		TOP OF BERM
TW		TOP OF RETAINING WALL
TF		TOP OF WALL FOOTING
PRIV. ST.		PRIVATE STREET
TYP.		TYPICAL
1.00%		GRADE SLOPE
A C4		SECTION MARKER- DETAIL NUMBER ABOVE SHEET NUMBER
		SIGHT VISIBILITY ZONE
		CUT / FILL LINE

GRADING NOTES

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FILED.
2. 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.
3. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
4. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.

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.

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAT 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.

PLEASE REFER TO TRAFFIC SHEET C10 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

STORM DRAIN CONNECTIONS NOTE

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BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: SLV90 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)

FLOOD ZONE DESCRIPTION

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FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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 2012 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE CITY OF LAS VEGAS PRIOR TO CITY OF LAS VEGAS APPROVAL AT FINAL INSPECTION.

CUT:	1,247 CY
FILL:	1,414 CY
BALANCE:	167 CY (FILL)

DISCLAIMER NOTE

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PRIVATE STREET NOTE

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ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED UPDATED DRAINAGE STUDY CLV# DS4975 ON FILE WITH THE CITY OF LAS VEGAS.

DARRYL LATTIMORE, P.E. — DATE 7/25/19

L18-00903
107Y5067-2

LVVWD NOTES

1. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
2. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
3. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
4. 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.

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/30/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SHEETS:
C1, C2, C4 THRU C9

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
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AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHTING CONDUIT, IT'S COSTLY
CALL BEFORE YOU DIG UNDERGROUND
Call before you
Underground
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

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3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
www.Actus-NV.com
(702) 588-9298
Engineering - Surveying - Consulting - Planning

DATE	DESCRIPTION	BY

PLAN & PROFILE - DECATUR BLVD.
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

PROFESSIONAL ENGINEER — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — STATE OF NEVADA
7/25/19

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

SHEET TITLE
PLAN & PROFILES

SHEET NUMBER
C6

PROJ#:135002-A QS:125-24-NE

SHT. 6 OF 10

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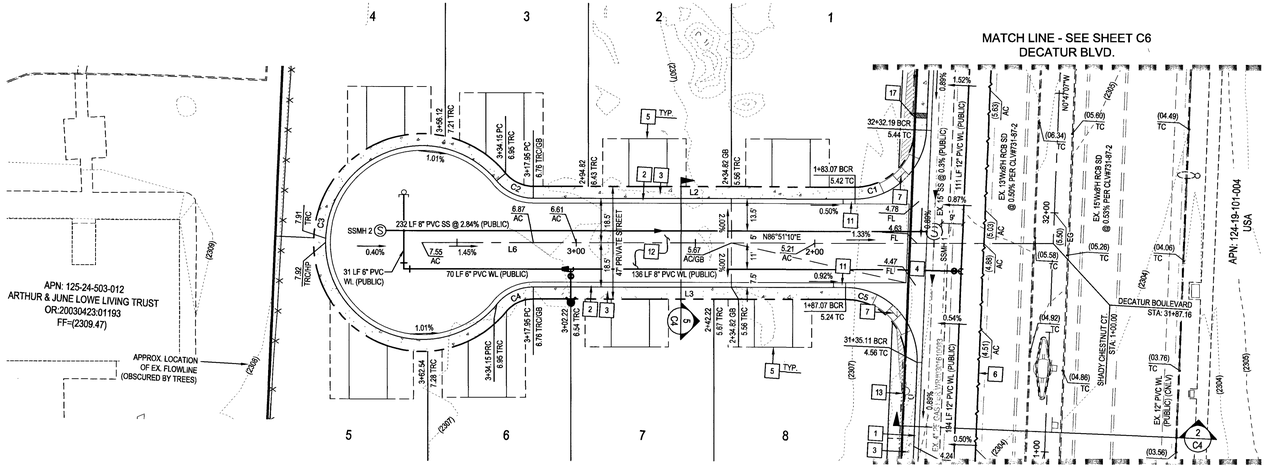
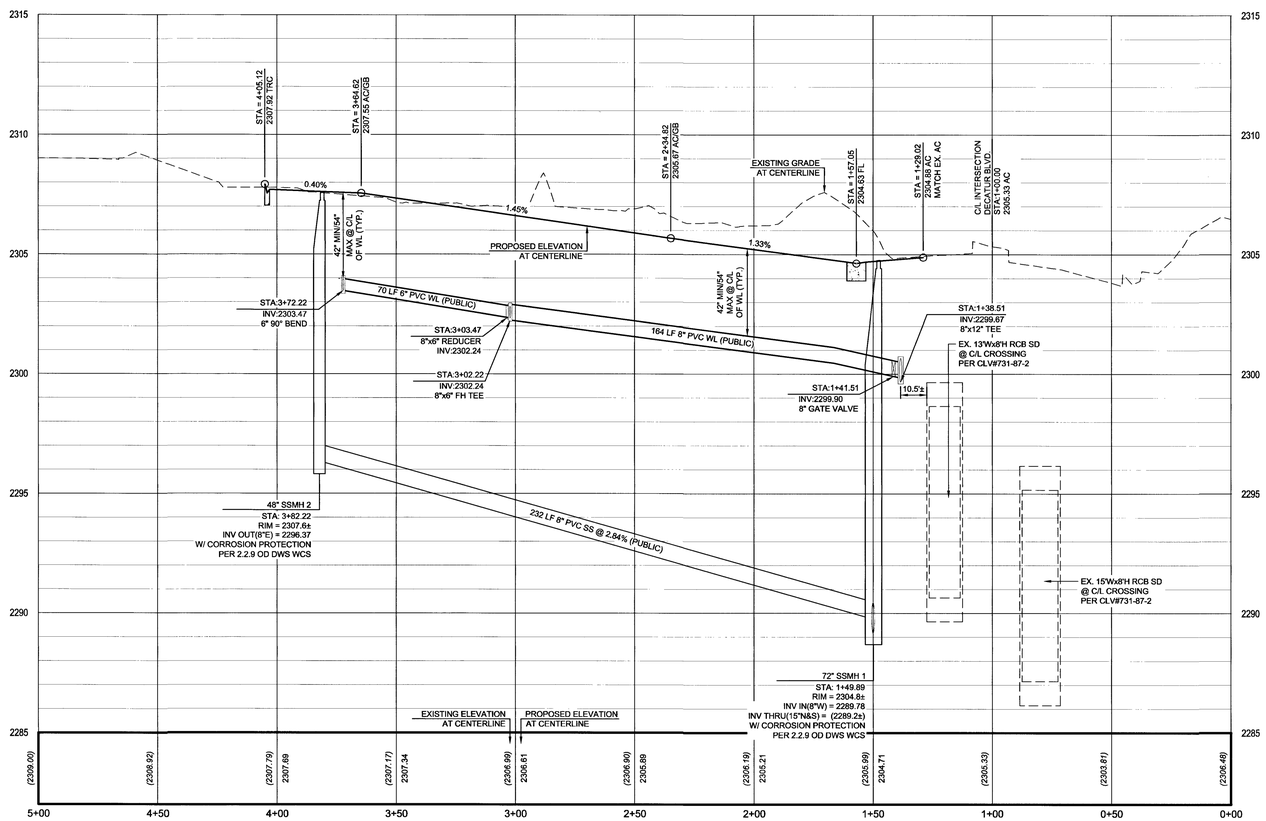


