

STORMWATER RUNOFF MANAGEMENT

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF 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.
2. 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 TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY, REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL 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 TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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 UTILITIES AND/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 NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099
- CAUTION: HIGH PRESSURE GAS
- CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

LEGAL DESCRIPTION

A PORTION OF LOT 1 AND ALL OF LOT 2 OF THAT CERTAIN CERTIFICATE OF LAND DIVISION # 10-90-RECORDED SEPTEMBER 11, 1990 IN BOOK 90911 OF OFFICIAL RECORDS, AS INSTRUMENT NO. 00884, TOGETHER WITH A PORTION OF THAT CERTAIN PARCEL OF LAND DESCRIBED BY "ORDER OF VACATION" RECORDED IN BOOK 20180927 OF OFFICIAL RECORDS, AS INSTRUMENT NO. 01240, TOGETHER WITH A PORTION OF GOVERNMENT LOT 30 OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF GOVERNMENT LOT 31 OF SAID SECTION 19;

THENCE ALONG THE EASTERLY LINE OF SAID GOVERNMENT LOT 31, NORTH 00°25'43" EAST, 401.21 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF THE 215 BELTWAY;

THENCE ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID 215 BELTWAY, THE FOLLOWING TWO (2) COURSES:

- 1) NORTH 80°46'06" EAST, 149.31 FEET;
- 2) THENCE CURVING TO THE RIGHT ALONG AN ARC HAVING A RADIUS OF 1892.00 FEET, CONVEX SOUTHERLY, THROUGH A CENTRAL ANGLE OF 154°21'11", AN ARC LENGTH OF 516.54 FEET TO A POINT ON THE WESTERLY LINE OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SAID SECTION 19, TO WHICH A RADIAL LINE BEARS NORTH 06°28'17" EAST;

THENCE ALONG THE WESTERLY LINE OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SAID SECTION 19, SOUTH 00°21'39" WEST, 414.52 FEET TO A POINT ON THE NORTHERLY LINE OF CENTENNIAL HUALAPAI PHASE 1, AS SHOWN BY MAP THEREOF IN BOOK 157, PAGE 30 OF PLATS, IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA;

THENCE ALONG THE NORTHERLY LINE OF SAID SUBDIVISION PLAT, THE FOLLOWING FIVE (5) COURSES:

- 1) SOUTH 67°54'01" WEST, 79.30 FEET;
- 2) THENCE NORTH 89°20'23" WEST, 94.42 FEET;
- 3) THENCE NORTH 78°07'57" WEST, 51.34 FEET;
- 4) THENCE NORTH 89°20'44" WEST, 96.54 FEET;
- 5) THENCE SOUTH 61°03'02" WEST, 20.24 FEET TO THE NORTHEAST CORNER OF GOVERNMENT LOT 35 OF THE AFOREMENTIONED SECTION 19;

THENCE ALONG THE NORTHERLY LINE OF SAID GOVERNMENT LOT 35, NORTH 89°20'44" WEST, 332.18 FEET TO THE POINT OF BEGINNING.

CONTAINING 6.66 ACRES, MORE OR LESS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NUMBER: BLV901904

RIVET AND PLATE IN CONCRETE PAD (ELEC) +/- 200 FEET NORTHWEST OF DEER SPRINGS AND GRAND CANYON.

ELEVATION: 832.779 METERS (2732.21 FEET) N.A.V.D 88 DATUM

PER THE CITY OF LAS VEGAS BENCHMARK WEBSITE ON JULY 27, 2017.

BASIS OF BEARINGS

THE BASIS OF BEARING IS NORTH 00°40'52" EAST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 89 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

2.2 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 LVWD 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.

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 135575 (REVISED 08/01/2017)

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 STANDARD SPECIFICATIONS FOR PUBLIC WORKS (USDS). THE LATEST EDITION OF USDS 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 CROSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE USDS.
 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 USDS SECTION 314.01, 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 PRODUCTS 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 ADJUTING 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.

IS 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 THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

GRADING NOTES

1. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES.
 2. 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.
 3. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
 4. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
 5. SOLS REPORT PREPARED BY ANGLE ENGINEERING, PROJECT NO. 26203-1, DATED 7/31/2017.
 6. EARTHWORK QUANTITIES (RAW):
 - CUT = 9,373 CUBIC YARDS
 - FILL = 3,503 CUBIC YARDS
- A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
B) THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE I GRAVEL BASE MATERIAL FOR STREET SECTIONS.
C) THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

CITY OF LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE AND ORDINANCE # 6325, FOR HYDRANT SPECIFICATIONS, AND HYDRANT INSTALLATION SPECIFICATIONS.
 2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICTS - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
 3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR ALL INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK [FC 105.7.12]
 4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [FC 1510.3312]
 5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANT. [FC 507.5.7.3]
 6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FC 106.3]
 7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [FC 507.2.1, NFPA 24]
 8. PAINTING OF CURBS, FIRE HYDRANTS, PODS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY FOR PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [FC 507.5]
 9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [FC 507.5.7.1]
- PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [FC 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [FC C102]
 - 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 A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [FC C102.6]
 13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
 14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [FC C102.12]
 15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [FC C102.4]
 16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [FC C102.7]
 17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC C102.6]
 18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEADS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [FC C104]
 19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC 503.2.3]
 20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC 503.2.7, 503.2.8]
 21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADII. [FC 503.2.4]
 22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 INS. [FC 503.2.1]
 23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE FLOW LINE TO FLOW LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [FC 503.2.1.1]
 24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THE DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [FC 503.1.1]
 25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROADS WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [FC 503.1.2]
 26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [FC 503.2.5]
 27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE, AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 10 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [FC 503.3]
 28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE FC 503.6 AND IFC APPENDIX M.

2.5 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 SOLS REPORT
B. ENGINEERED FILL	0.5"	+0.1' TO -0.1'	SEE SOLS REPORT
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.

UTILITY LOCATION NOTE TO CONTRACTOR

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 PROPER LOCATIONS. CALL BEFORE YOU DIG: 1 (800) 227-2600, SOUTHWEST GAS CORPORATION: 702-400-1789 (STANDBY CONTACT NUMBER)

2.1 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 CIVIL 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 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.
 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 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 (1/2") ABOVE UP 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 SOLS REPORT AS PREPARED BY ANGLE ENGINEERING, REPORT #26203-1, 7/31/2017 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. 625.300 & 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 BOXES, 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 (VIDEO) LOCATION OF THE PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND 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 MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTANTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATION 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 ADDITION.
 23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

2.3 CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADE, 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 SADS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORK STAFF DETERMINE 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 OBSTRUCTION, 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 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 VP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1150 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 INSTALLED 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 REPAIRED HEREUNDER. RECORDS 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 MSA 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 INTERFERES WITH 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 IDENTIFYING 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.

2.4 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 (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USS), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CUL WEBSITE, UNDERGROUND BUILDING AND SAFETY FACTORS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 0.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. 18 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 0.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES,

-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 PROPER LOCATIONS. CALL BEFORE YOU DIG: (800) 227-2600

QUANTITIES		PRIVATE	PUBLIC	
DRAINAGE				
1.	SIDEWALK UNDERPAIN	EA	1	-
2.	DRAINAGE EASEMENT CONCRETE	SF	1,212	-
3.	DRAINAGE EASEMENT BOLLARD	EA	2	-
4.		EA		
SEWER SYSTEM				
1.	4" PVC SEWER LATERAL (PRIVATE)	LF	1,115	-
2.	8" PVC SEWER PIPE (PUBLIC)	LF	-	1,035
3.	STANDARD 48" SEWER MANHOLE (PUBLIC)	EA	-	11
4.	BACK WATER VALVE	EA	10	-
5.				
6.				
WATER SYSTEM				
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	-	2
2.	8" PVC WATER PIPE	LF	-	1,235
3.	8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	-	4
4.	8" X 8" TEE PER UDACS PLATE NO. 31	EA	-	1
5.	8" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	8
6.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1	EA	-	25
7.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 3	EA	-	3
8.	3/4" IRRIGATION METER	EA	-	1
9.				
STREET IMPROVEMENTS				
1.	2" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	4,995	-
2.	STANDARD 30" TYPE "ROLL" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	2,290	-
3.	5' WIDE CONCRETE SIDEWALK W/4" TYPE II AGGREGATE BASE	SF	11,390	-
4.	ADA SIDEWALK RAMPS	EA	3	-
5.				
6.				
7.				
TRAFFIC SIGNALS				
1.	30" STOP SIGN WITH POST (R1-1)	EA	1	-
2.	9" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6) POLES X 2 PER POLE=12)	EA	2	-
3.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	2	-
4.				
5.				
DRY UTILITIES				
1.	LED STREET LIGHT "QPL" FOR 5' ROW PER CCAUSD #300.S3 & #314	EA	8	-
2.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	935	-
3.	NO. 3-1/2" PULL BOX W/METAL COVER	EA	4	-
4.				

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call

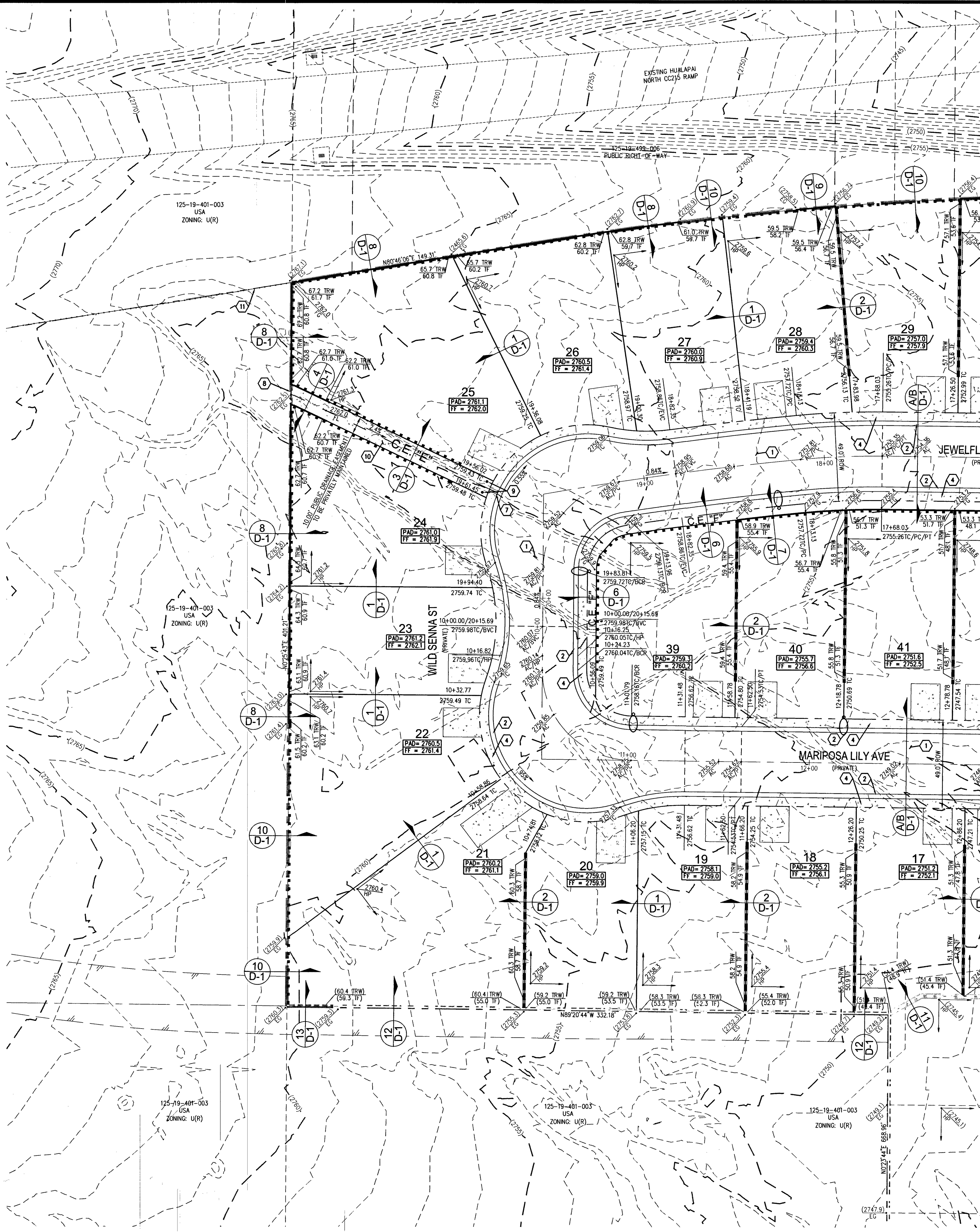
811

OR

1-800-227-2600

C-3
SHEET 3 OF 14
L18-01948
10745084-2

1-1723 centennial hualapai phase 2.dwg 3/11/2019 11:57 AM Labeled Ascd



SEE SHEET G-2 FOR CONTINUATION

DRAINAGE IMPROVEMENT QUANTITIES		
1. SIDEWALK UNDERDRAIN	EA	1
2. DRAINAGE EASEMENT CONCRETE	SF	1,212
3. DRAINAGE EASEMENT BOLLARD	EA	2

FLOOD CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS4941 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
22 3/1/19
KEVIN M. BROSS, P.E. 24572 DATE

SOILS REPORT
SOILS REPORT BY ANGLE ENGINEERING
GEOTECHNICAL EXPLORATION CENTENNIAL HUALAPAI
PROJECT NO. 26203-1 DATED 7/31/2017
EARTHWORKS
EARTHWORK QUANTITIES (RAW):
CUT = 9,373 CU YDS
FILL = 3,503 CU YDS
NET = 5,870 CU YDS (CUT)
EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

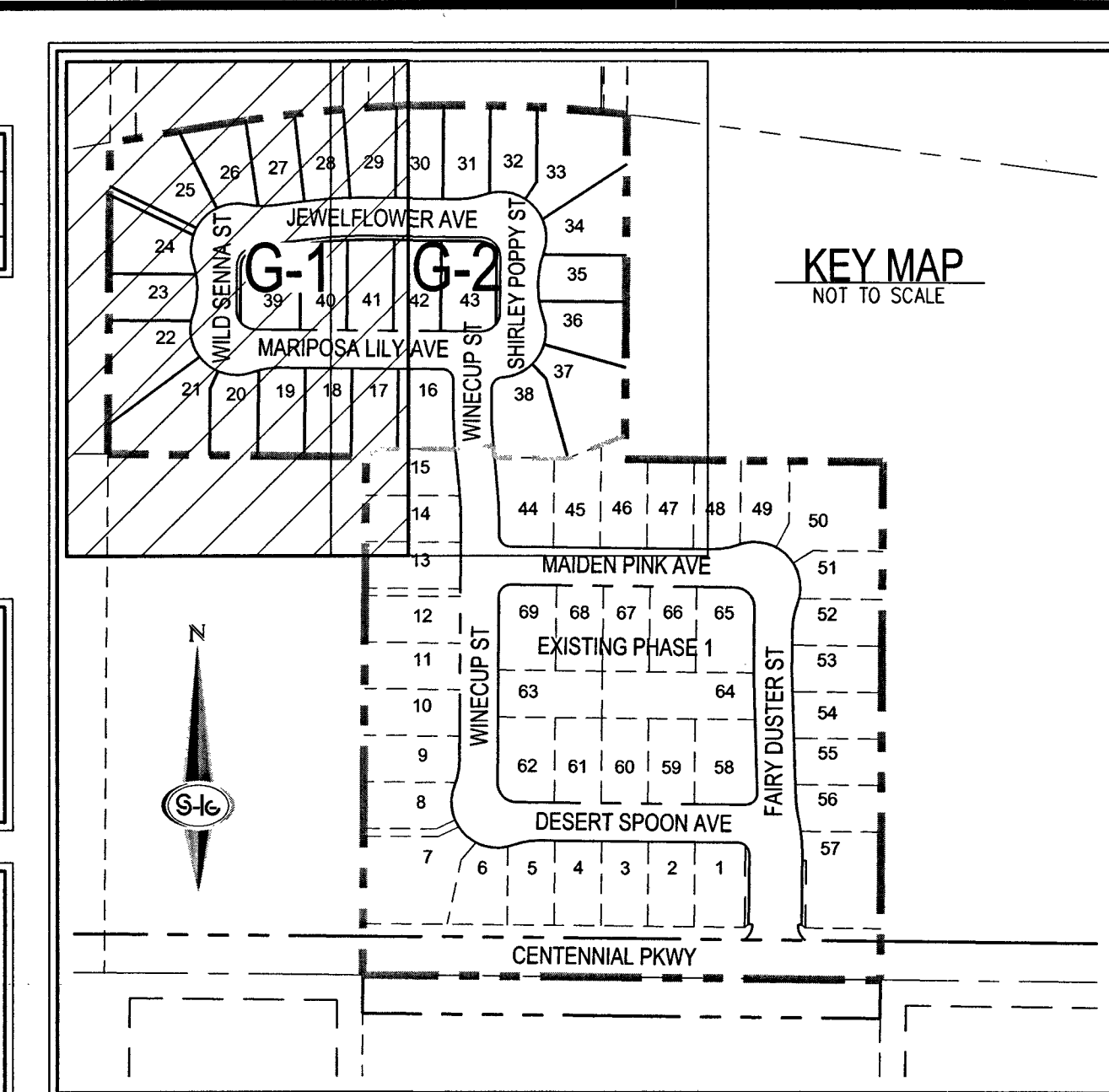
DISCLAIMER NOTE
1) EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES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

GENERAL NOTES
1. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.11.2.2.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
3. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
4. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
5. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
6. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
7. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
8. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLENISHING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES
(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))
1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPING OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. 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 IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER A 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 TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

PRIVATE STREET NOTE
ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

FLOOD ZONE
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1745E, DATED SEPTEMBER 27, 2002. A ZONE "X" (UNSHADED) IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% (500 YEAR) ANNUAL CHANCE FLOOD PLAIN.



CONSTRUCTION NOTES
1) CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE
2) CONSTRUCT 30" ROLL CURB AND GUTTER PER CCAUSD NO. 217.1
3) CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228
4) CONSTRUCT 5" WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5) CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD NO. 235, CASE 1
6) SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 503 & 500.2
7) INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
8) INSTALL 6" HIGH TUBULAR STEEL FENCE PER DETAIL 14 ON SHEET D-1
9) INSTALL REMOVABLE BOLLARD PER CCAUSD NO. 425.S1
10) CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE
11) EXISTING FENCE TO REMAIN

CURB NOTE
CURB FLOW LINES LESS THAN 0.60% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST TO THE CITY.

LEGEND	
(1000)	EX. 5' CONTOUR
(1000)	PROPOSED 5' CONTOUR
---	EX. 1' CONTOUR
---	PROPOSED 1' CONTOUR
---	STREET CENTERLINE
---	FLOWLINE
---	SAWCUT
---	RIGHT-OF-WAY
---	SIDEWALK
---	PROPERTY LINE
---	GRADE BREAK LINE
---	DECORATIVE PERIMETER RETAINING WALL
---	PRODUCT WALL W/ RETAINING WALL
---	TUBULAR STEEL VIEW FENCE
---	TUBULAR STEEL VIEW FENCE W/ RETAINING WALL
---	PONY RETAINING WALL
---	DECORATIVE PERIMETER WALL
---	CUT/FILL TRANSITION LINE
PAD = XXXX FF = XXXX	PAD ELEVATION
00.00	FINISHED FLOOR ELEVATION
---	ELEVATION
---	PROPOSED STORM DRAIN W/ MANHOLE
---	EX. STORM DRAIN W/ MANHOLE

FAST
Call before you UnderGround
1-702-432-5300
FREWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-272-2929

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

L18-01948
107X5084-2

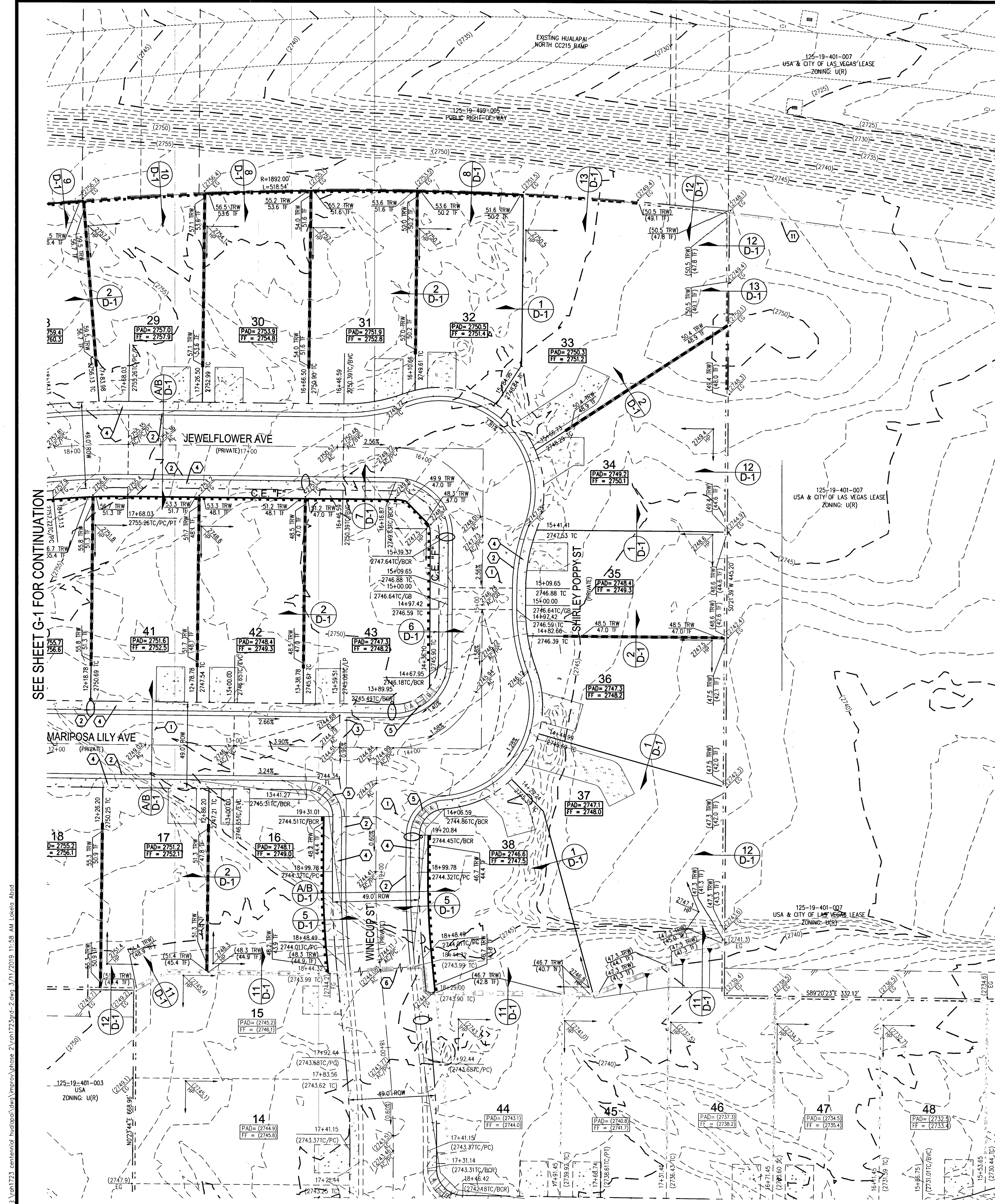
SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

