

CC GENERAL NOTES

- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
- EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600)
- CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.
- NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITIES REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET ROW SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.
- REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, WALL SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
- THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 809 OF THE "STANDARD SPECIFICATIONS".
- ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS LISTED WITHIN THE PLAN SET WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.
- 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:
NVE ENERGY PHONE: 1-800-227-2600 OR 811
CENTURYLINK TELEPHONE- NEVADA PHONE: 1-800-227-2600 OR 811
SOUTHWEST GAS CORPORATION PHONE: 1-(702) 400-1789
LAS VEGAS VALLEY WATER DISTRICT PHONE: 1-(702) 870-2011

CC PUBLIC WORKS TRAFFIC NOTES

- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER. REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1986 AND TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
- THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM TO THE CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS V SHEETING.
- IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
- PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
- ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A123.
- ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH EXCEPT AS NOTED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "OPL" FOR LED LUMINAIRES. OPL CAN BE FOUND ONLINE AT [HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX](http://www.clarkcountynv.gov/public-works/pages/default.aspx).
- THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 702-455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
- F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T. CITY OF LAS VEGAS, CLARK COUNTY AND NDOT MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. \$2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
- ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING. SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
- TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE LED TYPE.
- ELECTRICAL POWER SERVICE POINT LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.
- WHEN STREET LIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.
- CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPE" APPEARANCE.
- TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.
- THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

UTILITY DISCLAIMER

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

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 7,604.03 CY CUT / 5,251.65 CY FILL / 2,352.38 CY NET CUT
NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

CC PUBLIC WORKS DEVELOPMENT REVIEW NOTES

- INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE. (702) 455-4610. THE PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
- EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
- CURB AND GUTTER WITH A GRADE LESS THAN 4:10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2) INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
- ALL OFFSITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "OPL" FOR LED LUMINAIRES. OPL CAN BE FOUND ONLINE AT: [HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX](http://www.clarkcountynv.gov/public-works/pages/default.aspx)
- PRIVATE STREETS, CURB AND GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 225. EXACT LOCATIONS OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
- PROPER SIGNS, BARRIERS, BARRICADES, AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS OFF-SITE INSPECTOR @ 702-455-4610.
- THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
- NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUCTED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
- A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITTEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
- COMPACTION TESTS ARE REQUIRED.

CC FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE 2007 EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.
- FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE PREVENTION BUREAU PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 8 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 35,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES EXCEPT: TEMPORARY ACCESS ROADS SERVING ONLY BUILDING UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE CODE.
- PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.
- BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED, (SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED).
- HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE PREVENTION BUREAU.

STORMWATER RUNOFF MANAGEMENT NOTES

- THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR10000, SECTION IIA.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR10000, SECTION IIA.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

BASIS OF BEARING

S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 80 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

LEGAL DESCRIPTION

THE EAST HALF (E 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 80 EAST, M.D.M.

BENCHMARK

CLV BM# 64 STA 9LV007VW#6
CLV BM# 65 STA 9LV008VW#6
ROAD OPPOSITE TEE FEE LANE
780.959 METERS (NAV D 88) 2562.17 FEET

LAS VEGAS VALLEY WATER DISTRICT NOTES

- LVVWD PROJECT #126326
- 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 COMMUNICATIONS 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 NUMBER IDENTIFIED ABOVE.
 - 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 SUPERCEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 - 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.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 - ALL SERVICE LATERALS TWO INCHES (2") IN DIAMETER AND SMALLER SHALL BE TYPE "K" COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY, AND CURB GUTTERS.
 - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 - ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO INCHES (2") AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802 TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 - 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.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
 - TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
 - THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING 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 OWNERS 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.

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 126326, FIRST APPROVED DATE: 5/23/19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

CLV SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DESIGN & 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 CONTRACTORS TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEERS.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE I AGGREGATE BASE.
- ALL MANHOLES IN PAVED STREETS EIGHTY FEET (80') R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY FEET (80') WILL REQUIRE RETROFITTING IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCHES (12") IN DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. INLINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") IN DIAMETER AND ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A MAIN LINE OR THE SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH OF A FOOT (0.1') FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF PVC C900 WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

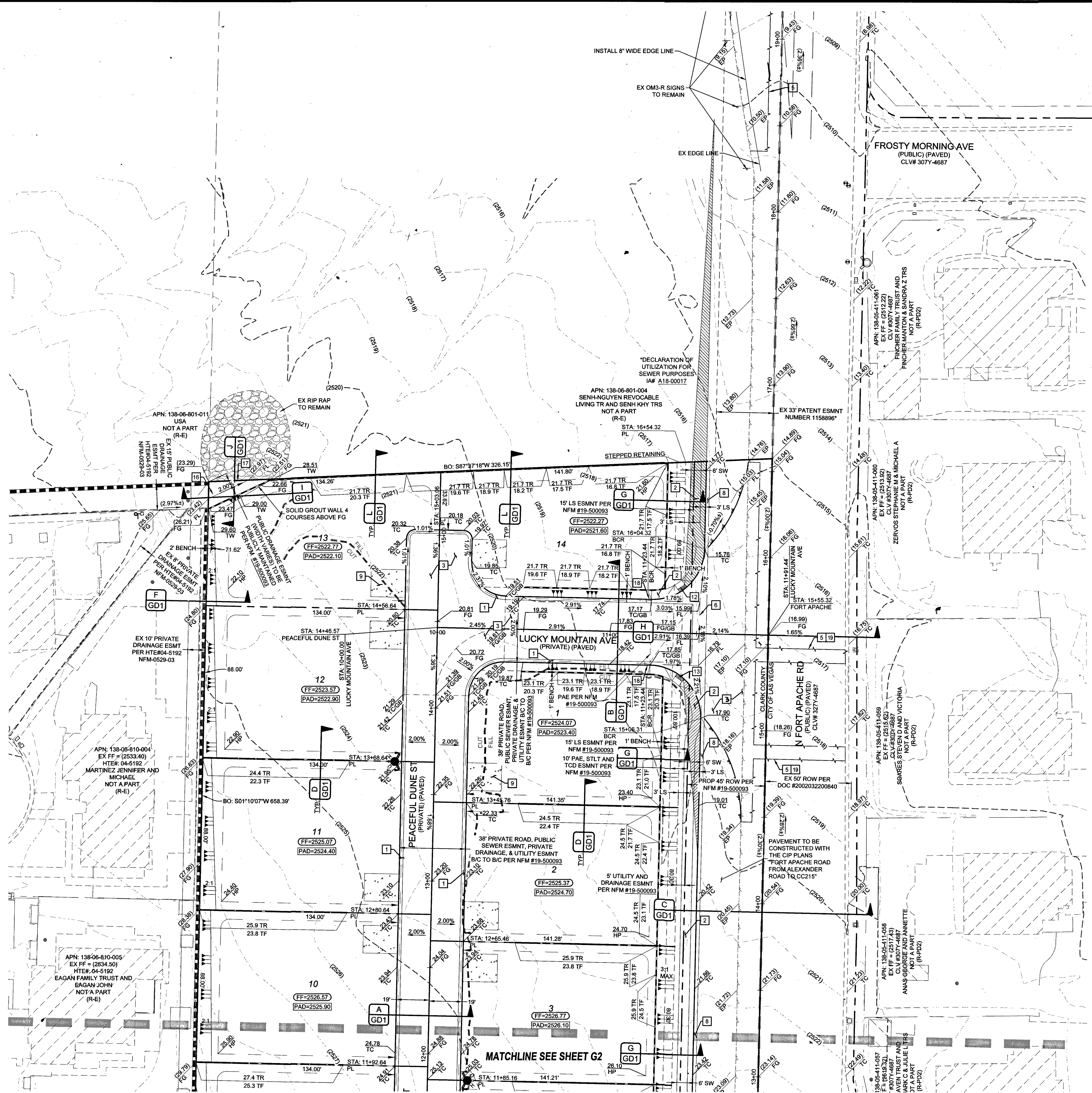
MANHOLE SCHEDULE					
SSMH#	SIZE	STATION & OFFSET	STATE PLANES	RIM ELEV	INV IN
1	48"	10+20.31 - 5.00L (PEACEFUL DUNE ST)	N: 26786594.46 E: 742129.61	2526.97	2519.76 (N)
2	48"	12+37.94 - 5.00L (PEACEFUL DUNE ST)	N: 26786811.94 E: 742134.04	2524.13	2517.15 (S) 2516.96 (N)
3	48"	14+51.58 - 5.00L (PEACEFUL DUNE ST)	N: 26787025.64 E: 742138.40	2520.73	2513.96 (S) 2513.96 (N)
4	48"	14+83.24 - 5.00L (PEACEFUL DUNE ST)	N: 26787057.30 E: 742139.05	2520.34	2514.09 (S)
7	48"	15+60.32 - 20.79L (FORT APACHE)	N: 26787021.90 E: 742314.01	2516.70	2508.49 (W) 2508.29 (N)
8	48"	19+36.96 - 20.79L (FORT APACHE)	N: 26787398.46 E: 742322.02	2508.28	2500.76 (S) 2500.56 (N)

CLV GENERAL NOTES

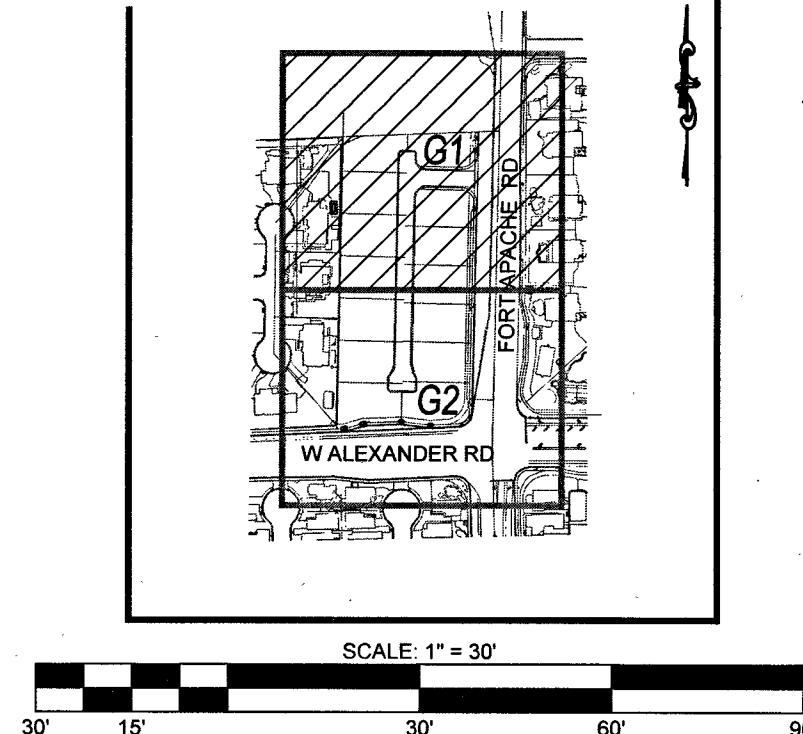
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, NEVADA AREA", LATEST EDITION. THE UNIFORM STANDARD SPECIFICATIONS FOR CONSTRUCTION, CLARK COUNTY AREA, NEVADA, LATEST REVISION EDITION, 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".
 - 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 REFERENCE 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 INTERFERENCES 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.
 - 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.
 - ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
 - TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE CITY. PRIOR TO USE ON THE PROJECT.
 - PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
 - EXPANSION JOINTS REQUIRED, MAXIMUM OF EVERY 300' IN EXTRUDED-TYPE CURB.
 - AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
 - CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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:
- ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONS, FLOOD CONTROL, AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
 - ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
 - CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
 - 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.
 - 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, 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).
 - 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.
 - A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

SOUTHERN NEVADA SOUTHWEST GAS CORP. GENERAL NOTES

- IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
- MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY POLYMER, POLYETHYLENE, POLYPROPYLENE, POLYBUTYLENE, POLYISOBUTYLENE, POLYETHYLENE TEREPHTHALATE, POLYESTER, POLYAMIDE, POLYCARBONATE, POLYACETAL, POLYURETHANE, POLYURETHANE FIBER, POLYURETHANE FOAM, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE ADHESIVE, POLYURETHANE SEALANT, POLYURETHANE COATING, POLYURETHANE PAINT, POLYURETHANE INK, POLYURETHANE PASTE, POLYURETHANE POWDER, POLYURETHANE FLUID, POLYURETHANE SOLID, POLYURETHANE GEL, POLYURETHANE CRYSTAL, POLYURETHANE LIQUID, POLYURETHANE GAS, POLYURETHANE VAPOR, POLYURETHANE DUST, POLYURETHANE PARTICULATE, POLYURETHANE AEROSOL, POLYURETHANE FOG, POLYURETHANE SMOKE, POLYURETHANE MIST, POLYURETHANE FIBER, POLYURETHANE GLASS, POLYURETHANE RESIN, POLYURETHANE AD



KEY MAP



CONSTRUCTION NOTES

1. 24" R-TYPE CURB (CCAUSSD #217.3 S1)
2. SIDEWALK (CCAUSSD #234)
3. 2" AC PAVEMENT OVER 4" TYPE II PER 2014 REPORT (PWN-1947M)
4. NOT USED
5. SAWCUT & MATCH EXISTING AC PAVEMENT (CCAUSSD #500.3 & #500.5)
6. 8" CROSS GUTTER (CCAUSSD #228)
7. REMOVE EX RIP RAP
8. 24" L-TYPE CURB & GUTTER (PER CCAUSSD #216)
9. CONSTRUCT 16" DRIVEWAY (PER CCAUSSD #223)
10. EX CURB TO BE REMOVED
11. EX STLT TO BE RELOCATED
12. INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE I) A=9.5', B=4.5'
13. INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE I) A=9', B=4'
14. EX BLOWOFF VALVE TO BE REMOVED
15. INSTALL TYPICAL BUS TURN-OUT PER CCAUSSD #234.1
16. REMOVE EX RIP RAP AND INSTALL 6" CONCRETE OVER 6" TYPE II DRAINAGE CHANNEL
17. CUT OFF WALL (SEE JGD1)
18. L-TYPE CURB TO R-TYPE CURB 3" TRANSITION (SEE CCAUSSD #223, DETAIL NGD1)
19. TRENCH & BACKFILL (CCAUSSD #503)
20. INSTALL 6" WIDE EDGE LINE
21. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (CCSWCS SD-1A, SD-1B, & SD-4)
22. PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE

BASIS OF BEARING

S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 8, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 18, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLV BM# 54 STA 91007VWNEB
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LAKE
780.959 METERS (NAVD 83) 2562.17 FEET

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 7,604.03 CY CUT / 5,251.65 CY FILL / 2,352.38 CY NEW CUT

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C2135F, REVISED 11/16/2011.

UTILITY DISCLAIMER

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

GRADING NOTES

ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

SVZ NOTE

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

GRADING CERTIFICATION, CC

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, PW 18-15561, ON FILE WITH CLARK COUNTY AND DS5073A, ON FILE WITH CITY OF LAS VEGAS, FOR THIS PROJECT.