SHADY CHESTNUT CT. (PRIVATE) - PLAN VIEW

SCALE: 1" = 30'



SHADY CHESTNUT CT. (PRIVATE) - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'

BACK OF CURB LINE TABLE

LINE #	BEARING	LENGTH
L1	N0°47'07"W	104.57'
L2	N86°51'10"E	134.88'
L3	S86°51'10"W	130.88'
L4	N0°47'07"W	83.57'
L5	N86°51'10"E	242.43'
L6	N86°51'10"E	264.62'

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CURVE #	LENGTH	RADIUS	DELTA	TANGENT
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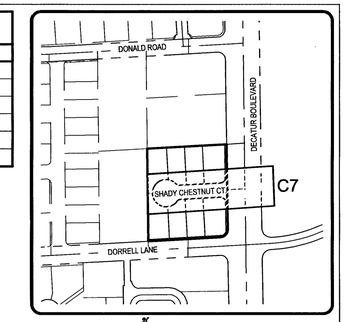

KEY MAP
SCALE: NTS

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
2. CONSTRUCT "R" TYPE CURB AND GUTTER PER CCAUSD #217.3.S1
3. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234
4. CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD #228
5. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "B" ON SHEET C4
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9. ADJUST EXISTING MANHOLE TO GRADE
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
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17. CONSTRUCT SIDEWALK DRAIN PER CCAUSD #236

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
2. CONSTRUCT 20' TYPE "CM2" DROP INLET PER CCAUSD #412.1, AND #421
3. REMOVE EXISTING DROP INLET
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5. INSTALL 48" CLASS III RCP (PUBLIC)
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7. INSTALL 36" CLASS III RCP (PUBLIC)

LEGEND

PROPOSED	EXISTING	
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		PRVT STREET/PROPERTY LINE
		BOUNDARY/PROPERTY LINE
		EASEMENT LINE
		CENTER LINE
		EDGE OF ASPHALT
		CURB & GUTTER
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		FLOW LINE
		GRADE BREAK
2500	(2500)	MAJOR 5' CONTOUR
2501	(2501)	MINOR 1' CONTOUR
		SCARP (3:1 MAX)
		CONCRETE SURFACE PER PLAN
		PROPOSED ASPHALT
		REMOVE AND REPLACE EX. ASPHALT
		MATCH LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
	FF	FINISHED FLOOR
	TRC	TOP OF "R" TYPE CURB
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	EP	EDGE OF PAVEMENT
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	TF	TOP OF WALL FOOTING
	PRIV. ST.	PRIVATE STREET
	TYP.	TYPICAL
	1.00%	GRADE SLOPE
	A C-4	SECTION MARKER- DETAIL NUMBER ABOVE SHEET NUMBER
		SIGHT VISIBILITY ZONE
		CUT / FILL LINE

GRADING NOTES

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FILED.
2. 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.
3. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
4. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.

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.

SIGHT VISIBILITY ZONE NOTE

NO WALLS, FENCES SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAT 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.

PLEASE REFER TO TRAFFIC SHEET C10 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

SOILS NOTE

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

STORM DRAIN CONNECTIONS NOTE

WHEN CONNECTING TO EXISTING RCP, CONTRACTOR SHALL REMOVE THE EXISTING RCP TO THE NEAREST BELL CONNECTION, CONNECT NEW RCP TO EXISTING RCP AND MATCH EXISTING PIPE SLOPE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: SLV90 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)

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 32003C1765F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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 2012 IBC; ENGINEERING REPORTS AND CERTIFICATIONS IN CONFORMANCE WITH IBC SHALL BE FILED WITH THE CITY OF LAS VEGAS PRIOR TO CITY OF LAS VEGAS APPROVAL AT FINAL INSPECTION.

CUT: 1,247 CY
FILL: 1,414 CY
BALANCE: 167 CY (FILL)

DISCLAIMER NOTE

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PRIVATE STREET NOTE

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ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED UPDATED DRAINAGE STUDY CLV# DS4975 ON FILE WITH THE CITY OF LAS VEGAS.

DARRYL LATTIMORE, P.E. — DATE 7/25/18

LVVWD NOTES

1. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
2. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
3. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
4. 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.