RICHMOND AMERICAN HOMES
CENTENNIAL HUALAPAI PHASE 2
GRADING PLAN I

DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723

ENGINEER
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
3/4/19

G-1
SHEET 4 OF 14



DRAINAGE IMPROVEMENT QUANTITIES			
1. SIDEWALK UNDERDRAIN	EA	1	
2. DRAINAGE EASEMENT CONCRETE	SF	1,212	
3. DRAINAGE EASEMENT BOLLARD	EA	2	

FLOOD CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS4941 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
22 3/11/19
KEVIN M. BROSS, P.E. 24572

SOILS REPORT
SOILS REPORT BY ANGLE ENGINEERING
GEOTECHNICAL EXPLORATION CENTENNIAL HUALAPAI
PROJECT NO. 26203-1 DATED 7/31/2017
EARTHWORKS
EARTHWORK QUANTITIES (RAW):
CUT: 9,373 CU YDS
FILL: 3,503 CU YDS
NET: 5,870 CU YDS (CUT)
EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

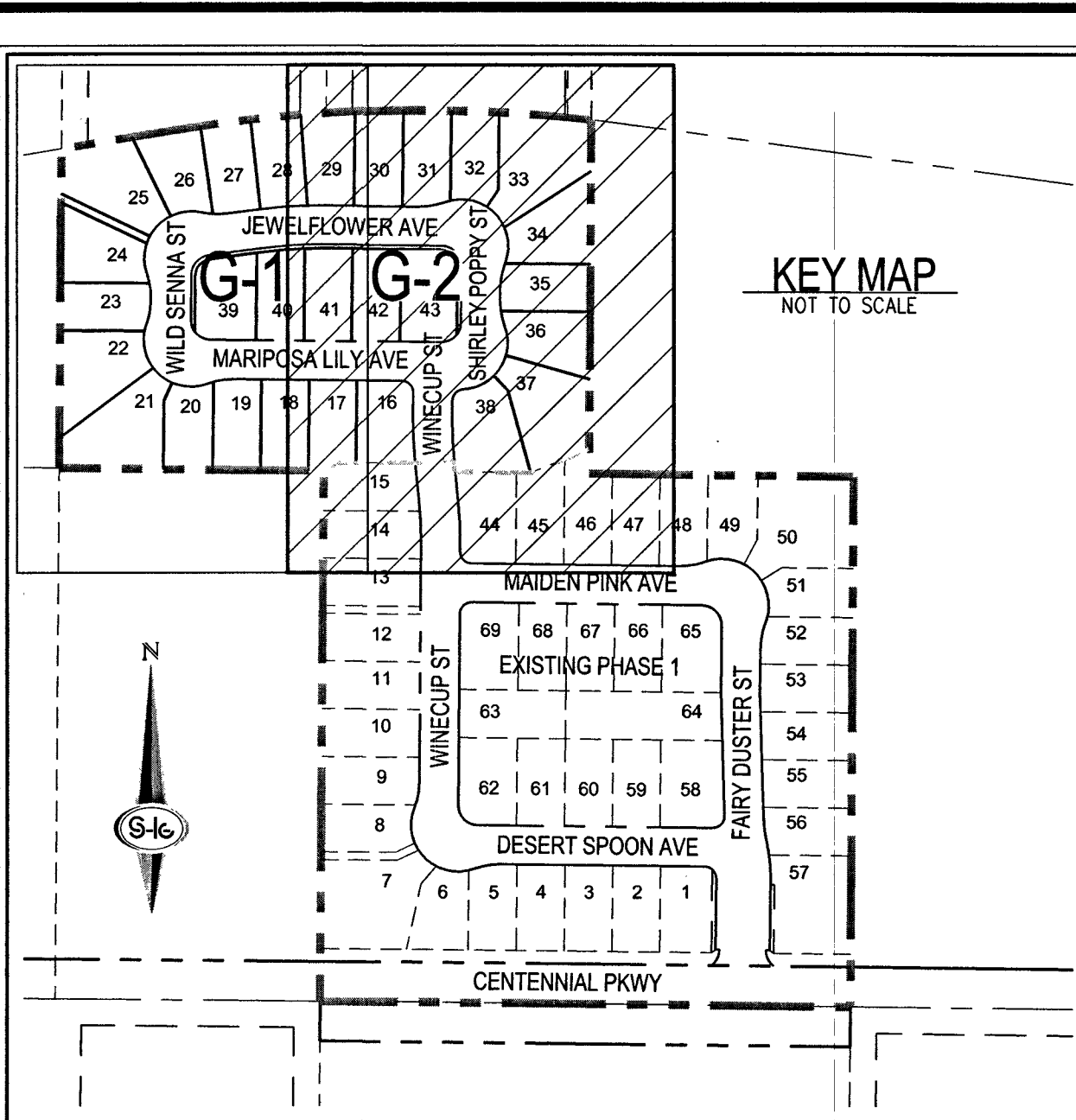
DISCLAIMER NOTE
1) EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES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

GENERAL NOTES
1. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.11.2.2.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
3. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
4. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
5. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
6. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
7. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
8. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLETING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES
(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ. FT.))
1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED 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.
2. 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 IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER A 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 TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

PRIVATE STREET NOTE
ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

FLOOD ZONE
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1745E, DATED SEPTEMBER 27, 2002. A ZONE "X" (UNSHADED) IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% (500 YEAR) ANNUAL CHANCE FLOOD PLAIN.



CONSTRUCTION NOTES
1) CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE
2) CONSTRUCT 30" ROLL CURB AND GUTTER PER CAUSAL NO. 217.1
3) CONSTRUCT 8" CROSS GUTTER PER CAUSAL NO. 228
4) CONSTRUCT 5" WIDE SIDEWALK PER CAUSAL NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5) CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CAUSAL NO. 235, CASE 1
6) SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CAUSAL NO. 503 & 500.2
7) INSTALL SIDEWALK DRAIN PER CAUSAL NO. 236
8) INSTALL 6" HIGH TUBULAR STEEL FENCE PER DETAIL 14 ON SHEET D-1
9) INSTALL REMOVABLE BOLLARD PER CAUSAL NO. 425.51
10) CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE
11) EXISTING FENCE TO REMAIN

CURB NOTE
CURB FLOW LINES LESS THAN 0.60% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST TO THE CITY.

LEGEND	
(1900)	EX. 5' CONTOUR
(1900)	PROPOSED 5' CONTOUR
(1900)	EX. 1' CONTOUR
(1900)	PROPOSED 1' CONTOUR
---	STREET CENTERLINE
---	FLOWLINE
---	SAWCUT
---	RIGHT-OF-WAY
---	BOUNDARY LINE
---	SIDEWALK
---	PROPERTY LINE
---	GRADE BREAK LINE
---	PRODUCT WALL W/ RETAINING WALL
---	TUBULAR STEEL VIEW FENCE
---	TUBULAR STEEL VIEW FENCE W/ RETAINING WALL
---	PONY RETAINING WALL
---	DECORATIVE PERIMETER WALL
---	CUT/FILL TRANSITION LINE
PAD=XXX.X FF=XXX.X	PAD ELEVATION
---	FINISHED FLOOR ELEVATION
---	ELEVATION
---	PROPOSED STORM DRAIN W/ MANHOLE
---	EX. STORM DRAIN W/ MANHOLE

FAST
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UnderGround
1-702-432-5300
FREEMAN AERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

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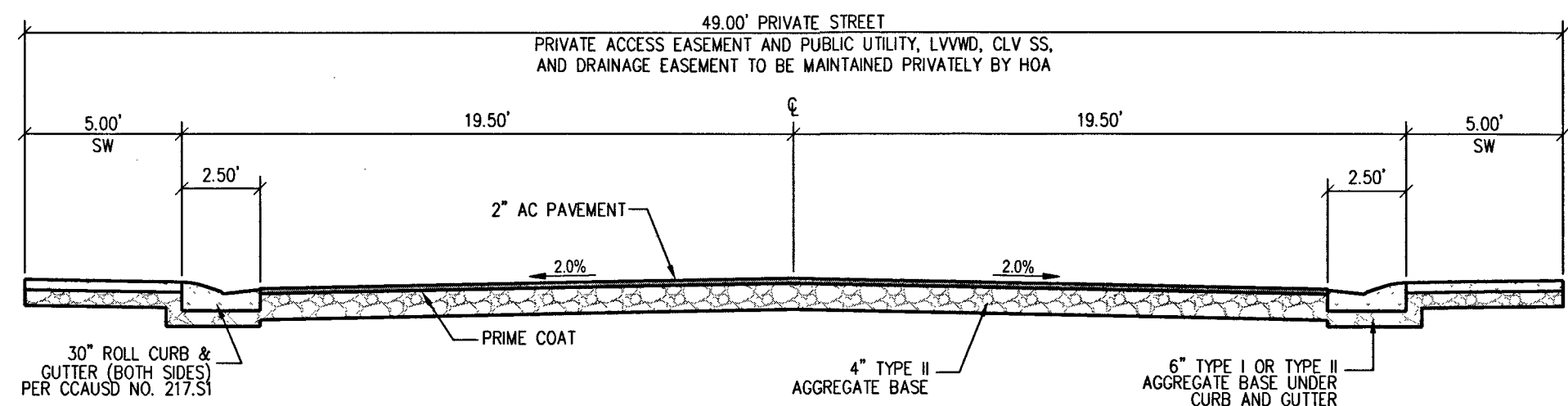
RICHMOND AMERICAN HOMES

CENTENNIAL HUALAPAI PHASE 2
GRADING PLAN II

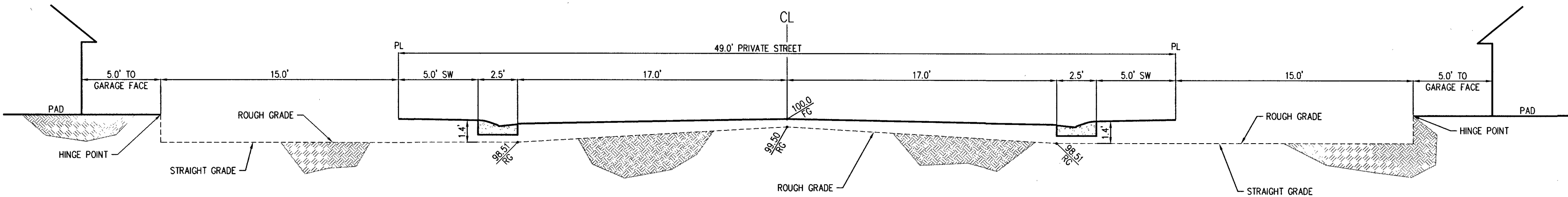
DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO.: RAH1723

ENGINEER
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
3/11/19

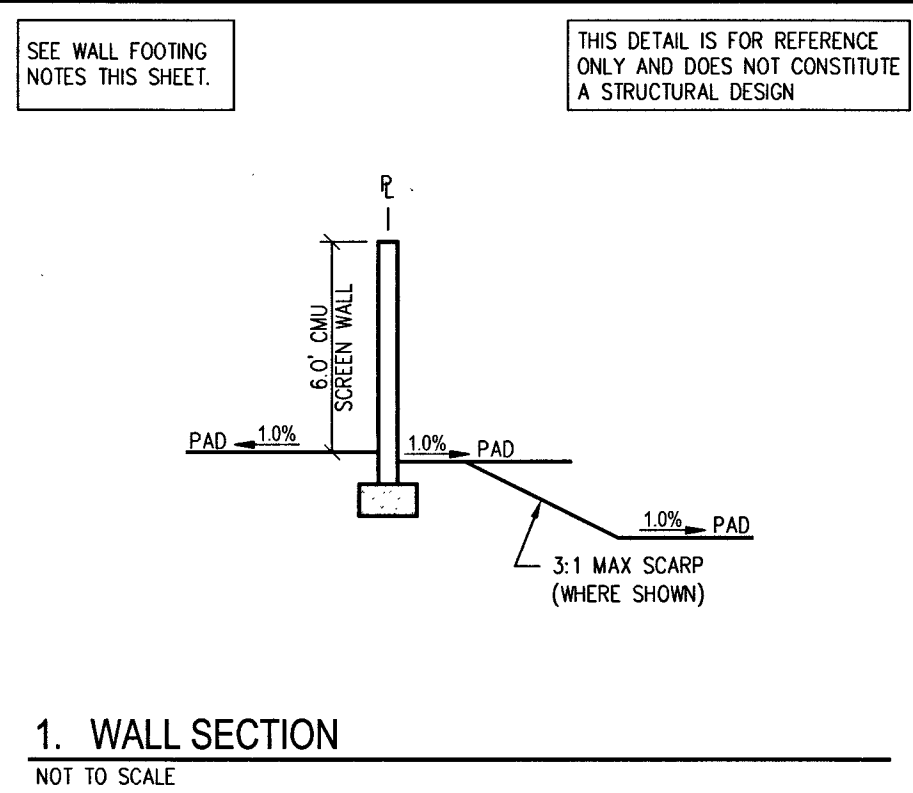
G-2
SHEET 5 OF 14



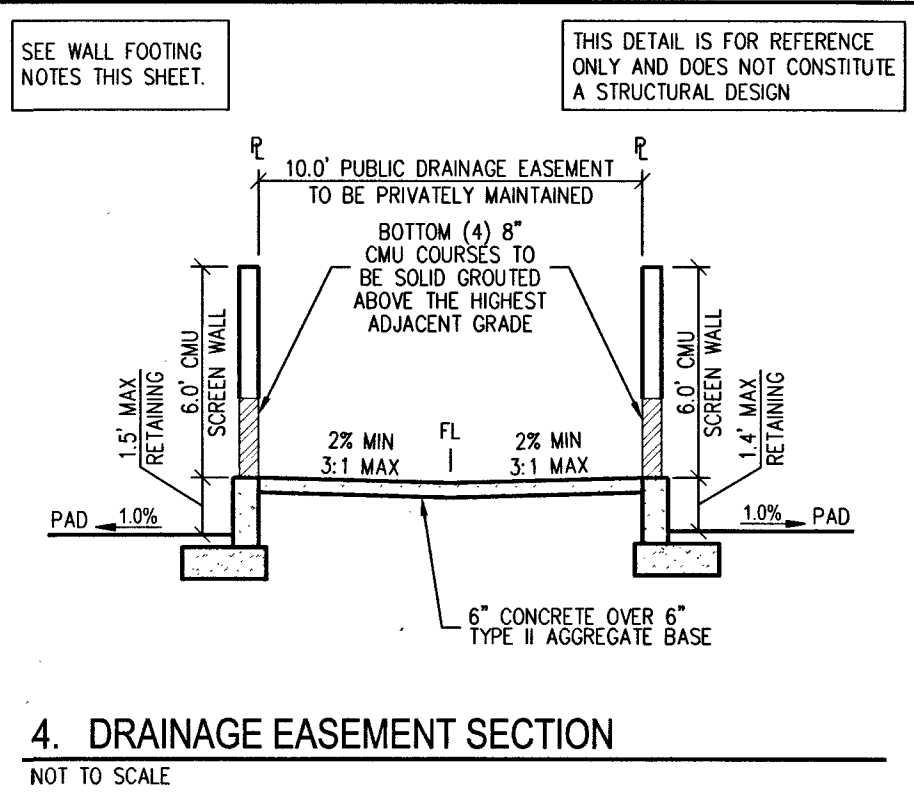
A. PRIVATE STREET SECTION
NOT TO SCALE



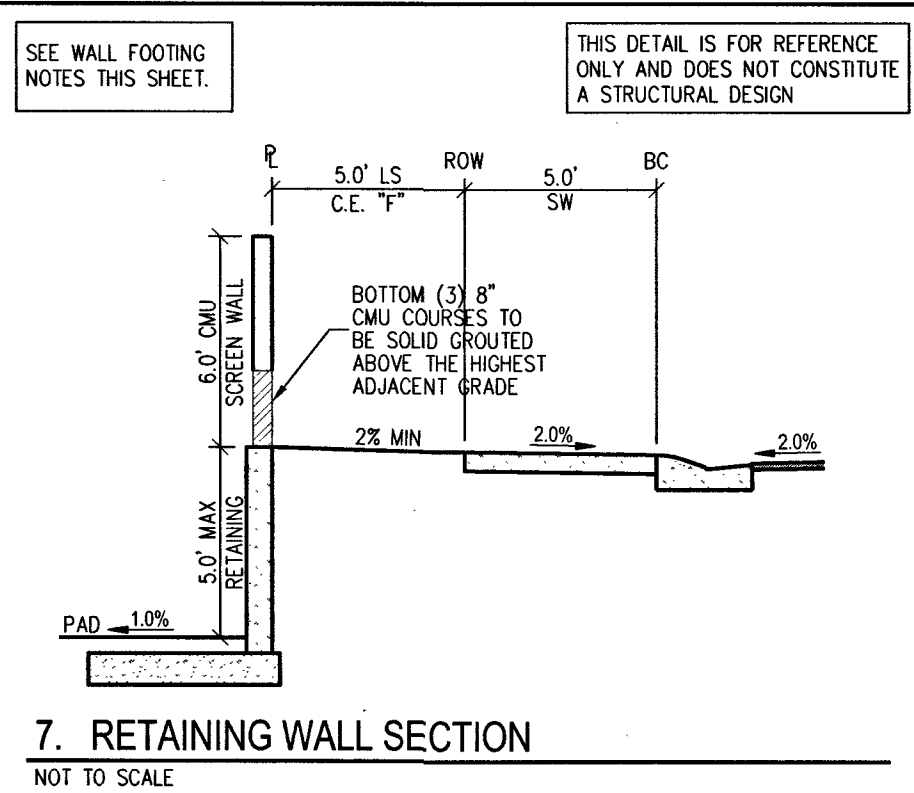
B. 49' WIDE INTERIOR PRIVATE STREET SUBSECTION
NOT TO SCALE - INTERIOR STREET ROUGH GRADE



