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 CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD 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 THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300'IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY WRIGHT ENGINEERS, REPORT #161102, 07/11/2016 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. 625.360 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BE A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ±0.09 METERS (±0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

   OR

   ~~SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.~~
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.

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT #124637 (REVISED 01/09/2017)

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 DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3602, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES. LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

    ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE USED.

CLARK COUNTY TRAFFIC NOTES

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

FIRE DEPARTMENT NOTES

UNIFORM GUIDELINES – INSTALLATION AND SPECIFICATION OF FIRE HYDRANTS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE 2007 EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.
2. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 1412 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.
3. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE DEPARTMENT PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.
4. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION DIVISION.
5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTION AT ALL TIMES.
6. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 33,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.

   EXCEPTION: TEMPORARY ACCESS ROADS SERVING ONLY BUILDINGS UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE CODE.
7. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION. SCHEDULE INSPECTION AT WWW.CLARKCOUNTYNV.GOV/DEVELOPMENT_SERVICES/FIRE_PREVENTION.
8. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.
9. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED (SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED)
10. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE DEPARTMENT.

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. SOILS REPORT PREPARED BY WRIGHT ENGINEERS, PROJECT NO. 161102, DATED 07/11/2016.
6. EARTHWORK QUANTITIES (RAW):
   - CUT = 4,797 CUBIC YARDS.
   - FILL = 5,130 CUBIC YARDS.
   - NET = 333 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.

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600).
3. CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.
4. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITIES REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
6. FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET R/W SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.
7. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, WALL SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 609 OF THE "STANDARD SPECIFICATIONS".
10. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:
    NV ENERGY PHONE – (702) 402-8400
    CENTURYLINK TELEPHONE COMPANY PHONE – (702) 244-7055
    SOUTHWEST GAS CORPORATION PHONE – (702) 651-2111
    LAS VEGAS VALLEY WATER DISTRICT PHONE – (702) 870-2011
11. PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL STREET INTERSECTIONS PER CLARK COUNTY STANDARD DRAWING 235 EXACT LOCATION OF RAMP TO BE DETERMINED IN FIELD BY A CLARK COUNTY INSPECTOR.
13. STANDARD STREET SECTIONS PER CLARK COUNTY STANDARD DRAWINGS UNLESS OTHERWISE NOTED.
14. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
15. VALLEY GUTTER WITH A GRADE OF FOUR TENTHS OF ONE PERCENT OR LESS SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE PROPER DRAINAGE ACROSS ALL VALLEY GUTTERS.
16. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL, 1986 PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT DRAWINGS.
17. ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS PREPARED BY WRIGHT ENGINEERS WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.
18. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE OR ACRE
AGG	AGGREGATE BASE
APN	ASSESSORS PARCEL NUMBER
APPROX OR ~	APPROXIMATE
AVE	AVENUE
@	AT
BC	BEGIN CURVE OR BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BHW	BOTTOM OF HEADWALL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BVC	BEGIN VERTICAL CURVE
BWV	BACK WATER VALVE
CC	CLARK COUNTY
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
CCPW	CLARK COUNTY PUBLIC WORKS
CCRFCD	CLARK COUNTY REGIONAL FLOOD DISTRICT
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CE	COMMON ELEMENT
CL/C/L,C	CENTERLINE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CML&C	CEMENT MORTAR LINED AND COATED
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CT	COURT
CY OR CU YD	CUBIC YARD
DCWCS	DESIGN AND CONSTRUCTION FOR WASTEWATER COLLECTION SYSTEMS
DET	DETAIL
DI	DUCTILE IRON OR DRAIN INLET
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG(S)	DRAWING
DWY	DRIVEWAY
EA	EACH
ECR	END CURB RETURN
EG	EXISTING GROUND
EL	ELEVATION
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
ERU	EQUIVALENT RESIDENTIAL UNIT
EVC	END VERTICAL CURVE
EX OR EXIST	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGH	FINISHED GRADE, HIGH SIDE
FGL	FINISHED GRADE, LOW SIDE
FH	FIRE HYDRANT
FL	FLOWLINE

FT	FEET OR FOOT
FUT	FUTURE
GRD	GRADE OR GROUND
GB	GRADE BREAK OR GRADE CHANGE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HOA	HOME OWNERS ASSOCIATION
HORZ	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
HDWL OR HW	HEADWALL
HYD	HYDRAULIC OR HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INT	INTERSECTION
INV	INVERT ELEVATION
IP	IRON PIPE
IRRG	IRRIGATION
LF	LINEAR FEET
LP	LOW POINT
LT OR L	LEFT
LVWID	LAS VEGAS VALLEY WATER DISTRICT
LWL	LOW WATER LEVEL
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MUE	MUNICIPAL UTILITY EASEMENT
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NPC	NEVADA POWER COMPANY
NTS	NOT TO SCALE
NUE	NONEXCLUSIVE UTILITY EASEMENT
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OVERALL DIMENSION
OFF	OFFSET
ORIG	ORIGINAL
PAE	PUBLIC OR PEDESTRIAN ACCESS EASEMENT
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PDE	PUBLIC DRAINAGE EASEMENT
℄ OR PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CURVATURE
POE	POINT OF ENDING
PRC	POINT OF REVERSE CURVATURE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PUE	PUBLIC UTILITY EASEMENT
PT	POINT OF TANGENT OR POINT
PVC	POLYVINYL CHLORIDE

PVI	POINT OF VERTICAL INTERSECTION
QTY	QUANTITY
R	RADIUS
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
ROWY ESMT	ROADWAY EASEMENT
REQD	REQUIRED
REV	REVISION
RG	ROUGH GRADE
RT OR R	RIGHT
R/W, ROW	RIGHT OF WAY
S	SLOPE
SCH	SCHEDULE
SD	STORM DRAIN
SDDI	STORM DRAIN DROP INLET
SDMH	STORM DRAIN MANHOLE
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SPECS	SPECIFICATIONS
ST	STREET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL OR STREET LIGHT
SW	SIDEWALK
SWG	SOUTHWEST GAS
SWR OR SS	SANITARY SEWER
SY	SQUARE YARD
TAN	TANGENT
TC	TOP OF CURB
TF	TOP OF FLOOR OR TOP OF FOOTING
TG	TOP OF GRATE
THRU	THROUGH
THW	TOP OF HEADWALL
TP	TOP OF PIPE
TW	TOP OF WALL
TRW	TOP OF RETAINING WALL
TSW	TOP OF SCREEN WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VC	VERTICAL CURVE
VERT	VERTICAL
VG	VALLEY GUTTER
W	WROUGHT IRON
WL	WATER LINE
WPZ	WATER PRESSURE ZONE
WT	WEIGHT
WTR	WATER LINE

SPECIAL NOTE

IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED WHICH 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 CLARK COUNTY DEPT. OF PUBLIC WORKS. TEMPORARY CONSTRUCTION ITEMS INCLUDE: PAVEMENT TRANSITIONS, PROTECTIVE DITCHES AND BERMS, ROAD SIGNS AND BARRICADES, ETC.

NOTICE TO CONTRACTOR

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

-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

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(1900)	1900	5' CONTOUR
		1' CONTOUR
		STRIPING
		SEWER MANHOLE
		CURB AND GUTTER
EX 8" PVC SS	8" PVC SS	SANITARY SEWER PIPE AND FLOW ARROW
EX 8" PVC WTR	8" PVC WTR	WATER PIPE
		WATER GATE VALVE
		FIRE HYDRANT
		WATER BLOW-OFF
		WATER LATERAL W/ METER
		SANITARY SEWER LATERAL
		STREETLIGHT
		EDGE OF PAVEMENT
		TRAFFIC SIGN
PAD= XXX.X FF = XXX.X	PAD= XXX.X FF = XXX.X	PAD ELEVATION FINISHED FLOOR ELEVATION
(00.00) TC	00.00 TC	ELEVATION
		RETAINING WALL
		STORM DRAIN W/ MANHOLE

	EXISTING GAS GATE VALVE
UGH	EXISTING UNKNOWN MANHOLE
GAS	EXISTING GAS, SIZE PER PLAN
	EXISTING POWER POLE
	EXISTING TRAFFIC SIGNAL
	EXISTING WALL
	WATER PIPE FITTING
POC	WATER POINT OF CONNECTION
POC	SEWER POINT OF CONNECTION
	DAYLIGHT LINE
	STREET CENTERLINE
	RIGHT-OF-WAY
	MATCHLINE
	BOUNDARY LINE
	PHASE LINE
	PROPERTY LINE
	FLOWLINE
	SAWCUT
	CUT/FILL TRANSITION LINE
	SIDEWALK
	EX STRIPING TO BE OBLITERATED
	GRADE BREAK LINE
	REFLECTIVE RAISED PAVEMENT MARKERS
BWV	BACK WATER VALVE
	WROUGHT IRON FENCE
	PONY WALL
	DECORATIVE PERIMETER WALL
	DECORATIVE PERIMETER RETAINING WALL
	PROPOSED CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
	EXISTING CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
	FUTURE CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB