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/30/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135002 — FIRST APPROVED DATE: 10/10/18
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM
SHEETS:
C1, C2, C4 THRU C9

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

Call before you Dig
Underground
1-702-432-5300

Actus
3203 E. Warm Springs Rd., Suite 400
Las Vegas, NV 89120
www.Actus-NV.com
(702) 588-9259
Engineering - Surveying - Consulting - Planning

PLAN & PROFILE - SHADY CHESTNUT CT.
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — STATE OF NEVADA — 7/25/18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

SHEET TITLE: PLAN & PROFILES
SHEET NUMBER: C7
SHT. 7 OF 10
PROJ#:135002-A QS:125-24-NE

L18-00903
107Y5067-2

Plot Stamp: 7/23/2018 1:31:44 PM - Roland Frye
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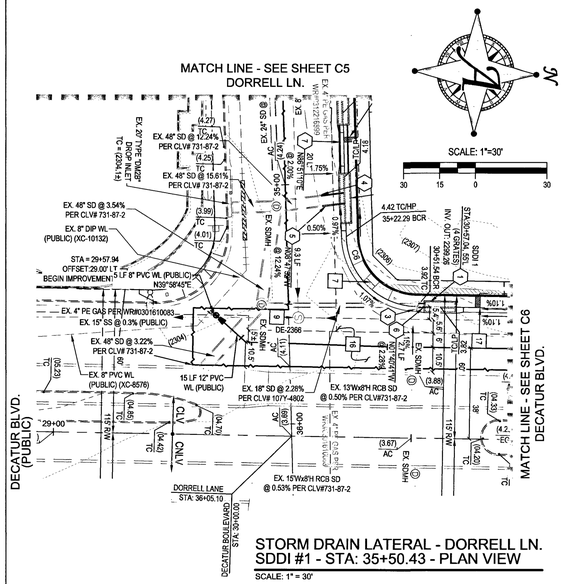
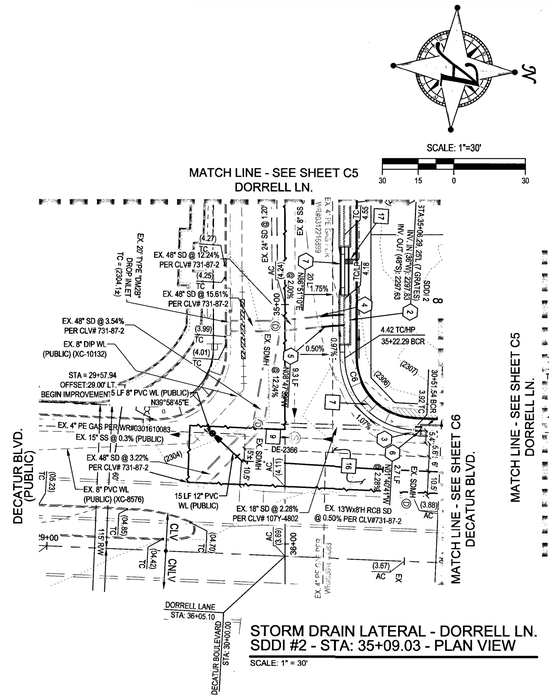


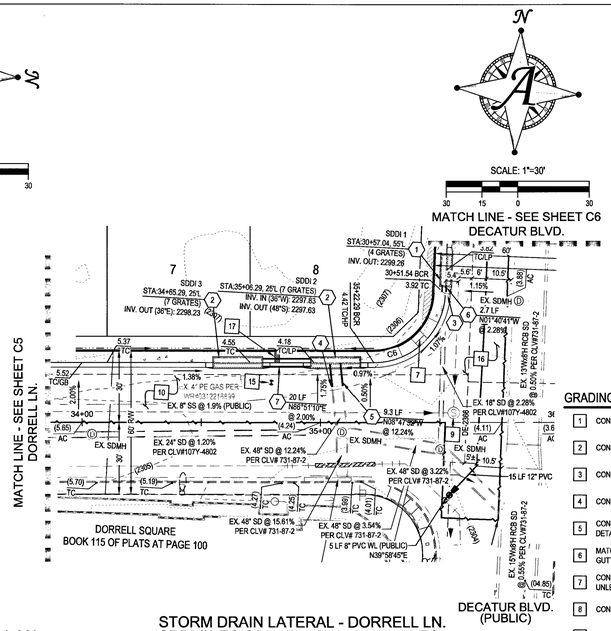
STORM DRAIN LATERAL - DORRELL LN.
SDDI #1 - STA: 35+50.43 - PLAN VIEW

SCALE: 1" = 30'



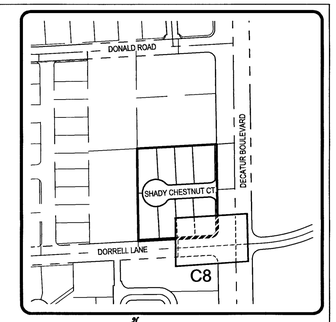
STORM DRAIN LATERAL - DORRELL LN.
SDDI #2 - STA: 35+09.03 - PLAN VIEW

SCALE: 1" = 30'



STORM DRAIN LATERAL - DORRELL LN.
SDDI #3 TO SDDI #2 - STA: 34+50.00 TO
STA: 35+25.00 - PLAN VIEW

SCALE: 1" = 30'



KEY MAP
SCALE: NTS

GRADING CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
2. CONSTRUCT "R" TYPE CURB AND GUTTER PER CCAUSD #217.3.S1
3. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234
4. CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD #228
5. CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "B" ON SHEET C4
6. MATCH EXISTING ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER. SAWCUT CLEAN EDGE FOR CONNECTION
7. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I, "A" & "B" = 8' UNLESS OTHERWISE NOTED
8. CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "B" ON SHEET C4
9. ADJUST EXISTING MANHOLE TO GRADE
10. INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
11. 5' TRANSITION "L" CURB TO "R" CURB PER DETAIL "7" ON SHEET C4
12. INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
13. EXISTING POWER/UTILITY POLE TO BE REMOVED, RESET OR RELOCATED AS SHOWN PER NV ENERGY PLANS
14. EXISTING POWER/UTILITY POLE TO BE PROTECTED IN PLACE
15. EXISTING UTILITY TO BE ADJUSTED TO GRADE
16. INSTALL 5.5" AC OVER 13" TYPE II AGGREGATE BASE
17. CONSTRUCT SIDEWALK DRAIN PER CCAUSD #236

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD #412.1, AND #421
2. CONSTRUCT 20' TYPE "CM2" DROP INLET PER CCAUSD #412.1, AND #421
3. REMOVE EXISTING DROP INLET
4. REMOVE EXISTING PRECAST CONCRETE RCP CAP & CONNECT TO EXISTING STORM DRAIN STUBOUT
5. INSTALL 48" CLASS III RCP (PUBLIC)
6. INSTALL 18" CLASS III RCP (PUBLIC)
7. INSTALL 36" CLASS III RCP (PUBLIC)

GRADING NOTES

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FILED.
2. 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.
3. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
4. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.