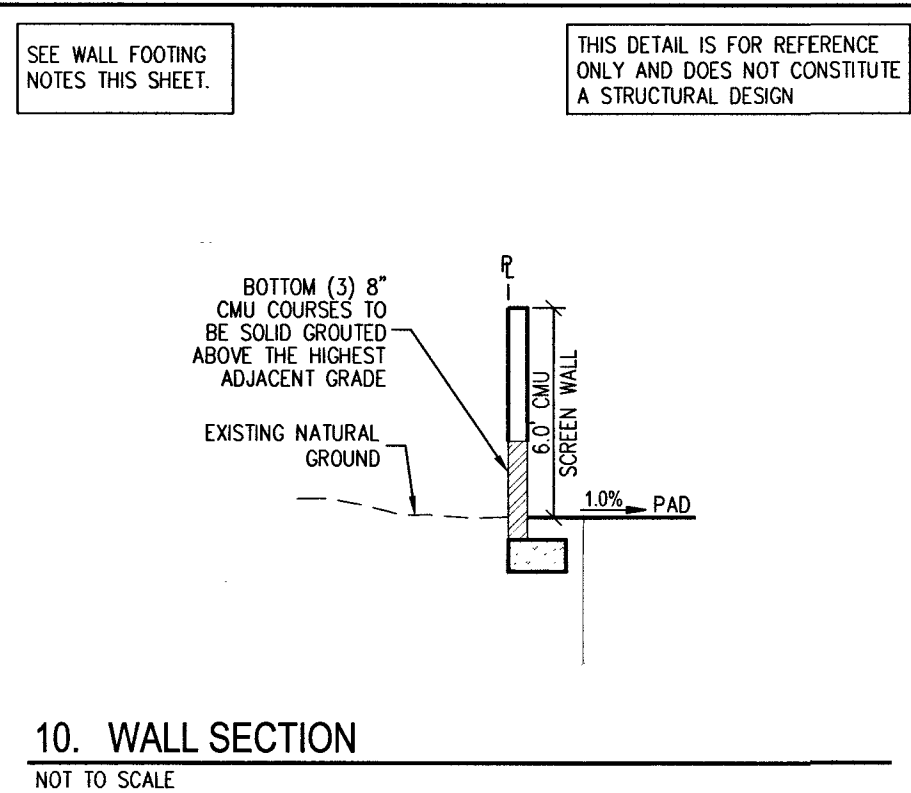
1. WALL SECTION
NOT TO SCALE



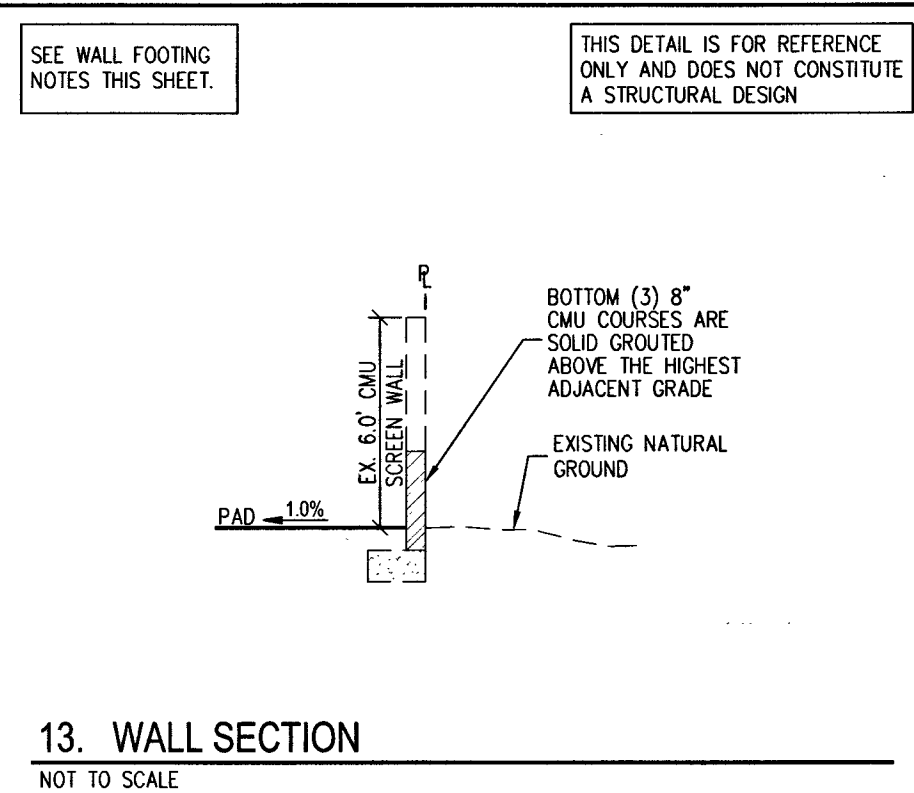
4. DRAINAGE EASEMENT SECTION
NOT TO SCALE



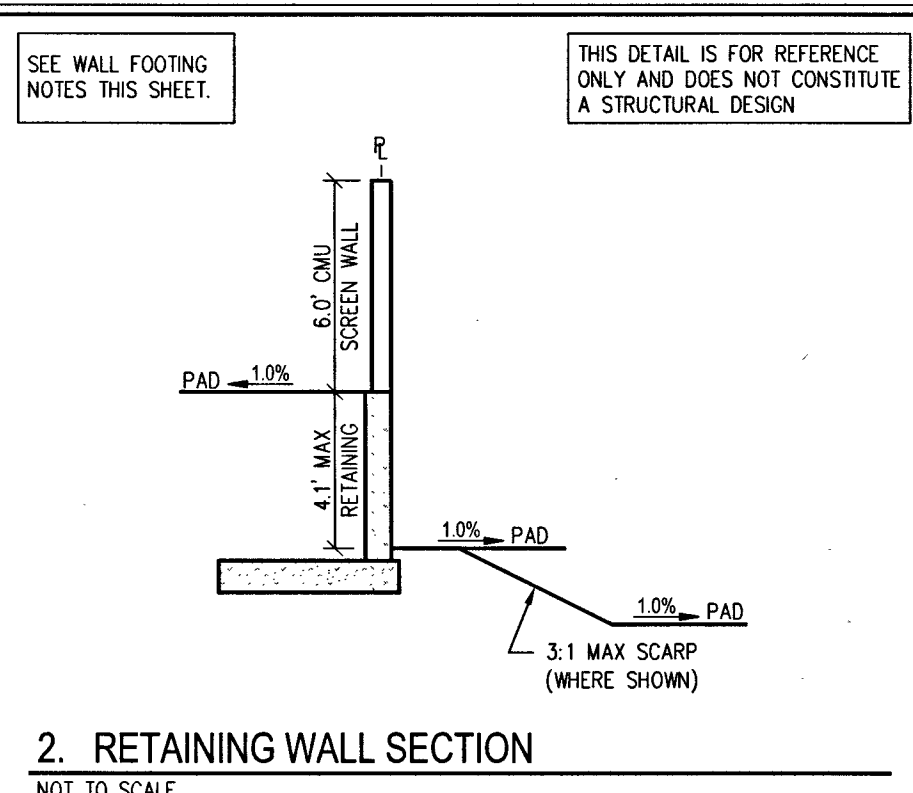
7. RETAINING WALL SECTION
NOT TO SCALE



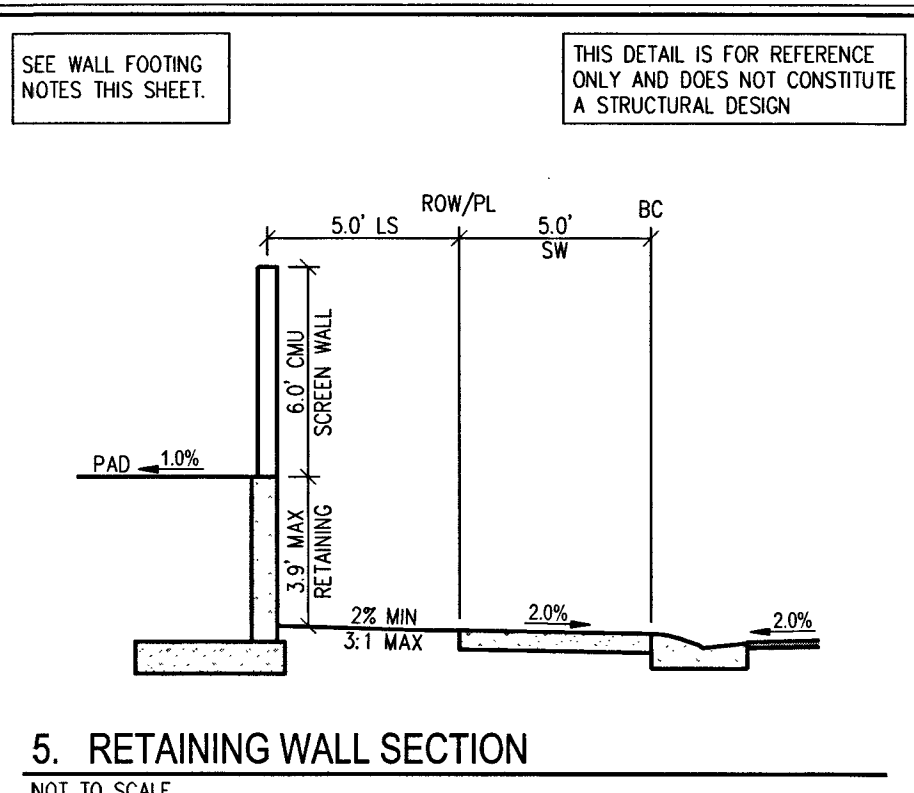
10. WALL SECTION
NOT TO SCALE



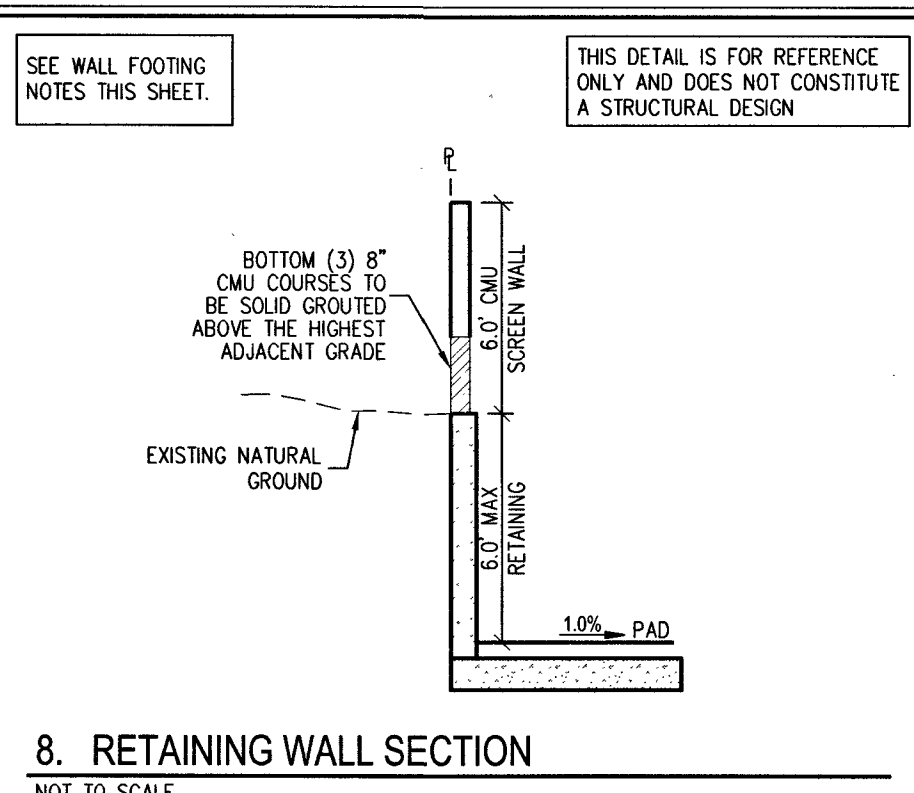
13. WALL SECTION
NOT TO SCALE



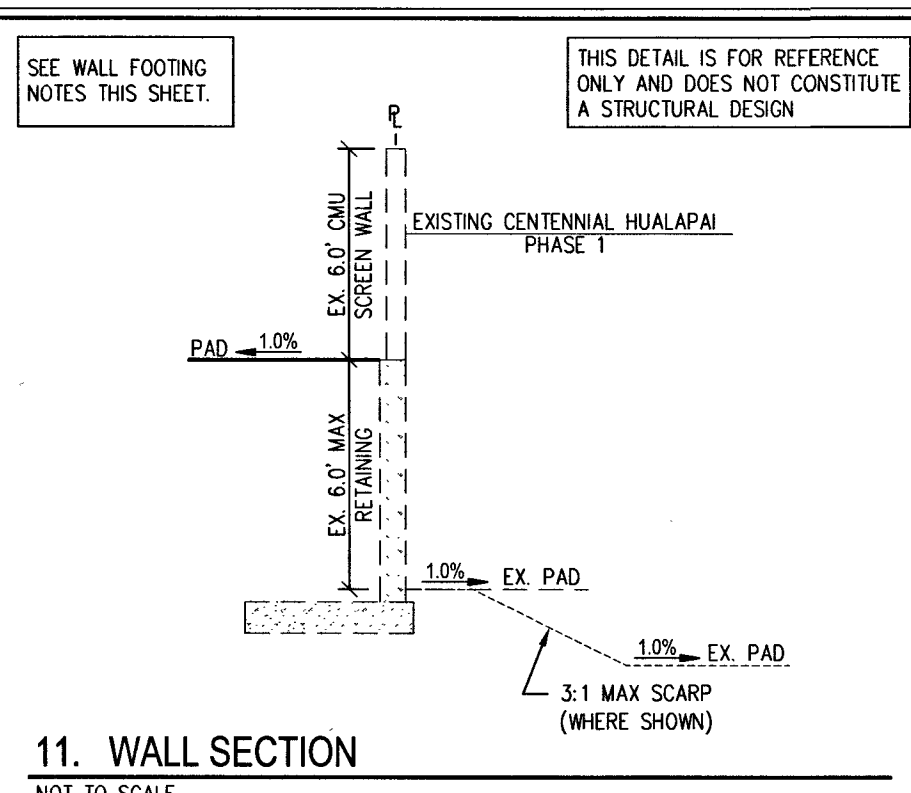
2. RETAINING WALL SECTION
NOT TO SCALE



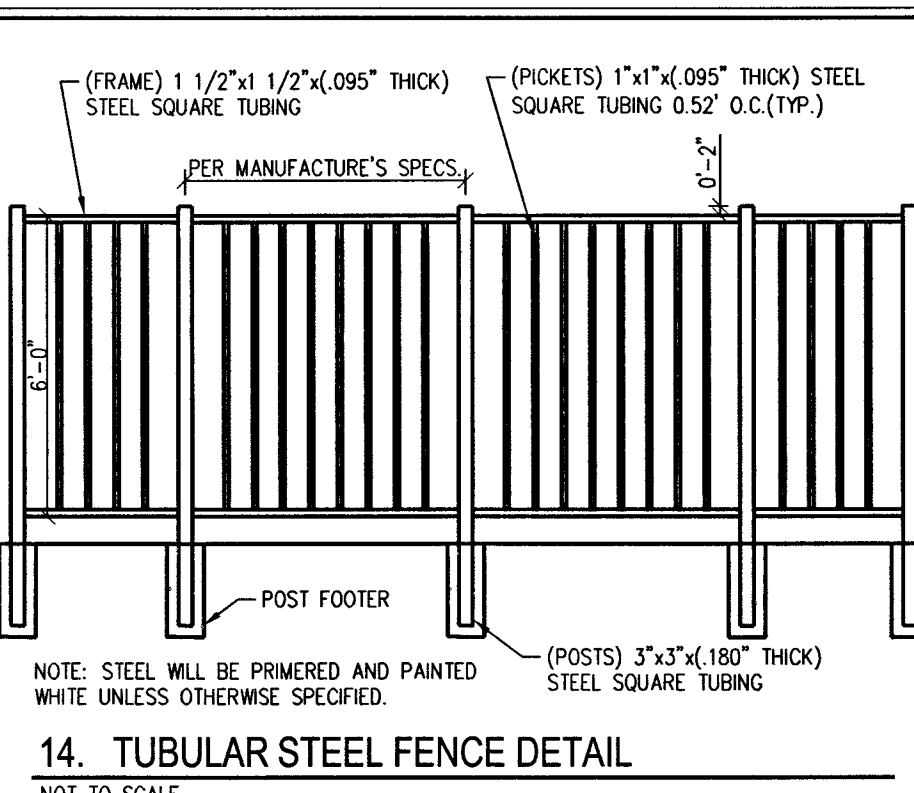
5. RETAINING WALL SECTION
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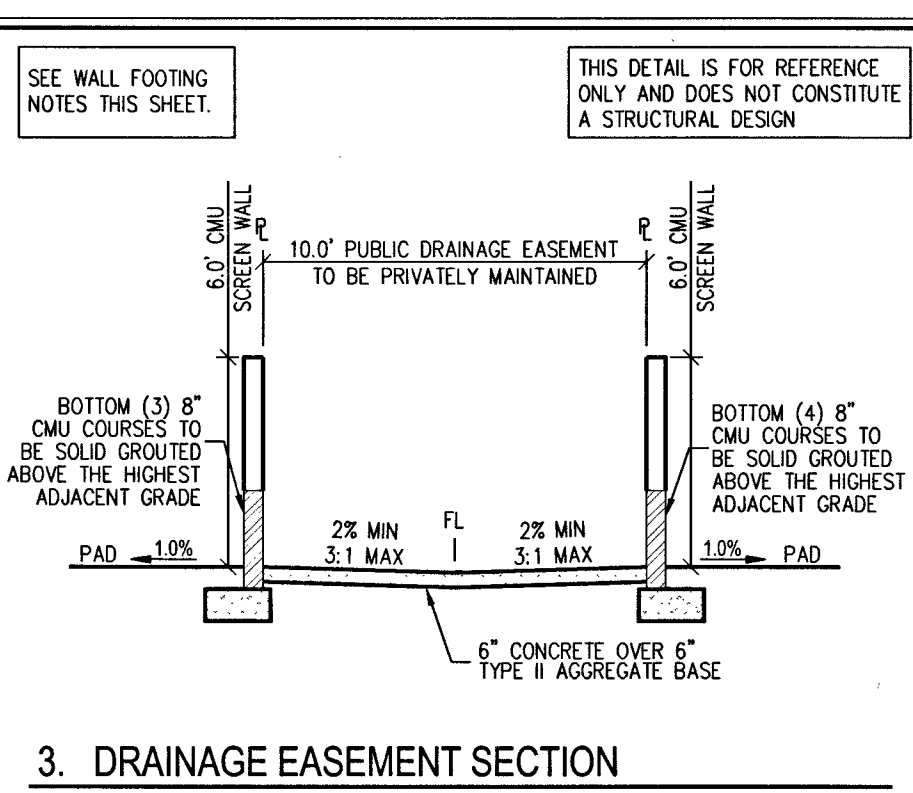
8. RETAINING WALL SECTION
NOT TO SCALE