	PROPOSED SCARP AREA
	DRIVEWAY
	PROPOSED RIP RAP
	SIGHT VISIBILITY ZONE PER STD DWG NO. 201.2
	HANDICAP RAMP

QUANTITIES

			PRIVATE	PUBLIC
DRAINAGE				
1.	CONCRETE DRAINAGE EASEMENT	SF	–	4,010
WATER SYSTEM				
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	–	2
2.	8" PVC WATER PIPE (CLASS 150)	LF	–	1,350
3.	8" X 6" TEE PER UDACS PLATE NO. 31	EA	–	2
4.	8" X 8" TEE PER UDACS PLATE NO. 31	EA	–	2
5.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 3	EA	–	6
6.	1" COPPER SERVICE W/ 1" METER PER UDACS PLATE NO. 3	EA	–	2
7.	WATER LATERAL	LF	–	125
8.	CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	–	5
9.	8" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	2
10.	8" CROSS PER UDACS PLATE NO. 31	EA	–	1
11.	8" 90 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	1
SEWER SYSTEM (CITY OF LAS VEGAS ONLY)				
1.	8" PVC SEWER PIPE (PUBLIC)	LF	–	1680
2.	8" PVC C-900 SEWER PIPE (PUBLIC)	LF	–	220
3.	4" PVC SEWER LATERAL (PRIVATE)	LF	300	–
4.	STANDARD 48" SEWER MANHOLE (PUBLIC) PER DCSWCS SD-1A	EA	–	6
5.	8" SANITARY SEWER CAP PER DCSWCS 2.25	EA	–	1
6.	60" SEWER MANHOLE (PUBLIC) W/ CAST-IN-PLACE BASE PER DCSWCS SD-1A, SD-4, SD-7, AND SD-9, SINGLE 24" LID, AND CORROSION PROTECTION PER DCSWCS 3.16.8 A OR B	EA	–	1
STREET IMPROVEMENTS				
1.	3" A.C. PAVEMENT W/ 4" TYPE II OVER AGGREGATE BASE	SY	–	8,189
2.	2" A.C. PAVEMENT W/ 4" TYPE II OVER AGGREGATE BASE	SY	–	200
TRAFFIC SIGNALS				
1.	30" STOP SIGN WITH POST (R1-1) W/ (2) 9" STREET NAME SIGN (D-3)	EA	–	4
2.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	–	2
3.	6" WIDE WHITE PAINTED LINE	LF	–	4,010
4.	12" WIDE WHITE PAINTED LINE	LF	–	205
DRY UTILITIES				
1.	100W H.P.S. LUMINAIRE STREET LIGHT W/DECORATIVE POLE	EA	–	–
2.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	–	–
3.	NO. 3-1/2 PULL BOX W/METAL COVER	EA	–	–
4.	150 AMP SERVICE PEDESTAL (IRR)	EA	–	–
5.	200 AMP SERVICE PEDESTAL (STLT)	EA	–	–

APPROVED FOR CONSTRUCTION

DISHARI FOR

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 5/11/17 PROJECT No. 124637

LVWID APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

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

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

QUANTITIES AND ABBREVIATIONS

S 30 T 19S R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA - TODD J. STEADHAM - Exp. 06/30/2018 - CIVIL - No. 15292 - 4/17/17

C-3
SHEET 3 OF 15

HTE#16-46686 | H#68923

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

3071126

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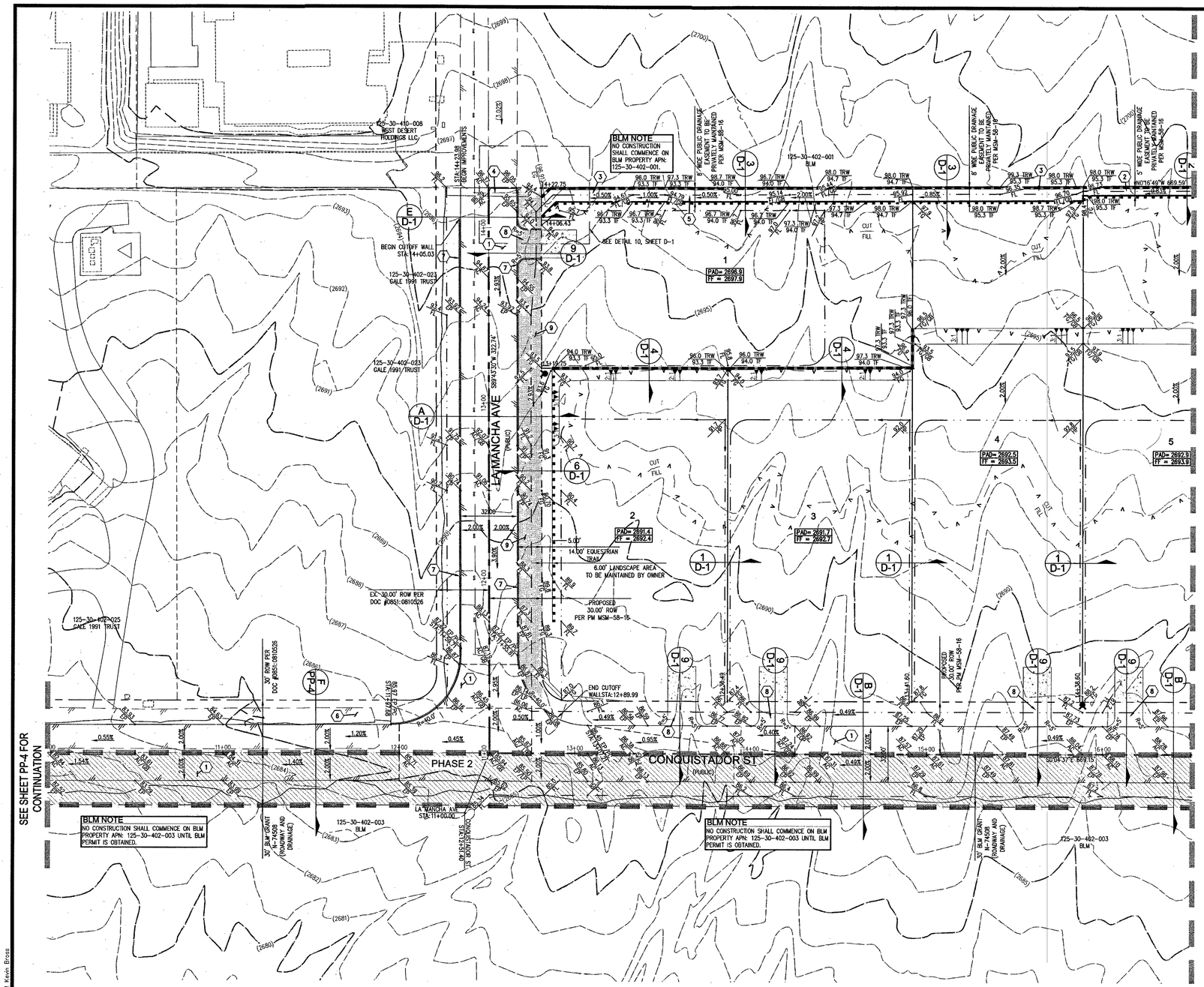

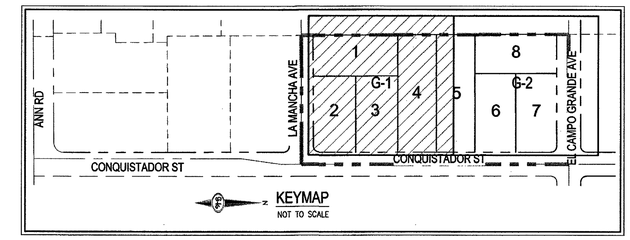

SCALE - 1"=30' (0 30 60 FEET)

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

BENCHMARK

BENCHMARK NUMBER: 1090 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE DESIGNATION

THE PROJECT SITE IS LOCATED WITHIN THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) PANEL MAP 32003C0174SE, EFFECTIVE DATE SEPTEMBER 27, 2002. THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED UNSHADED ZONE 'X' (UNSHADED). ZONE 'X' (UNSHADED) IS DESCRIBED BY FEMA AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN.

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 811
OR
1-800-227-2600

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

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 503
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- (5.01%) — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- V FILL CUT V — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

GRADING 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 CLARK COUNTY 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/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. SVZ NOTE PER UDSCCA DWG #201.2: NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

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

BY _____

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

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

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED FLOOD STUDY HTE#16-35732 ON FILE AT CLARK COUNTY FOR THE SUBJECT PROJECT.

TODD STEADHAM, PE 15292 — DATE: 4/17/17

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.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES
ELK RIDGE ESTATES I
GRADING PLAN I