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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BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017
UPDATED: MAY 18, 2018

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LEGEND

PROPOSED	EXISTING	
		PUBLIC ROW LINE
		PRVT STREET/PROPERTY LINE
		BOUNDARY/PROPERTY 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 SURFACE PER PLAN
		PROPOSED ASPHALT
		REMOVE AND REPLACE EX. ASPHALT
		MATCH LINE
[98.72] XX		FUTURE GRADE TAG
(98.72) XX		EXISTING GRADE TAG
98.72 XX		PROPOSED GRADE TAG
FF		FINISHED FLOOR
TRC		TOP OF "R" TYPE CURB
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
PRIV. ST.		PRIVATE STREET
TYP.		TYPICAL
1.00%		GRADE SLOPE
A C4		SECTION MARKER- DETAIL NUMBER ABOVE SHEET NUMBER
		SIGHT VISIBILITY ZONE
		CUT / FILL LINE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: SLV90 24NEE6

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

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FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

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CUT:	1,247 CY
FILL:	1,414 CY
BALANCE:	167 CY (FILL)

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ENGINEER'S CERTIFICATION

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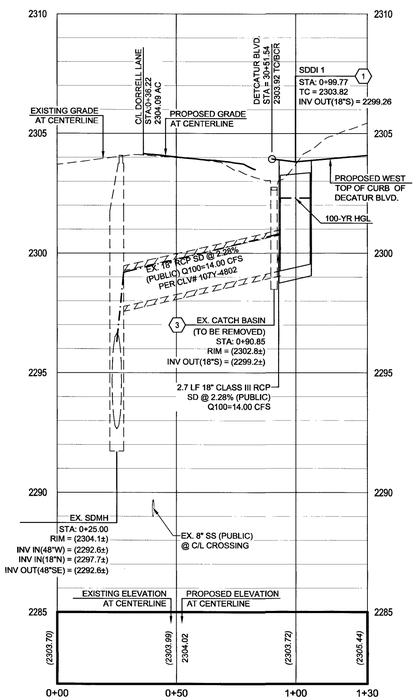
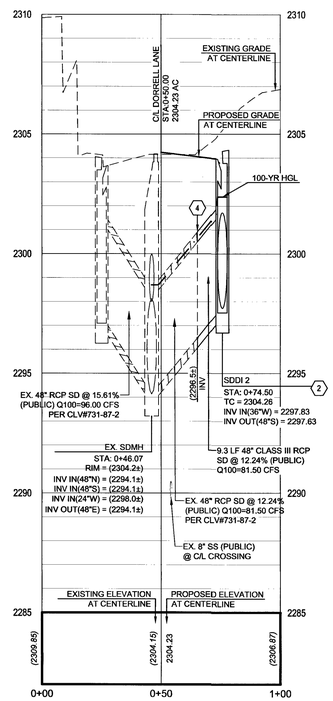
DARRYL LATTIMORE, P.E. — DATE 7/25/18

L18-00903
107Y5067-2



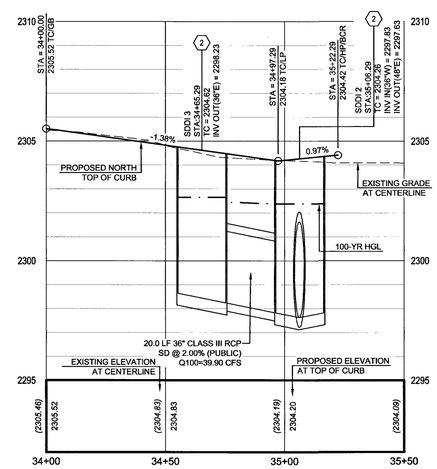
STORM DRAIN LATERAL - DORRELL LN.
SDDI #1 - STA: 35+50.43 - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'



STORM DRAIN LATERAL - DORRELL LN.
SDDI #2 - STA: 35+09.03 - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'



STORM DRAIN LATERAL - DORRELL LN.
SDDI #3 TO SDDI #2 - STA: 34+50.00 TO
35+25.00 - PROFILE VIEW - PROFILE VIEW

HORIZONTAL SCALE: 1" = 30' | VERTICAL SCALE: 1" = 3'

BACK OF CURB LINE TABLE

LINE #	BEARING	LENGTH
L1	N0°47'07"W	104.57'
L2	N86°51'10"E	134.88'
L3	S86°51'10"W	130.88'
L4	N0°47'07"W	83.57'
L5	N86°51'10"E	242.43'
L6	N86°51'10"E	264.62'

BACK OF CURB CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	45.89'	30.00'	87.64°	28.79
C2	17.62'	20.00'	50.48°	9.43
C3	198.60'	40.50'	280.96°	33.41
C4	17.62'	20.00'	50.48°	9.43
C5	48.36'	30.00'	92.36°	31.26
C6	45.89'	30.00'	87.64°	28.79

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/30/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SHEETS:
C1, C2, C4 THRU C9

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

PLAN & PROFILE - STORM DRAIN LATERALS
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

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

7/25/18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

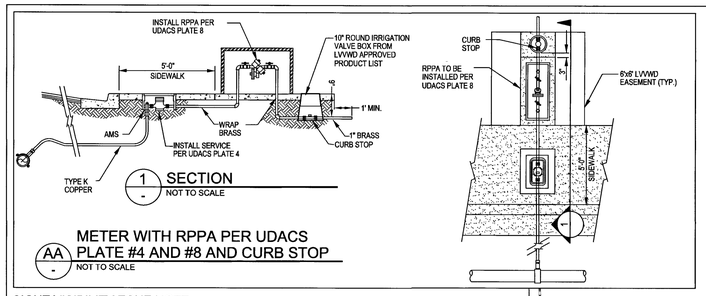
SHEET TITLE
PLAN & PROFILES

SHEET NUMBER
C8

PROJ.#:135002-A QS:125-24-NE

SHT. 8 OF 10

Plot Stamp: 7/23/2018 1:32:13 PM - Roland Frye
File: P:\BZR011803 - Decatur Donald II\Civil_CD\BZR011803-PROF.dwg, Tab: C8 PLAN & PROFILE - STORM DRAIN LATERALS