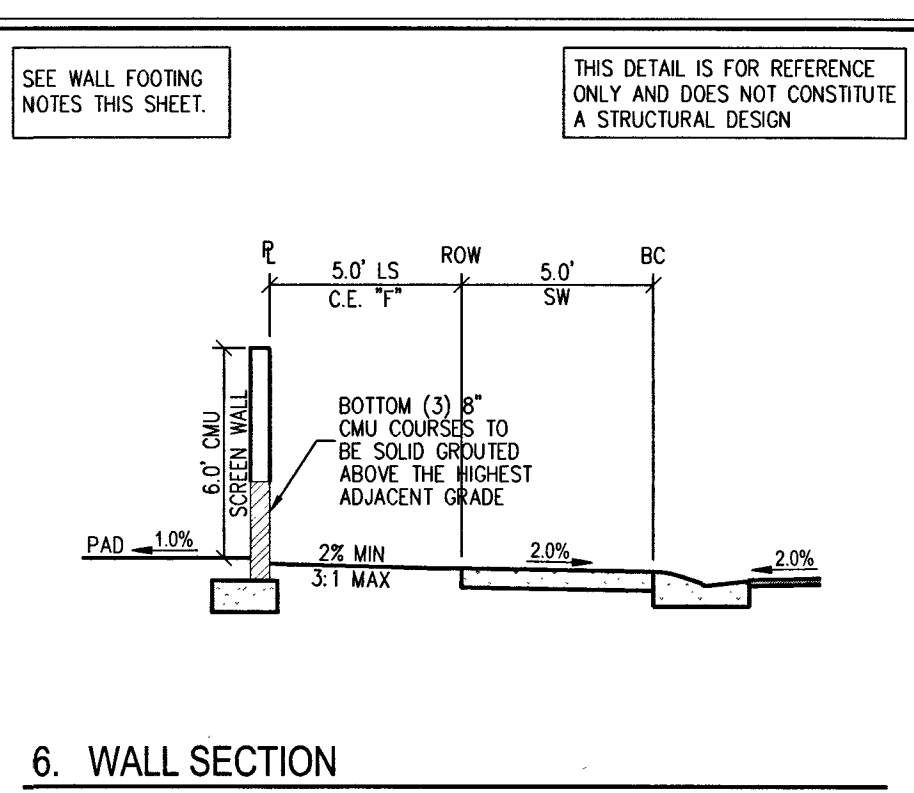
11. WALL SECTION
NOT TO SCALE



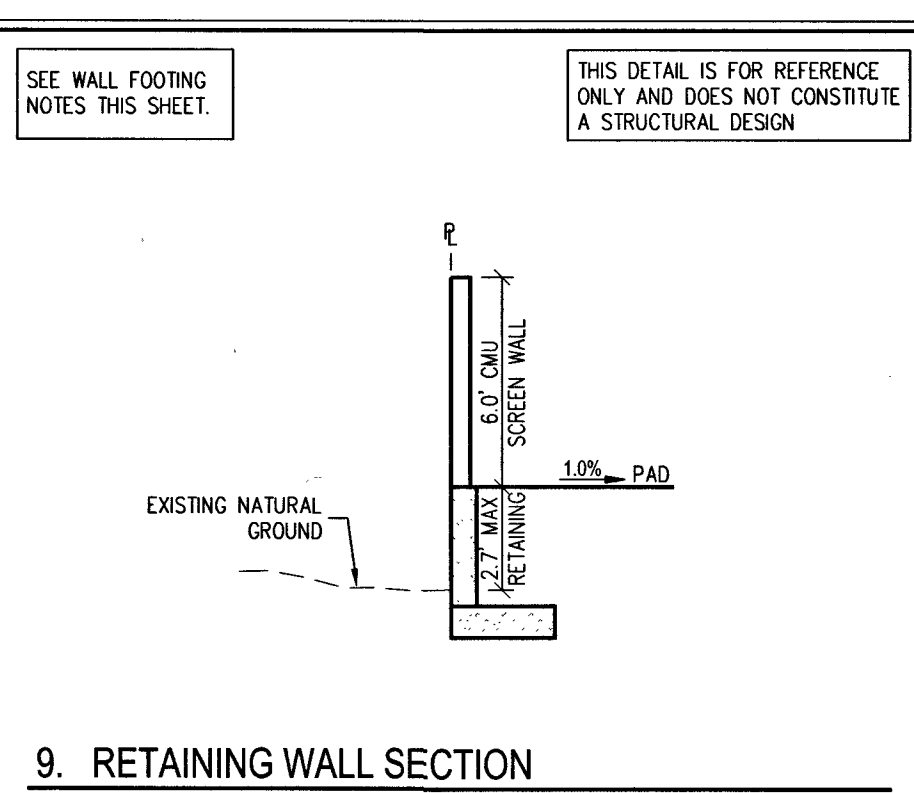
14. TUBULAR STEEL FENCE DETAIL
NOT TO SCALE



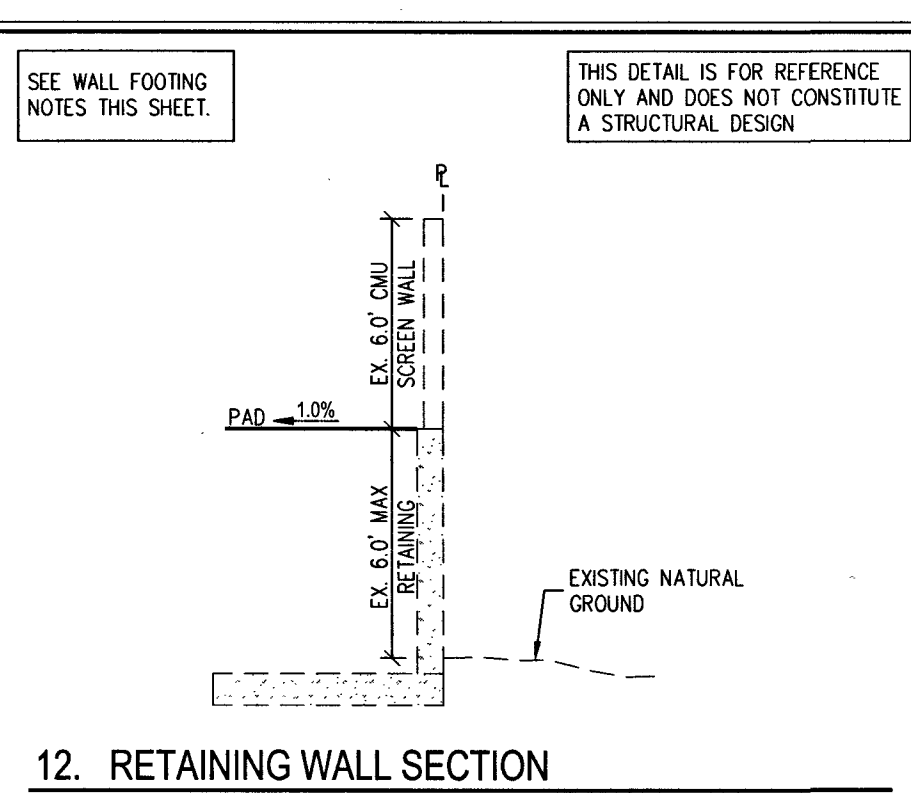
3. DRAINAGE EASEMENT SECTION
NOT TO SCALE



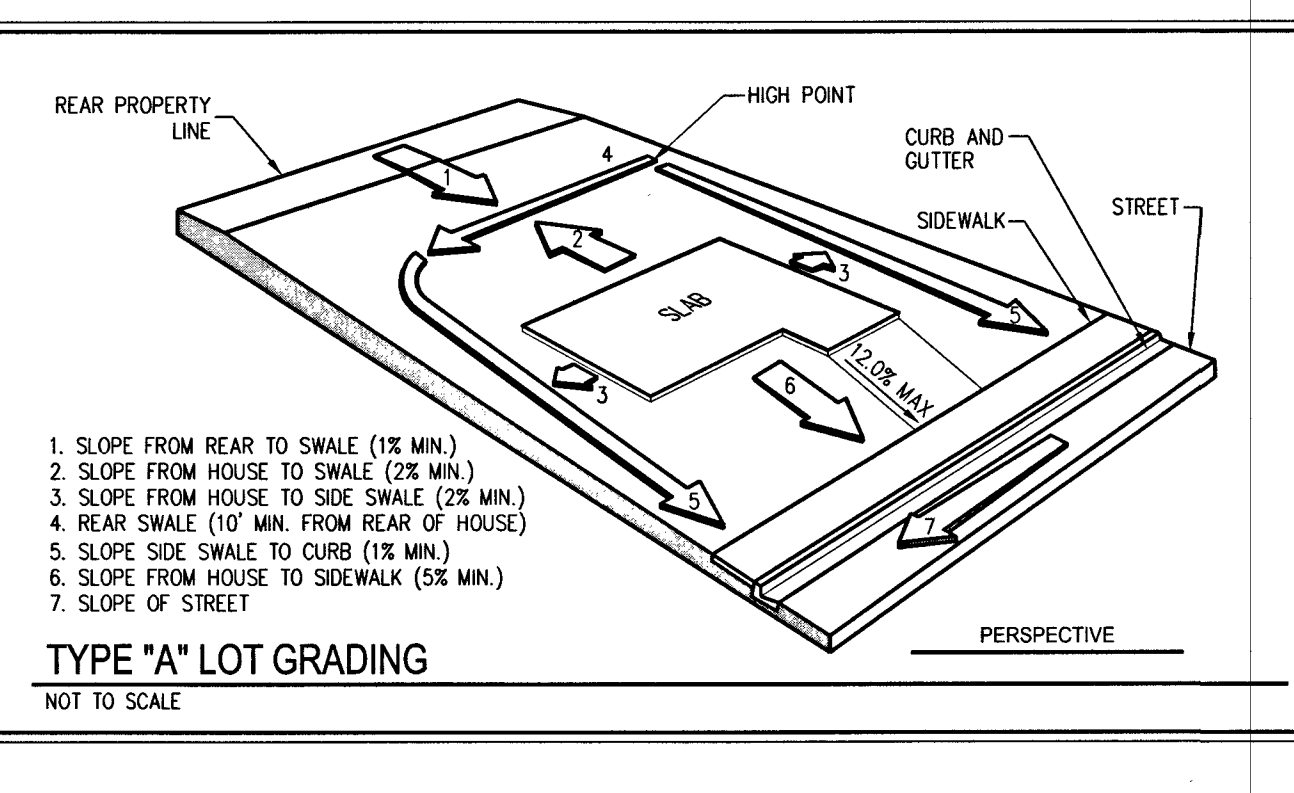
6. WALL SECTION
NOT TO SCALE



9. RETAINING WALL SECTION
NOT TO SCALE



12. RETAINING WALL SECTION
NOT TO SCALE



PERIMETER WALL NOTE
1. PERIMETER WALLS TO BE DECORATIVE AND 20% CONTRASTING.

WALL FOOTING NOTES:
1. PROVIDE MINIMUM 4\"/>

L18.01948
107X5084-2

SLATER HANIFAN GROUP

a Westwood team

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118

PHONE (702) 284-5300 FAX (702) 284-5399

RICHMOND AMERICAN HOMES

CENTENNIAL HUALAPAI PHASE 2

STREET SECTIONS & GRADING DETAILS

CITY OF LAS VEGAS, NV

DATE: 3/11/19

DRAWN: EMH

DESIGNER: EMH

CHECKED: KMB

PROJECT NO. RAH1723

PROFESSIONAL ENGINEER

KEVIN M. BROSS

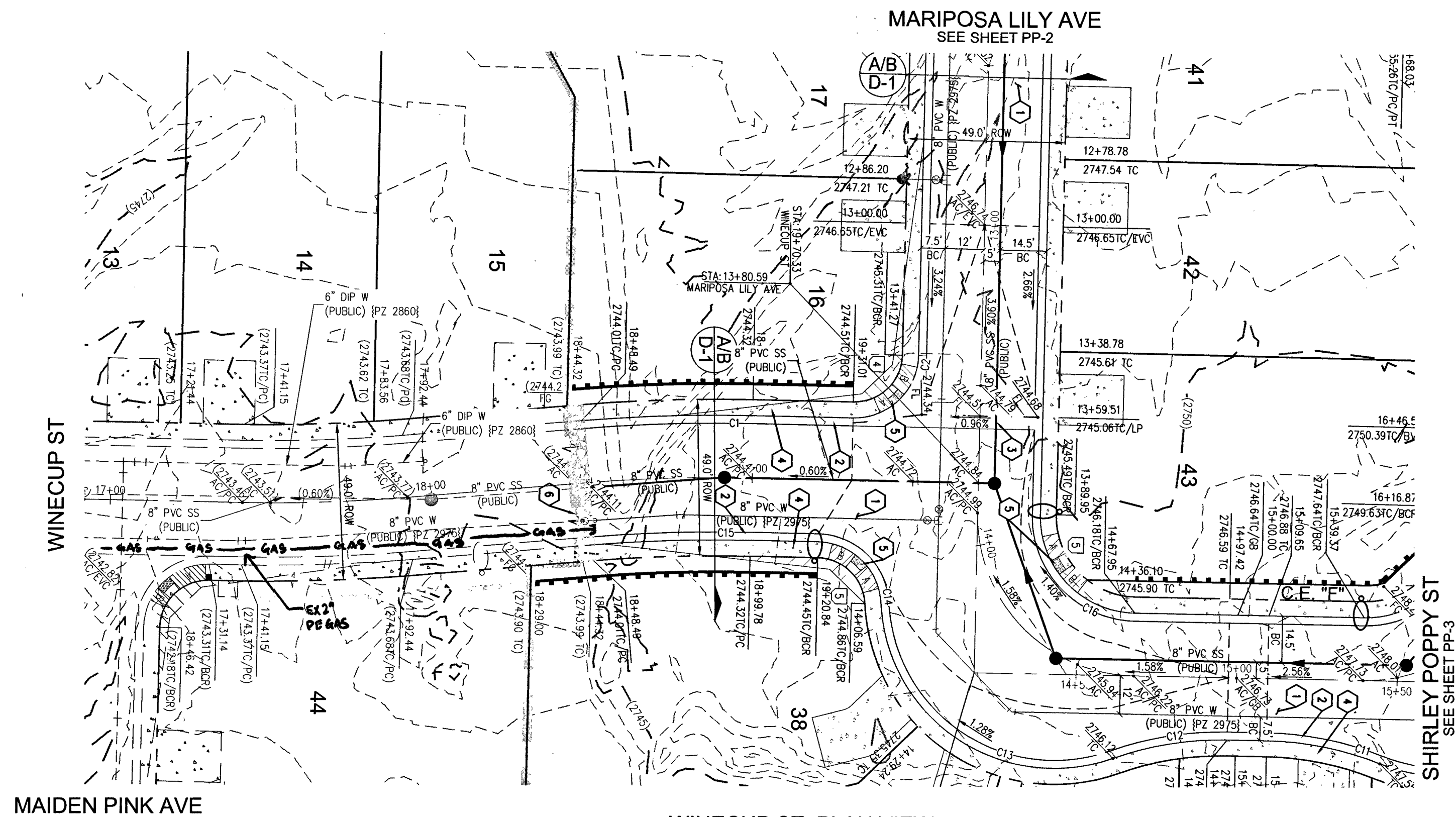
Exp. 12/31/2020

CIVIL

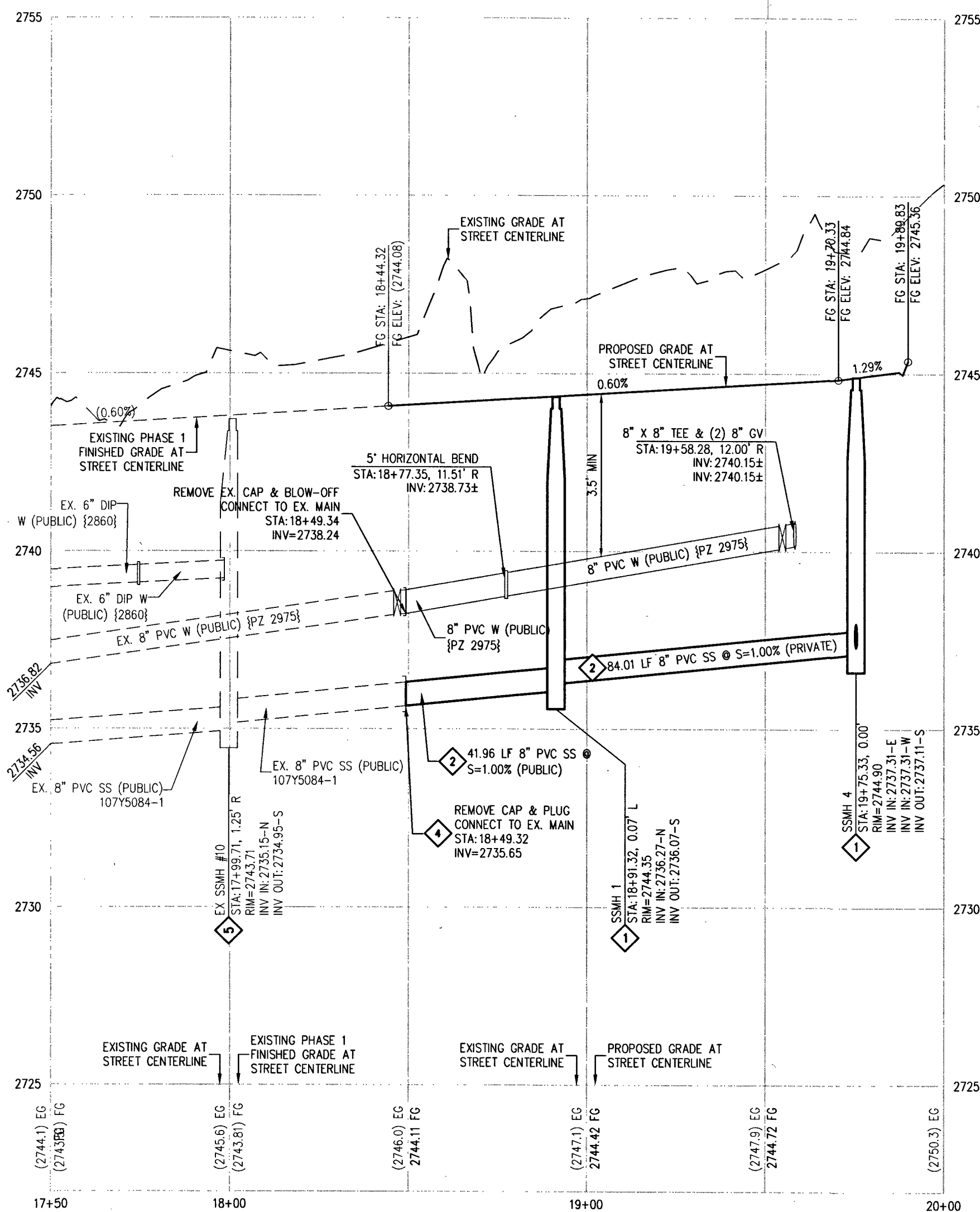
No. 24571

SHEET 6 OF 14

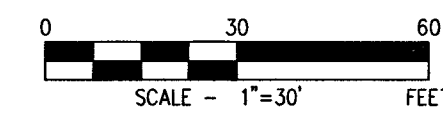
D-1



WINECUP ST - PLAN VIEW
(PRIVATE)



WINECUP ST - PROFILE VIEW
HORIZ: 1" = 30'
VERT: 1" = 3'



SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

RAMP NO.	GRADE %	"A" (FT)	"B" (FT)
1	-6 TO -5.01	4.5'	21.5'
2	-5 TO -4.01	4.5'	15.0'
3	-4 TO -3.01	4.5'	12.0'
4	-3 TO -2.01	4.5'	9.5'
5	-2 TO 2	8.0'	8.0'
6	2.01 TO 3	9.5'	4.5'
7	3.01 TO 4	12.0'	4.5'
8	4.01 TO 5	15.0'	4.5'
9	5.01 TO 6	21.5'	4.5'

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	53.29'	519.50'	55°38'	26.67'
C2	31.33'	20.00'	89°42'38"	19.91'
C11	36.24'	100.00'	20°45'41"	18.32'
C12	36.24'	100.00'	20°45'41"	18.32'
C13	100.84'	54.00'	106°59'48"	72.97'
C14	30.09'	20.00'	86°12'03"	18.72'
C15	49.29'	480.50'	55°38'	24.67'
C16	47.28'	30.00'	90°17'37"	30.15'

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GENERAL NOTES

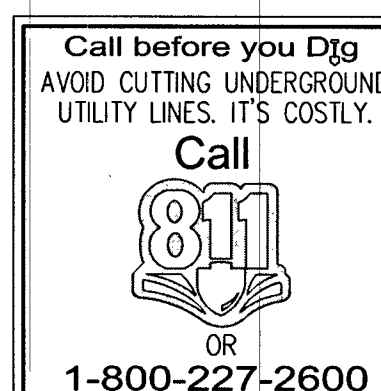
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FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1745E, DATED SEPTEMBER 27, 2002. A ZONE "X" (UNSHADED) IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% (500 YEAR) ANNUAL CHANCE FLOOD PLAIN.

APPROVED FOR CONSTRUCTION

Samuel Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135575 FIRST APPROVED DATE: 3-21-19



CONSTRUCTION NOTES

- CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE.
- CONSTRUCT 30" ROLL CURB AND GUTTER PER CCAUSD NO. 217.1
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228
- CONSTRUCT 5" WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
- CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD NO. 235, CASE 1
- SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 503 & 500.2
- INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
- INSTALL 6" HIGH TUBULAR STEEL FENCE PER DETAIL 15 ON SHEET D-2
- INSTALL REMOVABLE BOLLARD PER DETAIL 14 ON SHEET D-2
- CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE
- EXISTING FENCE TO REMAIN

SEWER CONSTRUCTION NOTES

- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-5 WITH 24" SINGLE LID
- INSTALL 8" SANITARY SEWER PIPE (PUBLIC) PER DCSWCS SD-15 AND SD-17
- INSTALL 4" PVC SEWER LATERAL PER DCSWCS SD-22 AND SD-25
- FIELD VERIFY LOCATION, REMOVE CAP AND CONNECT TO EXISTING SEWER
- PROTECT SEWER APPURTENANCES IN PLACE. REF. PLANS FOR DETAILS
- INSTALL MANHOLE WITH INTERIOR CORROSION PROTECTION PER DCSWCS 4.9.9(b), WATERTIGHT JOINTS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS STANDARDS. MANHOLE SHALL BE ENCASED PER UDACS 2.22.01.B.2.c (2)

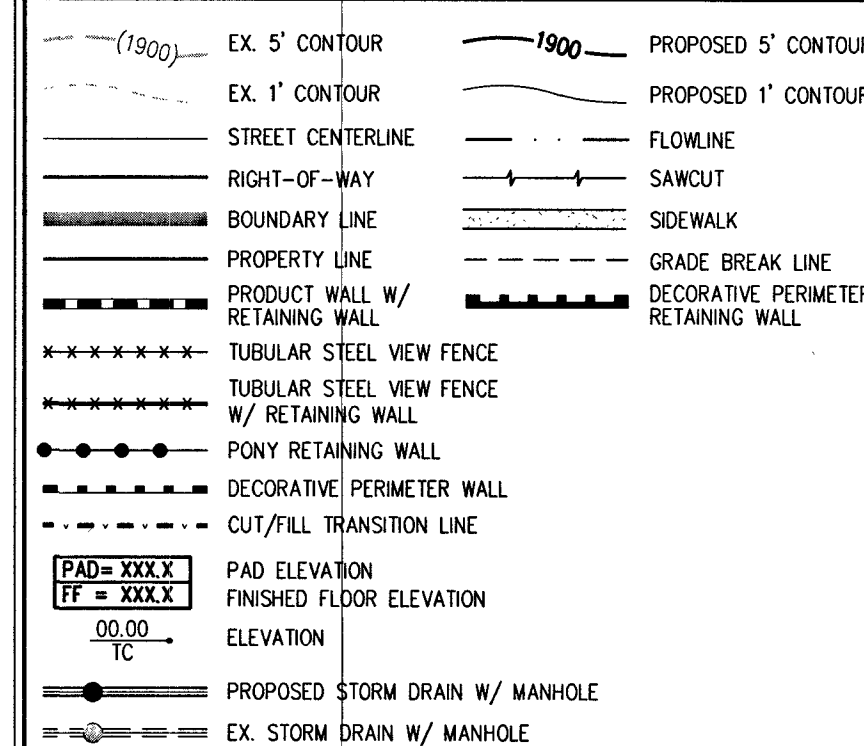
NOTES

- INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.
- ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)
- WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.

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.

LEGEND



SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

PP-1
SHEET 7 OF 14

RICHMOND AMERICAN HOMES

DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723

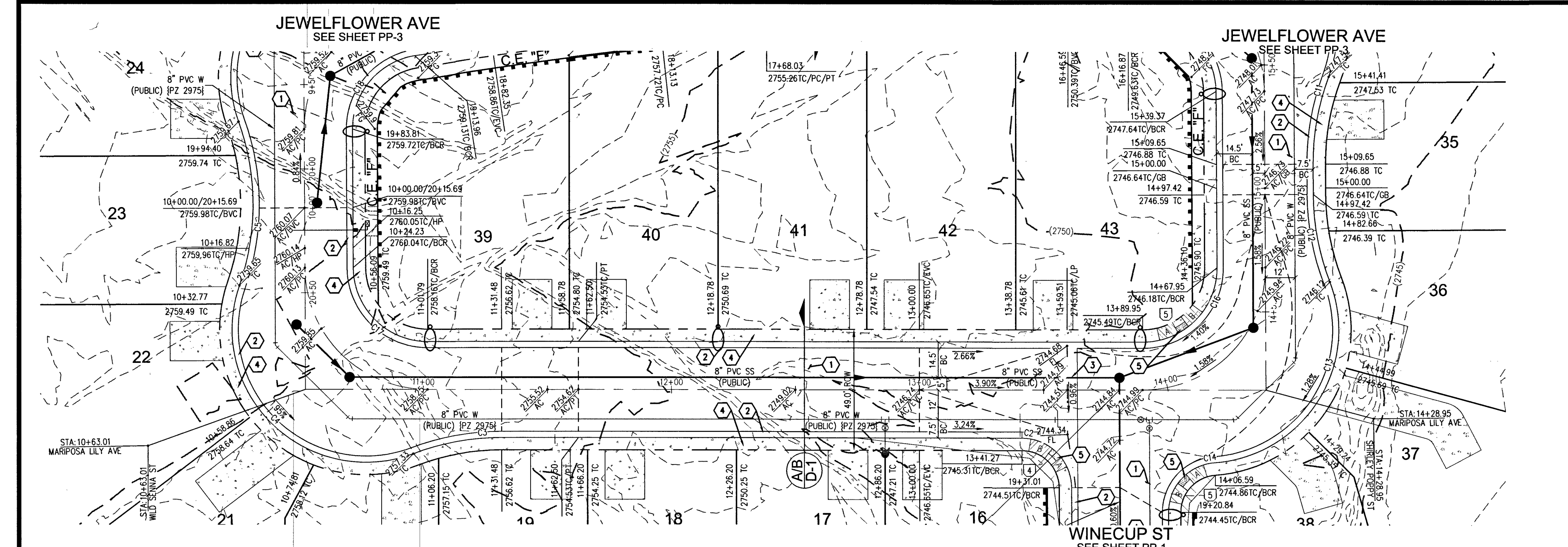
PROJ. NO. 135575
DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723