JUSTIN THORNE, PE
DATE: 5/20/2019

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DERIVED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

FAST
Call before you Undergo
1-702-432-5300
SYSTEM OF TRANSPORTATION

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
811
OR
1-800-227-2600

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
6538 SOUTH ESCONDIDO ST, SUITE B
LAS VEGAS, NV 89119
(702) 897-1424

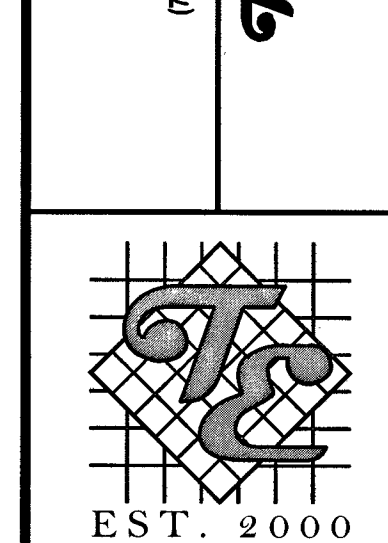
REPORT NO: 14051-LVR

DATE: 04/26/2019

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

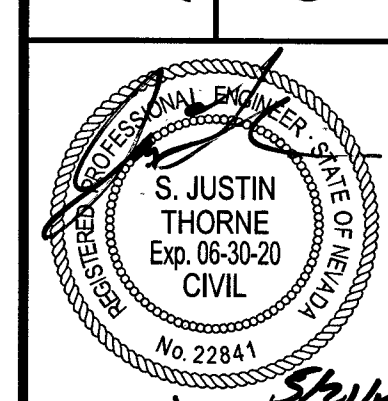
ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 955-8988 FAX: (702) 955-8988

ADAVEN ENGINEERING
800 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-3233

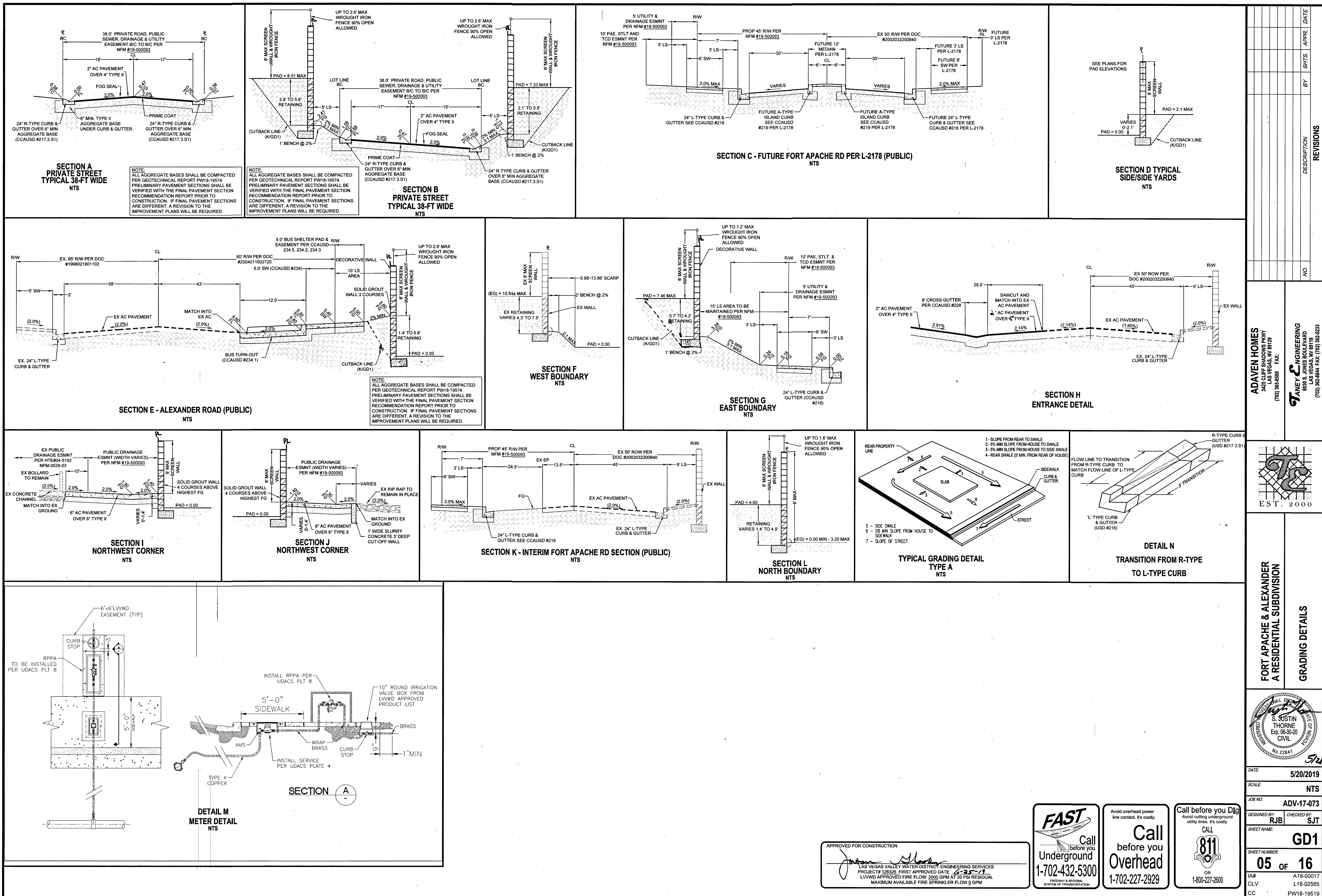


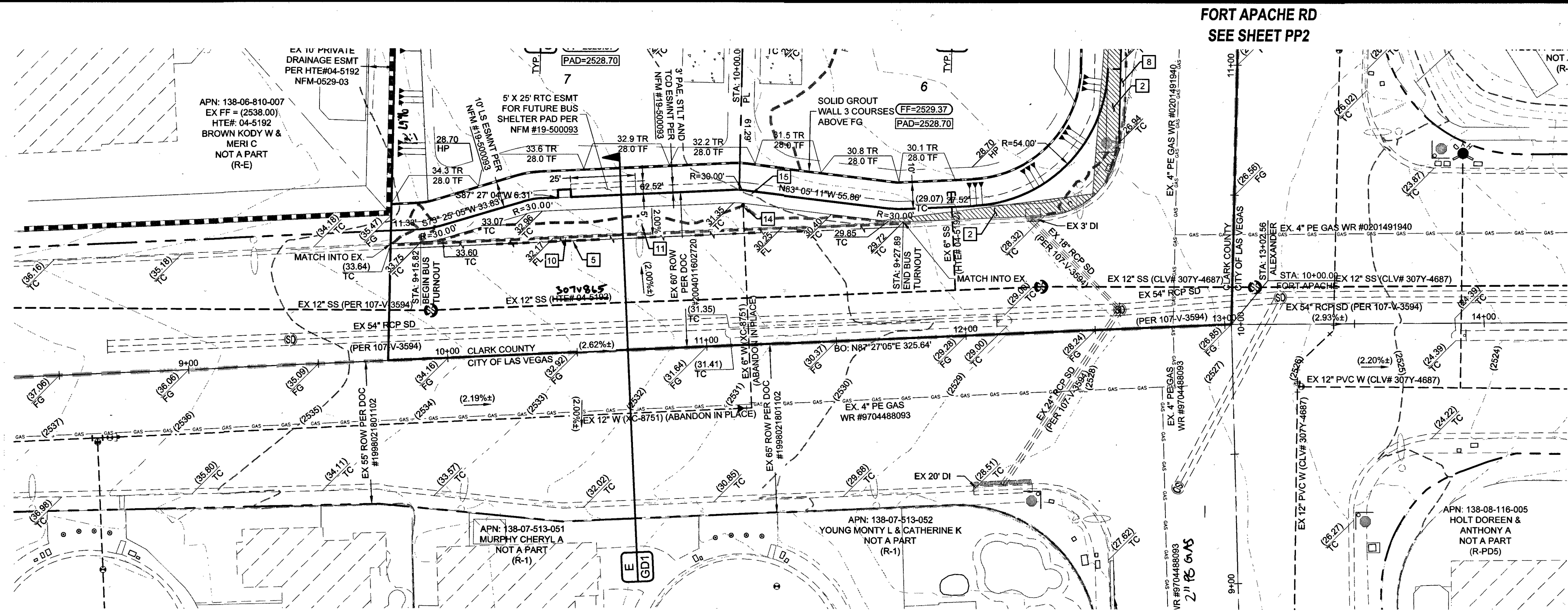
FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION

GRADING PLAN - NORTH

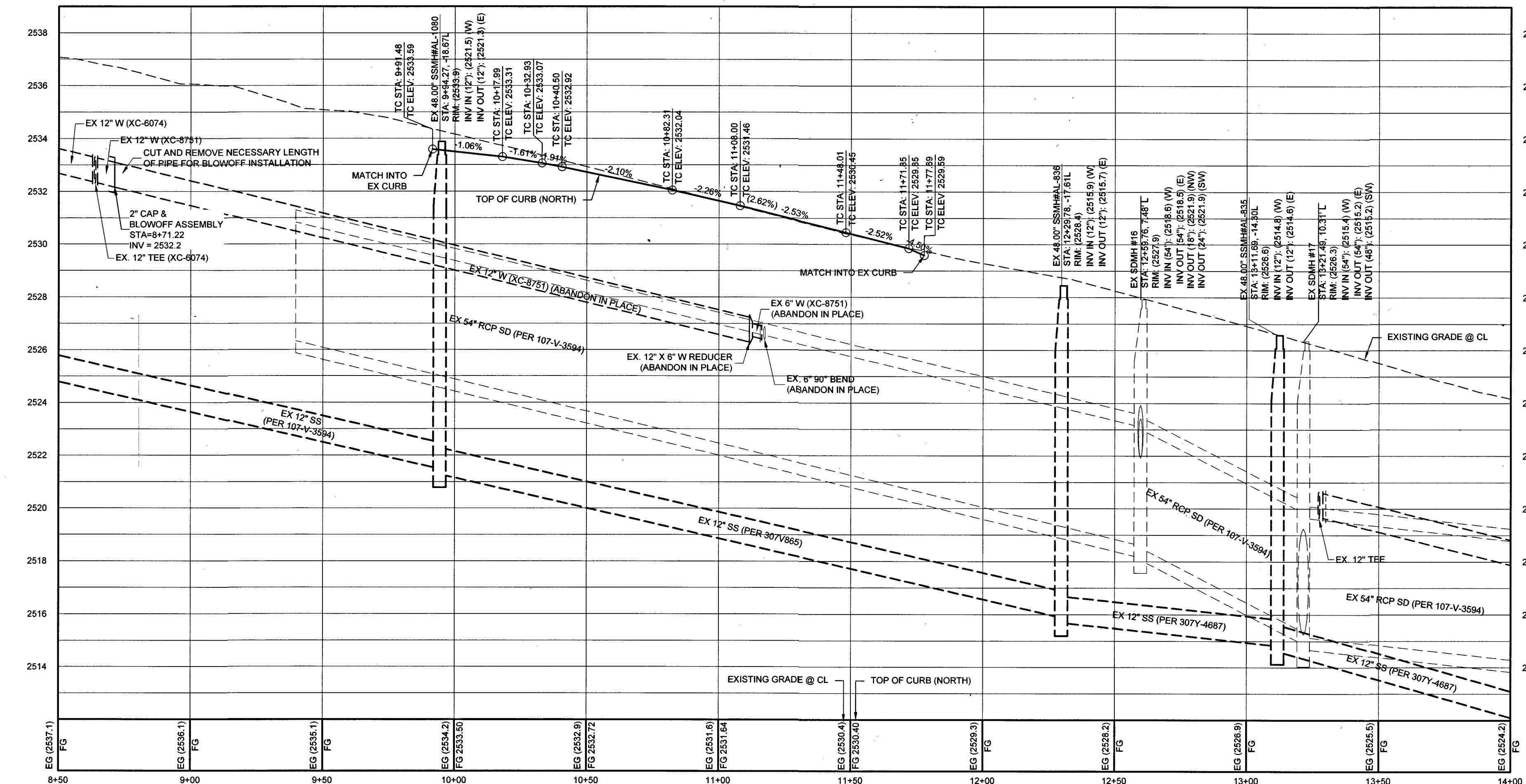


DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB CHECKED BY: SJT
SHEET NAME: G1
SHEET NUMBER: 03 OF 16
IA#: A18-00017
CLV: L18-02565
CC: PW18-19519

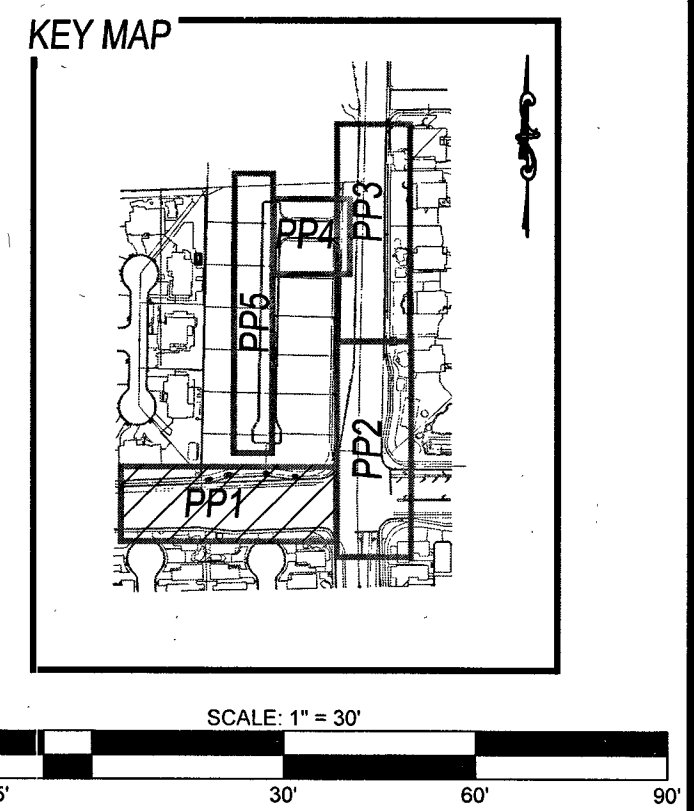




ALEXANDER RD (PUBLIC) - PLAN
STA: 9+50.00 TO 14+00.00



ALEXANDER RD (PUBLIC) - PROFILE
STA: 9+50.00 TO 14+00.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL



- CONSTRUCTION NOTES**
- 24" R-TYPE CURB (CCAUSSD #217.3.S1)
 - SIDEWALK (CCAUSSD #234)
 - 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (PW18-19574)
 - NOT USED
 - SAWCUT & MATCH EXISTING AC PAVEMENT (CCAUSSD #500.3 & #500.5)
 - 8" CROSS GUTTER (CCAUSSD #228)
 - REMOVE EX RIP RAP
 - 24" L-TYPE CURB & GUTTER (PER CCAUSSD #216)
 - CONSTRUCT 16" DRIVEWAY (PER CCAUSSD #223)
 - EX CURB TO BE REMOVED
 - EX STLT TO BE RELOCATED
 - INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE I) A=9.5', B=4.5'
 - INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE I) A=8', B=8'
 - EX BLOWOFF VALVE TO BE REMOVED
 - INSTALL TYPICAL BUS TURN-OUT PER CCAUSSD #234.1
 - REMOVE EX RIP RAP AND INSTALL 6" CONCRETE OVER 6" TYPE II DRAINAGE CHANNEL
 - CUT OFF WALL (SEE JGD1)
 - L-TYPE CURB TO R-TYPE CURB 3' TRANSITION (SEE CCAUSSD# 223, DETAIL NGD1)
 - TRENCH & BACKFILL (CCAUSSD #503)
 - INSTALL 8" WIDE EDGE LINE
 - INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
 - PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE

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**CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING**

DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB
CHECKED BY: SJT
SHEET NAME: PP1
SHEET NUMBER: 06 OF 16
I/A# A18-00017
CLV L18-02565
CC PW18-19519

UTILITY DISCLAIMER
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BENCHMARK
CLV BM# 94 STA 9+00.00
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.959-METERS (NAV8 88) 2562.17-FEET

PROFILE NOTES
ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BASIS OF BEARING
S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 15 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

Call before you Overhead
1-702-227-2929

Call before you Underground
1-702-432-5300

FAST
Underground
1-702-432-5300

GEOTECHNICAL
GEOTEK RESIDENTIAL, LLC
6538 SOUTH ESCONDIDO ST., SUITE B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO: 14051-LVR
DATE: 04/26/2019

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.