1 SECTION
NOT TO SCALE

AA PLATE #4 AND #8 AND CURB STOP
NOT TO SCALE

METER WITH RPPA PER UDACS

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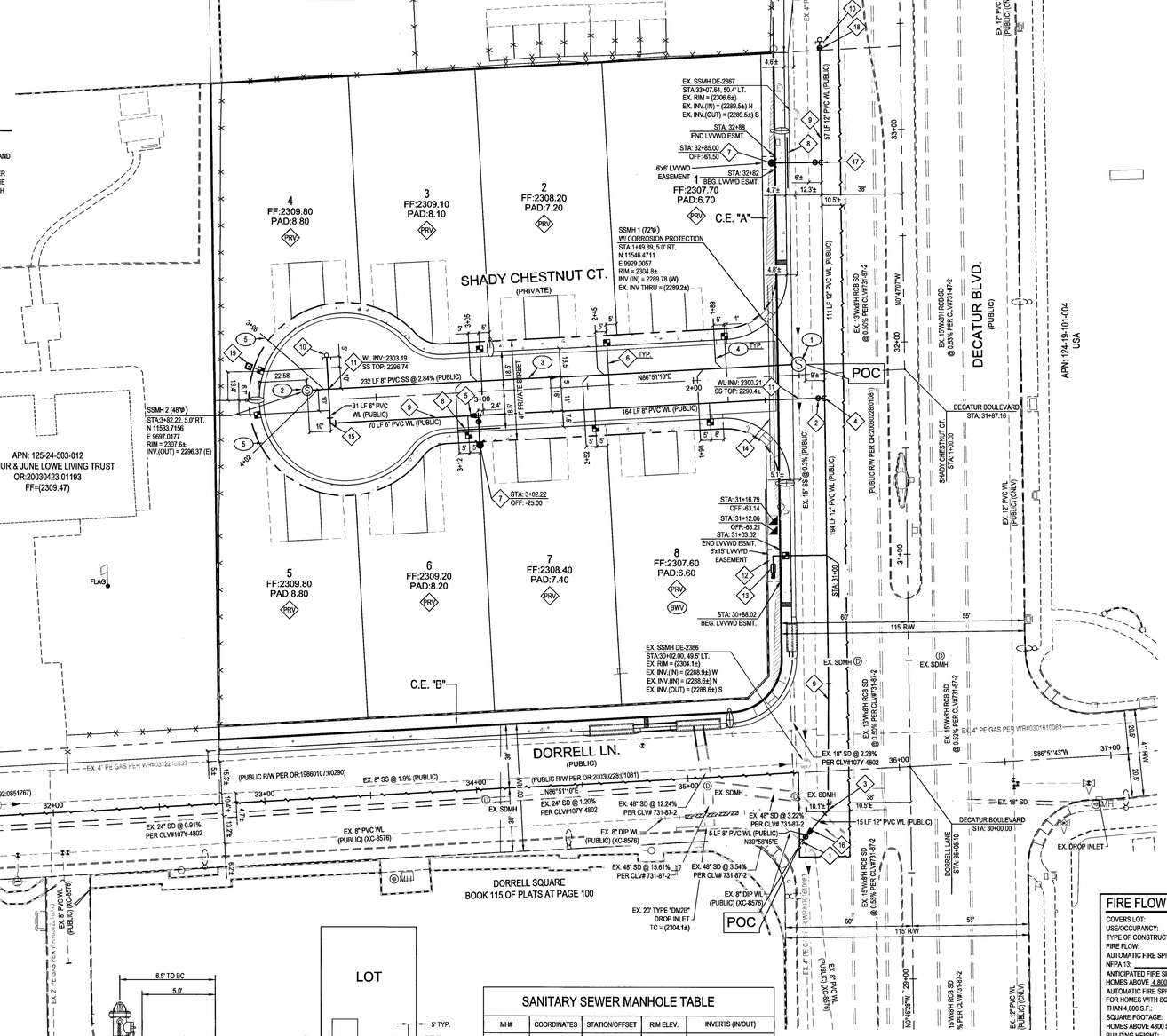
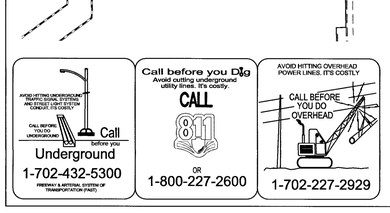
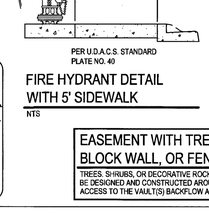
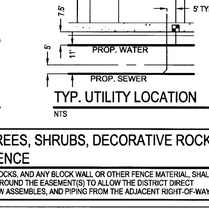






FIRE HYDRANT DETAIL WITH 5' SIDEWALK
NTS



TYP. UTILITY LOCATION
NTS

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.

SANITARY SEWER MANHOLE TABLE

MH#	COORDINATES	STATION/OFFSET	RIM ELEV.	INVERTS (IN/OUT)
SSMH 1	N: 11546.4711 E: 9929.0057	STA: 31+90.10 OFF: 50.05' LT.	RIM: 2304.8±	INV THRU: (2289.2±) (N&S) INV IN: 2289.40 (W)
SSMH 2	N: 11533.7156 E: 9697.0177	STA: 3+82.22 OFF: 5.00' RT.	RIM: 2307.6±	INV OUT: 2296.37 (E)

REDUCED PRESSURE PRINCIPLE ASSEMBLY

(1) 1" (IRRIGATION)

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(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.

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.

PRIVATE STREET NOTE

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

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.