S 30 T 19 R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15292 — 4/17/17

G-1
SHEET 4 OF 15

HTE # 16-46686

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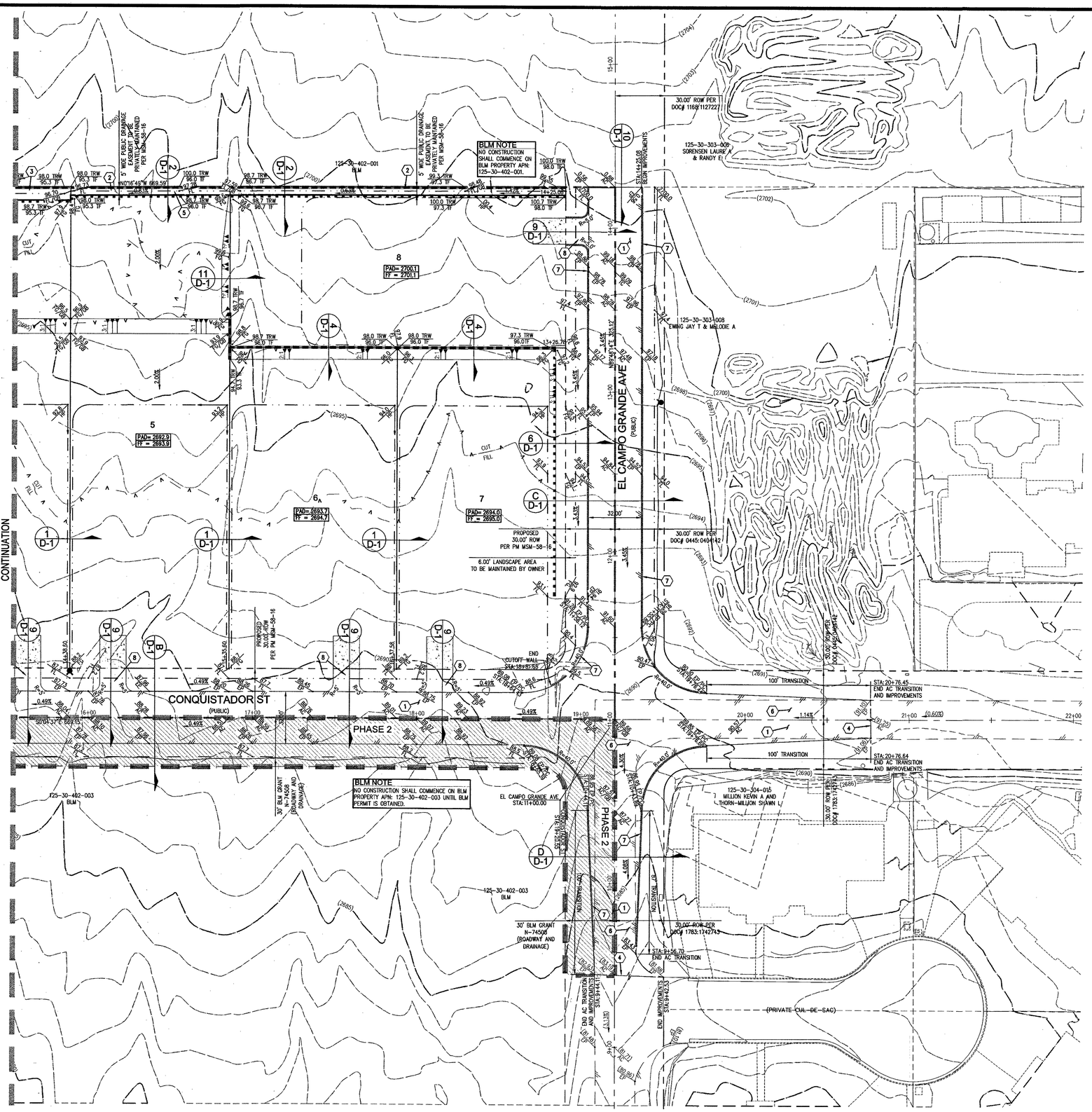
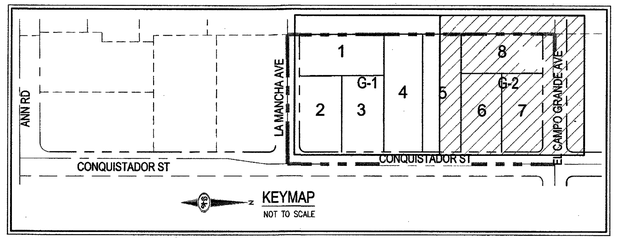




SCALE - 1"=30' (0, 30, 60 FEET)

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2' CHAT FOR EQUESTRIAN TRAIL

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE DESIGNATION

THE PROJECT SITE IS LOCATED WITHIN THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) PANEL MAP 32003C1745E, EFFECTIVE DATE SEPTEMBER 27, 2002. THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED UNSHADED ZONE 'X' (UNSHADED). ZONE 'X' (UNSHADED) IS DESCRIBED BY FEMA AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN.

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 811 OR 1-800-227-2600

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

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 503
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- (5.01%) — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- V FILL CUT V — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

GRADING 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 CLARK COUNTY 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/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. SVZ NOTE PER USDCCA DWG #201.2: NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

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

BY _____

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

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

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED FLOOD STUDY HTE#16-35732 ON FILE AT CLARK COUNTY FOR THE SUBJECT PROJECT.

TODD STEADHAM, PE 15292 — DATE 4/10/17

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.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I
GRADING PLAN II

S30 T19S R60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO. PIN1602

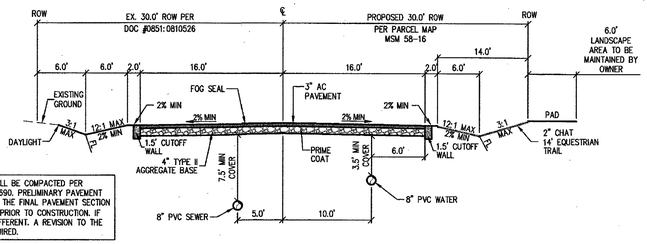
PROFESSIONAL ENGINEER - STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15292 — 4/10/17

G-2
SHEET 5 OF 15

HTE # 16-46686

30701124

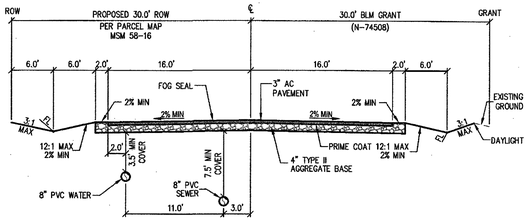
J:\pin1602 elk ridge I\dwg\improv\pin1602 grd.dwg 4/17/2017 3:05 PM Kevin Bross



NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT HTE 16-46690. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MSPR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.

A. STREET SECTION

NOT TO SCALE — LA MANCHA AVE



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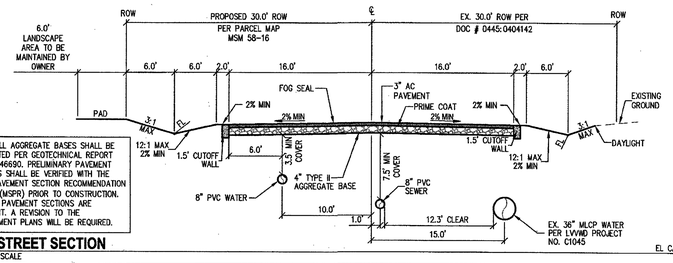
B. STREET SECTION

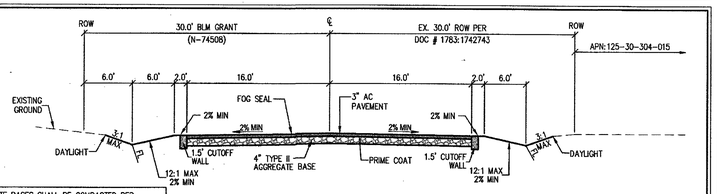
NOT TO SCALE — CONQUISTADOR ST



NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT HTE 16-46690. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MSPR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.

C. STREET SECTION

NOT TO SCALE — EL CAMPO GRANDE AVE



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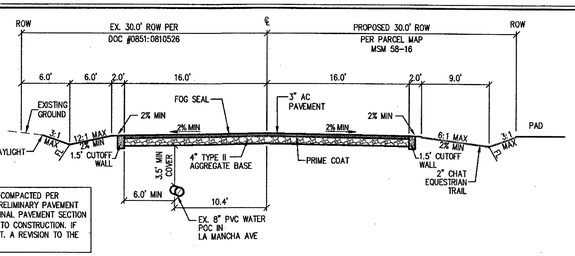
D. STREET SECTION

NOT TO SCALE — EL CAMPO GRANDE AVE



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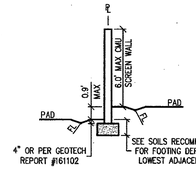
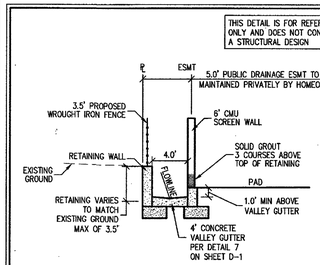
E. STREET SECTION

NOT TO SCALE — LA MANCHA AVE



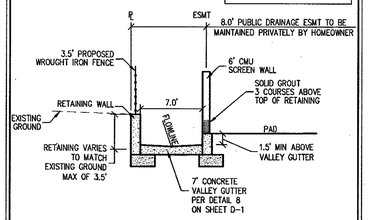
1. WALL SECTION

NOT TO SCALE



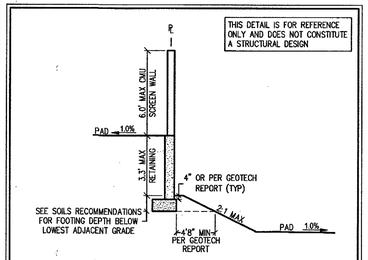
2. 5' DRAINAGE EASEMENT SECTION

NOT TO SCALE



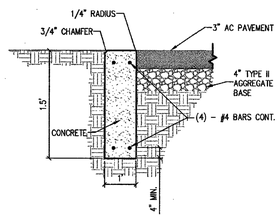
3. 8' DRAINAGE EASEMENT SECTION

NOT TO SCALE



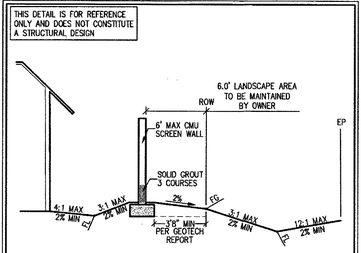
4. RETAINING WALL SECTION

NOT TO SCALE



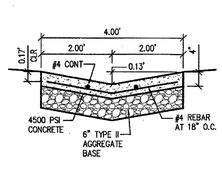
5. 1.5' CUT-OFF WALL DETAIL

NOT TO SCALE



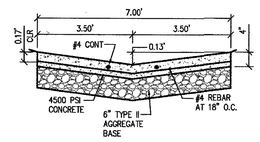
6. PERIMETER WALL SECTION

NOT TO SCALE



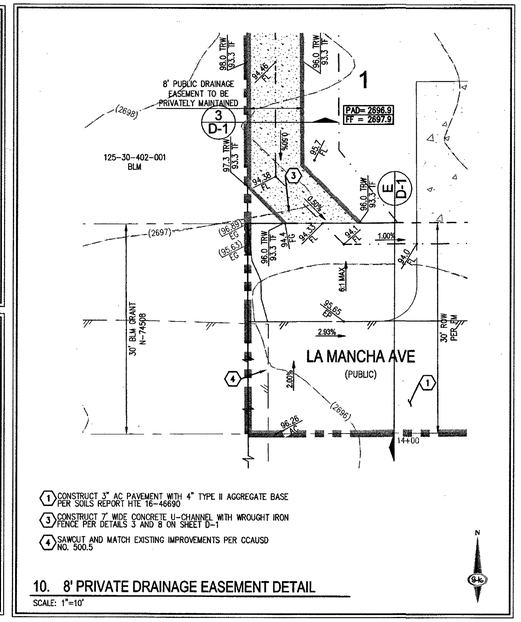
7. 4' WIDE CONCRETE VALLEY GUTTER

NOT TO SCALE



8. 7' WIDE CONCRETE VALLEY GUTTER

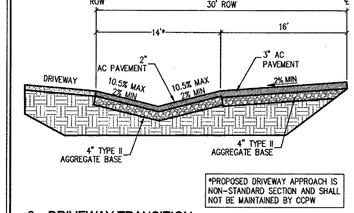
NOT TO SCALE



1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
3. CONSTRUCT 7' WIDE CONCRETE U-CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 5005