WATER MAIN JOINT DEFLECTION NOTE (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 MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

ACCEPTANCE OF PLANS
SOUTHWEST GAS CORPORATION
DATE: 5/23/19

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 125326, FIRST APPROVED DATE: 4-25-18
L/VVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW @ GPM

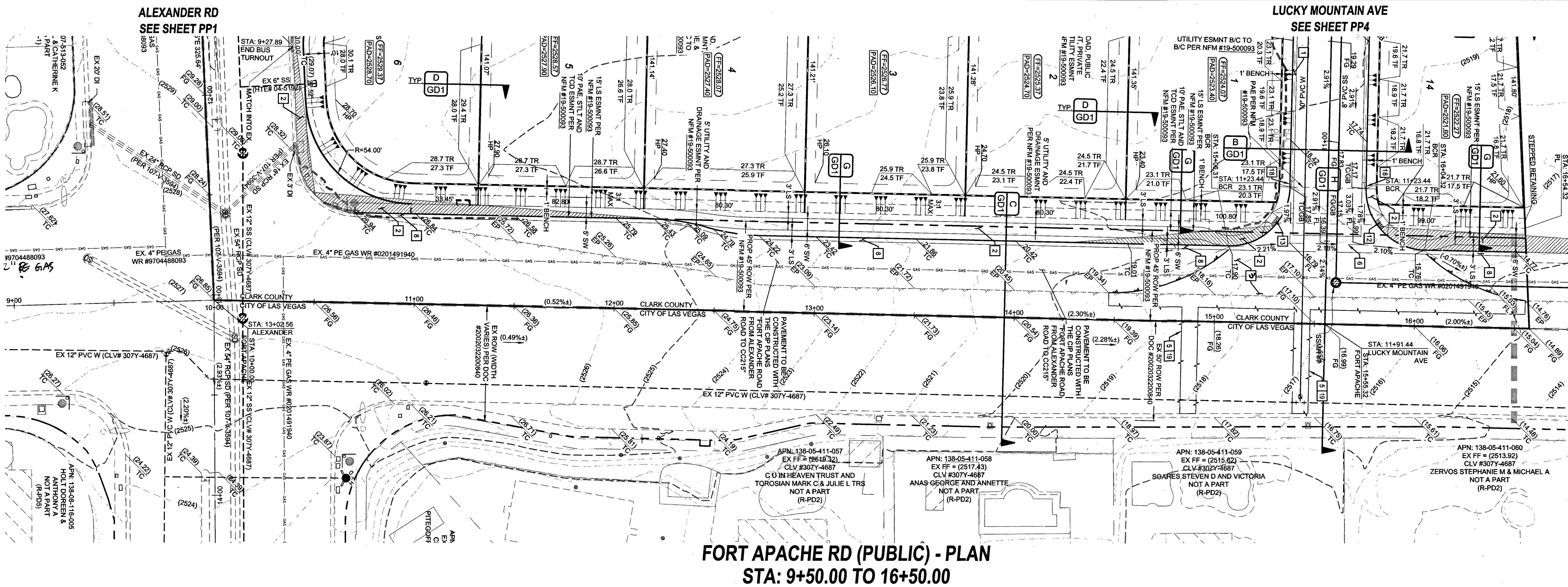
ADAVEN HOMES
3435 CLARK COUNTY BLVD
LAS VEGAS, NV 89129
(702) 365-8888 FAX: (702) 365-8888

PLANET J ENGINEERING
6033 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-3233

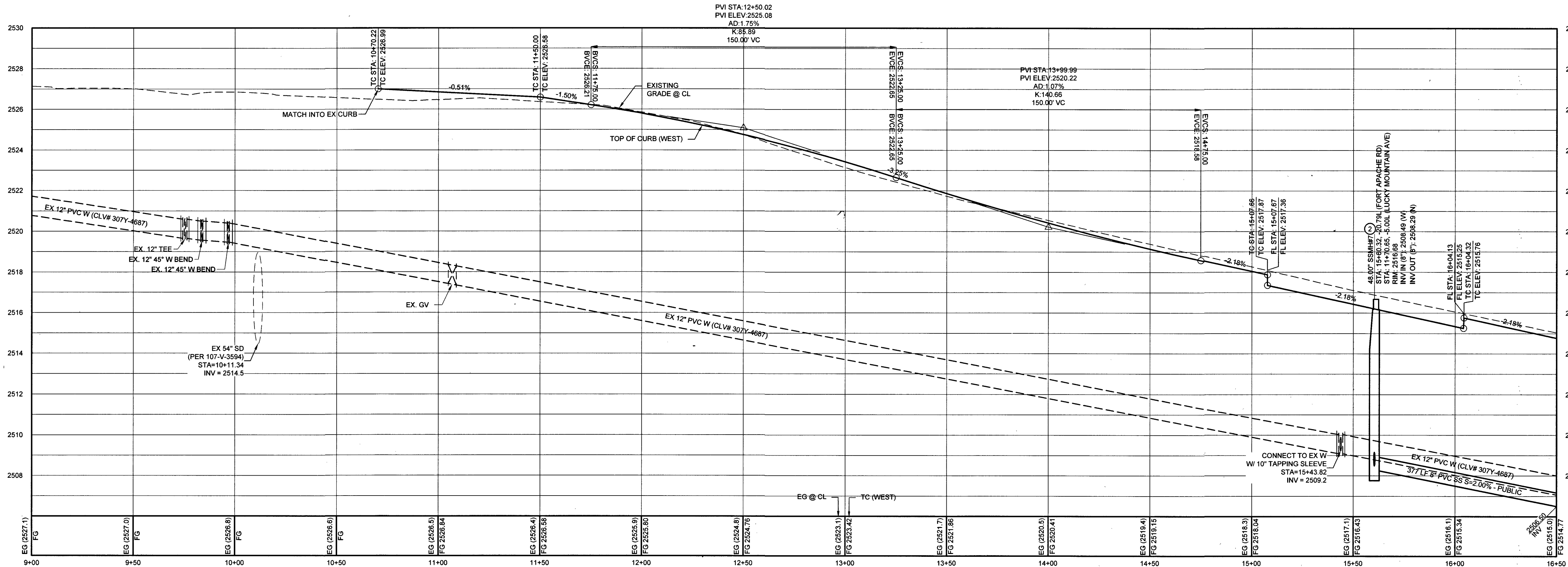
**FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION**
PLAN AND PROFILE 1
ALEXANDER RD
STA: 9+50 TO 14+00

S. JUSTIN THORNE
Exp. 05-20-20
CIVIL
No. 22841

DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB
CHECKED BY: SJT
SHEET NAME: PP1
SHEET NUMBER: 06 OF 16
I/A# A18-00017
CLV L18-02565
CC PW18-19519



FORT APACHE RD (PUBLIC) - PLAN
STA: 9+50.00 TO 16+50.00



FORT APACHE RD (PUBLIC) - PROFILE
STA: 9+50.00 TO 16+50.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

- CONSTRUCTION NOTES**
- 24" R-TYPE CURB (CCAUSS #217.3 S1)
 - SIDEWALK (CCAUSS #234)
 - 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (PW18-19574)
 - NOT USED
 - SAWCUT & MATCH EXISTING AC PAVEMENT (CCAUSS #500.3 & #500.5)
 - 8" CROSS GUTTER (CCAUSS #228)
 - REMOVE EX RIP RAP
 - 24" L-TYPE CURB & GUTTER (PER CCAUSS #216)
 - CONSTRUCT 16" DRIVEWAY (PER CCAUSS #223)
 - EX CURB TO BE REMOVED
 - EX STL TO BE RELOCATED
 - INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSS #235 CASE I) A=8", B=4"
 - INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSS #235 CASE I) A=8", B=4"
 - EX BLOWOFF VALVE TO BE REMOVED
 - INSTALL TYPICAL BUS TURN-OUT PER CCAUSS #234.1
 - REMOVE EX RIP RAP AND INSTALL 6" CONCRETE OVER 6" TYPE II DRAINAGE CHANNEL
 - CUT OFF WALL (SEE JGD1)
 - L-TYPE CURB TO R-TYPE CURB 3" TRANSITION (SEE CCAUSS #223, DETAIL NGD1)
 - TRENCH & BACKFILL (CCAUSS #503)
 - INSTALL 8" WIDE EDGE LINE
 - INSTALL 48" STANDARD MANHOLE W SINGLE 24" LID (CCSSW 30-1A, 30-1B, & 30-4)
 - PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE

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

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

REVISIONS		BY		DATE	
NO.	DESCRIPTION	SHTS.	APPR.	DATE	

ADAVEN HOMES 3415 LAS VEGAS BLVD. #100 LAS VEGAS, NV 89119 (702) 365-8888 FAX: (702) 365-8888		TANNEY ENGINEERING 6030 S. JONES BOULEVARD LAS VEGAS, NV 89118 (702) 362-8844 FAX: (702) 362-3233	
---	--	---	--

FORT APACHE & ALEXANDER A RESIDENTIAL SUBDIVISION PLAN AND PROFILE 2 FORT APACHE RD STA: 9+50 TO 16+50			
---	--	--	--

DATE:	5/20/2019
SCALE:	1"=30'
JOB NO:	ADV-17-073
DESIGNED BY:	RJB
CHECKED BY:	SJT
SHEET NAME:	PP2
SHEET NUMBER:	07 OF 16
I&R:	A18-00017
CLV:	L18-02565
CC:	PW18-19519

UTILITY DISCLAIMER
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BENCHMARK
CLV BM# 64 STA 9LV07VWNE
CLV BENCHMARK IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
790.959 METERS (NAVD 83) 2562.17 FEET

PROFILE NOTES
ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

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Call before you Overhead
1-702-227-2929

Call before you Dig
1-800-227-2800

FAST
Underground
1-702-432-5300

GEOTECHNICAL
GEOTEK RESIDENTIAL, LLC
6538 SOUTH ESCONDIDO ST, SUITE B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO: 14051-LVR
DATE: 04/26/2019

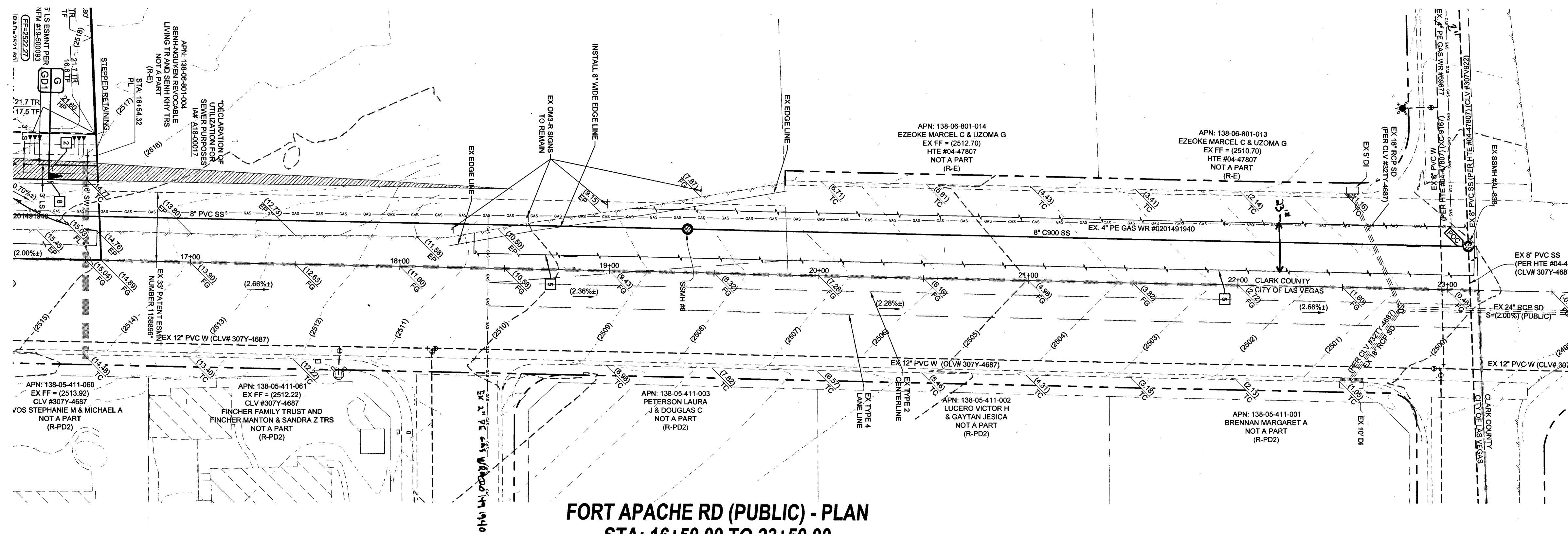
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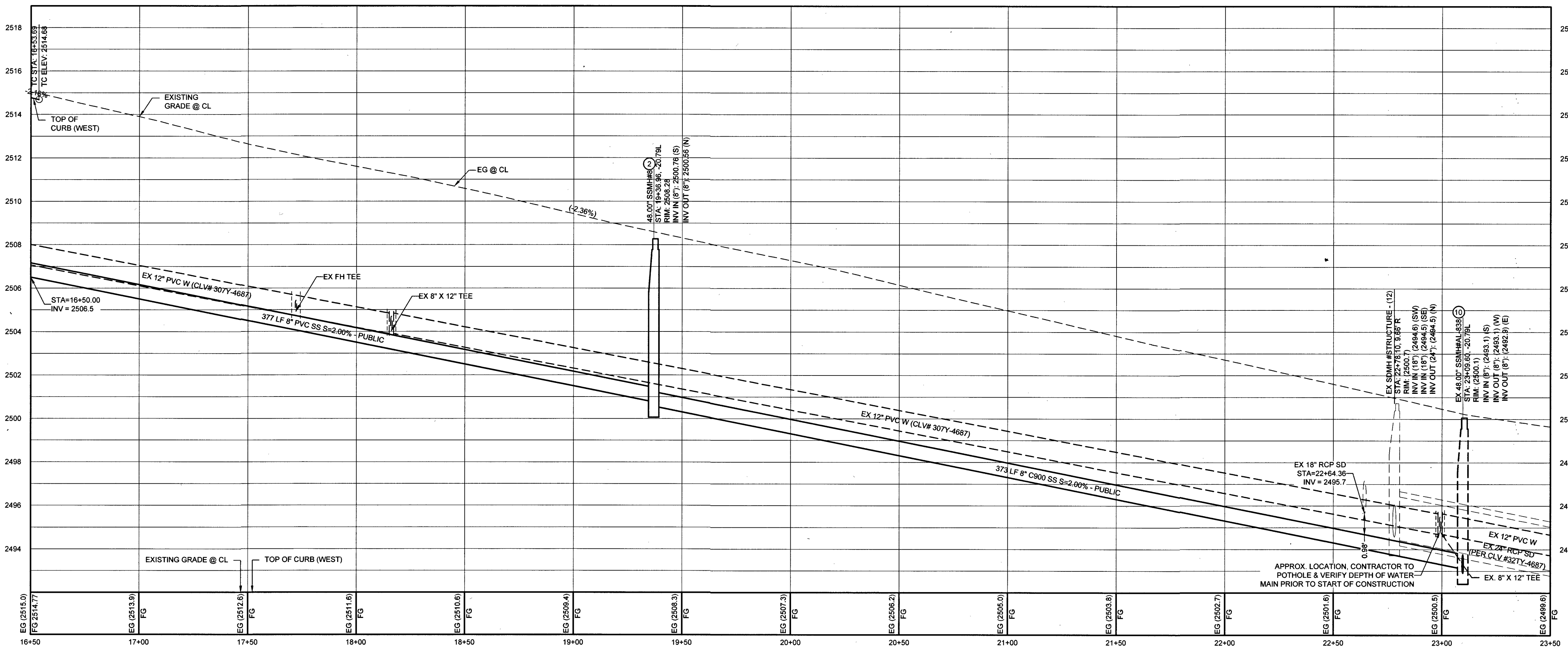
ACCEPTANCE OF PLANS
SOUTHWEST GAS CORPORATION
5/23/19
DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 128336 FIRST APPROVED DATE
LWWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

FORT APACHE RD
MATCHLINE SEE SHEET PP2



FORT APACHE RD (PUBLIC) - PLAN
STA: 16+50.00 TO 23+50.00



FORT APACHE RD (PUBLIC) - PROFILE
STA: 16+50.00 TO 23+50.00
SCALE: 1\"/>

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
6538 SOUTH ESCONCADO ST, SUITE B
LAS VEGAS, NV 89119
(702) 897-1424

REPORT NO. 14051-LVR
DATE: 04/26/2019

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BENCHMARK

CLV BMM 64 STA 9+00.00
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.959 METERS (NAVD 83) 2562.17 FEET

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- BASIS OF BEARING
S89°19'40\"/>

Call before you Overhead
1-702-227-2929

Call before you Dig
1-800-227-2600

FAST
Underground
1-702-432-5300

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.