FAST
Call before you Dig UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

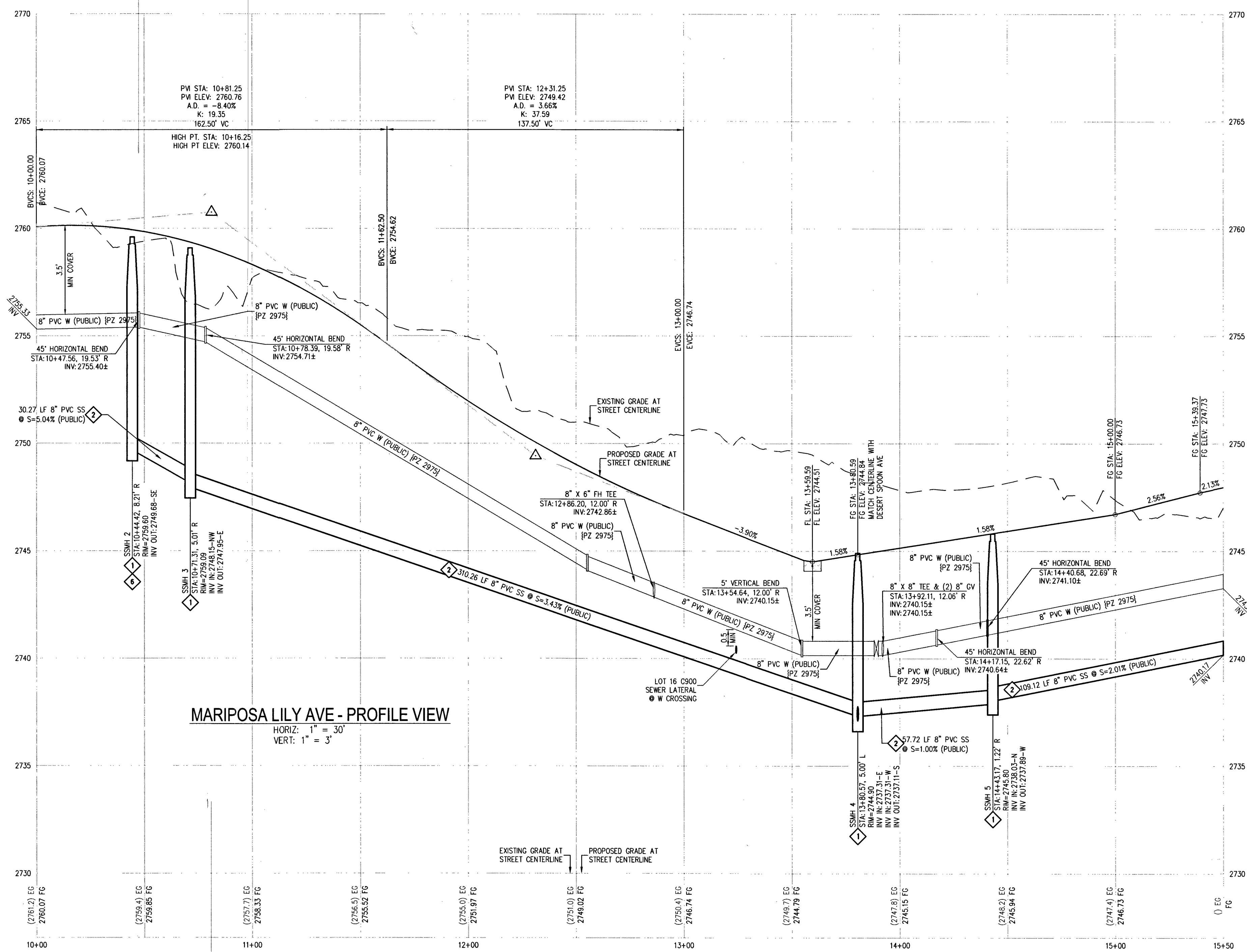
811
Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

SOUTHWEST GAS APPROVAL
[Signature] 4.8.19
SOUTHWEST GAS CORPORATION DATE

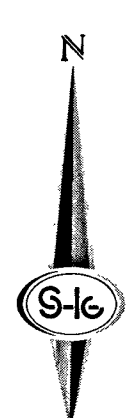
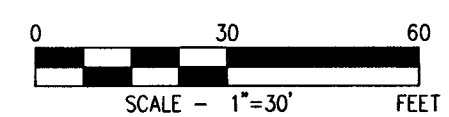
PP-1
SHEET 7 OF 14



MARIPOSA LILY AVE - PLAN VIEW
(PRIVATE)

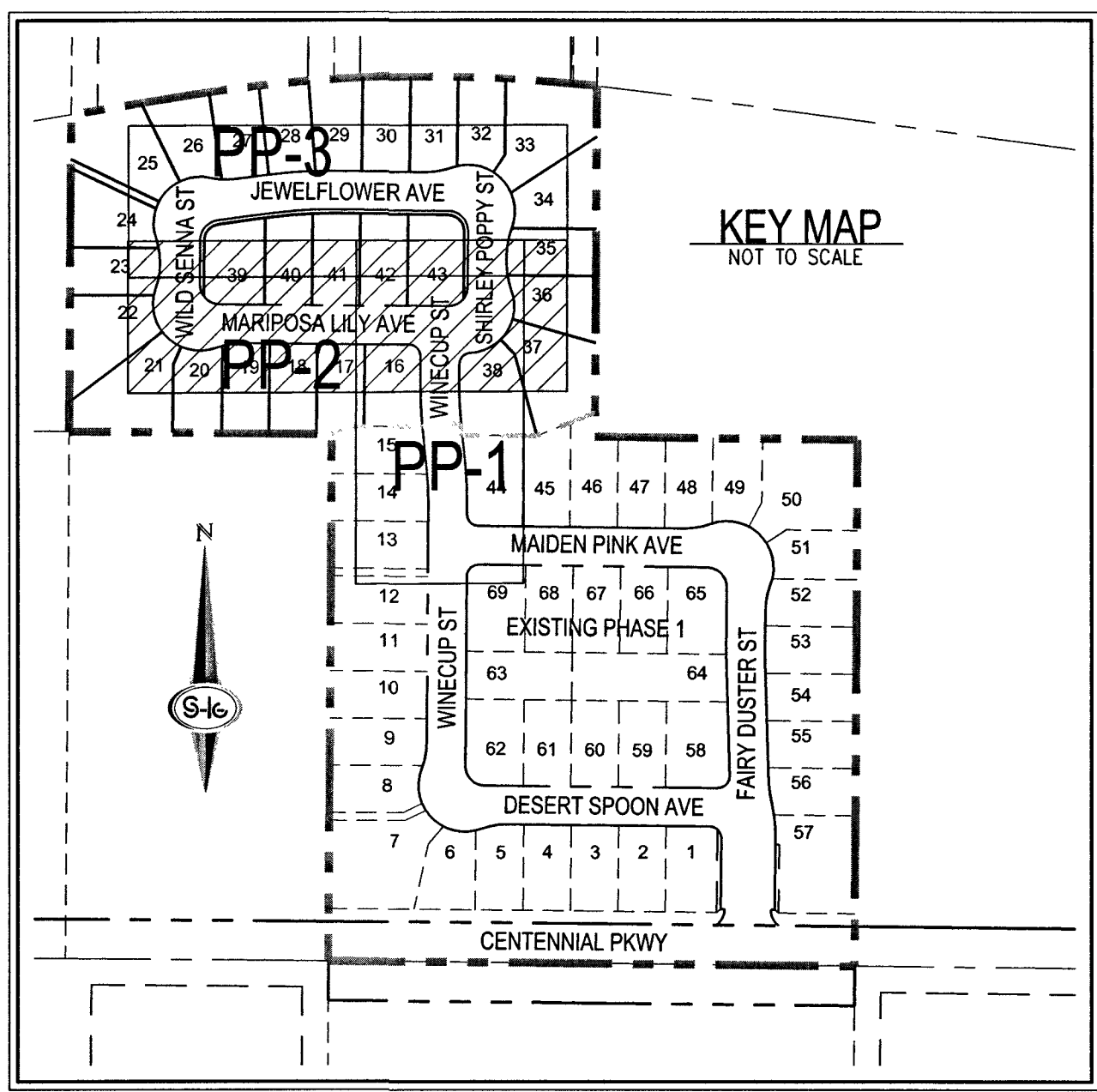


MARIPOSA LILY AVE - PROFILE VIEW



SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.



RAMP TRANSITION LENGTHS				
RAMP NO.	GRADE %	"A" (FT)	"B" (FT)	"C" (FT)
1	-6 TO -5.01	4.5'	15.0'	15.0'
2	-5 TO -4.01	4.5'	15.0'	15.0'
3	-4 TO -3.01	4.5'	12.0'	12.0'
4	-3 TO -2.01	4.5'	9.5'	9.5'
5	-2 TO 2	8.0'	8.0'	8.0'
6	2.01 TO 3	9.5'	4.5'	4.5'
7	3.01 TO 4	12.0'	4.5'	4.5'
8	4.01 TO 5	15.0'	4.5'	4.5'
9	5.01 TO 6	21.5'	4.5'	4.5'

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C2	31.33'	20.00'	89°44'28"	19.91'
C3	36.24'	100.00'	20°45'41"	18.32'
C4	122.44'	54.00'	129°54'48"	115.58'
C5	67.84'	100.00'	38°45'20"	35.17'
C11	36.24'	100.00'	20°45'41"	18.32'
C12	36.24'	100.00'	20°45'41"	18.32'
C13	100.84'	54.00'	106°59'48"	72.97'
C14	30.09'	20.00'	86°12'03"	18.72'
C16	47.28'	30.00'	90°17'37"	30.15'
C17	47.01'	30.00'	89°46'27"	29.88'
C18	42.33'	30.00'	80°51'10"	25.56'

- CONSTRUCTION NOTES**
- CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE
 - CONSTRUCT 30" ROLL CURB AND GUTTER PER CCAUSD NO. 217.1
 - CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228
 - CONSTRUCT 5" WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
 - CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT CCAUSD NO. 235, CASE 1
 - SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 503 & 500.2
 - INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
 - INSTALL 6" HIGH TUBULAR STEEL FENCE PER DETAIL 15 ON SHEET D-2
 - INSTALL REMOVABLE BOLLARD PER DETAIL 14 ON SHEET D-2
 - CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE
 - EXISTING FENCE TO REMAIN

- SEWER CONSTRUCTION NOTES**
- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 WITH 24" SINGLE LID
 - INSTALL 8" SANITARY SEWER PIPE (PUBLIC) PER DCSWCS SD-15 AND SD-17
 - INSTALL 4" PVC SEWER LATERAL PER DCSWCS SD-22 AND SD-25
 - FIELD VERIFY LOCATION, REMOVE CAP AND CONNECT TO EXISTING SEWER
 - PROTECT SEWER APPURTENANCES IN PLACE. REF. PLANS FOR DETAILS
 - INSTALL MANHOLE WITH INTERIOR CORROSION PROTECTION PER DCSWCS 4.9.9(c), WATER TIGHT JOINTS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS STANDARDS, MANHOLE SHALL BE ENCASED PER UDACCS 2.22.01.B.2.c (2)

- NOTES**
- INSTALL PIPELINE MARKER BALLS PER UDACCS PLATE NO. 15
 - ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I)
 - WATER MAIN JOINT DEFLECTION, PER UDACCS 2.07.01 AND 2.07.03.

DEPTH OF COVER DURING CONSTRUCTION

MAINTAIN MINIMUM DEPTH OF FOUR (4) INCH COVER PER UDACCS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

LEGEND

(1000)	EX. 5' CONTOUR	(1000)	PROPOSED 5' CONTOUR
---	EX. 1' CONTOUR	---	PROPOSED 1' CONTOUR
---	STREET CENTERLINE	---	FLOWLINE
---	RIGHT-OF-WAY	---	SAWCUT
---	BOUNDARY LINE	---	SIDEWALK
---	PROPERTY LINE	---	GRADE BREAK LINE
---	PRODUCT WALL W/ RETAINING WALL	---	DECORATIVE PERIMETER RETAINING WALL
*****	TUBULAR STEEL VIEW FENCE		
*****	TUBULAR STEEL VIEW FENCE W/ RETAINING WALL		
*****	PONY RETAINING WALL		
*****	DECORATIVE PERIMETER WALL		
---	CUT/FILL TRANSITION LINE		
PAD - XXXX	PAD ELEVATION		
FF - XXXX	FINISHED FLOOR ELEVATION		
00.00	ELEVATION		
---	PROPOSED STORM DRAIN W/ MANHOLE		
---	EX. STORM DRAIN W/ MANHOLE		

DISCLAIMER NOTE

1) EXISTING UTILITY LOCATIONS SHOWN HEREON 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 IN THEIR PROPER LOCATION.

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.

- GENERAL NOTES**
- FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.11.2.2
 - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
 - ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP
 - MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT
 - SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS
 - ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
 - CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT
 - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLENISHING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
 - NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1745E, DATED SEPTEMBER 27, 2002. A ZONE "X" (UNSHADED) IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% (500 YEAR) ANNUAL CHANCE FLOOD PLAIN.

APPROVED FOR CONSTRUCTION

Kevin M. Cross
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135575
FIRST APPROVED DATE: 3.27.19

FAST
Call before you dig
UnderGround
1-702-432-5300
FREWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

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

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

613-01948
10745084-2

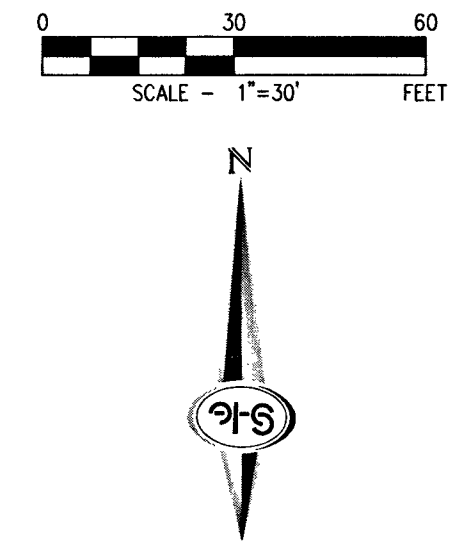
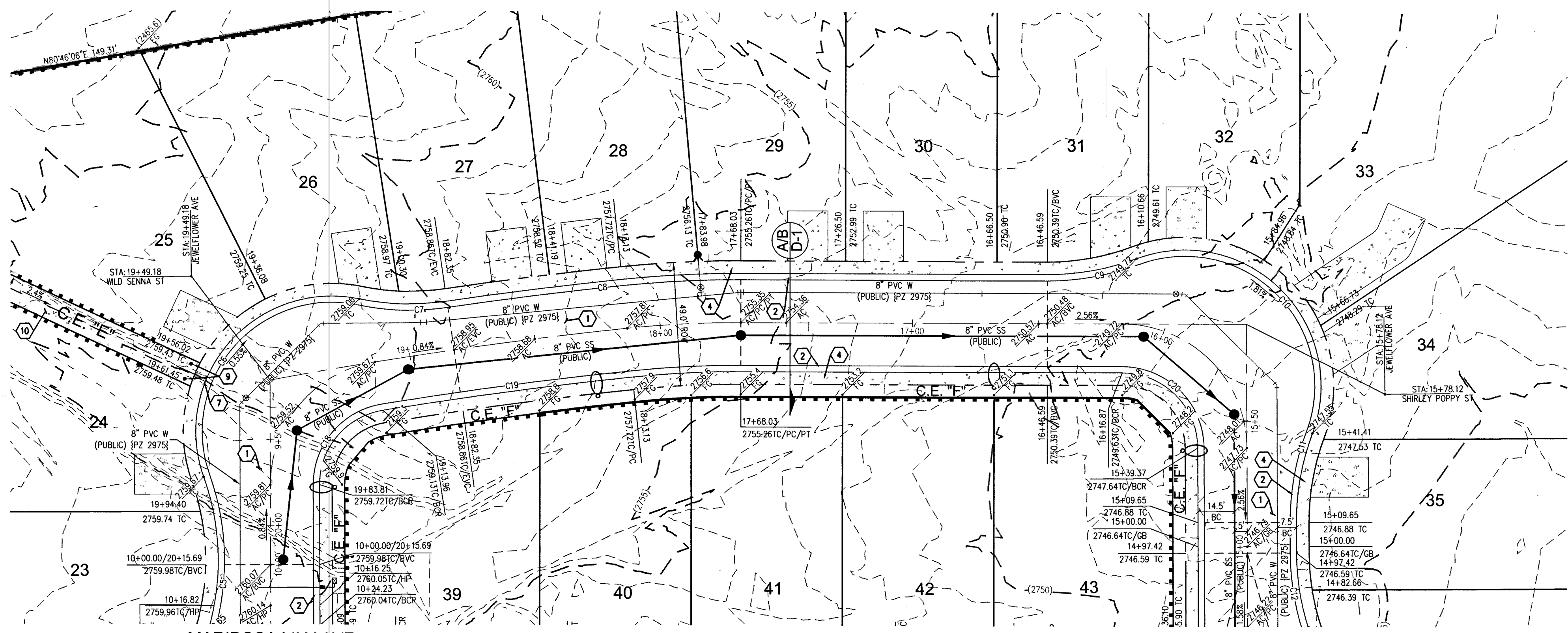
SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5390
FAX (702) 284-5399

RICHMOND AMERICAN HOMES

CENTENNIAL HUALAPAI PHASE 2
PLAN AND PROFILE II - MARIPOSA LILY AVE HALF

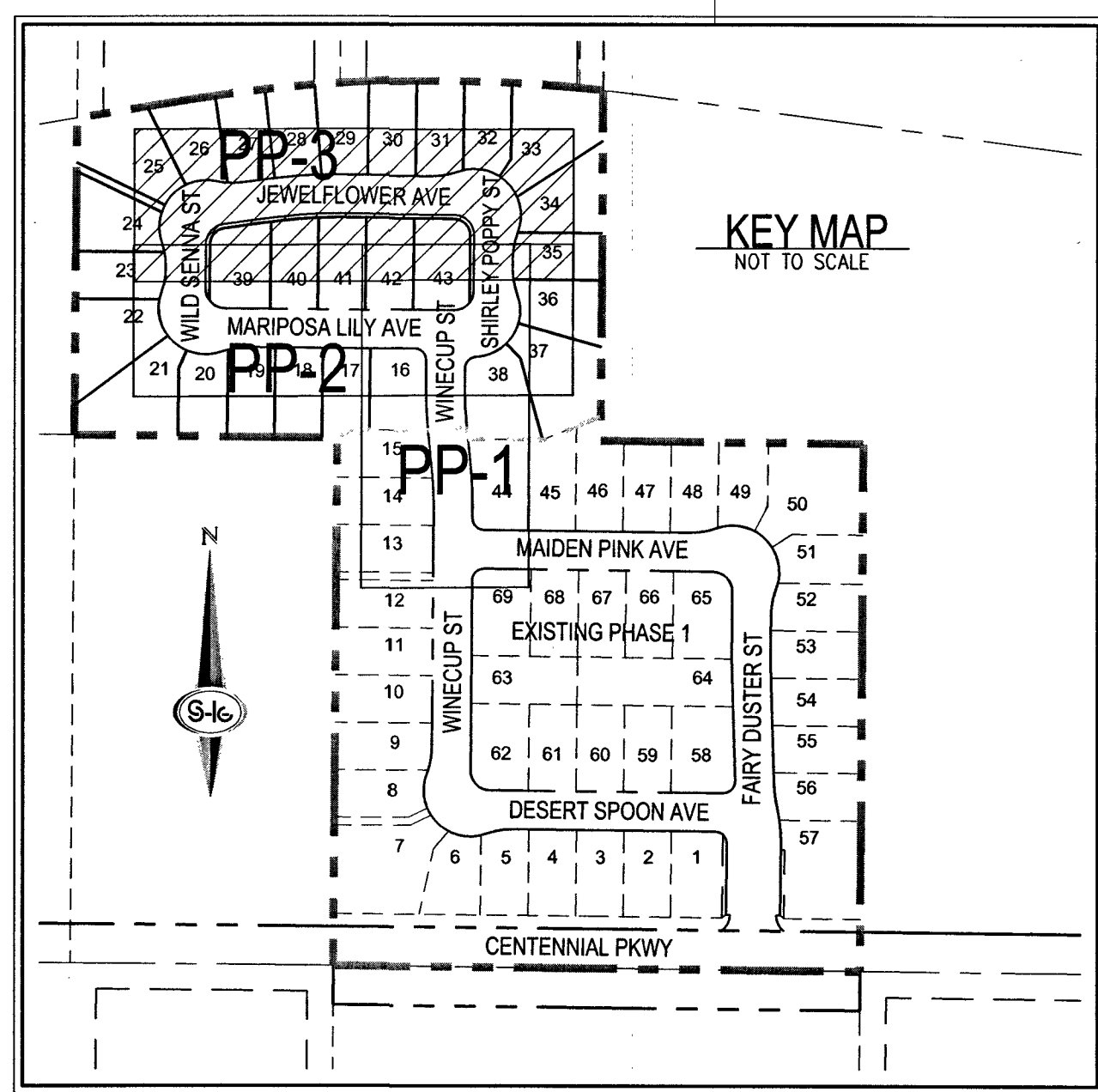
DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723
PP-2
SHEET 8 OF 14

\\h1723\centennial_hualapai\phase 2\h1723\h1723.dwg 3/11/2019 11:58 AM Lokale And



SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEMS SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.



RAMP TRANSITION LENGTHS				
RAMP NO.	GRADE % "B" TO "A"	"A" (FT) MIN.	"B" (FT) MIN.	
1	-6 TO -5.01	4.5'	21.5'	
2	-5 TO -4.01	4.5'	15.0'	
3	-4 TO -3.01	4.5'	12.0'	
4	-3 TO -2.01	4.5'	9.5'	
5	-2 TO 2	8.0'	8.0'	
6	2.01 TO 3	9.5'	4.5'	
7	3.01 TO 4	12.0'	4.5'	
8	4.01 TO 5	15.0'	4.5'	
9	5.01 TO 6	21.5'	4.5'	

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C5	67.64'	100.00'	38°45'20"	35.17'
C6	114.21'	54.00'	121°10'55"	95.80'
C7	34.77'	100.00'	19°55'18"	17.56'
C8	69.99'	1778.00'	2°15'19"	35.00'
C9	36.24'	100.00'	20°45'41"	18.32'
C10	123.68'	54.00'	131°13'45"	119.12'
C11	36.24'	100.00'	20°45'41"	18.32'
C12	36.24'	100.00'	20°45'41"	18.32'
C18	42.33'	30.00'	80°51'10"	25.56'
C19	99.71'	1739.00'	3°17'06"	49.87'
C20	46.97'	30.00'	89°42'23"	29.85'

- CONSTRUCTION NOTES**
- CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE
 - CONSTRUCT 30" ROLL CURB AND GUTTER PER CCAUSD NO. 217.1
 - CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228
 - CONSTRUCT 45" WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
 - CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD NO. 235, CASE 1
 - SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 503 & 500.2
 - INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
 - INSTALL 6" HIGH TUBULAR STEEL FENCE PER DETAIL 15 ON SHEET D-2
 - INSTALL REMOVABLE BOLLARD PER DETAIL 14 ON SHEET D-2
 - CONSTRUCT 6" CONCRETE OVER 6" TYPE II AGGREGATE BASE
 - EXISTING FENCE TO REMAIN

- SEWER CONSTRUCTION NOTES**
- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWS SD-1A, SD-1B, SD-4 AND SD-9 WITH 24" SINGLE LD
 - INSTALL 8" SANITARY SEWER PIPE (PUBLIC) PER DCSWS SD-15 AND SD-17
 - INSTALL 4" PVC SEWER LATERAL PER DCSWS SD-22 AND SD-25
 - FIELD VERIFY LOCATION, REMOVE CAP AND CONNECT TO EXISTING SEWER
 - PROTECT SEWER APPURTENANCES IN PLACE. REF. PLANS FOR DETAILS
 - INSTALL MANHOLE WITH INTERIOR CORROSION PROTECTION PER DCSWS 4.9.9(6). WATER-TIGHT JOINTS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWS STANDARDS. MANHOLE SHALL BE ENCASED PER UDACS 2.22.01.B.2.c (2)

- NOTES**
- INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
 - ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I)
 - WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

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.