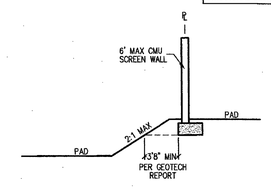
10. 8' PRIVATE DRAINAGE EASEMENT DETAIL

SCALE: 1"=10'



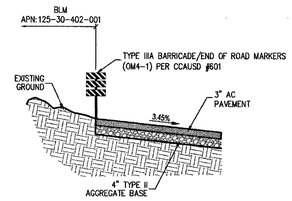
9. DRIVEWAY TRANSITION

NOT TO SCALE



11. WALL SECTION

NOT TO SCALE

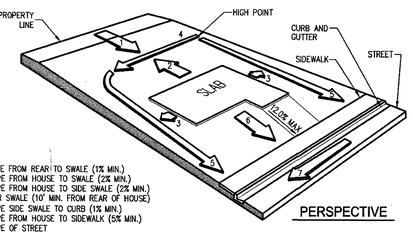


10. EL CAMPO GRANDE AVE TRANSITION TO EXISTING

NOT TO SCALE

GEOTECHNICAL SOILS REPORT HTE 16-46690 BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637



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

TYPE "A" LOT GRADING

NOT TO SCALE

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP DATE	APP

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

STREET SECTIONS AND GRADING DETAILS

S 30 T 19S R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO. PIN1602

PROFESSIONAL ENGINEER — STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15292 — 4/17/17

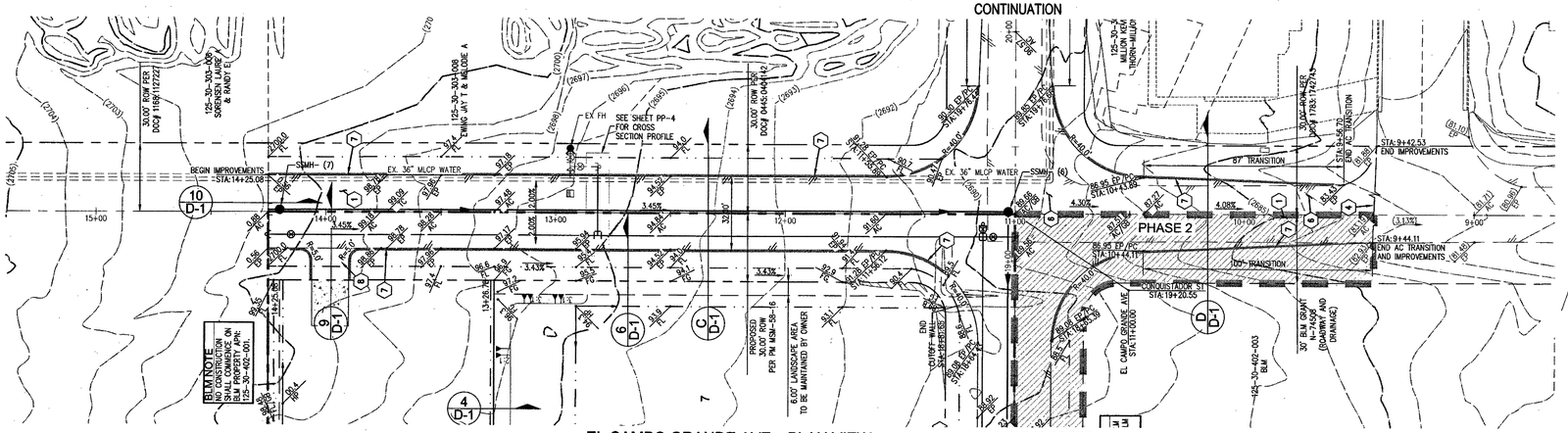
D-1
SHEET 6 OF 15

HTE#16-46686 | H#68923

PROJ#:124637 AGR:116142 QS:125-30-SW XC:11294

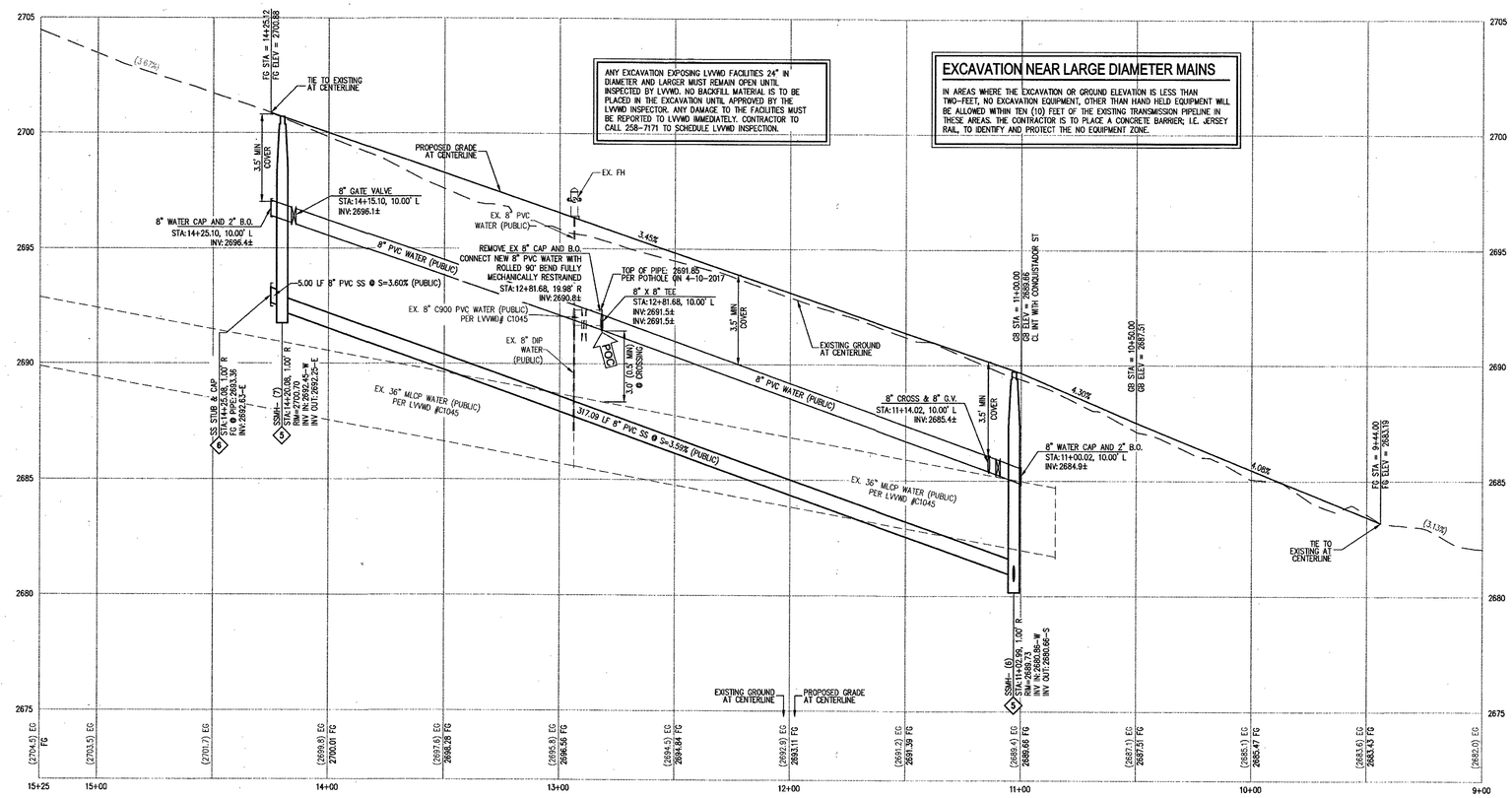
J:\pin1602 elk ridge I\dwg\micro\pin1602 dtl.dwg 4/17/2017 3:06 PM Kevin Gross

3071113b



EL CAMPO GRANDE AVE - PLAN VIEW

PUBLIC



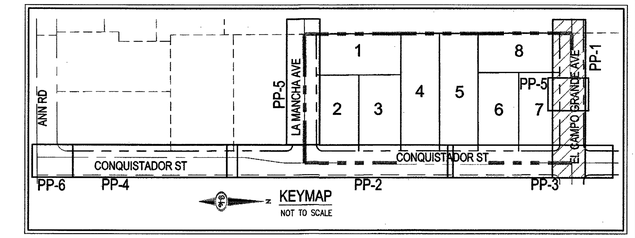
EL CAMPO GRANDE AVE - PROFILE VIEW

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

ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CALL 258-7171 TO SCHEDULE LVVWD INSPECTION.