WATER MAIN JOINT DEFLECTION NOTE (PVC 4\"/>

ACCEPTANCE OF PLANS

SWITCH GAS CORPORATION
5/23/19

APPROVED FOR CONSTRUCTION

Jordan Alkhalaf
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 128326 FIRST APPROVED DATE: 6/25/18
LIVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

SVZ NOTE

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

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

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CONSTRUCTION NOTES

- 24\"/>
- 2\"/>
- 2\"/>
- NOT USED
- SAWCUT & MATCH EXISTING AC PAVEMENT (CCAUSSD #500.3 & #500.5)
- 8\"/>
- REMOVE EX RIP RAP
- 24\"/>
- CONSTRUCT 16\"/>
- EX CURB TO BE REMOVED
- EX STILT TO BE RELOCATED
- INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE 1) A=9\"/>
- INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE 1) A=9\"/>
- EX BLOWOFF VALVE TO BE REMOVED
- INSTALL TYPICAL BUS TURN-OUT PER CCAUSSD 234.1
- REMOVE EX RIP RAP AND INSTALL 6\"/>
- CUT OFF WALL (SEE JIGD1)
- L-TYPE CURB TO R-TYPE CURB 3\"/>
- TRENCH & BACKFILL (CCAUSSD #503)
- INSTALL 8\"/>
- INSTALL 48\"/>
- PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE.

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ADAVEN HOMES
3423 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-6586 FAX: (702) 365-6587

THANEY ENGINEERING
8000 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION
PLAN AND PROFILE 3
FORT APACHE RD
STA: 16+50 TO 23+50

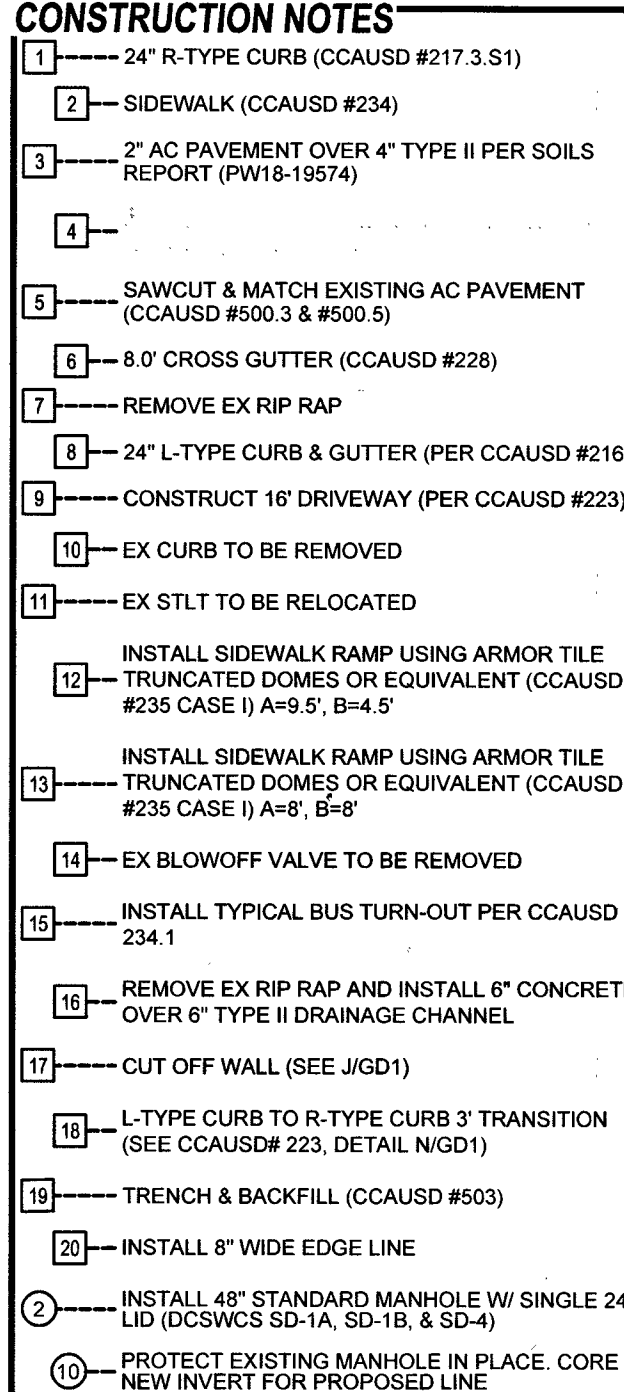
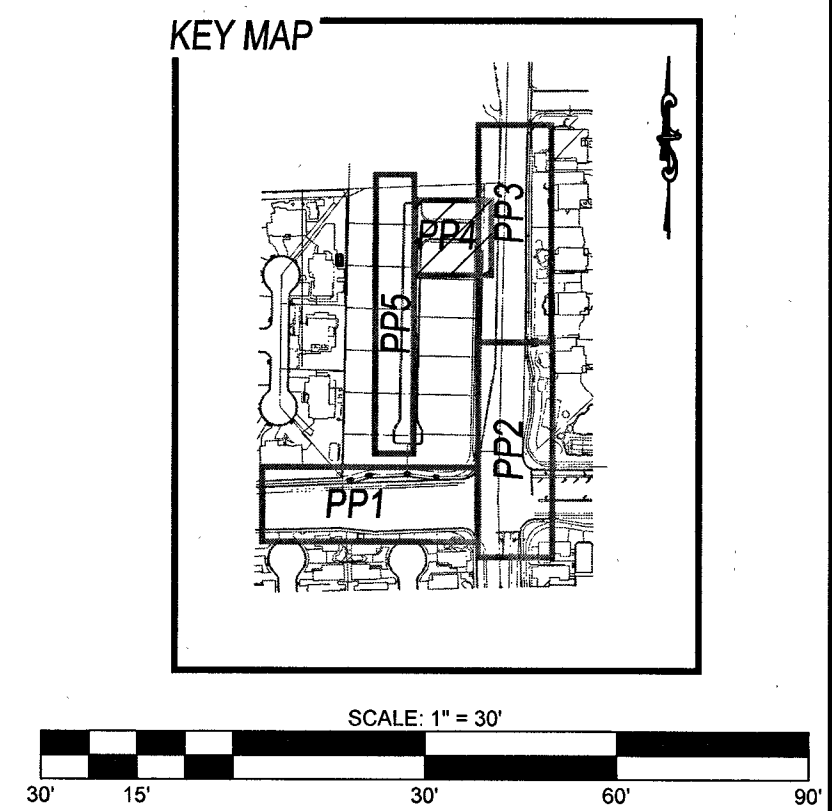
S. JUSTIN THORNE
E.O. 06-30-20
CIVIL
No. 22841

DATE: 5/20/2019
SCALE: 1\"/>

JOB NO: ADV-17-073
DESIGNED BY: RJB CHECKED BY: SJT
SHEET NAME: PP3

SHEET NUMBER: 08 OF 16
IA# A18-00017
CLV L18-02565
CC PW18-19519

PROJ.#: 26326A QS:136-06-SE



SVZ NOTE

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

BY _____ DATE _____

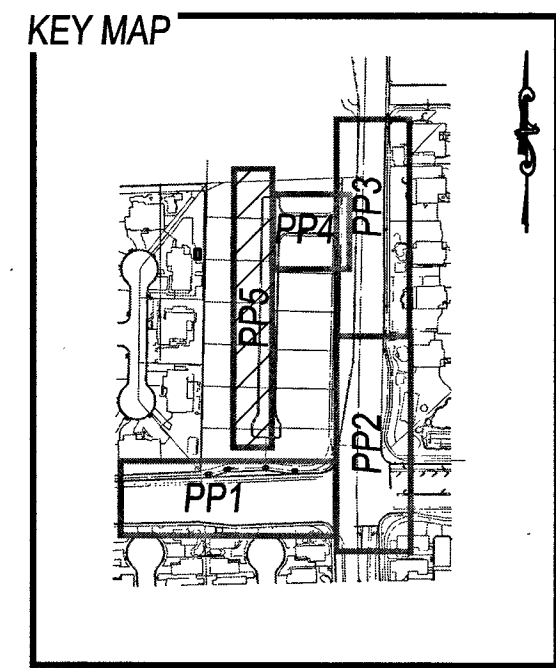
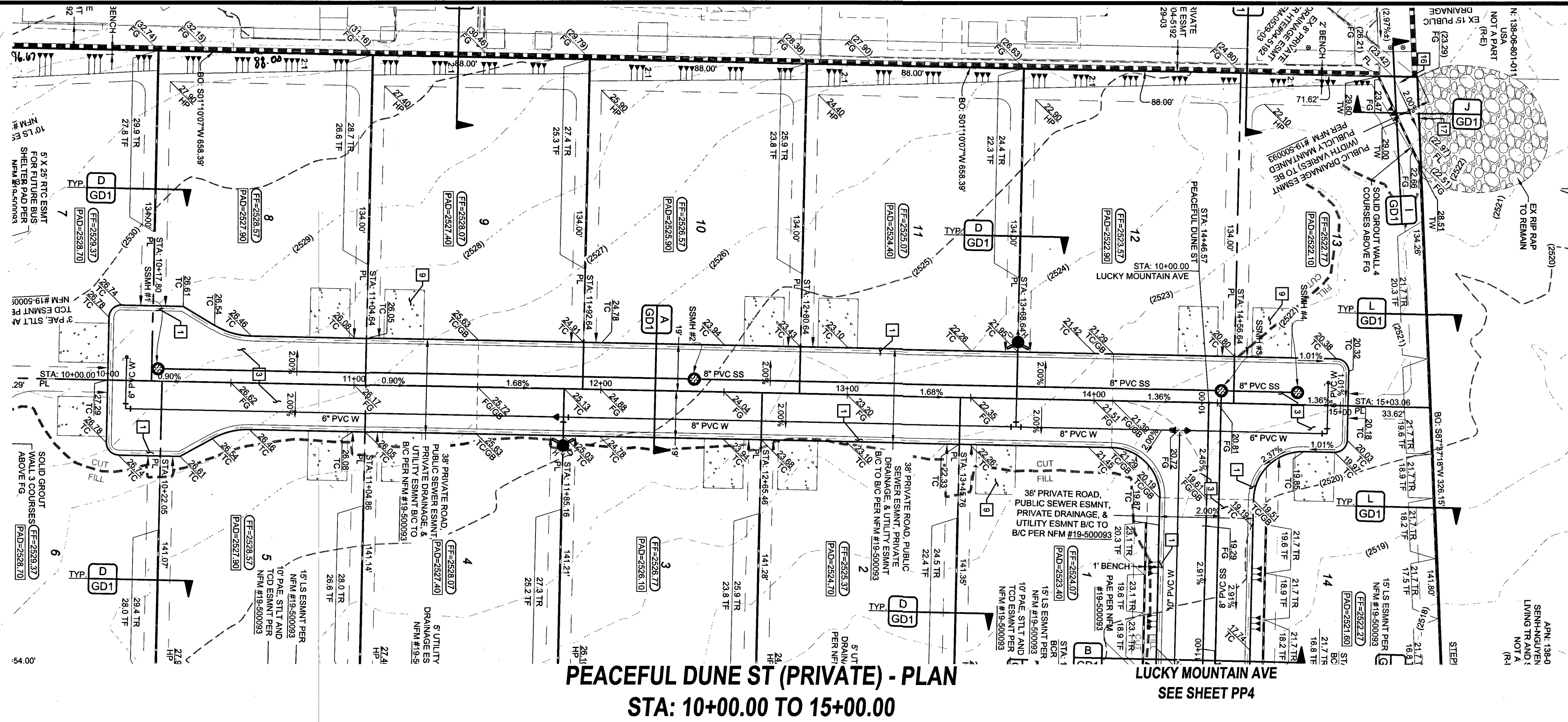
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY

APPROVED FOR CONSTRUCTION


LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 126326 FIRST APPROVED DATE 02-25-19
LVWMD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
DATE 02-25-19 BY J. M. GLAVIN

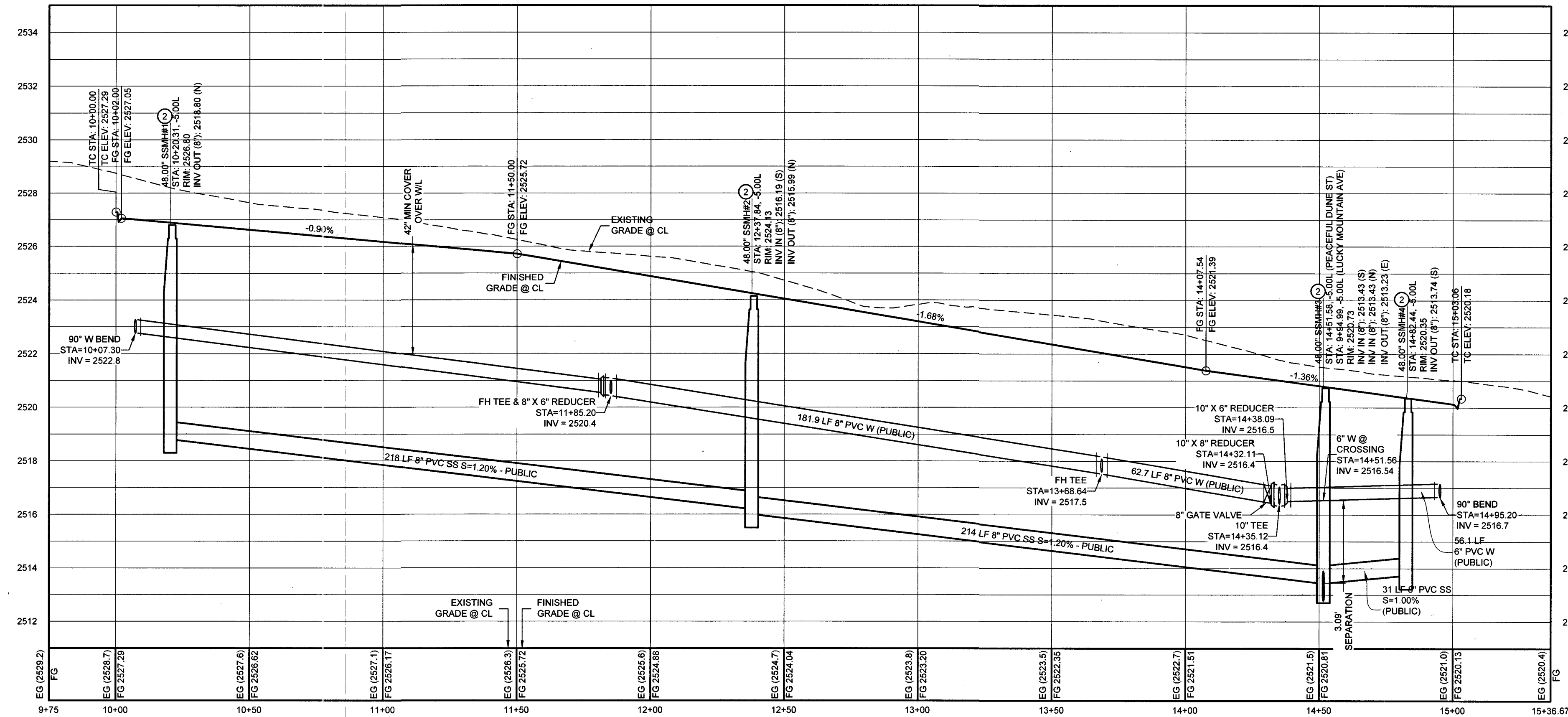
DATE:		5/20/2019	
SCALE:		1"=30'	
JOB NO:		ADV-17-073	
DESIGNED BY:		CHECKED BY:	
RJB		SJT	
SHEET NAME:		PP4	
SHEET NUMBER:		09 OF 16	
IA#	A18-00017		
CLV	L18-Q2565		
CC	PW18-19519		