WATER CONSTRUCTION NOTES

1. INSTALL 8"X8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS PLATE #34 AND SECTION 2.24.01A
2. INSTALL 8" GATE VALVE PER UDACS PLATES #30 AND #38.
3. INSTALL 45° BEND WITH RESTRAINED FITTING AND JOINTS PER UDACS #31
4. INSTALL 8"x12" TEE W/ THRUST BLOCK PER UDACS PLATE #31
5. INSTALL 8"X6" REDUCER W/ THRUST BLOCK PER UDACS PLATE #30
6. INSTALL 3/4" WATER METER (DOMESTIC) COMPLETE WITH 1" COPPER WATER SERVICE LINE WITH SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE #2.
7. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #30, 39 AND 40
8. PAINT CURB ADJACENT TO FIRE HYDRANT PER SECTION 507.5.7.2 SOUTHERN NEVADA FIRE CODE W/ ORDINANCE #6325.
9. INSTALL WATER PIPE IN TRENCH AND BACKFILL PER UDACS PLATE #17
10. INSTALL CAP WITH 2" BLOW-OFF ASSEMBLY PER UDACS PLATE #36.
11. MAINTAIN SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER PIPE PER UDACS STANDARD 2.22.02
12. INSTALL 3/4" WATER METER (IRRIGATION) COMPLETE WITH 1" COPPER WATER SERVICE LINE WITH SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE #4 AND DETAIL "AA"
13. INSTALL 1" RPPA (IRRIGATION) PER UDACS PLATE #8 AND DETAIL "AA"
14. INSTALL 2 - 6" IRRIGATION SLEEVES
15. INSTALL 90° BEND W/ THRUST BLOCK PER UDACS PLATE #30
16. INSTALL 8"x12" REDUCER W/ THRUST BLOCK PER UDACS PLATE #30
17. INSTALL 12"x6" TEE W/ THRUST BLOCK PER UDACS PLATE #31
18. INSTALL 12" GATE VALVE PER UDACS PLATES #30 AND #39
19. INSTALL FLUSHING VALVE ASSEMBLY PER DETAIL H, SHEET C4

PRV PRESSURE REDUCER VALVE

SEWER CONSTRUCTION NOTES

1. INSTALL 72"Ø CAST IN PLACE MANHOLE WITH CORROSION PROTECTION PER 2.2.9 OF DCSWCS NO. SD-4, SD-5 & SD-7, AND DUAL LIDS PER DCSWCS NO. SD-3. SEE CAST IN PLACE MANHOLE NOTE
2. INSTALL 48" STANDARD MANHOLE WITH SINGLE 24" LID PER DCSWCS DWG SD-1A, SD-1B, SD-4 & SD-5
3. INSTALL SEWER PIPE IN TRENCH & BACKFILL (60' OR LESS R/W) PER DCSWCS NO. SD-15 & SD-17
4. INSTALL 4" PVC SEWER LATERAL @ MINIMUM 2.0% SLOPE, 4" SEWER WYE PER DCSWCS SD-22, SD-25 & SD-17. STUB AND CAP 4" SEWER LATERAL 5' PAST PROPERTY LINE.
5. INSTALL 4" PVC C900 SEWER LATERAL @ MINIMUM 2.0% SLOPE, 4" SEWER WYE PER DCSWCS SD-22, SD-25 & SD-17. STUB AND CAP 4" SEWER LATERAL 5' PAST PROPERTY LINE.

BWV SEWER BACKWATER VALVE PER DCSWCS SD-29

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 VALVE BOXES TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVES 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 AND STREETLIGHT 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 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.
- THIS PROPERTY HAS A 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.

FIRE FLOW CALCULATION

COVERS LOT:	1-8
USE/OCCUPANCY:	R-3
TYPE OF CONSTRUCTION:	V-B
FIRE FLOW:	1750 GPM @ 20 PSI RESIDUAL
AUTOMATIC FIRE SPRINKLERS:	NO
NFPA 13: ____ 13R: ____ 13D: ____	ESFR: ____
ANTICIPATED FIRE SPRINKLER FLOW DEMAND:	0 GPM
HOMES ABOVE 4,800 S.F. REQUIRES NFPA 13D SYSTEM IF FIRE FLOW AVAILABILITY INSUFFICIENT.	
AUTOMATIC FIRE SPRINKLER SYSTEM (NFPA13D) FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 4,800 S.F.:	
SQUARE FOOTAGE:	< 4,800 SF
HOMES ABOVE 4800 SF REQUIRE NFPA 13D SYSTEM:	NONE
BUILDING HEIGHT:	< 35'
# OF STORIES INCLUDING BASEMENT:	2
HIGH PILED COMBUSTIBLE STORAGE:	NO
# OF HYDRANTS INSTALLED	2

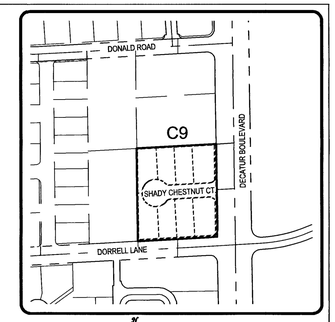
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135002 FIRST APPROVED DATE: 10/10/18

LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SHEETS:
C1, C2, C4 THRU C9



KEY MAP
SCALE: NTS

UTILITY LEGEND

- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- PROPOSED RIGHT-OF-WAY/PROPERTY LINE
- EX. WATER LINE — EXISTING WATER LINE (SIZE PER PLAN)
- EX. SEWER LINE — EXISTING SEWER LINE (SIZE PER PLAN)
- EX. SD — EXISTING STORM DRAIN 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 REDUCER (SIZE PER PLAN)
- EXISTING WATER VALVE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER LATERAL

GRADING NOTE

MINIMUM 24" OF COVER PER UDACS 2.06.04. GRADING MUST BE COMPLETED PRIOR TO WATER LINE INSTALLATION.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION

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 APPURTENENCES ARE AVAILABLE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: SLV90 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.