EXCAVATION NEAR LARGE DIAMETER MAINS

IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN TWO-FEET, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE EXISTING TRANSMISSION PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER; I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.



N

SCALE - 1"=30'

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 503
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- 5.01% — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- FILL / CUT — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

SEWER NOTES

1. INSTALL 60" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSWCS 2.2.9, SD-4, SD-7,AND SD-9 (SINGLE 24" LID), ADD CORROSION PROTECTION PER DCSWCS 3.16.8 A OR B
2. FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER
3. INSTALL 8" PVC (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17
4. INSTALL 4" PVC SANITARY SEWER LATERAL PER DCSWCS SD-17, SD-22, SD-25
5. INSTALL 48" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 (SINGLE 24" LID)
6. INSTALL 8" SANITARY SEWER CAP AND THRUST BLOCK PER DCSWCS SEC. 2.25 AND DETAIL ON SHEET U-1
7. INSTALL REINFORCED CONCRETE ENCASEMENT PER DCSWCS SD-14 AND UDACS SEC. 2.22.02 (C)
7. INSTALL 8" C-900 (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17

GRADING 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 CLARK COUNTY 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/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. SVZ NOTE PER USDCCA DWG #201.2: 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.

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

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

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

BY _____

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

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
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1-702-227-2929

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE, 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

PLAN AND PROFILE - EL CAMPO GRANDE AVE

S 30 T 19S R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA - TODD J. STEADHAM - Exp. 06/30/2018 - CIVIL - No. 15292 - 4/17/17

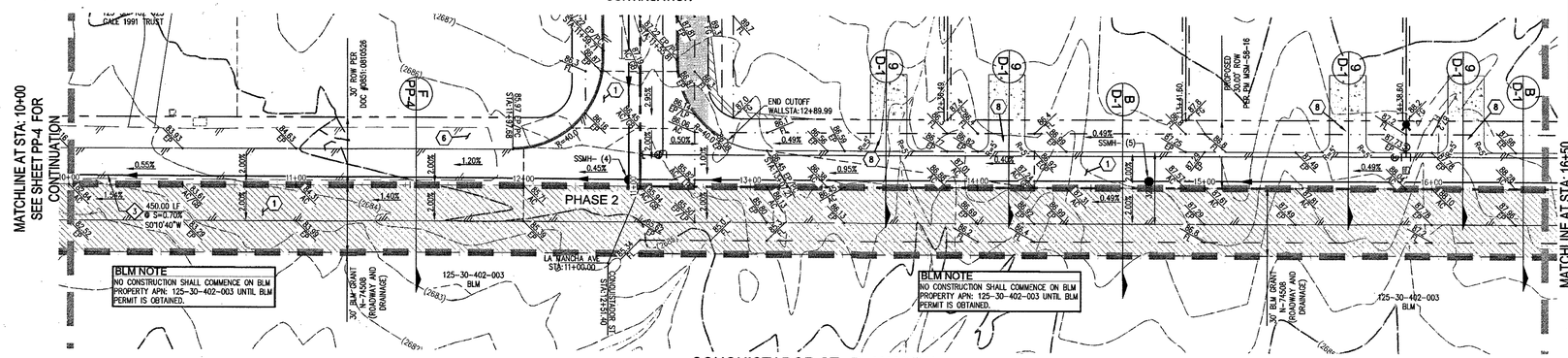
PP-1
SHEET 7 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

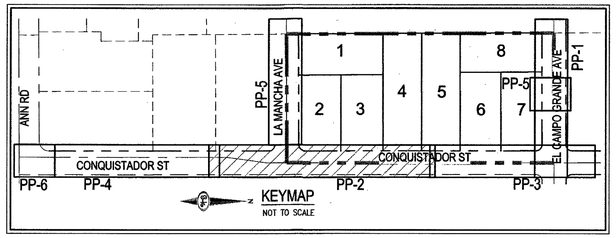
30711736

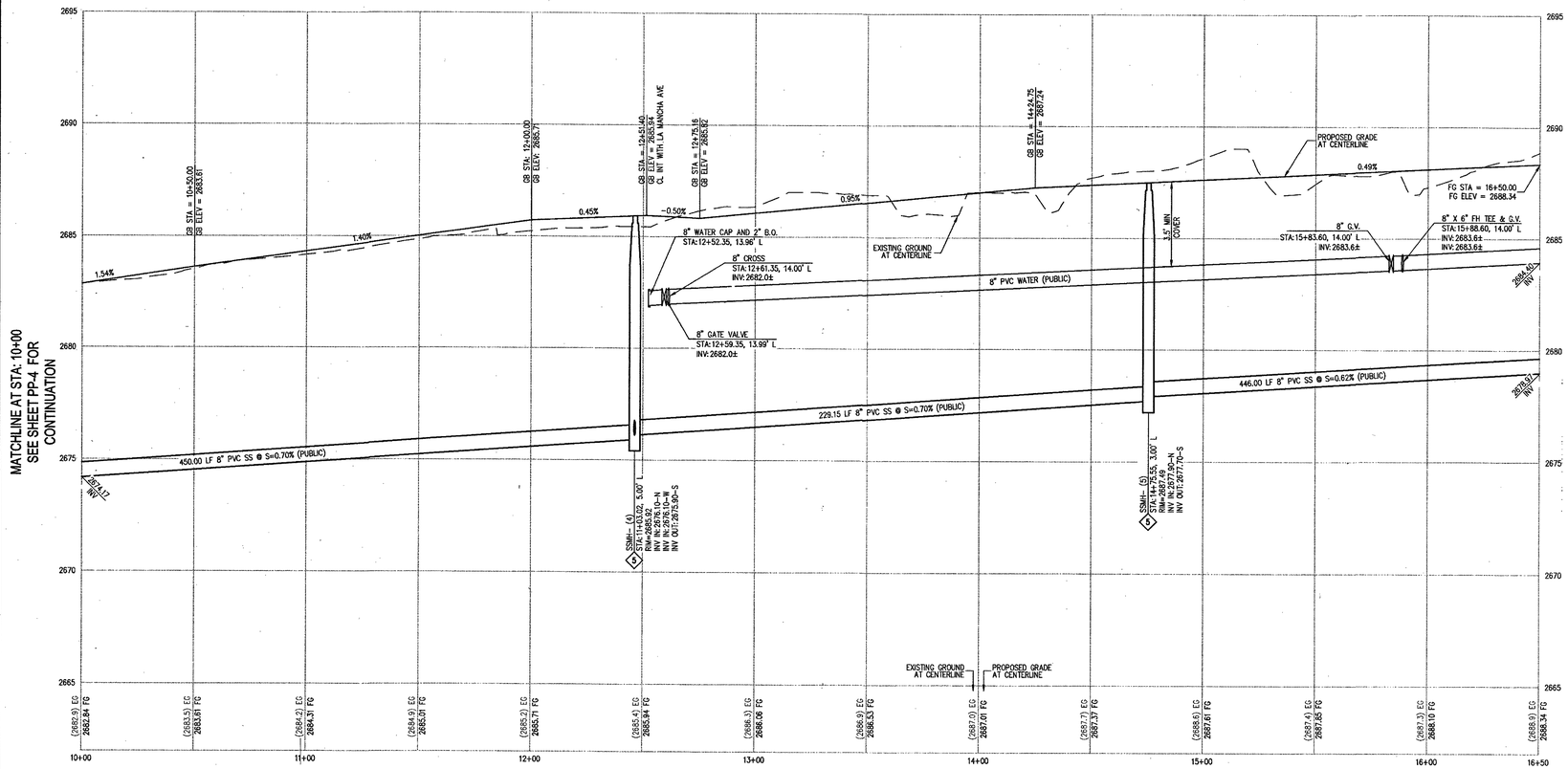
J:\pin1602 elk ridge 1\dwg\improv\pin1602 prp.dwg 4/17/2017 3:07 PM Kevin Bross



CONQUISTADOR ST - PLAN VIEW

PUBLIC





CONQUISTADOR ST- PROFILE VIEW

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

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SCALE - 1"=30' (0, 30, 60 FEET)

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46686
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 2' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

SEWER NOTES

1. INSTALL 60" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSWCS 2.2.9, SD-4, SD-7,AND SD-9 (SINGLE 24" LID), ADD CORROSION PROTECTION PER DCSWCS 3.16.8 A OR B
2. FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER
3. INSTALL 8" PVC (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17
4. INSTALL 4" PVC SANITARY SEWER LATERAL PER DCSWCS SD-17, SD-22, SD-25
5. INSTALL 48" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 (SINGLE 24" LID)
6. INSTALL 8" SANITARY SEWER CAP AND THRUST BLOCK PER DCSWCS SEC. 2.25 AND DETAIL ON SHEET U-1
7. INSTALL REINFORCED CONCRETE ENCASEMENT PER DCSWCS SD-14 AND UDACS SEC. 2.22.02 (C)
7. INSTALL 8" C-900 (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 500.3
- 00.00 TG — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- (5.01%) — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- FILL / CUT — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

GRADING 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.
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FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

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

BY _____

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1-702-227-2929

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

BENCHMARK

BENCHMARK NUMBER: 1C90 30S6
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9520 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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3071126

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES
ELK RIDGE ESTATES I
PLAN AND PROFILE - CONQUISTADOR ST I

S 30 T 19S R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA
TODD J. STEADHAM
Exp. 06/30/2018
CIVIL
No. 15292
5/10/17