SCALE: 1" = 30'

PEACEFUL DUNE ST (PRIVATE) - PLAN
STA: 10+00.00 TO 15+00.00

LUCKY MOUNTAIN AVE
SEE SHEET PP4



PEACEFUL DUNE (PRIVATE) - PROFILE
STA: 10+00.00 TO 15+00.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

- CONSTRUCTION NOTES**
- 24" R-TYPE CURB (CCAUSSD #217.3.S1)
 - SIDEWALK (CCAUSSD #234)
 - 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (PW18-19574)
 - SAWCUT & MATCH EXISTING AC PAVEMENT (CCAUSSD #500.3 & #500.5)
 - 8" CROSS GUTTER (CCAUSSD #228)
 - REMOVE EX RIP RAP
 - 24" L-TYPE CURB & GUTTER (PER CCAUSSD #216)
 - CONSTRUCT 16' DRIVEWAY (PER CCAUSSD #223)
 - EX CURB TO BE REMOVED
 - EX STLT TO BE RELOCATED
 - INSTALL SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (CCAUSSD #235 CASE I) A=9.5', B=4.5'
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 - REMOVE EX RIP RAP AND INSTALL 6" CONCRETE OVER 6" TYPE II DRAINAGE CHANNEL
 - CUT OFF WALL (SEE JGD1)
 - L-TYPE CURB TO R-TYPE CURB 3" TRANSITION (SEE CCAUSSD #223, DETAIL NGD1)
 - TRENCH & BACKFILL (CCAUSSD #503)
 - INSTALL 8" WIDE EDGE LINE
 - INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
 - PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE

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CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

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GEOTECHNICAL
GEOTEK RESIDENTIAL, LLC
6538 SOUTH ESCONDIDO ST., SUITE B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO: 14051-LVR
DATE: 04/26/2019

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FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

APPROVED FOR CONSTRUCTION
James H. Hanks
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 128326 FIRST APPROVED DATE: 12-5-21
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW @ GPM

UTILITY DISCLAIMER
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BENCHMARK
CLV BM# 64 STA 9L007/VN66
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.959 METERS (NAV8 88) 2562.17 FEET

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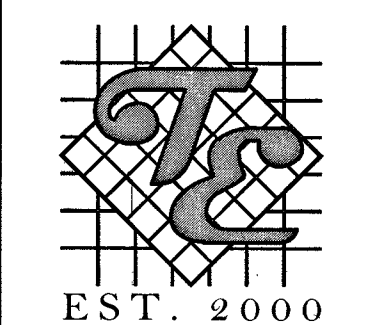
BASIS OF BEARING
S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 50 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

Call before you Overhead
1-702-227-2929

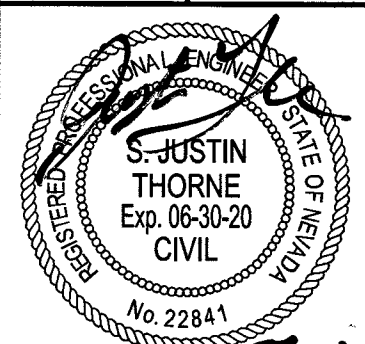
Call before you Underground
1-702-432-5300

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

ADAVEN HOMES
3435 CLEVELAND BLVD. UNIT 100
LAS VEGAS, NV 89129
(702) 365-8888 FAX: (702) 365-8888

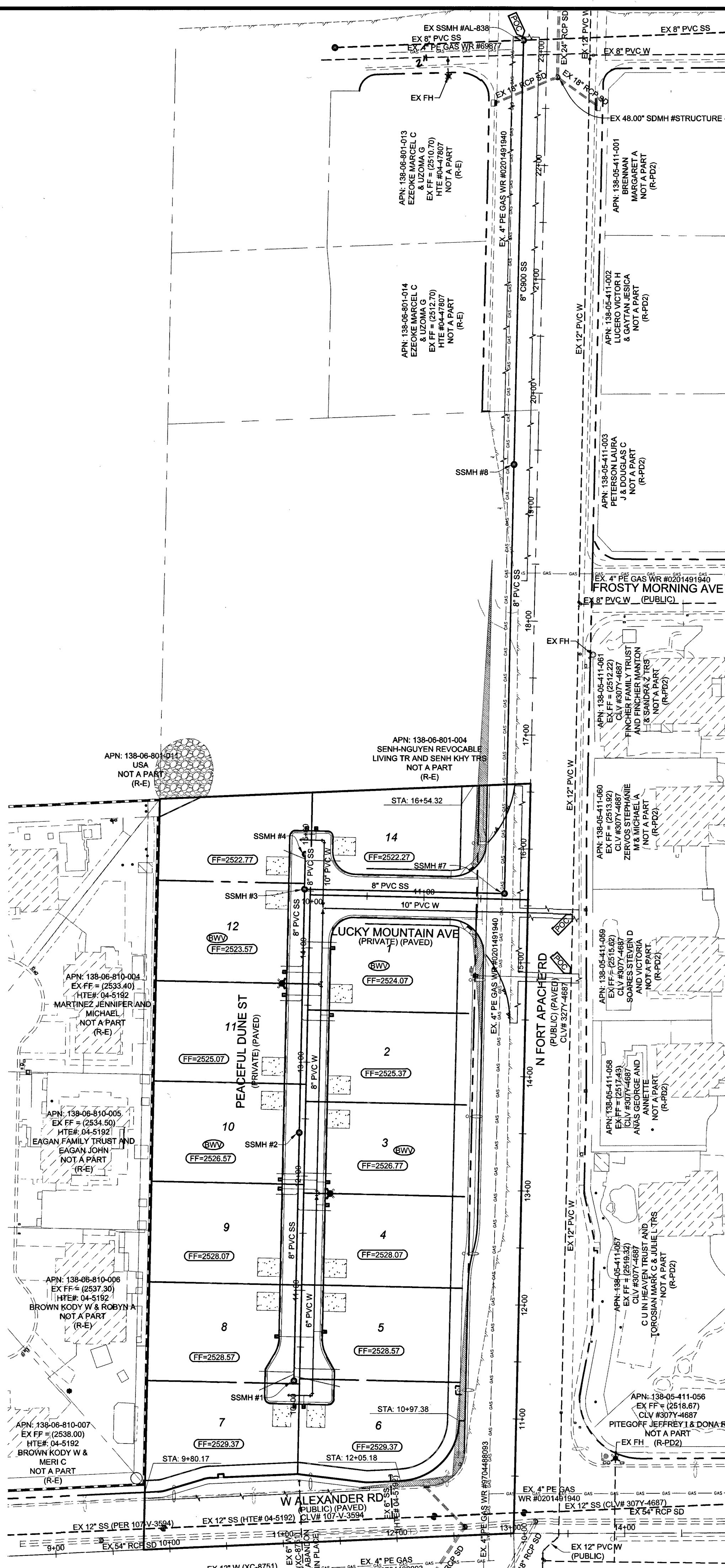
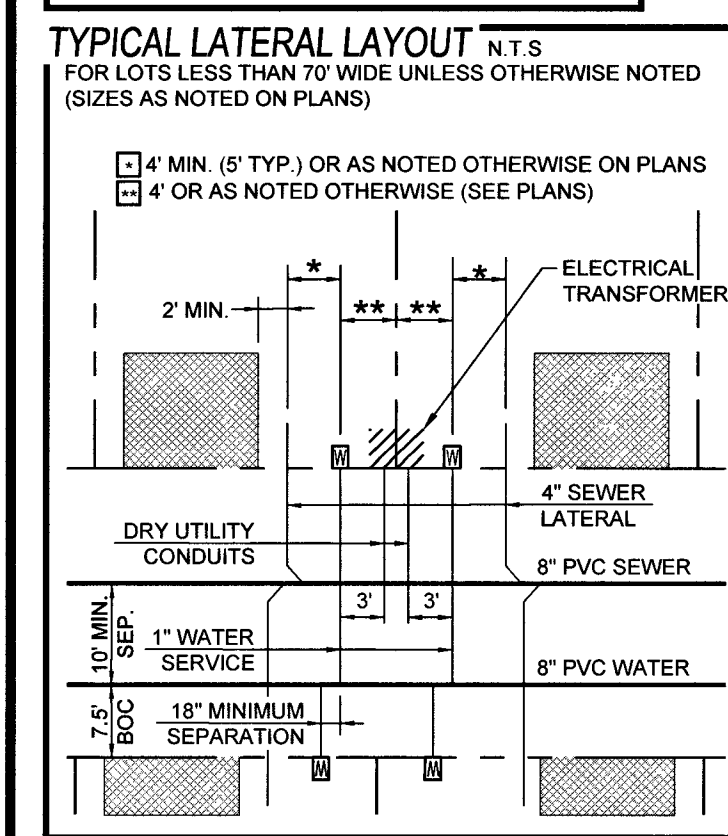


FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION
PLAN AND PROFILE 5
PEACEFUL DUNE ST
STA: 10+00 TO 15+00



DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB CHECKED BY: SJT
SHEET NAME: PP5
SHEET NUMBER: 10 OF 16
I/A# A18-00017
CLV L18-02565
CC PW18-19519

PROJ.# 128326 QA 05-138-06-55



SCALE: 1" = 60'

60' 30' 0 60' 120' 180'

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASSED ON:

LIVABLE AREA: 4,999 SQ FT
AREA UNDER ROOF: 4,999 SQ FT
LARGEST AREA BETWEEN
SEPARATE WALLS: N/A
HEIGHT: 29-FT
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO

OCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE
STORAGE: NO
ESFR SYSTEM: NO

- ## UTILITY NOTES
1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOT'S SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
 3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
 4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
 5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERMITTED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
 7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
 8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
 9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
 10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

UTILITY DISCLAIMER

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BASIS OF BEARING

S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK
CLV BM# 64 STA 9LV007WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER
ROAD OPPOSITE TEE PEE LANE
780.959-METERS (NAVD 88) 2562.17-FEET

ACCEPTANCE OF PLANS

Jamie Hersh Jamie Hersh 5/23/19
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION

[Signature] 5-31-19

CLARK COUNTY FIRE DEPARTMENT

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL. **FP18-13323**

APPROVED FOR CONSTRUCTION


LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 126326 FIRST APPROVED DATE 6-25-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

WATER MAIN JOINT DEFLECTION NOTE (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 MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

FAST
Call
before you
Underground
1-702-432-5300
FREWAY & ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you Dig!
Avoid cutting underground utility lines. it's costly.

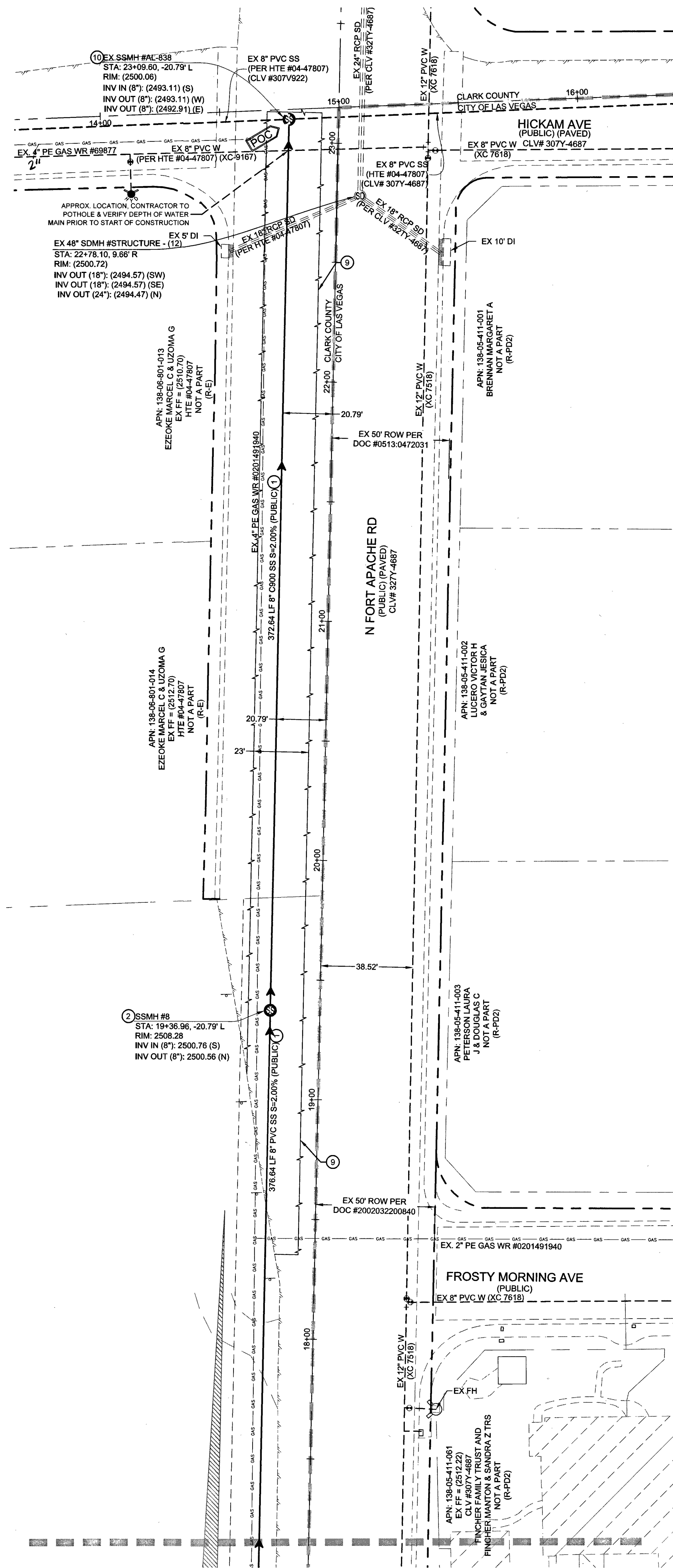
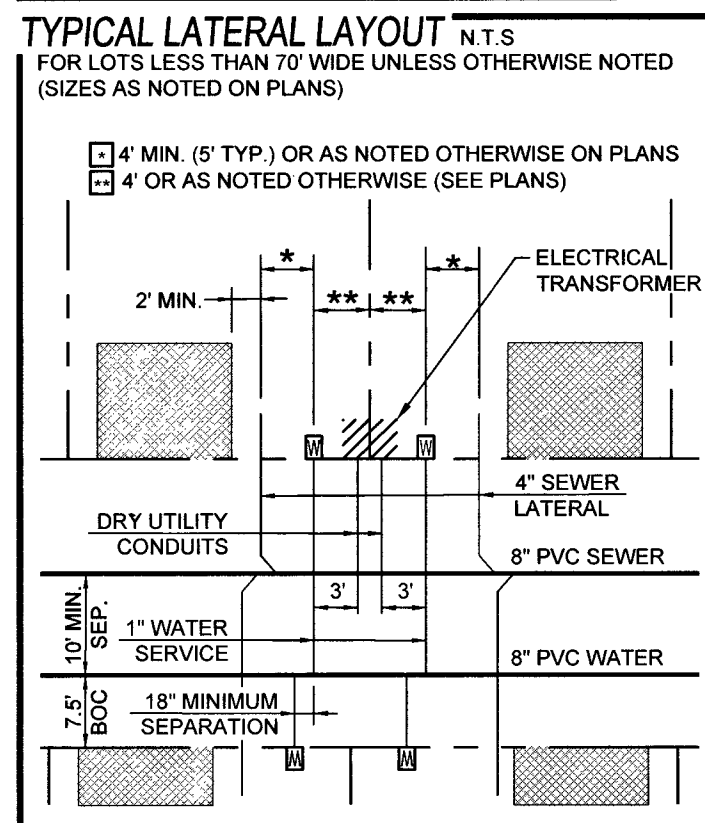
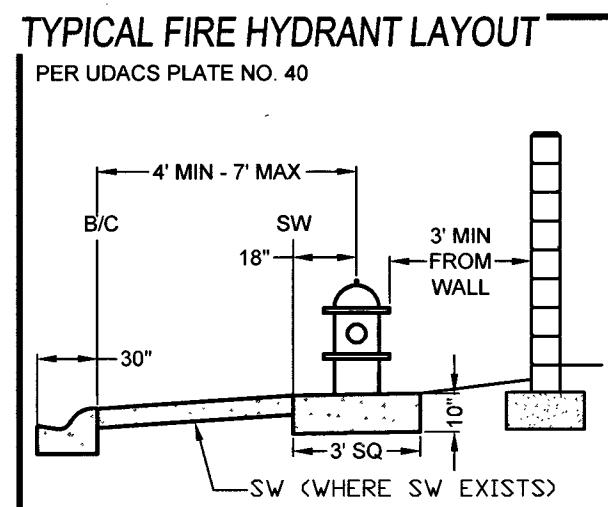
CALL
811

OR
1-800-227-2600

Avoid overhead power line contact. it's costly.