SEWER CONTRIBUTION

FACILITY TYPE:	RESIDENTIAL
TOTAL RESIDENTIAL LOTS AT BUILD OUT:	8

8 UNITS x 250 GPD/UNIT / 1,000,000 = 0.0020 MGD (AVERAGE)
0.0020 x 3.5 = 0.0070 MGD (PEAK)
0.0070 x 1.25 = 0.0088 MGD (WET PEAK)

WATER METER NOTE

8 RESIDENTIAL LOTS - WATER METERS ARE TO BE 3/4".
2 COMMON LOTS - IRRIGATION - WATER METER TO BE 3/4".

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.

APPROVAL

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 7/20/18

APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/20/18

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

UTILITY PLAN
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — 7/20/18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803
SHEET TITLE	UTILITY
SHEET NUMBER	C9

L18-00903
107Y5067-2

SHT. 9 OF 10

PROJ.#:135002-A QS:125-24-NE

Plot Stamp: 7/23/2018 1:32:31 PM - Roland Frye
File: P:\BZR011803 - Decatur Donald II\CAD_CD\BZR011803-UTIL.dwg, Tab: UTILITY PLAN

PRIVATE 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: DECATUR BOULEVARD @ STA: 31+12.06

CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)

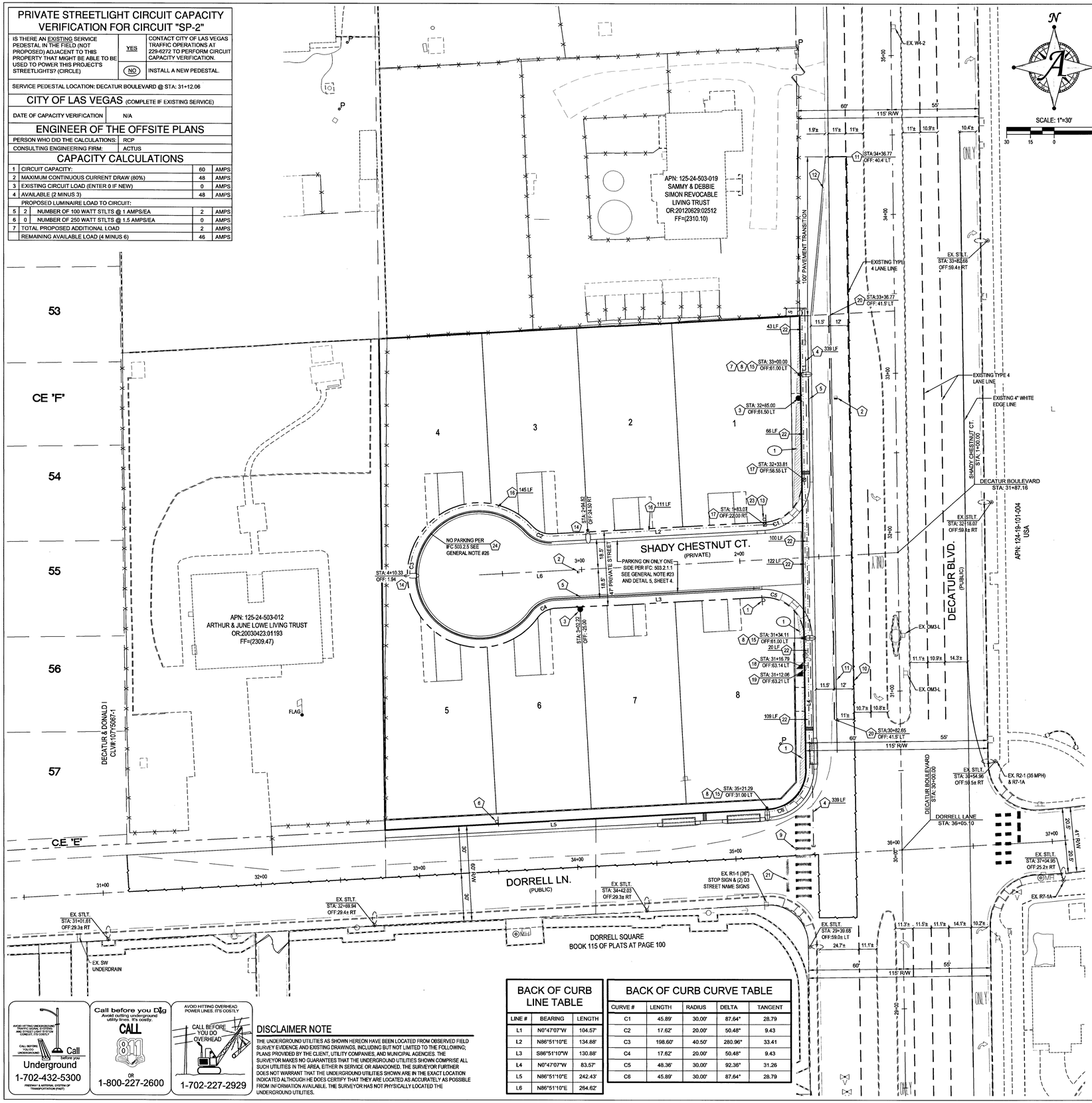
DATE OF CAPACITY VERIFICATION	N/A

ENGINEER OF THE OFFSITE PLANS

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

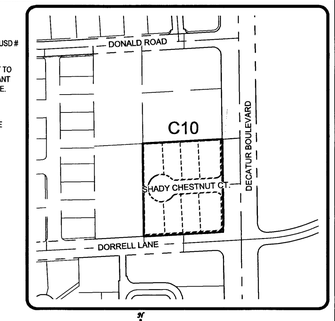
CAPACITY CALCULATIONS

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	2 NUMBER OF 100 WATT STILTS @ 1 AMPS/EA	2	AMPS
6	0 NUMBER OF 250 WATT STILTS @ 1.5 AMPS/EA	0	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD	2	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 6)	46	AMPS