PP-2
SHEET 8 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC:11294

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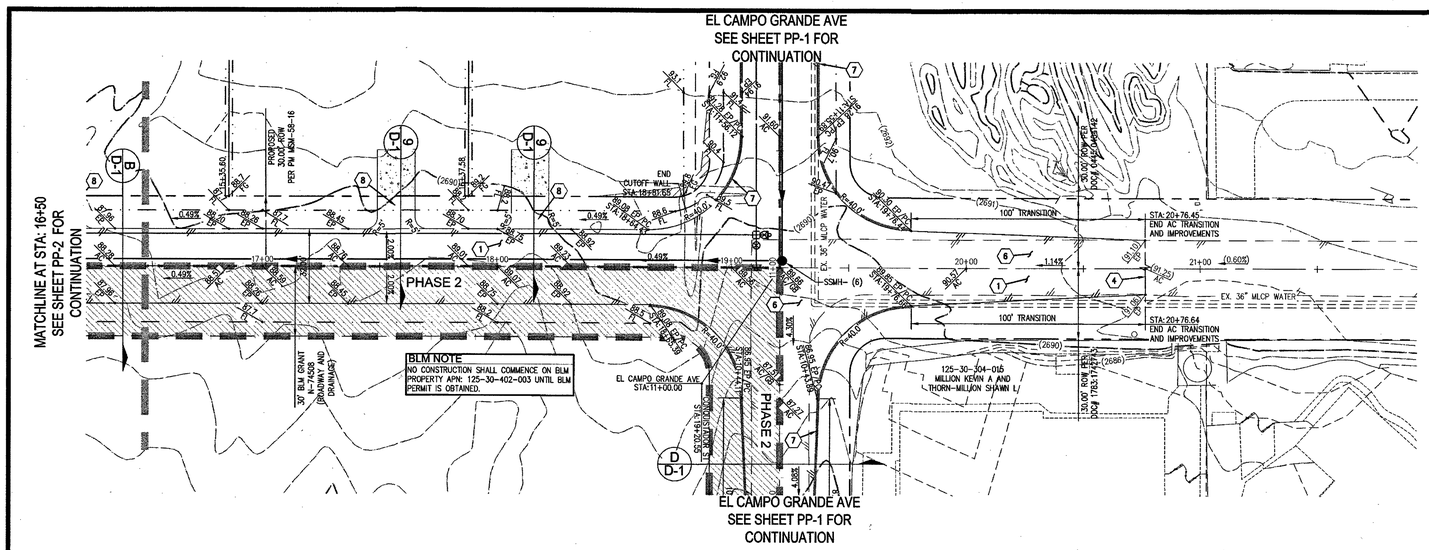
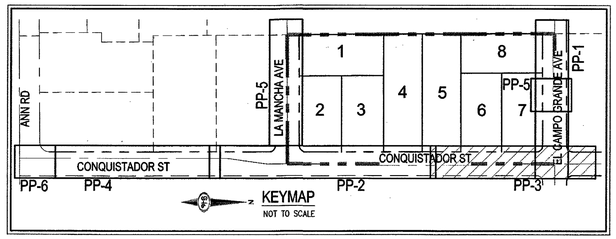
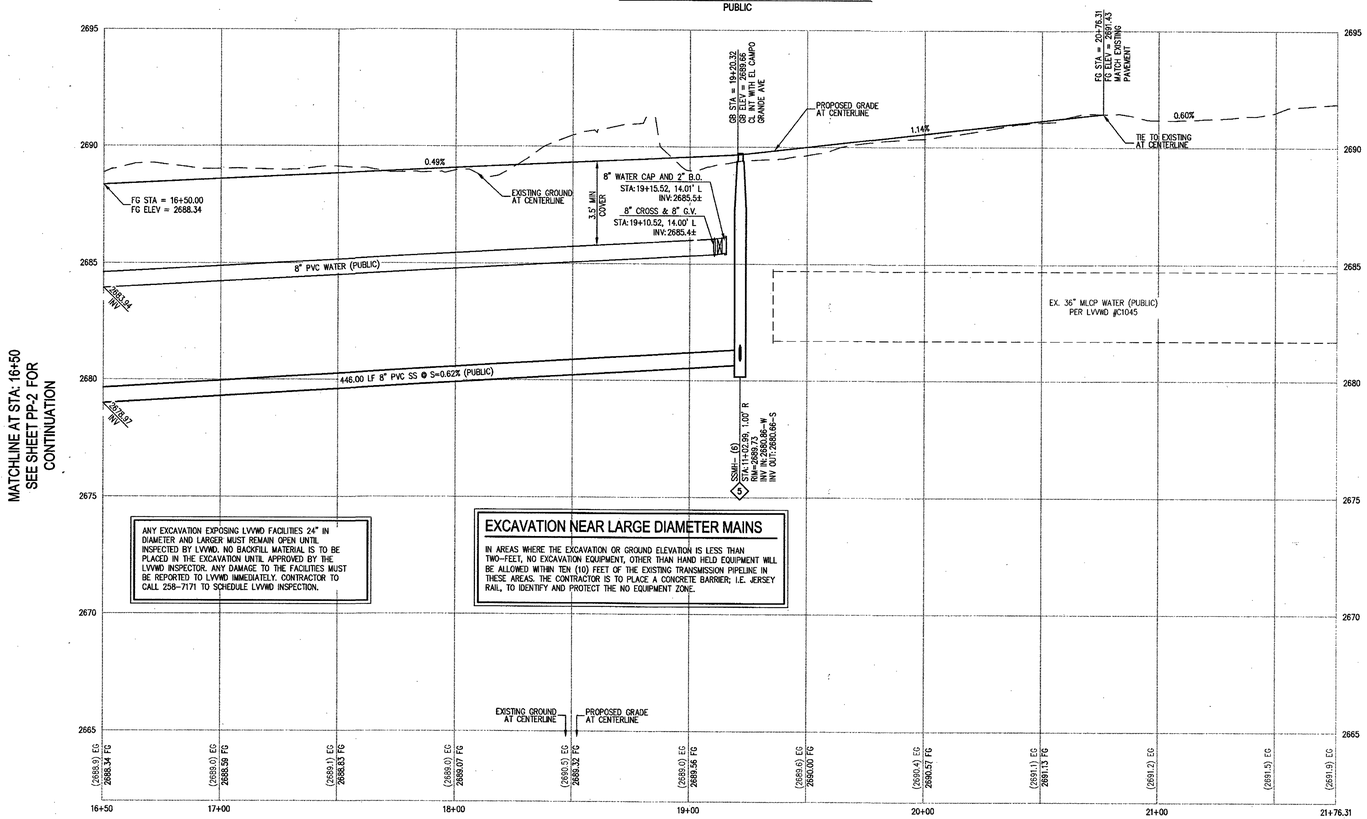




CONQUISTADOR ST- PLAN VIEW

PUBLIC



ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CALL 258-7171 TO SCHEDULE LVVWD INSPECTION.

EXCAVATION NEAR LARGE DIAMETER MAINS

IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN TWO-FEET, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE EXISTING TRANSMISSION PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER; I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

CONQUISTADOR ST - PROFILE VIEW

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

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
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9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

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LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 503
- 00.00 PG — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- (5.01%) — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
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CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW ACCEPTANCE OF PLANS FOR FILING

BY _____

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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
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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.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

PLAN AND PROFILE - CONQUISTADOR ST II

S 30 T 19 R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA - TODD J. STEADHAM - Exp. 06/30/2018 - CIVIL - No. 15293 - 5/11/17

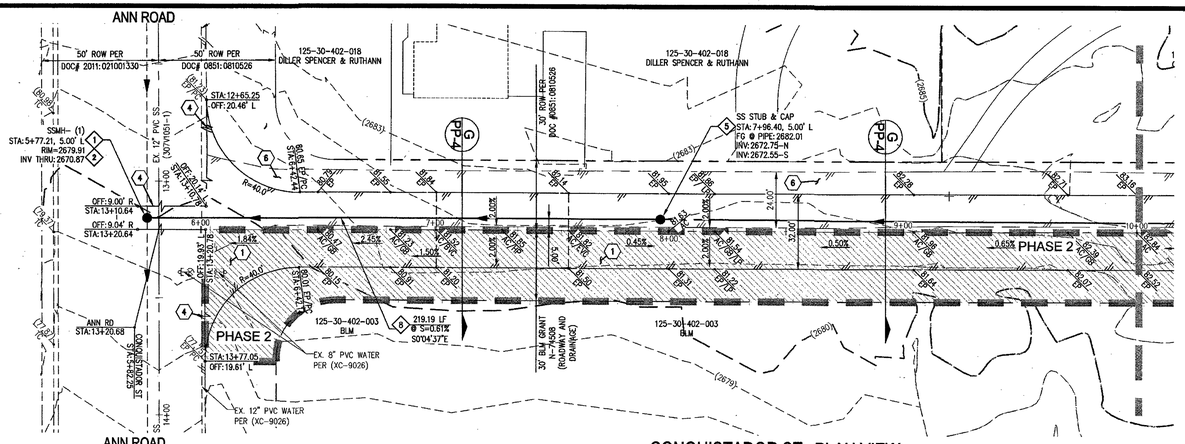
PP-3
SHEET 9 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