Call
before you
Overhead
1-702-227-2929

[illegible]



MATCHLINE SEE SHEET UT2

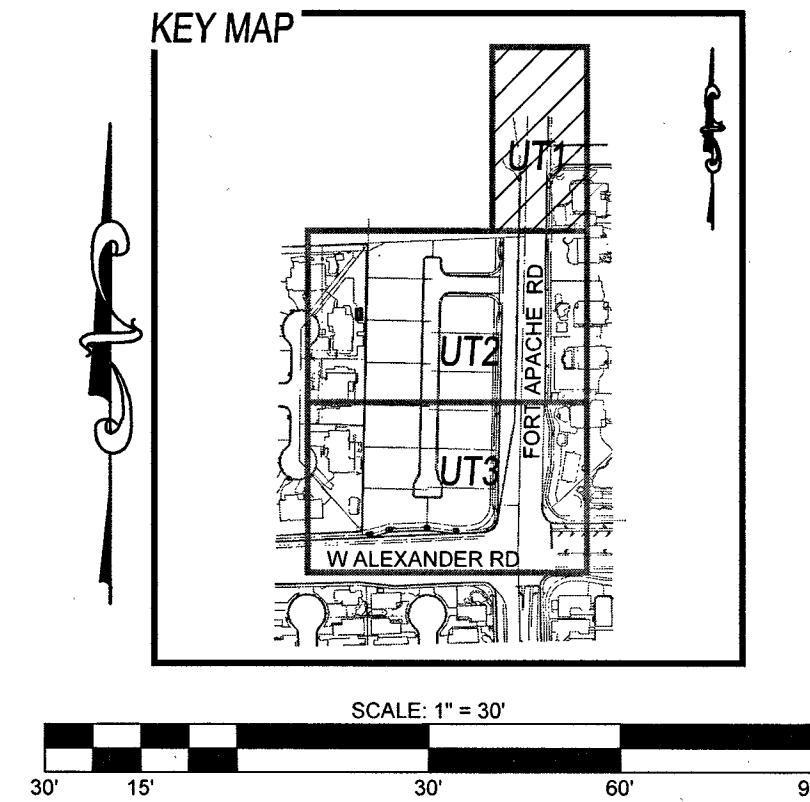
- CONSTRUCTION NOTES**
1. INSTALL 8" PVC SS (DCSWCS SD-17)
 2. INSTALL 48" STANDARD MANHOLE W/ 24" SINGLE LID (DCSWCS SD-1A, SD-1B, & SD-4)
 3. 4" SEWER LATERAL & CURB MARKING (DCSWCS SD-22)
 4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 3)
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 7. POC - CONNECT TO EX. 12" WATER MAIN. INSTALL 10" TAPPING SLEEVE W/ 10" TAPPING VALVE (UDACS 2.24.01.B, PLT. 34 & 39)
 8. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
 9. SAWCUT & MATCH INTO EXISTING AC PAVEMENT (COALD #500.3, 500.4, 500.5 & 503)
 10. PROTECT EXISTING MANHOLE IN PLACE. CORE NEW INVERT FOR PROPOSED LINE
 11. INSTALL 8" X 8" REDUCER (UDACS PLT. 31)
 12. INSTALL 90° BEND (UDACS PLT. 31)
 13. 8" GATE VALVE (UDACS PLATE NO. 30 & 39)
 14. 3" IRRIGATION SLEEVES
 15. INSTALL 3/4" IRRIGATION METER W/ 1" RPPA (UDACS PLT. 4 & 9) (SEE DETAIL LGD1)
 16. INSTALL 10" X 8" REDUCER (UDACS PLT. 31)
 17. INSTALL CURB STOP IN 2" BLOWOFF BOX
 18. REMOVE 2" BLOWOFF COLLAR & ABANDON 2" BLOWOFF AT THE CORP STOP
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FREIGHTWAY & ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.
811
OR
1-800-227-2600

Call before you Overhead
1-702-227-2929
Avoid overhead power line contact. It's costly.



FIRE FLOW CALCULATIONS
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BASED ON:
LIVABLE AREA: 4,999 SQ. FT.
AREA UNDER ROOF: 4,999 SQ. FT.
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: 29-FT
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO
OCCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE
STORAGE: NO
ESFR SYSTEM: NO

- UTILITY NOTES**
1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
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88°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 8, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK
CLV BM# 64 STA 9LW007WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.955 METERS (NAVD 88) 2562.17 FEET

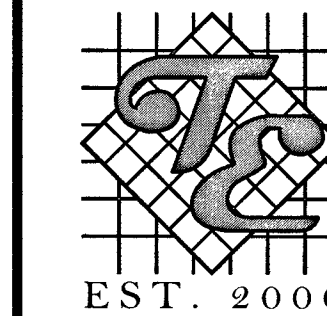
ACCEPTANCE OF PLANS
JAMES HARRIS JAMIE HARRIS 5/23/19
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
CLARK COUNTY FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL. **FPB-13323**

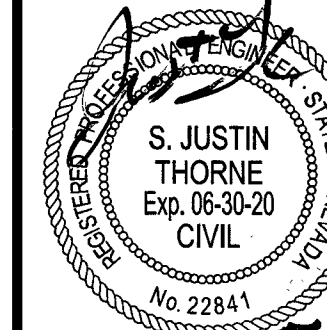
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 126326A FIRST APPROVED DATE 5-23-19
LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW @ GPM

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
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ADAVEN HOMES
3425 CLARK COUNTY PRVY
LAS VEGAS, NV 89125
(702) 365-6886 FAX



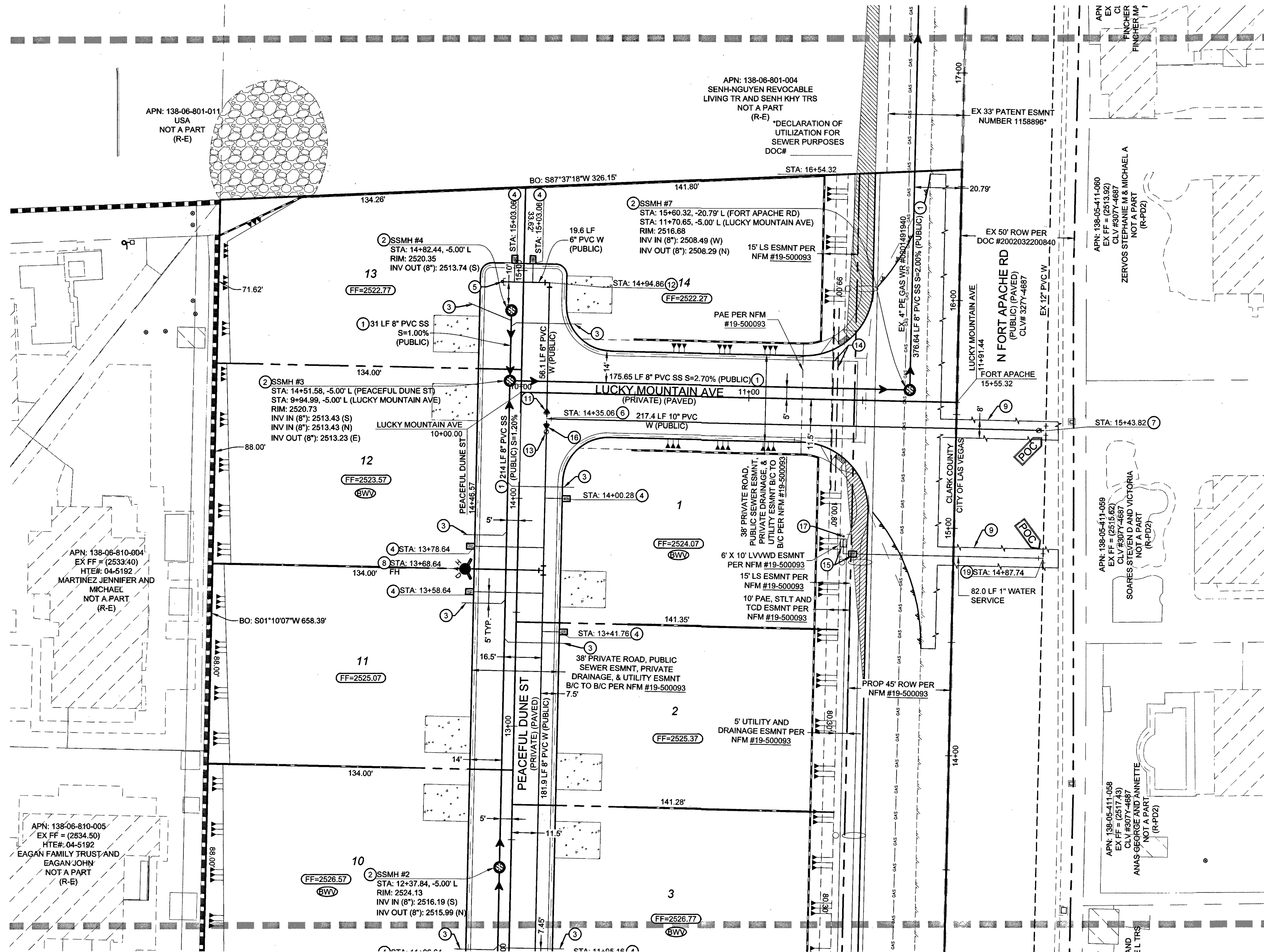
FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION



DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB CHECKED BY: SJT
SHEET NAME: UT1
SHEET NUMBER: 12 OF 16
IA# A18-00017
CLV L18-02565
CC PW18-19519

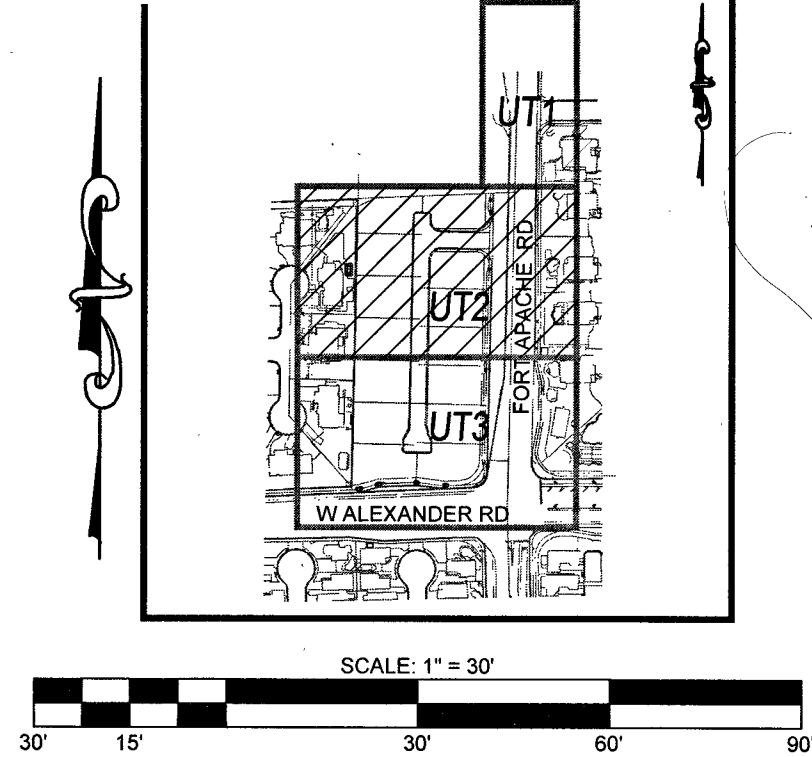
FILE NAME: S:\ACT\VEAD\ADVEN HOMES\ADV17-073 - FORT APACHE & ALEXANDER\ENGINEERING\DWGS\ADV073_SHT_UT.DWG

MATCHLINE SEE SHEET UT1



MATCHLINE SEE SHEET UT3

KEY MAP



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON:
LIVABLE AREA: 4,999 SQ FT
AREA UNDER ROOF: 4,999 SQ FT
LARGEST AREA BETWEEN SEPARATE WALLS: 10A
HEIGHT: 29 FT
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO

OCCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE
ESFR SYSTEM: NO

UTILITY NOTES

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
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- 12' MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6' MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

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BASIS OF BEARING

S89°19'47"W BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLV BMM 64 STA 9LW007WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.959 METERS (NVD 88) 2552.17 FEET

ACCEPTANCE OF PLANS

Janis Hersh *Janis Hersh* 5/23/19
SOUTHWEST GAS CORPORATION
DATE

APPROVED FOR CONSTRUCTION

Sam Con 5-31-19
CLARK COUNTY FIRE DEPARTMENT
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APPROVED FOR CONSTRUCTION

Janis Hersh
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 128328, FIRST APPROVED DATE: 6-25-19
LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: 9 GPM

CONSTRUCTION NOTES

- INSTALL 8" PVC SS (DCSWCS SD-17)
- INSTALL 48" STANDARD MANHOLE W/ 24" SINGLE LID (DCSWCS SD-1A, SD-1B, & SD-4)
- 4" SEWER LATERAL & CURB MARKING (DCSWCS SD-22)
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- CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 38)
- INSTALL 10" WATER TEE (UDACS PLT. 31)
- P.O.C. CONNECT TO EX. 12" WATER MAIN. INSTALL 10" TAPPING SLEEVE W/ 10" TAPPING VALVE (UDACS 2.24.01.B, PLT. 34 & 39)
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- INSTALL CURB STOP IN 2" BLOWOFF BOX
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- INSTALL 1" TAPPING SLEEVE (UDACS 2.24.01.B, PLT. 34 & 39)

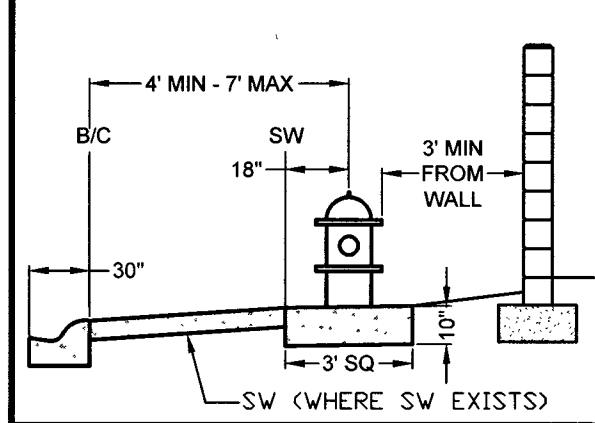
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FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