LEGEND

(1000)	EX. 5' CONTOUR	1000	PROPOSED 5' CONTOUR
---	EX. 1' CONTOUR	---	PROPOSED 1' CONTOUR
---	STREET CENTERLINE	---	FLOWLINE
---	RIGHT-OF-WAY	---	SAWCUT
---	BOUNDARY LINE	---	SIDEWALK
---	PROPERTY LINE	---	GRADE BREAK LINE
---	PRODUCT WALL W/ RETAINING WALL	---	DECORATIVE PERIMETER RETAINING WALL
*****	TUBULAR STEEL VIEW FENCE		
*****	TUBULAR STEEL VIEW FENCE W/ RETAINING WALL		
*****	PONY RETAINING WALL		
*****	DECORATIVE PERIMETER WALL		
---	CUT/FILL TRANSITION LINE		
00.00	PAD ELEVATION		
00.00	FIRST FLOOR ELEVATION		
---	ELEVATION		
---	PROPOSED STORM DRAIN W/ MANHOLE		
---	EX. STORM DRAIN W/ MANHOLE		

DISCLAIMER NOTE

1) EXISTING UTILITY LOCATIONS SHOWN HEREON 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 IN THEIR PROPER LOCATION.

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 OR 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.

- GENERAL NOTES**
- FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.11.2.2
 - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
 - ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
 - MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
 - SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
 - ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
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 - NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

FLOOD ZONE

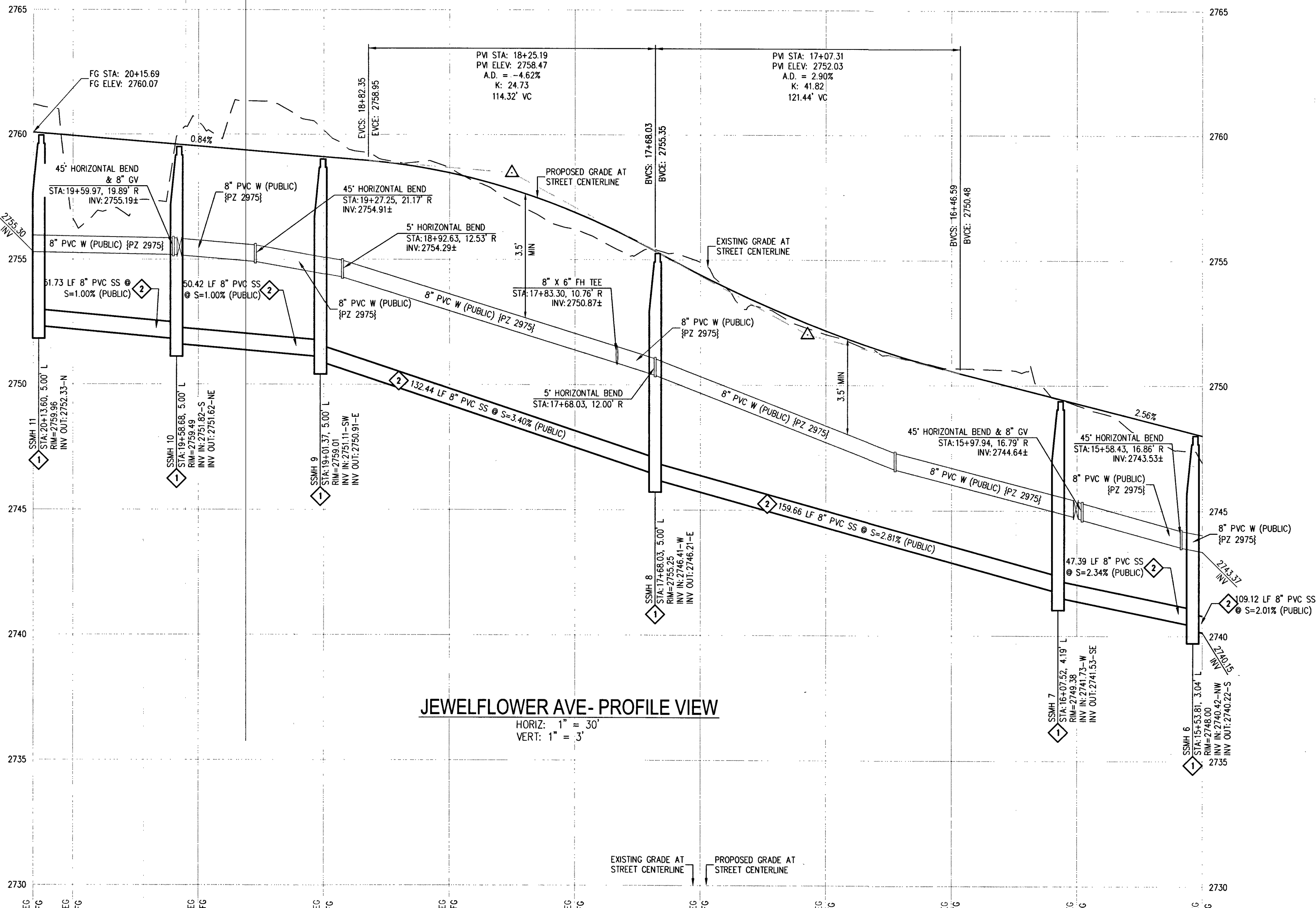
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1745E, DATED SEPTEMBER 27, 2002. A ZONE 'X' (UNSHADED) IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% (500 YEAR) ANNUAL CHANCE FLOOD PLAIN.

APPROVED FOR CONSTRUCTION

Shanne Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135575 FIRST APPROVED DATE: 3-27-19

JEWELFLOWER AVE - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'



FAST

Call before you
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM
OF TRANSPORTATION (F.A.S.T.)

AVOID HITTING OVERHEAD
POWER LINES. IT'S
COSTLY.

CALL BEFORE
YOU DO
OVERHEAD

1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811
OR
1-800-227-2600

618-01948
10745084-2

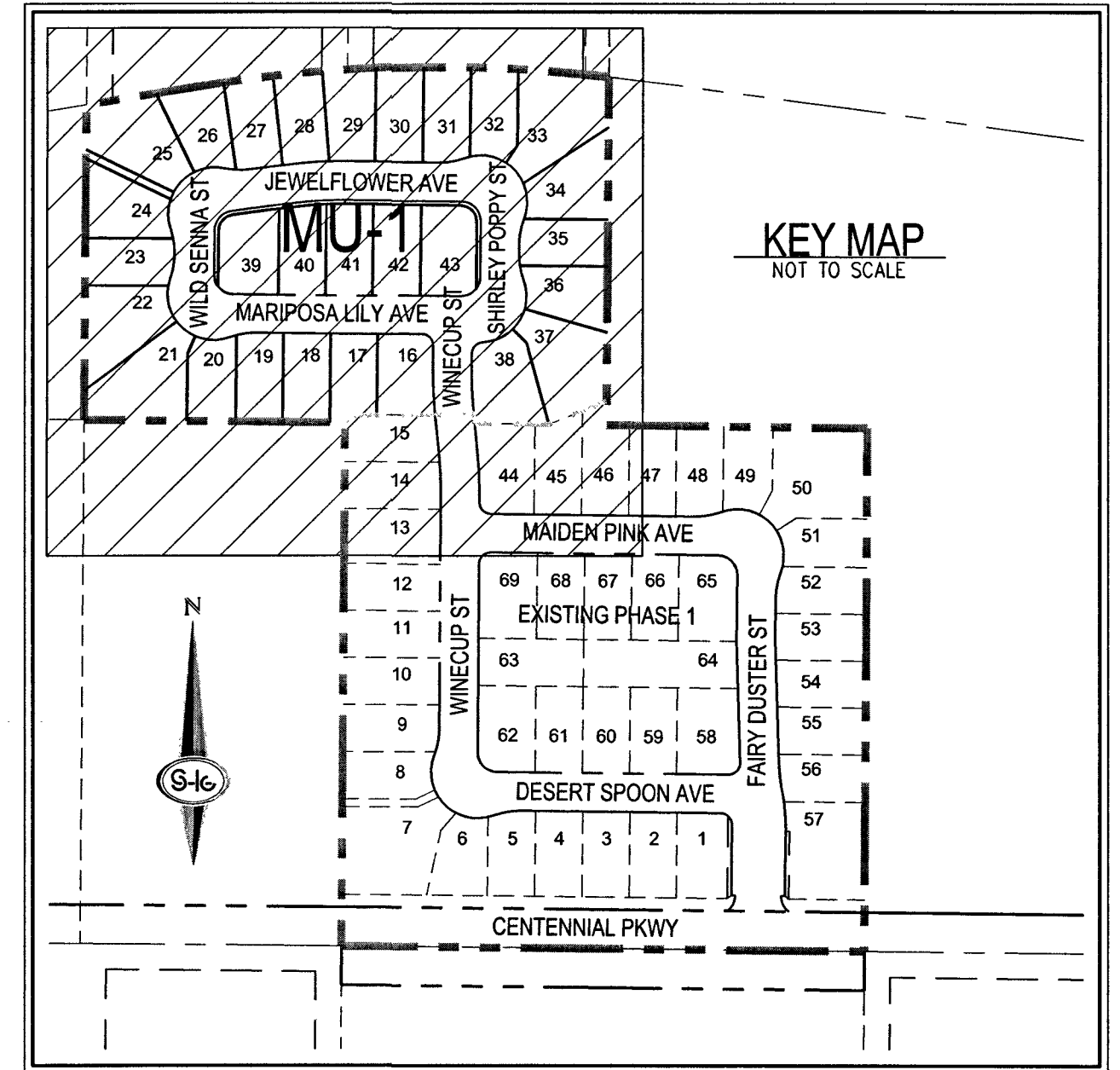
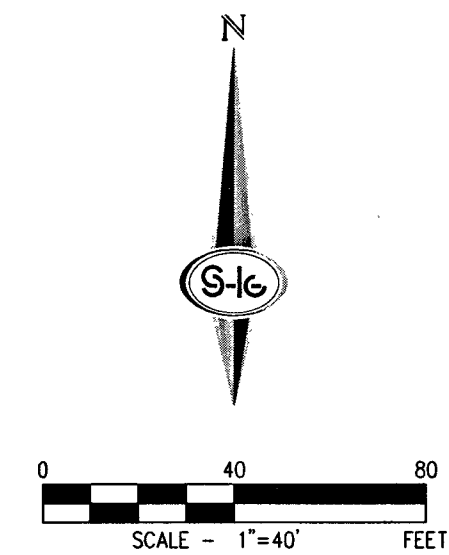
SLATER HANIFAN GROUP
a Westwood Team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5390 FAX (702) 284-5399

RICHMOND AMERICAN HOMES

CENTENNIAL HUALAPAI PHASE 2
PLAN AND PROFILE III - JEWELFLOWER AVE

DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723
SHEET 9 OF 14

PP-3



S-I-G
SLATER
HANIFAN
GROUP
a Westwood team

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

[illegible]

CITY OF LAS VEGAS, NV



RICHMOND
 AMERICAN HOMES

CENTENNIAL HUALAPAI PHASE 2

MASTER UTILITY PLAN

19
19S
160E

DATE:	3/11/19
DRAFTER:	EMH
DESIGNER:	EMH
CHECKED:	KMB
PROJECT NO.	
BAH1733	

MU-1
SHEET 10 OF 14

PROJ#:1355/5A QS:125-19-SW

	BOUNDARY LINE
	PHASE LINE
	ROADWAY CENTERLINE
	RIGHT-OF-WAY
	PRIVATE RIGHT-OF-WAY
	LOT LINE
	PROPOSED CURB AND GUTTER
	FUTURE CURB AND GUTTER
	WATER PIPE FITTING
	WATER GATE VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	SANITARY SEWER FLOW DIRECTION
	WATER POINT OF CONNECTION
	SEWER POINT OF CONNECTION
	100 FOOT STREETLIGHT
	PRESSURE REDUCING VALVE
	BACKWATER VALVE

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

1. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH BC 2012, SECTION 02111.2.2.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
3. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
4. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
5. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CLARK COUNTY BUILDING DEPARTMENT.
6. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
7. ALL WALLS, FENCES, SHRUBS, UTILITY APPURTEANCES OR ANY OTHER OBSTACLES THAT MAY BE IN THE WAY OF THE PROPOSED IMPROVEMENTS AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS IDENTIFIED AS A TRAFFIC CONTROL DEVICE OR A TRAFFIC CONTROL TOP OF CURB OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES OR MORE FROM THE TOP OF THE CURB OR THE TOP OF THE PAVEMENT SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.
8. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR TRAFFIC SIGNAL EQUIPMENT ARE FOUND TO BE DEFECTIVE, THE CONTRACTOR WILL HIRE AN MSW LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.

ALL LOTS IN PHASE 2 ARE SERVED FROM THE PVC WATER MAIN IN THE 2975 WPZ. ALL LOTS IN PHASE 1 ARE SERVED FROM THE DIP WATER MAIN IN THE 2860 WPZ.

THE FOLLOWING LOTS HAVE SERVICES INSTALLED PER UDACS PLATE NO. 3: 21, 33, AND 37. ALL OTHERS ARE INSTALLED PER UDACS PLATE NO. 1.

EXISTING UTILITY LOCATIONS SHOWN HEREON 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 IN THEIR PROPER LOCATION.

CITY OF LAS VEGAS BENCHMARK NUMBER: 8LV9019C4

RIVET AND PLATE IN CONCRETE PAD (ELEC) +/- 200 FEET NORTHWEST OF DEER SPRINGS AND GRAND CANYON.

ELEVATION: 832.779 METERS (2732.21 FEET) N.A.V.D 88 DATUM

PER THE CITY OF LAS VEGAS BENCHMARK WEBSITE ON JULY 27, 2017.

THE BASIS OF BEARINGS IS NORTH 00°40'52" EAST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 89 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA

FIRE FLOW <u>1,750</u> GPM AT 20 P.S.I. RESIDUAL	
USE/OCCUPANCY	SINGLE FAMILY
TYPE OF CONSTRUCTION (IBC)	TYPE V-B
SQUARE FOOTAGE	<4800
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A
BUILDING HEIGHT	C<35
NO OF STORES INCLUDING BASEMENT	1
FIRE SPRINKLER	NO
NO OF HYDRANTS INSTALLED	2

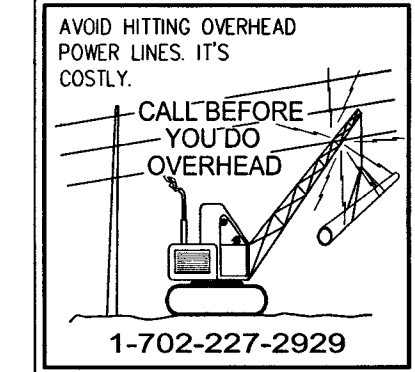
ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS
 28 UNITS X 250 GPD/UNIT = 7,000 GPD = 0.0070 MGD
 TOTAL PEAK FLOW = 0.0070 X 4.208 (PEAK FACTOR) = 0.0295 MGD
 TOTAL PEAK WET-WEATHER FLOW = 0.0295 MGD X 1.25 = 0.0369 MGD

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT No. 135575 FIRST APPROVED DATE 3-27-19
 LVVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL
 MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

BY: Kd 3-19-19
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 1750 GPM AT 20 P.S.I.
RESIDUAL.

Mary 4.8.19
SOUTHWEST GAS CORPORATION DATE

1.	1" NEW SERVICE W/ 3/4" DUAL ANGLE METER PER UDACS PLATE NO. 1	25
2.	1" NEW SERVICE W/ 3/4" DUAL ANGLE METER PER UDACS PLATE NO. 3	3
3.	3/4" IRRIGATION METER	1

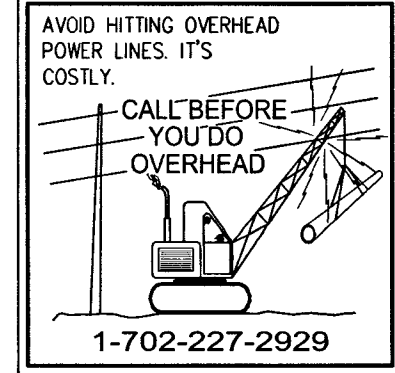
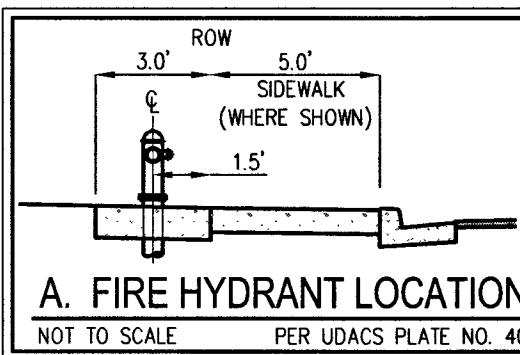
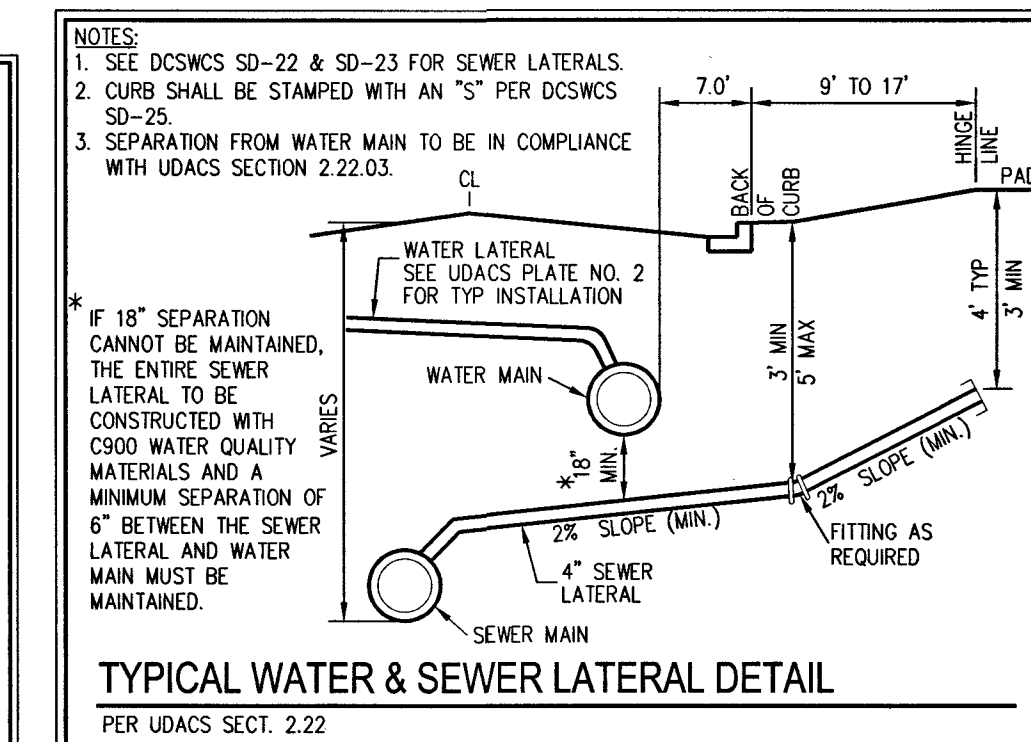
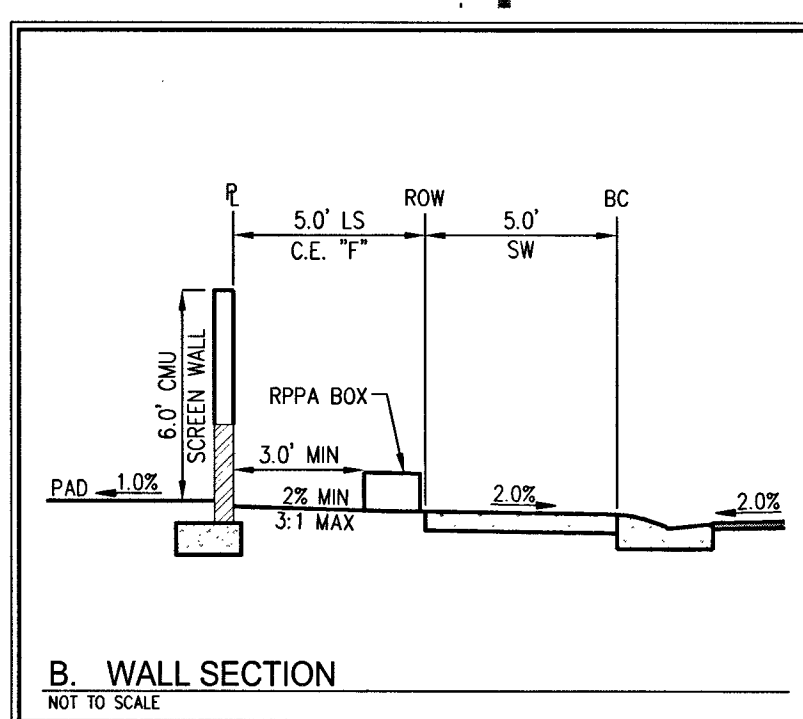