TRAFFIC CONSTRUCTION NOTES

1. INSTALL R1-1 STOP SIGN (30") AND 2-D3 (9") STREET SIGN PER CCAUSD # 249.1 (SIGN TO BE PRIVATELY MAINTAINED)
2. 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 SOUTHERN NEVADA FIRE CODE.
3. PROPOSED FIRE HYDRANT LOCATION.
4. INSTALL 4" F.A.S.T. I.T.S. COMMUNICATIONS CONDUIT WITH #8 BARE TRACER WIRE AND PULL STRING
5. PAINT CURB ON EACH SIDE OF THE FIRE HYDRANT PER SECTION 507.5.7.2 OF THE SOUTHERN NEVADA FIRE CODE.
6. INSTALL R2.1, "25 MPH" SIGN
7. INSTALL POLE MOUNTED R2.1, "35 MPH" SIGN
8. INSTALL POLE MOUNTED R7-1, "NO PARKING ANYTIME" SIGN
9. INSTALL TYPE 1 CROSS WALK MARKINGS PER USDACS #254
10. REMOVE AND REPLACE TYPE 4 LANE LINE PER USDACS #244.1
11. REMOVE 4" WHITE EDGE LINE
12. INSTALL 4" WIDE WHITE EDGE LINE IN PAVEMENT TRANSITION
13. INSTALL "ONSTREET PARKING PROHIBITED" SIGN
14. INSTALL 100W (LED EQUIVALENT) STREETLIGHT AND FOUNDATION PER CCAUSD #314, #320, AND #321
15. INSTALL 250W (LED EQUIVALENT) STREETLIGHT AND FOUNDATION PER CCAUSD #314, #320, AND #321
16. INSTALL 1-1/4" PVC STREETLIGHT CONDUIT WITH (2) #4 AND (1) #8 THW COPPER CONDUCTORS AND PULL STRING
17. INSTALL #3-1/2 PULL BOX PER CCAUSD #326, #327, AND #328
18. INSTALL 200 AMP SERVICE PEDESTAL FOR PUBLIC STREET LIGHTING ON DORELL LN. AND DECATUR BLVD. PER CCAUSD #330, #331, #332.1 AND #335.1
19. INSTALL 200 AMP SERVICE PEDESTAL FOR LANDSCAPE METERS & PRIVATE ON-SITE STREET LIGHTING PER CCAUSD #330, #331, #332.1 AND #335.1
20. INSTALL TYPE 4 LANE LINE
21. INSTALL 2' WIDE "STOP BAR"
22. INSTALL 2" PVC STREETLIGHT CONDUIT WITH (2) #4 AND (1) #8 THW COPPER CONDUCTORS AND PULL STRING
23. INSTALL W14-2 PER CCAUSD #249.1
24. FIRE LANE MARKING PER IFC: 503.3 SEE GENERAL NOTE# 27



KEY MAP
SCALE: NTS

LEGEND

- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED "L" TYPE CURB
- EXISTING "L" TYPE CURB
- PROPOSED FIRE STRIPING
- PROPOSED 250W STREETLIGHT
- PROPOSED 100W STREETLIGHT
- EXISTING STREETLIGHT
- PROPOSED STREET SIGN
- EXISTING STREET SIGN
- PROPOSED BLUE REFLECTIVE MARKER
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED 200 AMP SERVICE PEDESTAL
- SIGHT VISIBILITY ZONE

ON-STREET PARKING IN MARKED FIRE LANES **PROHIBITED**
TYPE "B" 24" x 18" "PROHIBITED" SIGN

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

NO PARKING ANY TIME
R7-1 12 X 18

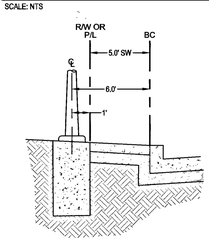
SPEED LIMIT 25
R2-1 24 X 30

SPEED LIMIT 35

Street Name
D3 9" STREET NAME

NO OUTLET
W14-2 "NO OUTLET" SIGN

SIGNS
SCALE: NTS



STREETLIGHT DETAIL W/ SW
NTS

PUBLIC 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: DECATUR BOULEVARD @ STA: 31+16.79

CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION	N/A

ENGINEER OF THE OFFSITE PLANS

PERSON WHO DID THE CALCULATIONS:	RCP
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	0 NUMBER OF 100 WATT STILTS @ 1 AMPS/EA	0	AMPS
6	3 NUMBER OF 250 WATT STILTS @ 1.5 AMPS/EA	4.5	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD	4.5	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 6)	43.5	AMPS

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: SLV90 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

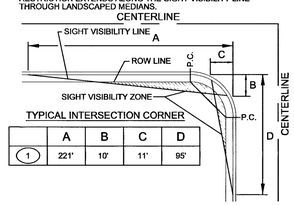
NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 91, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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, 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.



TYPICAL INTERSECTION CORNER

	A	B	C	D
1	221'	10'	11'	95'

BACK OF CURB LINE TABLE

LINE #	BEARING	LENGTH
L1	N0°47'07"W	104.57'
L2	N86°51'10"E	134.88'
L3	S86°51'10"W	130.88'
L4	N0°47'07"W	83.57'
L5	N86°51'10"E	242.43'
L6	N86°51'10"E	264.62'

BACK OF CURB CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	45.89'	30.00'	87.64°	28.79
C2	17.62'	20.00'	50.48°	9.43
C3	198.60'	40.50'	280.96°	33.41
C4	17.62'	20.00'	50.48°	9.43
C5	48.36'	30.00'	92.36°	31.26
C6	45.89'	30.00'	87.64°	28.79

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

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

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.

APPROVAL

LAS VEGAS FIRE & RESCUE — DATE 9/20/18

L18-00903
107Y5067-2

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

TRAFFIC PLAN
DECATUR DONALD II
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

#	DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER — STATE OF NEVADA — DARRYL C. LATTIMORE — EXP: 12/31/19 — CIVIL — No. 17516 — 7-19-18

DATE	07/19/2018
DRAWN	RWF
DESIGNED	RWF
CHECKED	ALW/DCL
PROJECT #	BZR011803

SHEET TITLE
TRAFFIC

SHEET NUMBER
C10
SHT. 10 OF 10

Plot Stamp: 7/23/2018 1:32:46 PM - Roland Frye
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