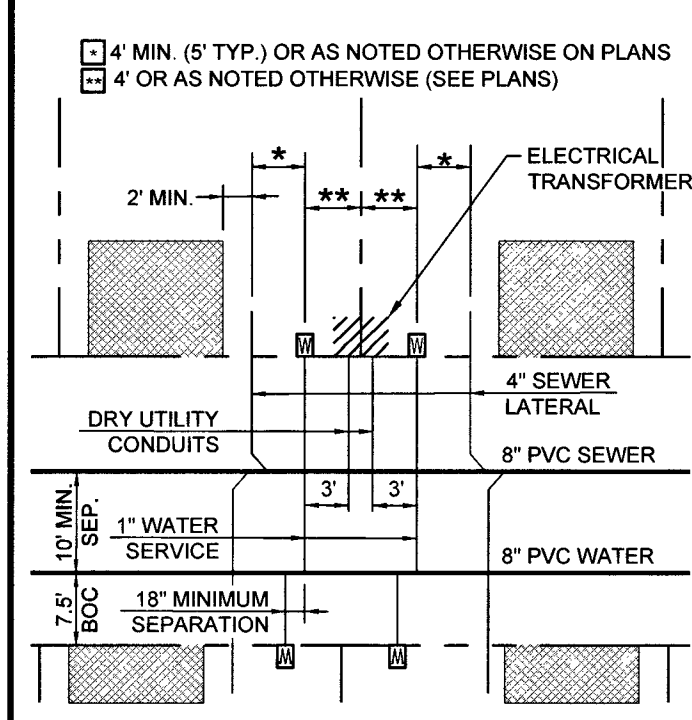
TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



TYPICAL LATERAL LAYOUT

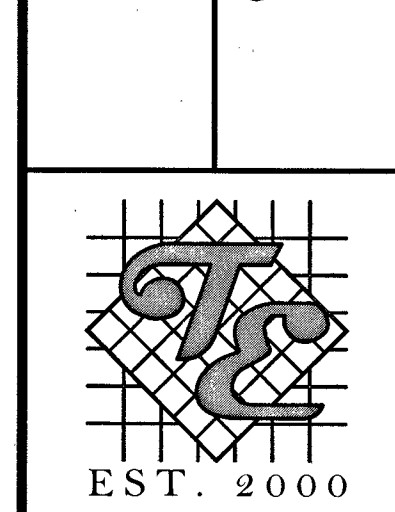
N.T.S. FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

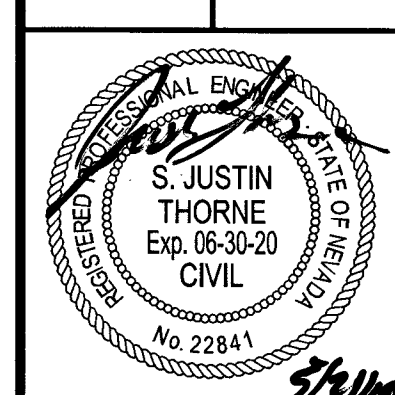
ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8888 FAX
(702) 365-5233

ADVENE ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89129
(702) 365-8888 FAX
(702) 365-5233



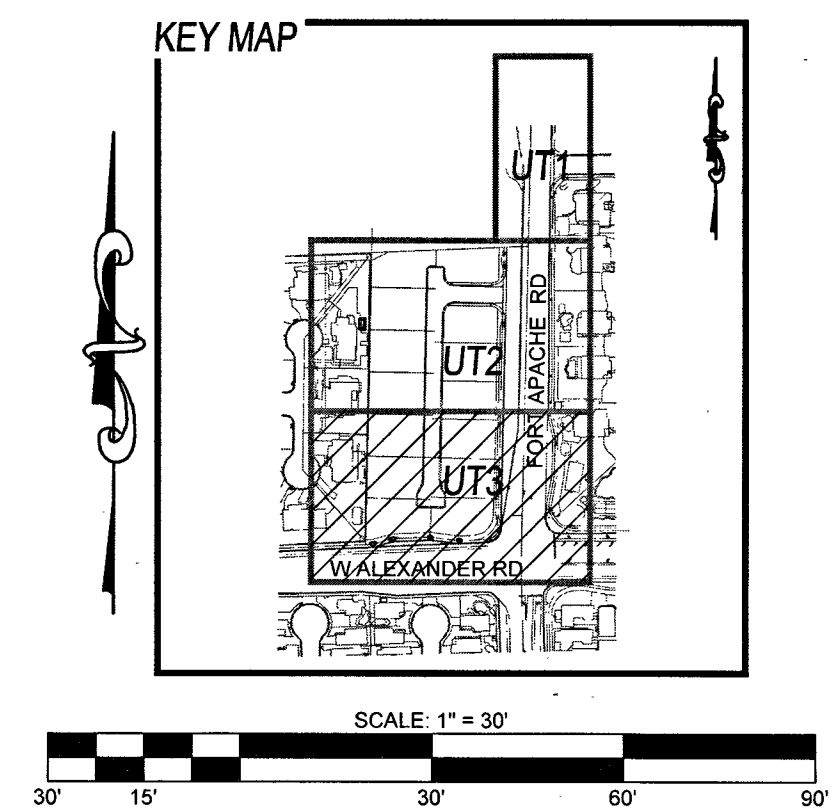
FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION

UTILITY PLAN 2



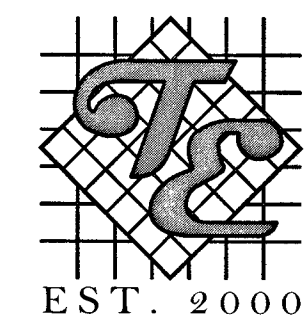
DATE: 5/20/2019
SCALE: 1"=30'
JOB NO: ADV-17-073
DESIGNED BY: RJB CHECKED BY: SJT
SHEET NAME: UT2
SHEET NUMBER: 13 OF 16
IA# A18-00017
CLV L18-02566
CC PW18-19519

PROJ# 126326A QS:138-06-06

[illegible]

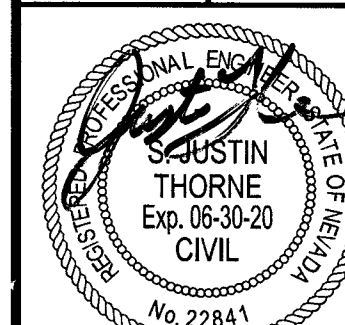
ADAVEN HOMES
3425 CLIFF SHADOWS PKWY

TANEY & ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 365-8588 FAX:



**FORT APACHE & ALEXANDER
A RESIDENTIAL SUBDIVISION**

UTILITY PLAN 3



DATE: 5/20/2019

SCALE: 1"=20'

JOB NO: ADV-17-073

DESIGNED BY: D. J. B.	CHECKED BY: G. J. T.
--------------------------	-------------------------

SHEET NAME:

013

14 16

IA#	A18-00017
-----	-----------

CLV	L18-02565
CC	DW18-12516

307V1170

PROJ#:126326A QS:138-06-SE

CONSTRUCTION NOTES

- ① INSTALL 8" PVC SD (DCWSC SD-17)
- ② INSTALL 8" STANDARD MANHOLE W/ 24" SINGLE LID (DCWSC SD-1A, SD-1B, & SD-4)
- ③ 4" SEVER LATERAL & CURB MARKING (DCWSC SD-22)
- ④ 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE No. 3)
- ⑤ CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE No. 36)
- ⑥ INSTALL 10" WATER TEE (UDACS PLT. 31)
- ⑦ POC - CONNECT TO EX. 12" WATER MAIN
INSTALL 10" TAPPING ASSEMBLY W/ 10" TAPPING VALVE (UDACS 2.24 0.1 B, PLT. 34 & 39)
- ⑧ INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
- ⑨ SAWCUT & MATCH INTO EXISTING AC PAVEMENT (C/CAUSD #500.3, 500.4, 500.5 & 500.5)
- ⑩ PROTECT EXISTING MANHOLE IN PLACE
CORE NEW IN PLACE PROPOSED LID
- ⑪ INSTALL 8" X 6" REDUCER (UDACS PLT. 31)
- ⑫ INSTALL 90° BEND (UDACS PLT. 31)
- ⑬ 8" GATE VALVE (UDACS PLATE No. 39 & 39)
- ⑭ 3" IRRIGATION SLEEVES
- ⑮ INSTALL 3/4" IRRIGATION METER W/ 1" RPFA (UDACS PLT. 4 & 8) (SEE DETAIL LGD1)
- ⑯ INSTALL 10" X 8" REDUCER (UDACS PLT. 31)
- ⑰ INSTALL CURB STOP IN 2" BLOWOFF BOX
- ⑱ REMOVE 2" BLOWOFF COLLAR & ABANDON 2" BLOWOFF AT THE END OF THE LINE
- ⑲ INSTALL 1" TAPPING SLEEVE (UDACS 2.24 0.1 B, PLT. 34 & 39)

WATER MAIN JOINT DEFLECTION NOTE (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 MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

FAST
Ca
before yo
Underground
1-702-432-530
FREEWAY & ARTERIAL

Call before you Dig.
Avoid cutting underground utility lines, it's costly.

CALL
811
OR
1-800-227-2600

Avoid overhead power line contact. it's costly.

Call
before you
Overhead
1-702-227-2929

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FUTURE DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 1.5)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04 02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04 02

UTILITY DISCLAIMER

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

BASIS OF BEARING

S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M. AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLV BM# 64 STA 9LV007WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER
ROAD OPPOSITE TEE PEE LANE
780.959-METERS (NAVD 88) 2562.17-FEET

ACCEPTANCE OF PLANS

Jamie Harsh Jamie Harsh 5/23/19
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION

CLARK COUNTY FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN
APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY
LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL. **FP18-13323**

APPROVED FOR CONSTRUCTION


LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 126326 FIRST APPROVED DATE 6-25-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 0 GPM

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-073 - FORT APACHE & ALEXANDER\ENGLISH\DWGS\SHEET DWGS\ADV073_SHT_UT.DWG

Line Table			Curve Table			
Line #	Length	Direction	Curve #	Length	Radius	Delta
L2	84.47	N88° 46' 53.00"W	C1	7.85	5.00	090.00
L3	12.52	N01° 10' 06.24"E	C2	7.85	5.00	090.00
L4	28.00	N88° 49' 53.76"W	C3	31.40	20.00	089.95
L5	440.10	N01° 10' 06.24"E	C4	47.12	30.00	090.00
L6	14.96	N31° 10' 06.24"E	C5	47.12	30.00	090.00
L7	25.00	N01° 10' 06.24"E	C6	31.43	20.00	090.05
L8	51.00	S88° 49' 53.76"E	C7	15.71	30.00	030.00
L9	25.00	N01° 10' 06.24"E	C8	7.85	5.00	090.00
L10	14.96	N28° 49' 53.76"W	C9	7.85	5.00	090.00
L11	349.58	N01° 10' 06.24"E	C10	15.71	30.00	030.00
L12	84.40	N88° 46' 54.14"W	C11	55.51	90.00	035.34
			C12	64.84	90.00	041.28

SIGHT VISIBILITY ZONES (SVZ)
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS. (CCAUD 201)

UTILITY DISCLAIMER
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BASIS OF BEARING
S88°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 80 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 18 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK
CLV BMM 54 STA 15+00.70WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER ROAD OPPOSITE TEE PEE LANE
780.959-METERS (NAVD 83) 2562.17-FEET

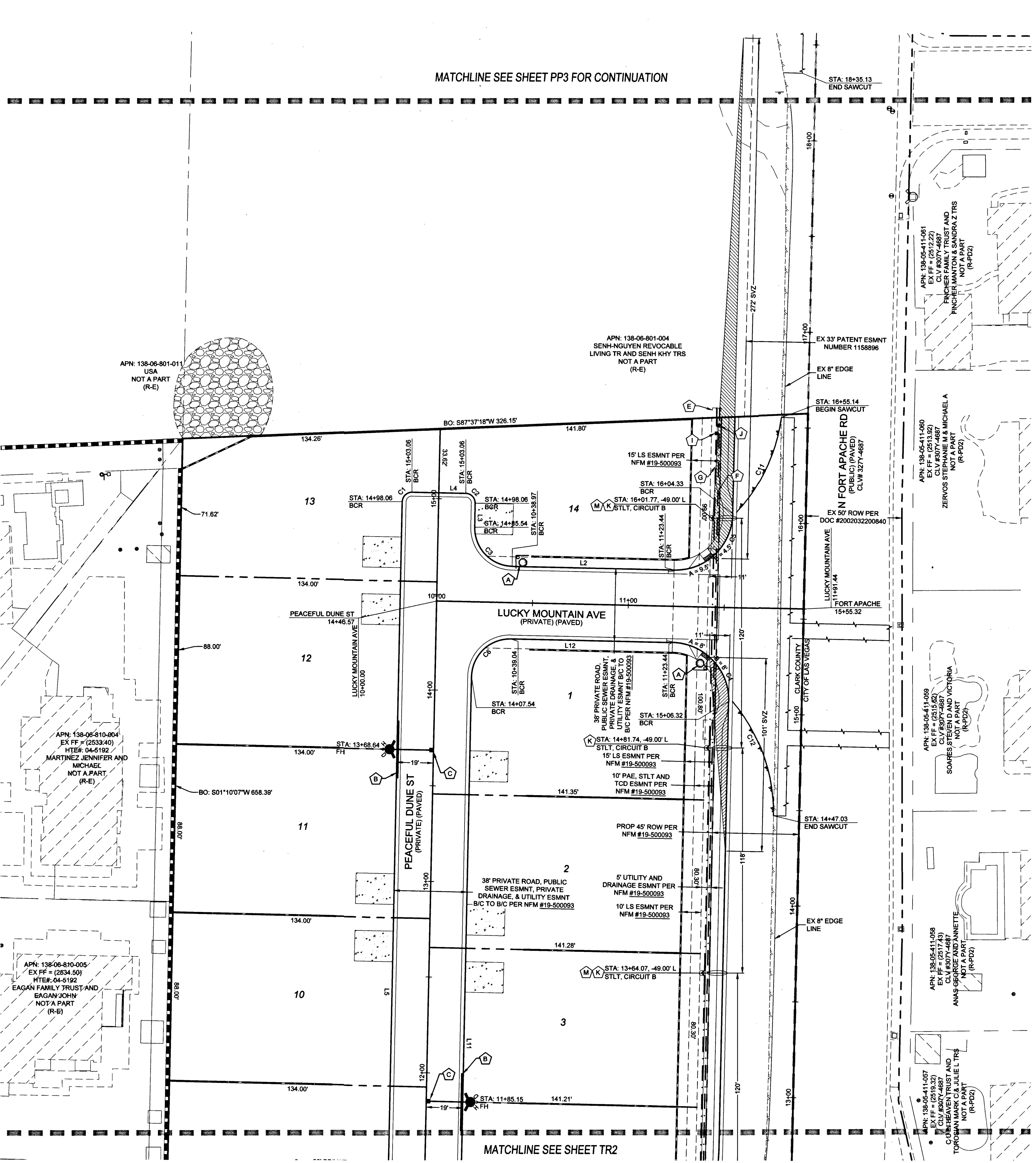
STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A"		
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATIONS.
	NO	INSTALL A NEW SERVICE PEDESTAL.
SERVICE PEDESTAL LOCATION: 9190 W. ALEXANDER RD. (STA: 13+82.42)		
CLARK COUNTY (COMPLETE IF EXISTING SERVICE):		
DATE OF CAPACITY VERIFICATION: 10/17/2018 BY MELVIN JONES		
ENGINEER OF THE OFFSITE PLANS: JUSTIN THORNE		
PERSON WHO DID THE CALCULATIONS: RYAN BEAVERS		
CONSULTING ENGINEERING FIRM: TANNEY ENGINEERING		
CAPACITY CALCULATIONS		
1. CIRCUIT CAPACITY		80.0 AMPS
2. MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0 AMPS
3. EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		10.9 AMPS
4. AVAILABLE (2 MINUS 3)		37.1 AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT		
5. NUMBER OF LED STLT'S FOR 80' OR LESS R/W PER OPL @ 1.0 AMP/EA	0	0 AMPS
6. NUMBER OF LED STLT'S FOR 80'-100' (+) R/W PER OPL @ 1.5 AMP/EA	2.0	3.0 AMPS
7. TOTAL PROPOSED ADDITIONAL LOAD (+6)		3.0 AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)		34.1 AMPS