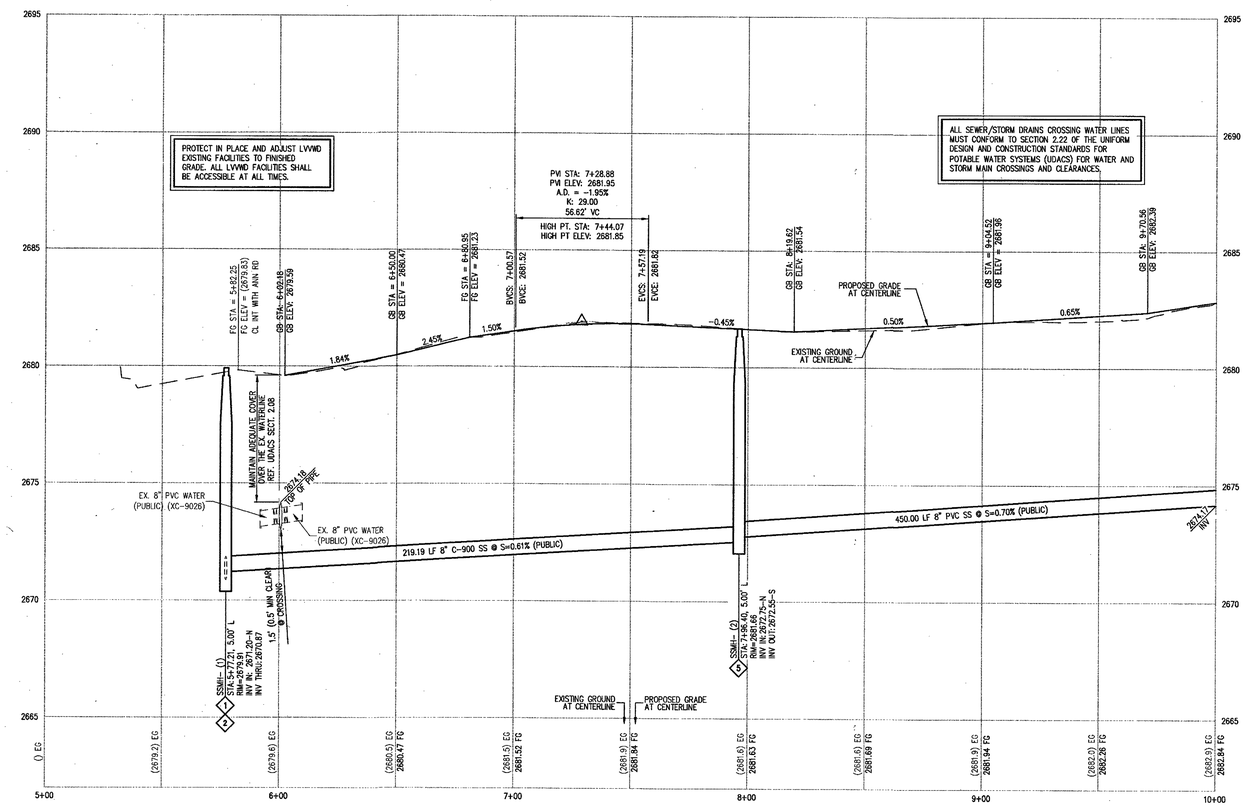
30TW1126

J:\pin1602 elk ridge 1\dwg\improv\pin1602 pnp.dwg 4/17/2017 3:07 PM Kevin Bross



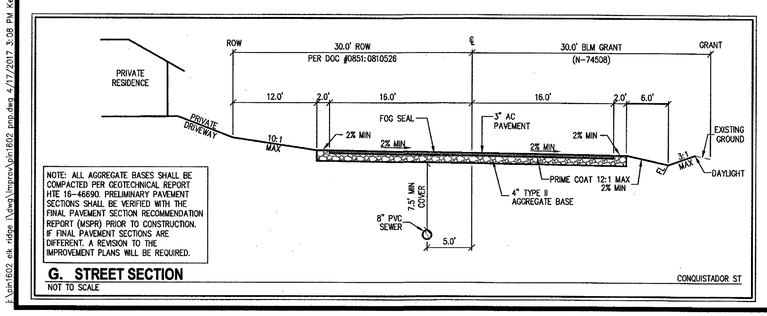
CONQUISTADOR ST - PLAN VIEW

PUBLIC



CONQUISTADOR ST- PROFILE VIEW

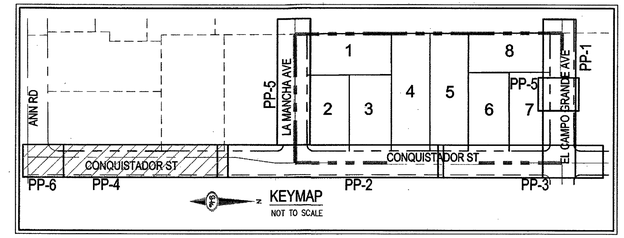
HORIZ: 1"=30'
VERT: 1"=3'



G. STREET SECTION

NOT TO SCALE

CONQUISTADOR ST



SCALE - 1"=30' FEET

BLM NOTE (PHASE 2)

BLM GRANT N-74508. NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

SEWER NOTES

1. INSTALL 60" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSWCS 2.2.9, SD-4, SD-7,AND SD-9 (SINGLE 24" LID), ADD CORROSION PROTECTION PER DCSWCS 3.16.8 A OR B
2. FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER
3. INSTALL 8" PVC (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17
4. INSTALL 4" PVC SANITARY SEWER LATERAL PER DCSWCS SD-17, SD-22, SD-25
5. INSTALL 48" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 (SINGLE 24" LID)
6. INSTALL 8" SANITARY SEWER CAP AND THRUST BLOCK PER DCSWCS SEC. 2.25 AND DETAIL ON SHEET U-1
7. INSTALL REINFORCED CONCRETE ENCASEMENT PER DCSWCS SD-14 AND UDACS SEC. 2.22.02 (C)
7. INSTALL 8" C-900 (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 500
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- (5.01%) — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- FILL / CUT — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

GRADING 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 CLARK COUNTY 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/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. SVZ NOTE PER USDCCA DWG #201.2: 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.

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

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

BY _____

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

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

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

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637
LVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

DISCLAIMER NOTE

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3071126

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

PLAN AND PROFILE- CONQUISTADOR ST III

S 30 T 19S R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

PROFESSIONAL ENGINEER - STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15292 — 4/17/17

PP-4
SHEET 10 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

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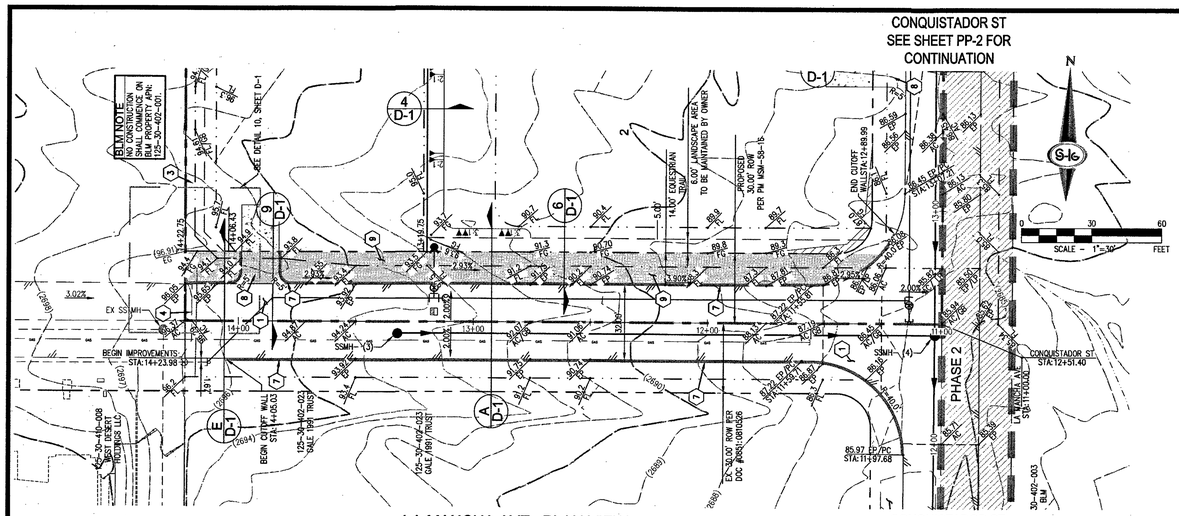
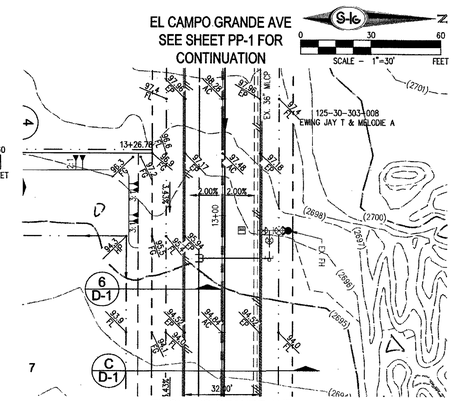
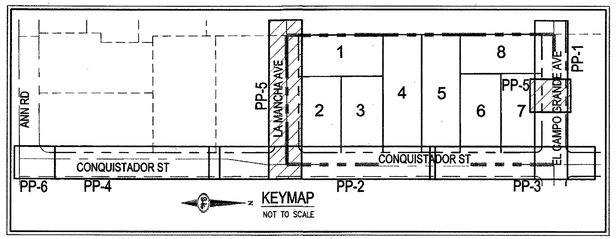