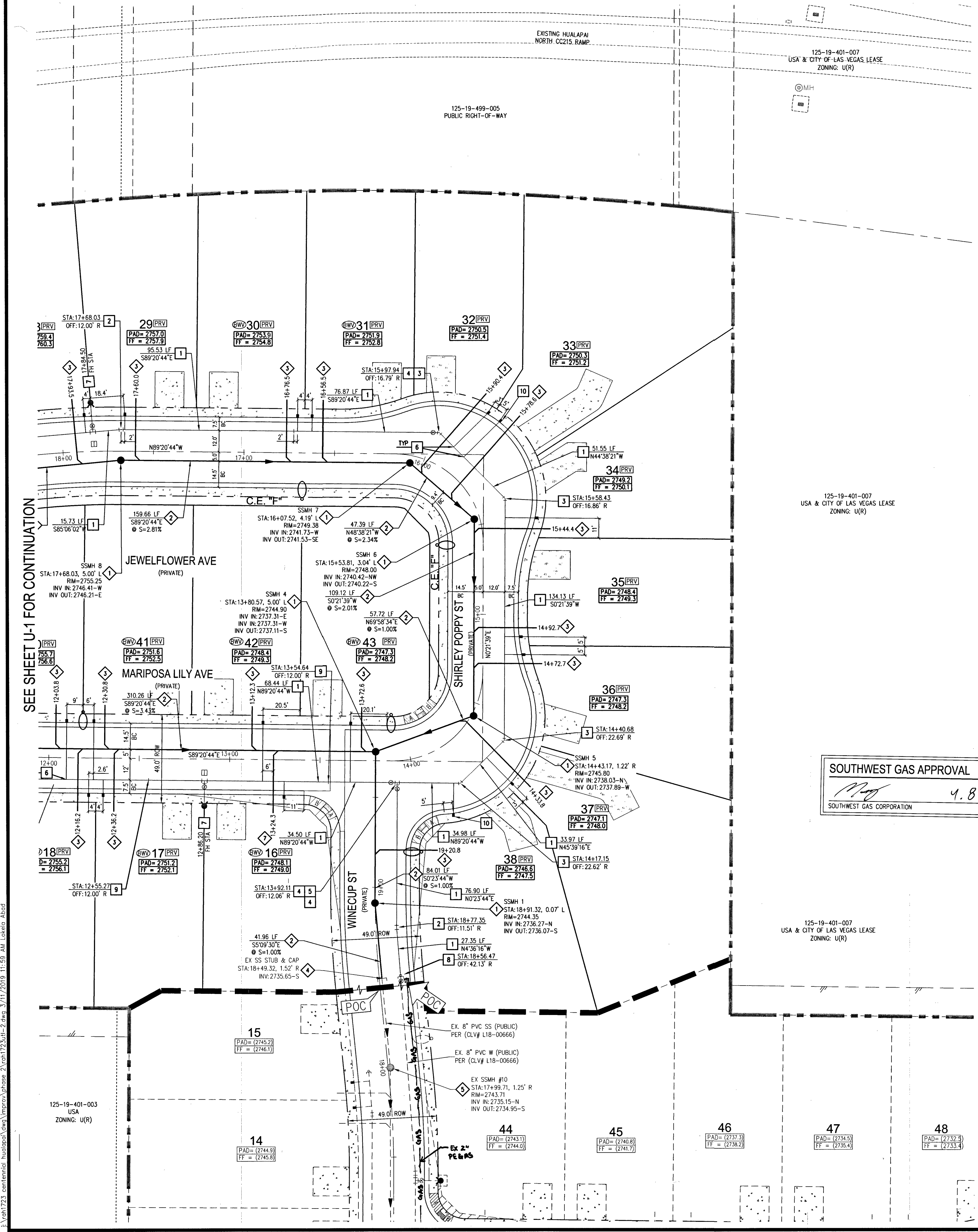
Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call

OR
1-800-227-2600

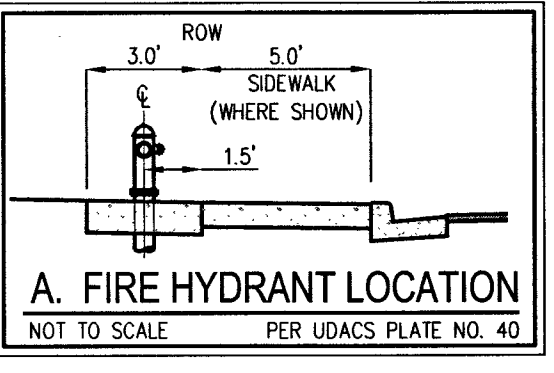
L18-01948
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SEE SHEET U-1 FOR CONTINUATION

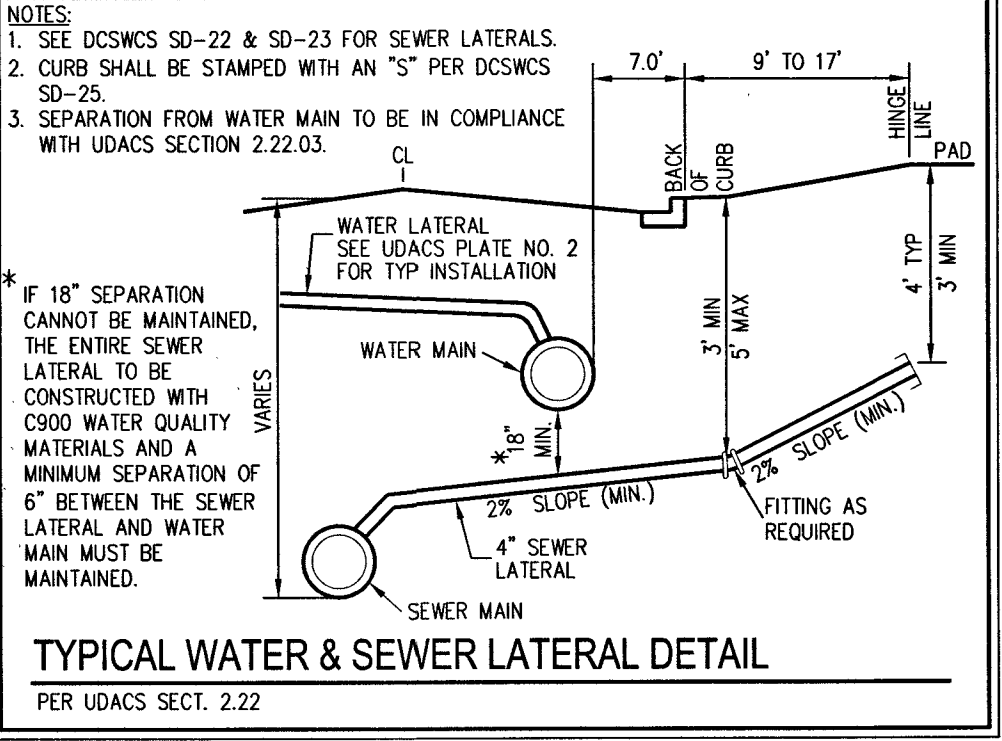
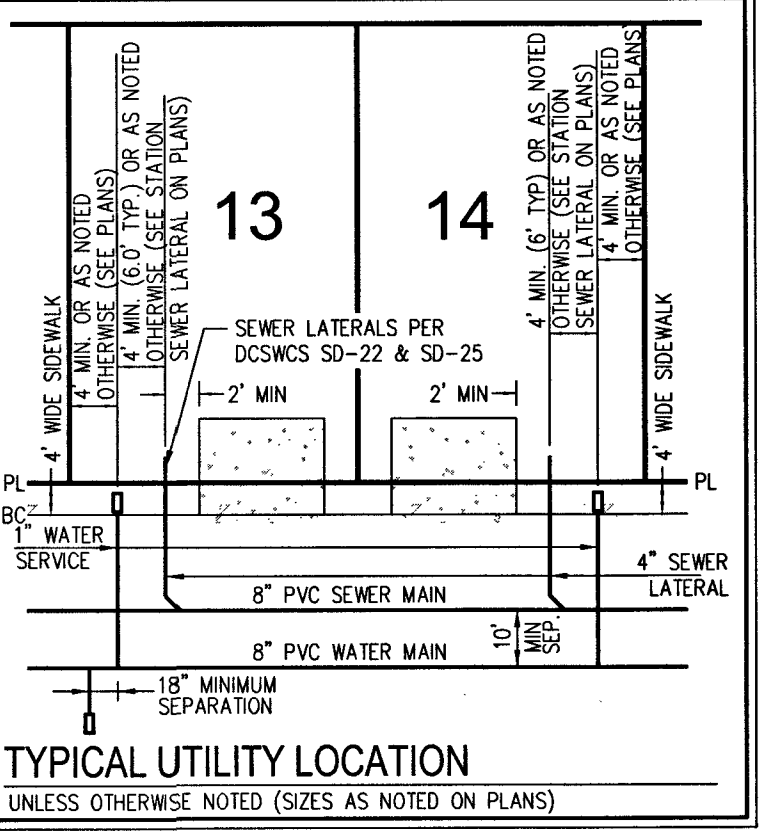
PRESSURE-REDUCING VALVE NOTE
LOTS: 16-43
THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON-SITE (PRIVATE) PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.



WATER PRESSURE ZONE NOTE
ALL LOTS IN PHASE 2 ARE SERVED FROM THE PVC WATER MAIN IN THE 20/25 W/2. ALL LOTS IN PHASE 1 ARE SERVED FROM THE DIP WATER MAIN IN THE 20/25 W/2.

BASIS OF BEARINGS
THE BASIS OF BEARINGS IS NORTH 00°40'52" EAST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19 SOUTH, RANGE 60 EAST, T.19S. R.60E, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 89 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

SOUTHWEST GAS APPROVAL
DATE: 4.8.19
SOUTHWEST GAS CORPORATION



- WATER NOTES**
1. INSTALL 8" PVC WATER PIPE (2860 MP2)
 2. INSTALL HORIZONTAL 5' BEND PER UDACS PLATE NO. 31
 3. INSTALL HORIZONTAL 45' BEND PER UDACS PLATE NO. 31
 4. INSTALL 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
 5. INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
 6. INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1
 7. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATE NO. 40
 8. FIELD VERIFY LOCATION, REMOVE CAP & BLOWOFF AND CONNECT TO EXISTING WATER
 9. INSTALL 5" VERTICAL BEND PER UDACS PLATE NO. 31
 10. INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 3
 11. INSTALL 1" COPPER SERVICE W/ 3/4" IRRIGATION METER AND 1" BPPM PER UDACS PLATE NO. 4 & 8. SEE "DETAIL A" ON SHEET U-1

- SEWER CONSTRUCTION NOTES**
1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 WITH 24" SINGLE LID
 2. INSTALL 8" SANITARY SEWER PIPE (PUBLIC) PER DCSWCS SD-15 AND SD-17
 3. INSTALL 4" PVC SEWER LATERAL PER DCSWCS SD-22 AND SD-25
 4. FIELD VERIFY LOCATION, REMOVE CAP AND CONNECT TO EXISTING SEWER
 5. PROTECT SEWER APPURTENANCES IN PLACE. REF. PLANS FOR DETAILS
 6. INSTALL MANHOLE WITH INTERIOR CORROSION PROTECTION PER DCSWCS 4.9.9(b). WATER TIGHT JOINTS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS STANDARDS. MANHOLE SHALL BE ENCASED PER UDACS 2.22.01.B.2.c (2)
 7. INSTALL 4" C900 SEWER LATERAL PER DCSWCS SD-22 AND SD-25

FIRE FLOW CALCULATIONS
FIRE FLOW 1,250 GPM AT 20 P.S.I. RESIDUAL

USE/OCCUPANCY	SINGLE FAMILY
TYPE OF CONSTRUCTION (IBC)	TYPE V-B
SQUARE FOOTAGE	24800
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A
BUILDING HEIGHT	<25
NO OF STORES INCLUDING BASEMENT	1
FIRE SPRINKLER	NO
NO OF HYDRANTS INSTALLED	2

ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS
28 UNITS X 250 GPD/UNIT = 7,000 GPD ± 0.0070 MGD
TOTAL PEAK FLOW = 0.0070 X 4.208 (PEAK FACTOR) = 0.0295 MGD
TOTAL PEAK WET-WEATHER FLOW = 0.0295 MGD X 1.25 = 0.0369 MGD

BENCHMARK
CITY OF LAS VEGAS BENCHMARK NUMBER: 8LV901904
PILLET AND IN CONCRETE PAD (ELEC) ±/- 200 FEET NORTHWEST OF DEER SPRINGS AND GRAND CANYON.
ELEVATION: 832.779 METERS (2732.21 FEET) N.A.V.D. 88 DATUM
PER THE CITY OF LAS VEGAS BENCHMARK WEBSITE ON JULY 27, 2017.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135575 FIRST APPROVED DATE 3/11/2019
LVWD APPROVED FIRE FLOW 1,250 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

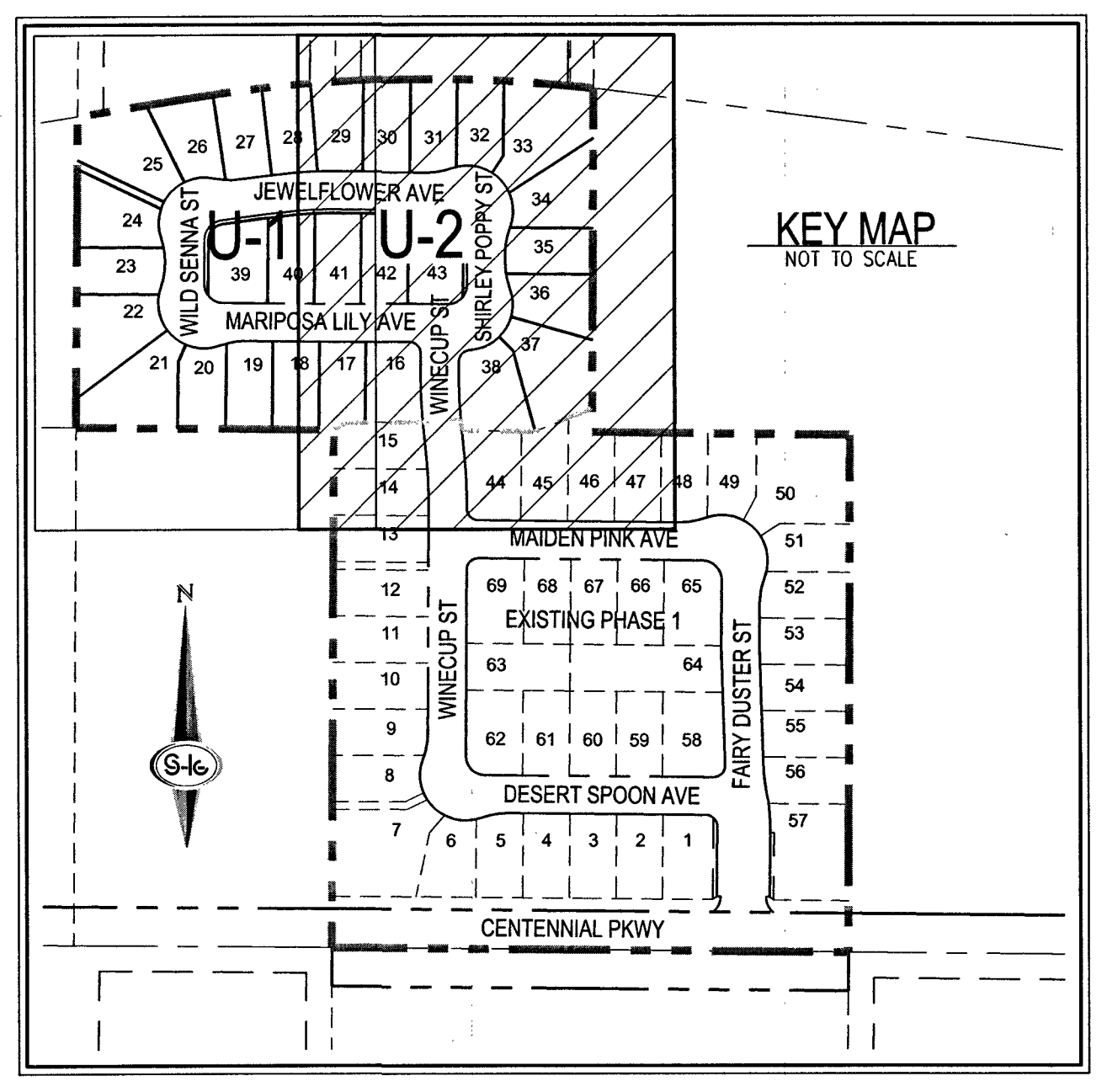


- WATER NOTES**
1. WATER MAIN JOINT DEFLECTION (PVC 4" - 24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
 2. REDUCED PRESSURE PRINCIPLE ASSEMBLY NOTE
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
 3. 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.
 4. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
 5. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15.
 6. THE LVWD CANNOT GUARANTEE A WATER TIGHT 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.
 7. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
 8. DISCLAIMER: EXISTING UTILITY LOCATIONS SHOWN HEREON 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 IN THEIR PROPER LOCATION.

- GENERAL NOTES**
1. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.11.2.2.
 2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
 3. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
 4. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
 5. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CLARK COUNTY BUILDING DEPARTMENT.
 6. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
 7. 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.
 8. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.

LAS VEGAS FIRE AND RESCUE FIRE DEPARTMENT APPROVED
DATE: 3-19-19
BY: [Signature]
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 1,250 GPM AT 20 P.S.I. RESIDUAL.

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



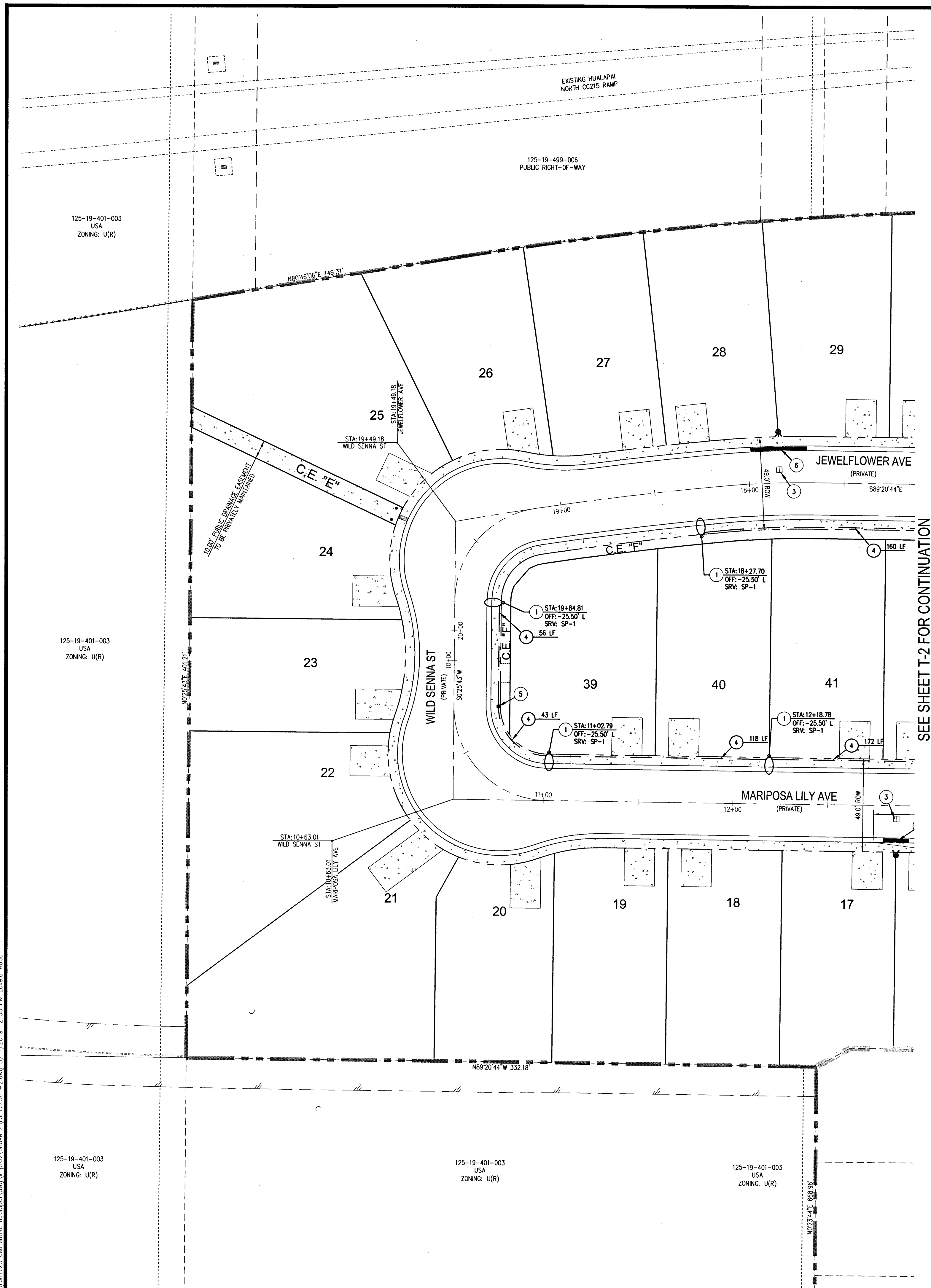
SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