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "B"		
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 CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATIONS.
	NO	INSTALL A NEW SERVICE PEDESTAL.
SERVICE PEDESTAL LOCATION: FORT APACHE RD. (STA: 11+38.52)		
CLARK COUNTY (COMPLETE IF EXISTING SERVICE):		
DATE OF CAPACITY VERIFICATION:		
ENGINEER OF THE OFFSITE PLANS: JUSTIN THORNE		
PERSON WHO DID THE CALCULATIONS: RYAN BEAVERS		
CONSULTING ENGINEERING FIRM: TANNEY ENGINEERING		
CAPACITY CALCULATIONS		
1. CIRCUIT CAPACITY		80.0 AMPS
2. MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0 AMPS
3. EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		0.0 AMPS
4. AVAILABLE (2 MINUS 3)		48.0 AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT		
5. NUMBER OF LED STLT'S FOR 80' OR LESS R/W PER OPL @ 1.0 AMP/EA	0	0 AMPS
6. NUMBER OF LED STLT'S FOR 80'-100' (+) R/W PER OPL @ 1.5 AMP/EA	5	7.5 AMPS
7. TOTAL PROPOSED ADDITIONAL LOAD (+6)		7.5 AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)		40.5 AMPS

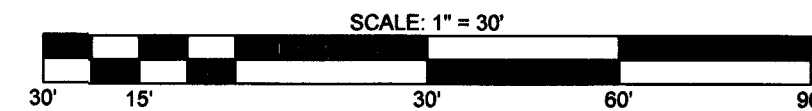
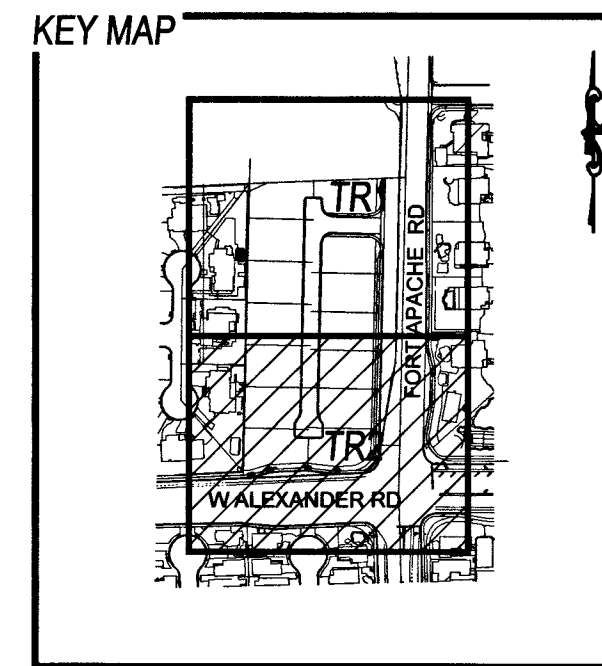
IN THE EVENT THAT THE TRAFFIC SIGNAL/SCHOOL FLASHER CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATIONS NO. 623 G.01.02

NOTE: 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 MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE APPROVED EQUIVALENT.

NOTE: CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC OPERATIONS DIRECTLY AT 455-6000 TO SCHEDULE COUNTY STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO LOCATES. HOURS OF OPERATIONS: 8:30 AM - 3:00 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.



Line Table			Curve Table			
Line #	Length	Direction	Curve #	Length	Radius	Delta
L2	84.47	N88° 45' 53.00"W	C1	7.85	5.00	090.00
L3	12.52	N01° 10' 06.24"E	C2	8.85	5.00	090.00
L4	28.00	N88° 49' 53.76"W	C3	31.40	20.00	089.95
L5	44.010	N01° 10' 06.24"E	C4	47.12	30.00	090.00
L6	14.96	N31° 10' 06.24"E	C5	47.12	30.00	090.00
L7	25.00	N01° 10' 06.24"E	C6	31.43	20.00	090.05
L8	51.00	S88° 49' 53.76"E	C7	15.71	30.00	030.00
L9	25.00	N01° 10' 06.24"E	C8	7.85	5.00	090.00
L10	14.96	N28° 49' 53.76"W	C9	7.85	5.00	090.00
L11	349.58	N01° 10' 06.24"E	C10	15.71	30.00	030.00
L12	84.40	N88° 46' 54.14"W	C11	55.51	90.00	035.34
			C12	64.84	90.00	041.28



CONSTRUCTION NOTES

- (A) INSTALL 3" R1-1 "STOP" SIGN W/ (2) 9" D-3 "STREET NAME" SIGNS TO BE PRIVATELY MAINTAINED BY HOA
- (B) PAINT CURB RED 15' EACH SIDE OF HYDRANT
- (C) BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS
- (D) EX STLT, EX R-21 (45) "SPEED LIMIT 45 MPH" SIGN, & EX R-3 SIGN TO BE RELOCATED TO THIS LOCATION
- (E) STUB AND CAP STREETLIGHT & F.A.S.T. CONDUIT 5' PAST PROPERTY LINE
- (F) INSTALL 4" PVC F.A.S.T. CONDUIT WITH BARE TRACER WIRE
- (G) INSTALL 1 1/4" STLT CONDUIT W/ (2) NO. 4 AND (1) NO. 8 THW-2 OR XHHW-2 COPPER CONDUCTORS
- (H) INSTALL LED STLT W/ 15' TAPERED MAST ARM PER QPL PER CCAUSD 300.83, 302.52, 316, 326, & 321
- (I) INSTALL 3 1/2 ILL PUL BOX PER CCAUSD NO. 705
- (J) INSTALL P30 PULL BOX WITH FIBER OPTICS INSERIBED ON LID FOR F.A.S.T. CONDUIT PER CCAUSD NO. 781
- (K) INSTALL LED STLT FOR 100' ROW (PER QPL & CCAUSD #303.53, #314, #320, & #321)
- (L) INTERCEPT AND CONNECT TO EXISTING STRUCTURE & F.A.S.T. CONDUIT
- (M) INSTALL R7-1A "NO PARKING ANY TIME" SIGN
- (N) INSTALL 200 AMP SERVICE PEDESTAL PER CCAUSD #331, #332.52

SIGHT VISIBILITY ZONES (SVZ)
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS. (CCAUSD 2010)

UTILITY DISCLAIMER

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BASIS OF BEARING

S89°19'40"W, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 6, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M. AS SHOWN ON THAT CERTAIN MAP IN FILE 78, PAGE 19 OF PARCEL MAPS, ON FILE IN THE COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLV BM# 64 STA 9LV007WNE6
CLV RIVET IN ALUMINUM PLATE ON THE TOP OF CURB ON THE SOUTH SIDE OF ALEXANDER
ROAD OPPOSITE TEE PEE LANE
780.959-METERS (NAVD 88) 2562.17-FEET

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A"

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 CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATIONS.
	NO	INSTALL A NEW SERVICE PEDESTAL

SERVICE PEDESTAL LOCATION: 9190 W. ALEXANDER RD. (STA: 13+82.42)

CLARK COUNTY (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION: 10/17/2010 BY MELVIN JONES

DATE OF CAPACITY VERIFICATION: 10/17/2018 BY MEL

ENGINEER OF THE OFFSITE PLANS: JUSTIN THORNE

PERSON WHO DID THE CALCULATIONS: RYAN BEAVERS

CONSULTING ENGINEERING

1	CIRCUIT CAPACITY		60.0	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		10.9	AMPS
4	AVAILABLE (2 MINUS 3)		37.1	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT				STLTS
5	NUMBER OF LED STLTS FOR 60" OR LESS R/W PER QPL @ 1.0 AMP/EA	0	0	AMPS
6	NUMBER OF LED STLTS FOR 80"-100" (+) R/W PER QPL @ 1.5 AMP/EA	2.0	3.0	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5+6)		3.0	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)				34.1

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "B"

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 CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATIONS.
	NO	INSTALL A NEW SERVICE PEDESTAL

SERVICE PEDESTAL LOCATION: FORT APACHE RD. (STA: 11+38.5)
--

CLARK COUNTY (COMPLETE IF EXISTING SERVICE):

DATE OF CAPACITY VERIFICATION: _____

DATE OF CAPACITY VERIFICATION: _____

ENGINEER OF THE OFFSITE PLANS: JUSTIN THORNE

PERSON WHO DID THE CALCULATIONS: RYAN BEAVERS

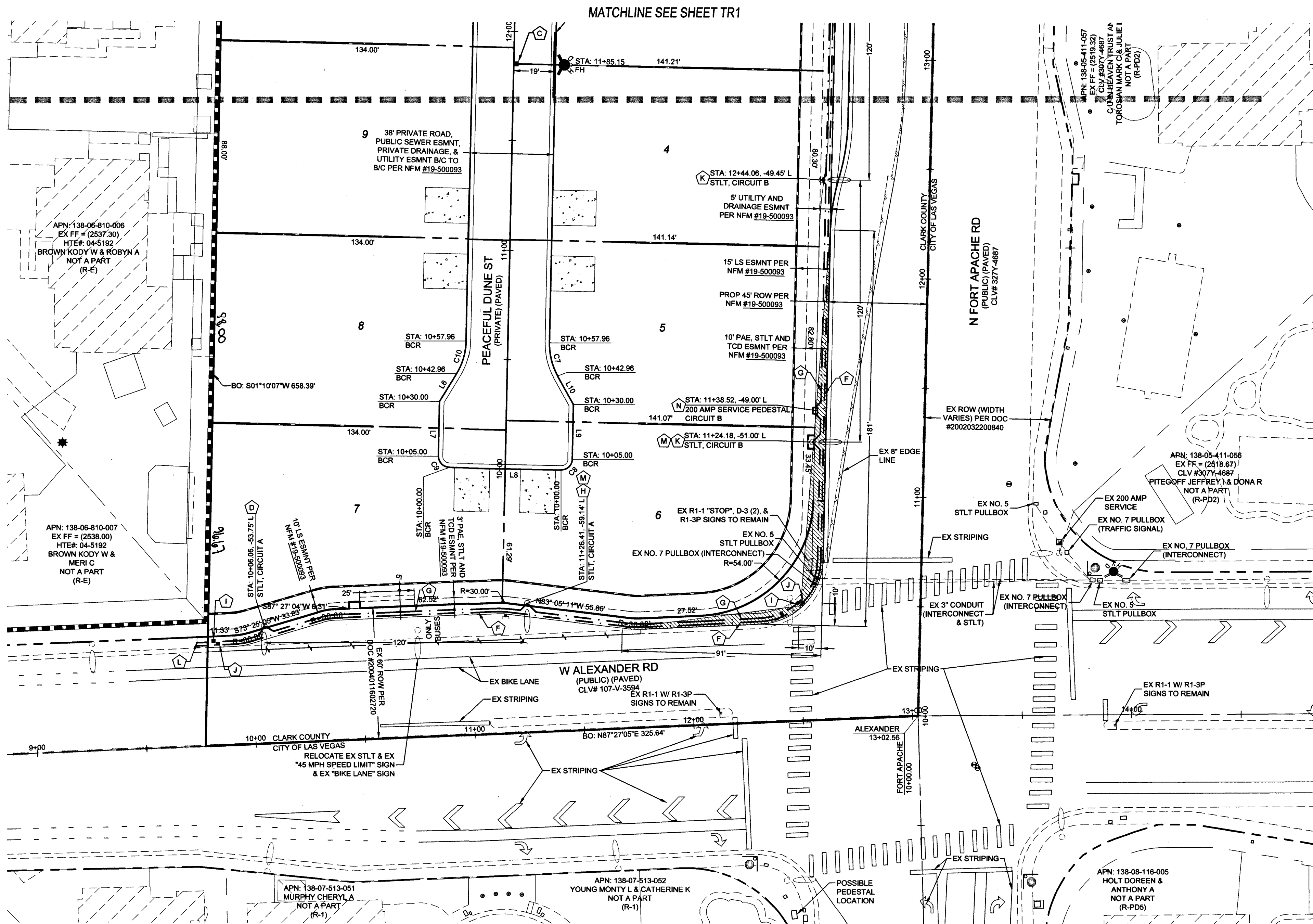
CONSULTING ENGINEERING

1	CIRCUIT CAPACITY		60.0	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		0.0	AMPS
4	AVAILABLE (2 MINUS 3)		48.0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			STLTS	
5	NUMBER OF LED STLTS FOR 60" OR LESS R/W PER QPL @ 1.0 AMP/EA	0	0	AMPS
6	NUMBER OF LED STLTS FOR 60" OR LESS (+) R/W PER QPL @ 1.5 AMPS/EA	5	7.5	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5+6)		7.5	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)			40.5	AMPS

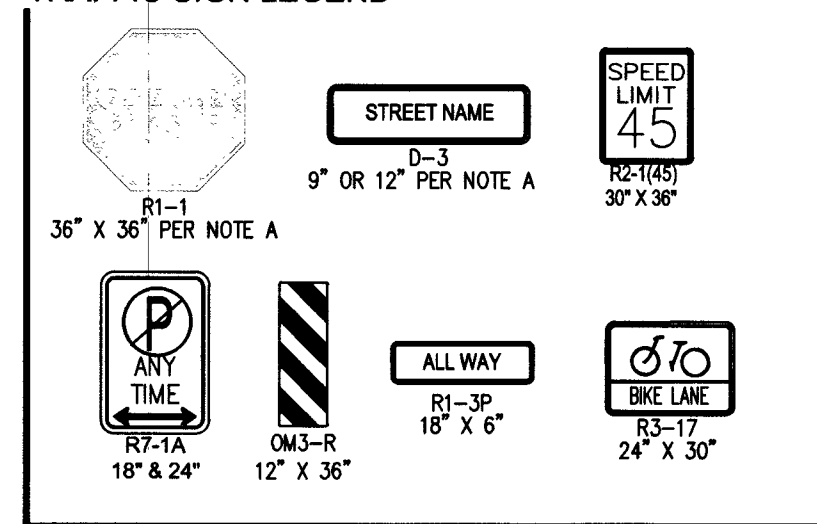
IN THE EVENT THAT THE TRAFFIC SIGNAL/SCHOOL
FLASHER CONDUITS, LOOP DETECTORS OR ASSOCIATED
EQUIPMENT ARE DAMAGED BY THE CONTRACTOR, THE
CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL
CONTRACTOR TO MAKE REPAIRS PER UNIFORM
SPECIFICATIONS NO. 623.G.01.02

NOTE: REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE APPROVED EQUIVALENT.

NOTE: CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC OPERATIONS DIRECTLY AT 455-6000 TO SCHEDULE COUNTY STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO LOCATES. HOURS OF OPERATIONS : 8:30 AM - 3:00 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS



TRAFFIC SIGN LEGEND



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

Call before you Dig
Avoid cutting underground utility lines. it's costly.

CALL
811
OR
1-800-227-2600

Avoid overhead power line contact. It's costly.

Call
before you
Overhead
1-702-227-2929

Clark County Public Works	
ACCEPTED	
BY: _____	DATE _____
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS OR THE <u>MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.</u>	

[illegible]

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-5688 FAX:

ANAY & ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233



FORT APACHE & ALEXANDER A RESIDENTIAL SUBDIVISION	TRAFFIC PLAN 2
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 JUN 19 1968
 FEDERAL BUREAU OF INVESTIGATION
 DEPARTMENT OF JUSTICE
 JUSTIN THORNE
 Exp. 06-30-20
 CIVIL
 No. 22841

DATE: 8/2/17
 SCALE: 8/2/2019
 1"=30'
 JOB NO.: ADV-17-073
 DESIGNED BY: RJB CHECKED BY: SJT
 SHEET NAME: TR2
 SHEET NUMBER: 16 OF 16
 IA# A18-00017
 CLV L18-02565
 CQ