RICHMOND AMERICAN HOMES
CENTENNIAL HUALAPAI PHASE 2
UTILITY PLAN II

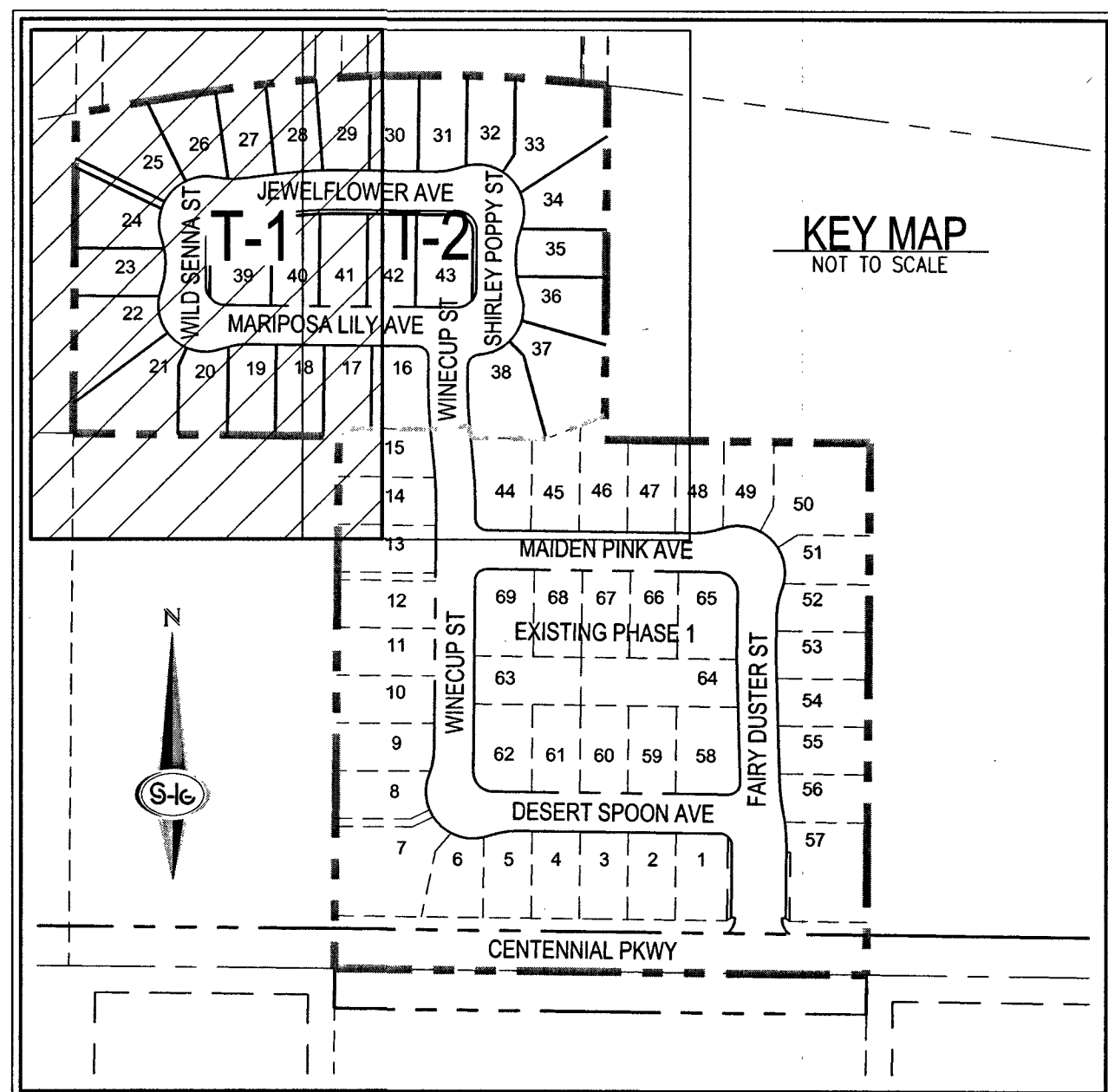
DATE: 3/11/19
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. RAH1723

3/11/19
U-2
SHEET 12 OF 14

PROJ#: 135575A QS: 125-19-SW



RAMP TRANSITION LENGTHS			
RAMP NO.	GRADE % "B" TO "A"	"A" (FT) MIN.	"B" (FT) MIN.
1	-6 TO -5.01	4.5'	21.5'
2	-5 TO -4.01	4.5'	15.0'
3	-4 TO -3.01	4.5'	12.0'
4	-3 TO -2.01	4.5'	9.5'
5	-2 TO 2	8.0'	8.0'
6	2.01 TO 3	9.5'	4.5'
7	3.01 TO 4	12.0'	4.5'
8	4.01 TO 5	15.0'	4.5'
9	5.01 TO 6	21.5'	4.5'



SIGN LEGEND

	STREET NAME SIGN (PER PRIVATE STREET STDS)
	STOP SIGN W/POST (R1-1)
	PROPOSED 100W STREETLIGHT
	R9-9 "SIDEWALK CLOSED" SIGN. (30" x 18")
	TYPE III BARRICADES WITH R11-2 "ROAD CLOSED" SIGN PROTRUDING ABOVE BARRICADE. (48" x 30")
	
	1 1/4" STREETLIGHT CONDUIT
	STREETLIGHT PULL BOX
	TRAFFIC SIGN (AS INDICATED)
	REFLECTIVE RAISED PAVEMENT MARKERS
	SIGHT VISIBILITY ZONE
	EXISTING STRIPING

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

BASIS OF BEARINGS

THE BASIS OF BEARINGS IS NORTH 00°40'52" EAST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 89 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NUMBER: 8LV9019C4

RIVET AND PLATE IN CONCRETE PAD (ELEC) +/- 200 FEET
NORTHWEST OF DEER SPRINGS AND GRAND CANYON.

ELEVATION: 832.779 METERS (2732.21 FEET) N.A.V.D 88 DATUM

PER THE CITY OF LAS VEGAS BENCHMARK WEBSITE ON JULY
27, 2017.

LAS VEGAS FIRE AND RESCUE FIRE DEPARTMENT

APPROVED

BY:  3-19-19

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 1,750 GPM AT 20 P.S.I. RESIDUAL.

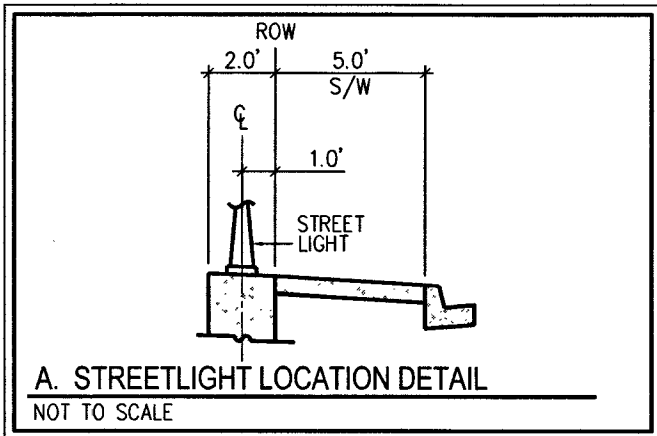
Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR
1-800-227-2600

618-01948
10745084

STREETLIGHT CIRCUIT CAPACITY FOR CIRCUIT "SP1"			
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 455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATION.
		NO	INSTALL A NEW PEDESTAL.
SERVICE PEDESTAL LOCATION: FAIRY DUSTER STREET STA: 11+55.80			
CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)			
DATE OF SERVICE VERIFICATION		8/29/18	
PERSON WHO DID THE VERIFICATION			
ENGINEER OF THE OFFSITE PLANS			
PERSON WHO DID THE CALCULATIONS		EMH	
CONSULTING ENGINEERING FIRM		SLATER HANIFAN GROUP	
CAPACITY CALCULATIONS			
1	CIRCUIT CAPACITY	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	12	AMPS
4	AVAILABLE (2 MINUS 3)	36	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:			
5	8 NUMBER OF 100 WATT SILTS @ 1.0 AMPS/EA	8	AMPS
6	0 NUMBER OF 250 WATT SILTS @ 1.5 AMPS/EA	-	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5 PLUS 6)	8	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 7)	28	AMPS

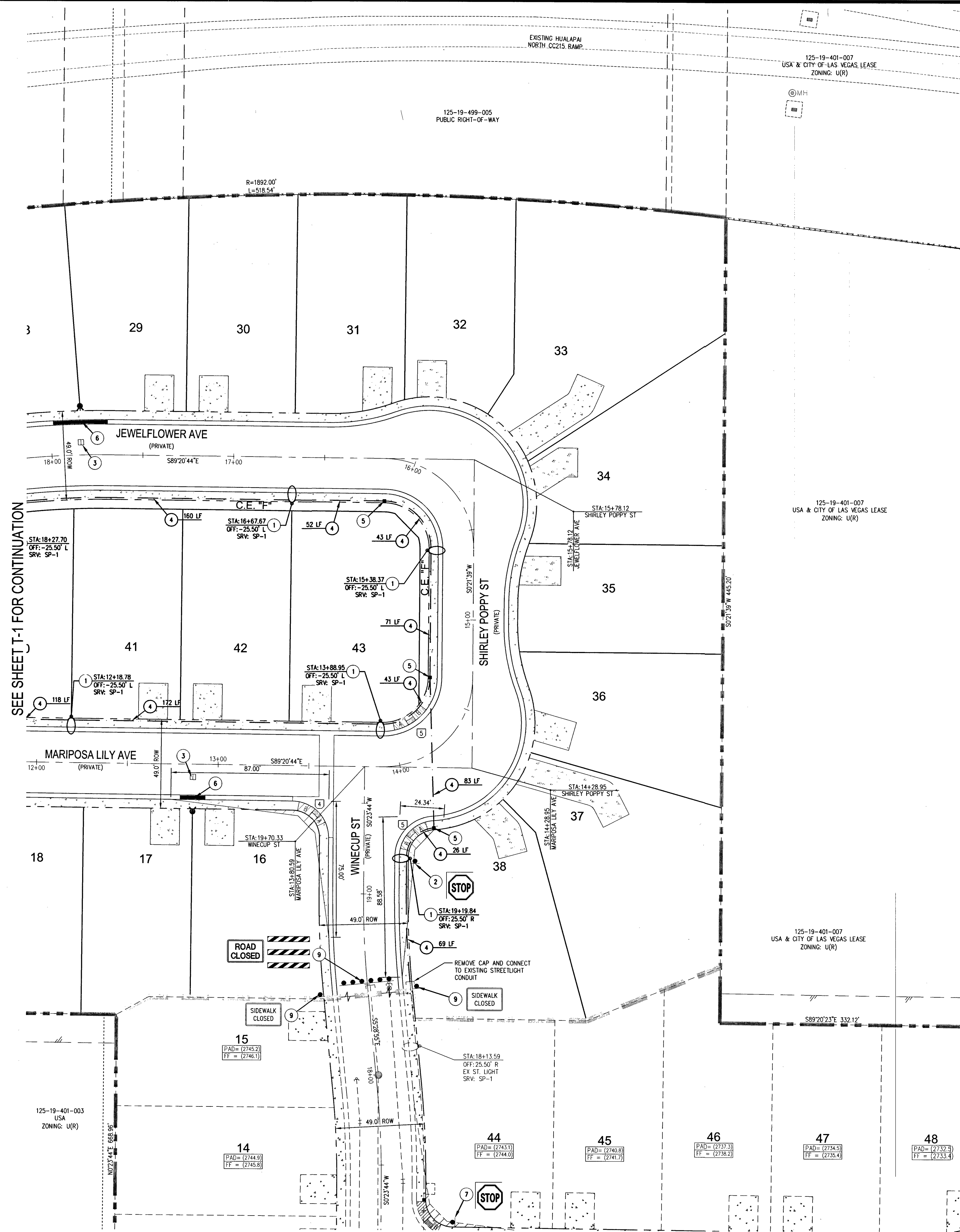


FAST

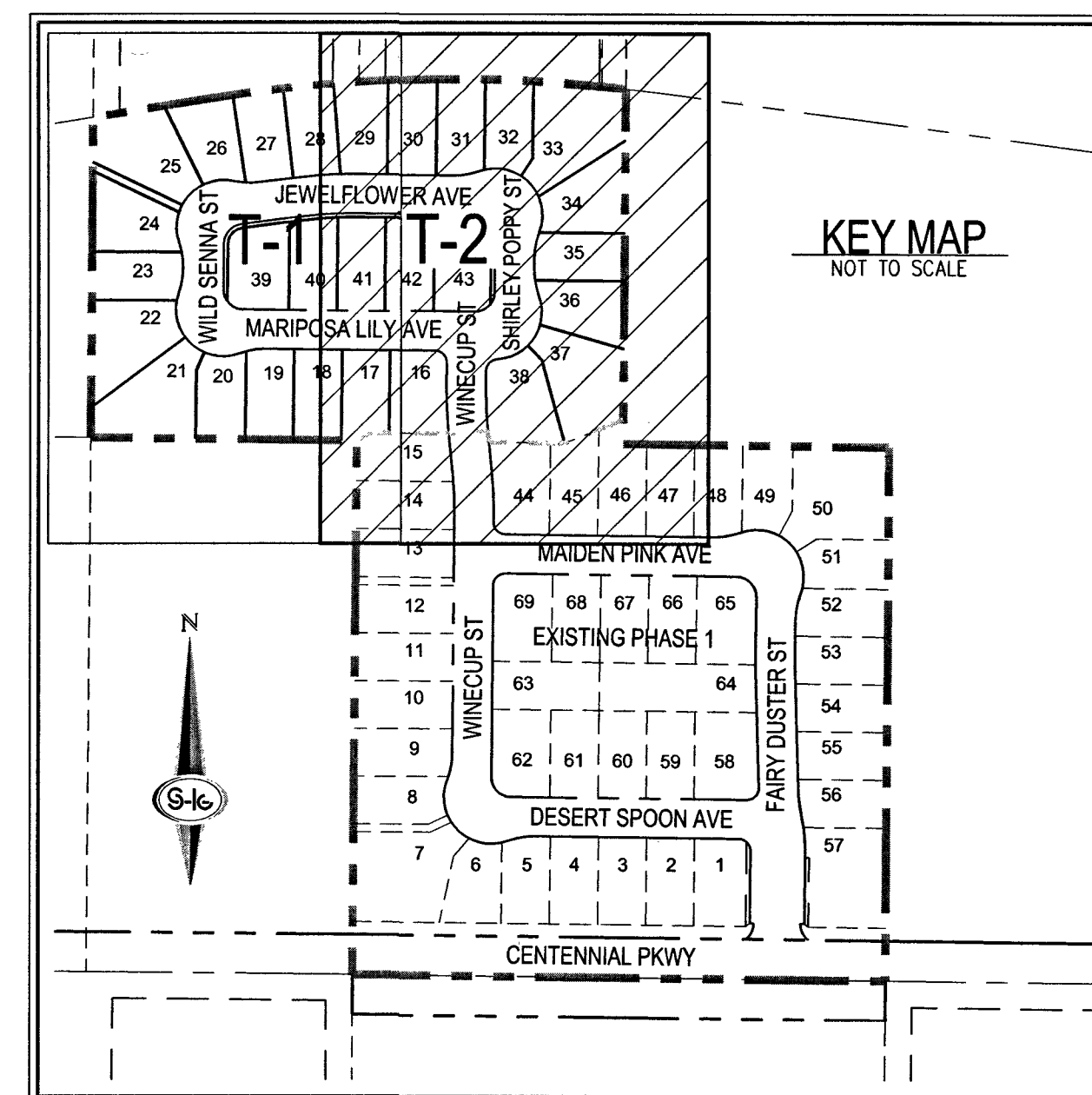
Call before you
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM
OF TRANSPORTATION (F.A.S.T.)

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.
Call

OR
1-800-227-2600



RAMP TRANSITION LENGTHS			
RAMP NO.	GRADE % "B" TO "A"	*A' (FT) MIN.	*B' (FT) MIN.
1	-6 TO -5.01	4.5'	21.5'
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7	3.01 TO 4	12.0'	4.5'
8	4.01 TO 5	15.0'	4.5'
9	5.01 TO 6	21.5'	4.5'



TRAFFIC NOTES

- 1) INSTALL LED STREET LIGHT "OPL" FOR 1" S/W R/W PER CAUSD# 3503/53 AND #314 W/ FOUNDATION PER CAUSD# 3520 & #321
- 2) INSTALL 30" STOP SIGN (R1-1) AND TWO (2) 9" STREET LIGHT SIGNS (PRIVATELY MAINTAINED)
- 3) INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER
- 4) INSTALL 1"-1/4" STREET LIGHT CONDUIT W/ (2) #4 AND (1) #6 GND. AVOIDING FIRE HYDRANTS WHERE APPLICABLE
- 5) INSTALL NO. 3-1/2" PULL BOX PER CAUSD NO. 326
- 6) PAINT CURB RED (15' EACH SIDE OF FIRE HYDRANT FOR A TOTAL OF 30'; CURB LENGTH PERMITTING)
- 7) EXISTING SIGN TO REMAIN
- 8) INSTALL TWO (2) 8" STREET NAME SIGNS PRIVATELY MAINTAINED
- 9) EXISTING SIGN TO BE REMOVED. SEE PLAN FOR SIGN TYPE.

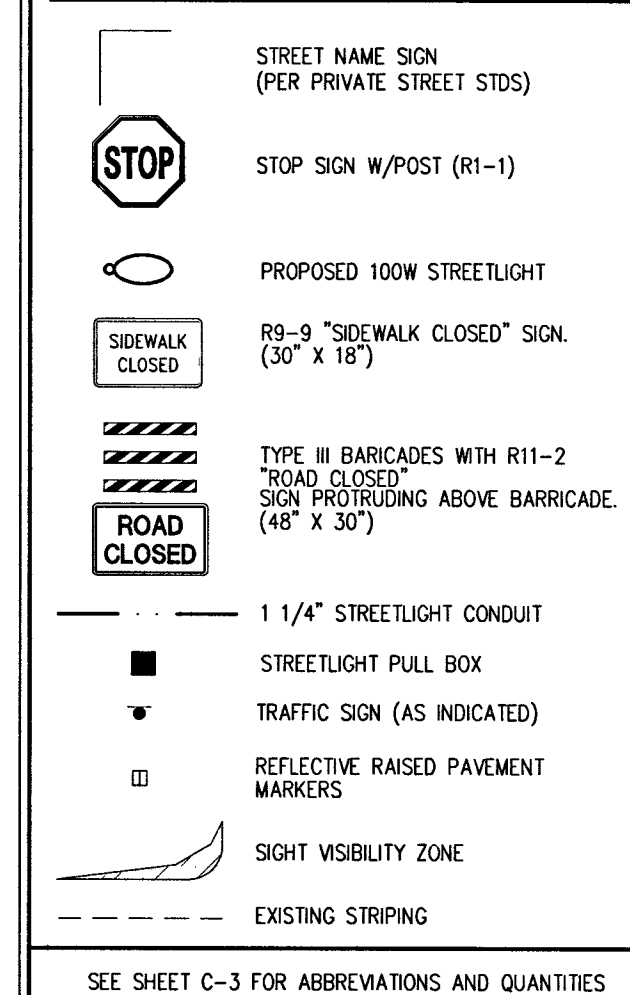
TRAFFIC GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAYMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MISSING BY FINCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN APPROVED CONTRACTOR TO REPAIR THE DAMAGE. MAKE REPAIRS PER UTMF SPECIFICATION NO. 623.G.012
3. ALL SEWER / STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.2.2 OF THE UTMF DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVE: WHERE REQUIRED PER THE LATEST EDITION OF THE UTMF PLUMBING CODE.
5. FITTINGS SHALL NOT FAIL UNDER CURBS, CUTTERS OR SIDEWALKS.

ELECTRICAL SERVICE NOTES

- SP1: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V P.D.
MOUNTED SERVICE PESTEDIAL FEEDER FROM N.P.C. POINT OF
CONNECTION TO BE 2'5", 244/0 THW, 144/0 WHITE THW
CONDUCTORS. ALL CONDUCTORS SHALL BE INSTALLED IN SPACES
GREATER THAN 25" FOR SPECIFIED CONDUCTORS MUST BE
APPROVED BY ENGINEER. SERVICE PESTEDIAL SHALL BE
LOCATED WITHIN 10' OF TRANSFORMER. THE TRANSFORMER
THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE
PEDESTAL:
(1) 60 AMP, 240V, 2-POLR CIRCUIT BREAKERS.
(2) 60 AMP, 240V, 2-POLR LIGHTING CIRCUIT BREAKERS.
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR),
PHOTOELECTRIC CONTROLS.
(1) 15 AMP, 120V, SINGLE POLR CIRCUIT BREAKER FOR
LIGHTING CONTROLS.
(2) 15 AMP, 120V, SINGLE POLR CIRCUIT BREAKER TO PROVIDE (2) 1-1/
CONDUITS FROM SERVICE PESTEDIAL TO FIRST
STREET LIGHTING PULLBOX. SERVICE PESTEDIAL SHALL
CONFORM TO ALL CLARK COUNTY SPECIFICATIONS AND UNIFORM STANDARD
DRAWINGS 330, 331, 332.1 AND 335.1.

SIGN LEGEND



BASIS OF BEARINGS

THE BASIS OF BEARINGS IS NORTH 00°40'52" EAST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 89 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA

BENCHMARK

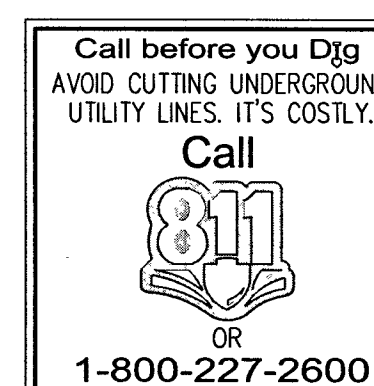
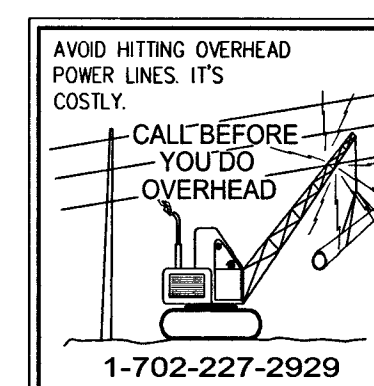
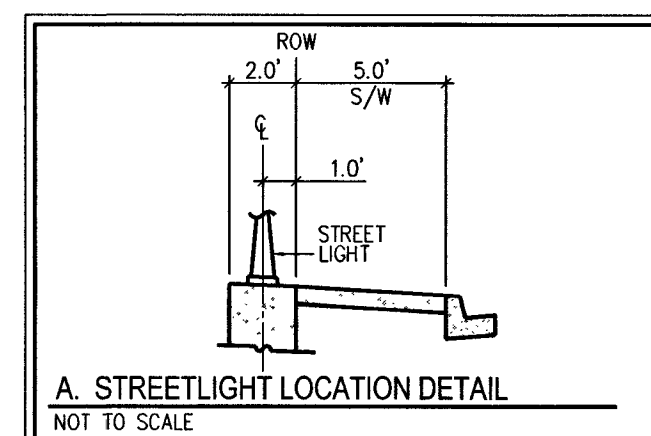
CITY OF LAS VEGAS BENCHMARK NUMBER: 8LV9019C4
RIVET AND PLATE IN CONCRETE PAD (ELEC) +/- 200 FEET
NORTHWEST OF DEER SPRINGS AND GRAND CANYON.
ELEVATION: 832.779 METERS (2732.21 FEET) N.A.V.D 88 DAT
PER THE CITY OF LAS VEGAS BENCHMARK WEBSITE ON JULY
27, 2017.

LAS VEGAS FIRE AND RESCUE FIRE DEPARTMENT

APPROVED

BY: Mr. Ka 3-19-1

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1,750 GPM AT 20 P.S.I. RESIDUAL.



L 18-01948
107Y5084-2