LA MANCHA AVE - PLAN VIEW
PUBLIC



EL CAMPO GRANDE AVE
SEE SHEET PP-1 FOR
CONTINUATION

WATER CONNECTION CROSS SECTION - PLAN VIEW
NORTH-SOUTH



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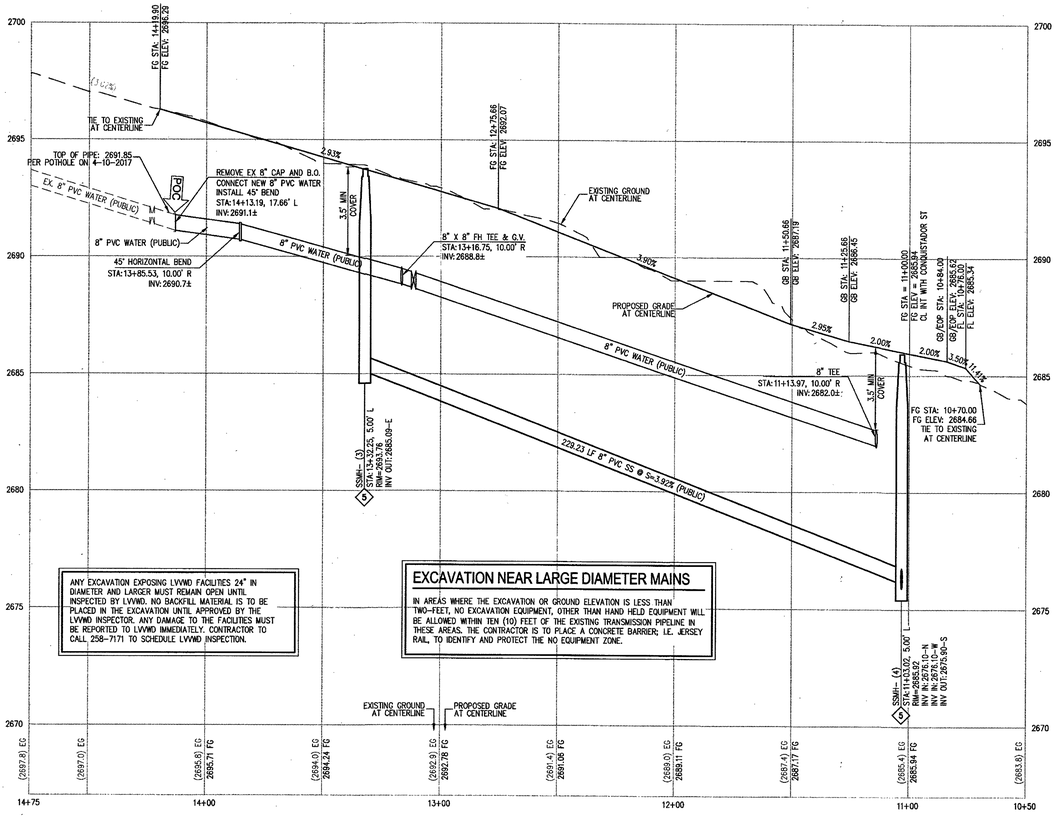
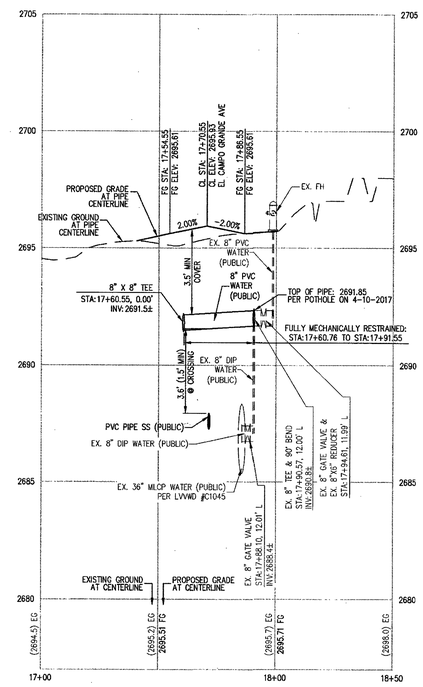


ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CALL 258-7171 TO SCHEDULE LVVWD INSPECTION.

EXCAVATION NEAR LARGE DIAMETER MAINS

IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN TWO-FEET, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE EXISTING TRANSMISSION PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

LA MANCHA AVE - PROFILE VIEW
HORIZ: 1"=30'
VERT: 1"=3'



WATER CONNECTION CROSS SECTION - PROFILE VIEW
HORIZ: 1"=30'
VERT: 1"=3'

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
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CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW ACCEPTANCE OF PLANS FOR FILING

BY _____

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

DISCLAIMER NOTE

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5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 234-5300 FAX (702) 234-5399

NO.	DESCRIPTION	DATE	BY	APP DATE	APP

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

PLAN AND PROFILE - LA MANCHA AVE

9 30 R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO. PIN1602

PROFESSIONAL ENGINEER STATE OF NEVADA TODD J. STEADHAM Exp. 06/30/2018 CIVIL No. 15297 4/17/17

PP-5
SHEET 11 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

307V1126

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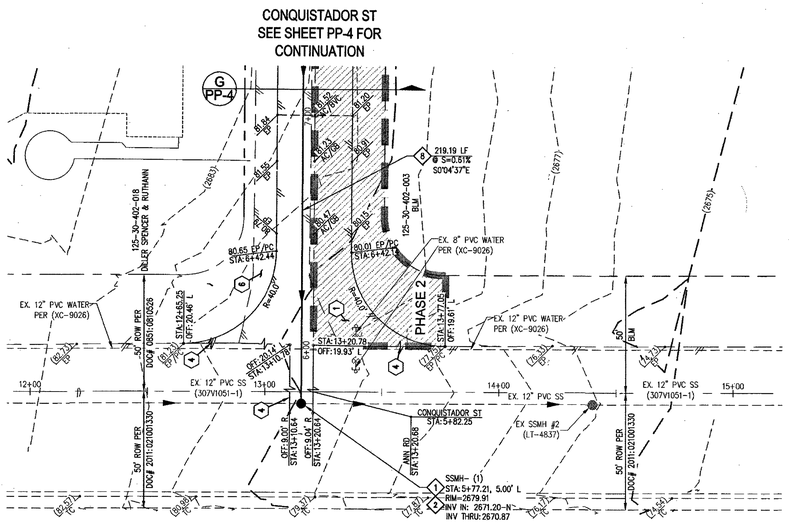
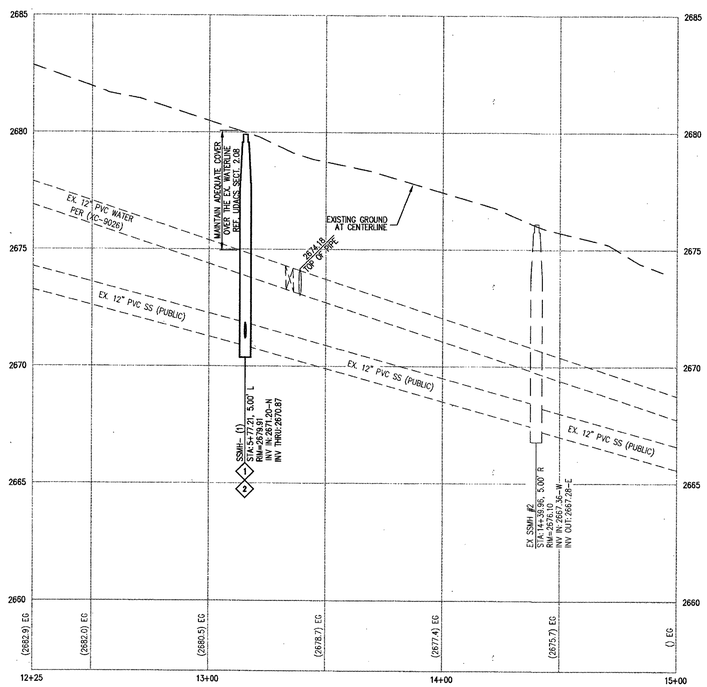


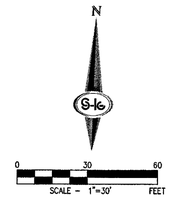
ANN RD - PLAN VIEW

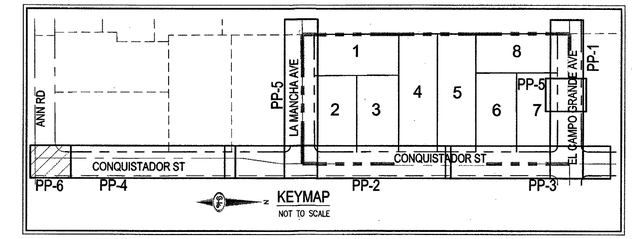
PUBLIC



ANN RD - PROFILE VIEW

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





BLM NOTE (PHASE 2)

BLM GRANT N-74508.
NO CONSTRUCTION SHALL COMMENCE ON BLM PROPERTY APN: 125-30-402-003 UNTIL BLM PERMIT IS OBTAINED.

PHASE LINE

SOILS REPORT BY WRIGHT ENGINEERS PROJECT NO. 161102, DATED JULY 11, 2016

EARTHWORK QUANTITIES (RAW):
CUT= 4,797 CU YDS/ FILL= 5,130 CU YDS

LEGEND

- MATCHLINE
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EQUESTRIAN TRAIL
- FLOWLINE
- EDGE OF PAVEMENT (EP)
- SAWCUT LINE PER CCAUSD NO. 500
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- 15.01% — DESIGN SLOPE IN VERTICAL CURVE
- (2800) — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- FILL / CUT — CUT/FILL TRANSITION LINE
- FIRE HYDRANT ASSEMBLY
- SIGHT VISIBILITY ZONE
- WROUGHT IRON FENCE
- RETAINING WALL
- DECORATIVE PERIMETER WALL
- DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

CONSTRUCTION NOTES

1. CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT HTE 16-46690
2. CONSTRUCT 4' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 2 AND 7 ON SHEET D-1
3. CONSTRUCT 7' WIDE DRAINAGE CHANNEL WITH WROUGHT IRON FENCE PER DETAILS 3 AND 8 ON SHEET D-1
4. SAWCUT AND MATCH EXISTING IMPROVEMENTS PER CCAUSD NO. 500.3 AND 500.5
5. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOMEOWNER
6. EXISTING PAVEMENT TO REMOVED
7. CONSTRUCT 1.5' CUT-OFF WALL PER DETAIL 5 ON SHEET D-1
8. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 9 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
9. INSTALL 2" CHAT FOR EQUESTRIAN TRAIL

SEWER NOTES

1. INSTALL 60" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSWCS 2.2.9, SD-4, SD-7,AND SD-9 (SINGLE 24" LID), ADD CORROSION PROTECTION PER DCSWCS 3.16.8 A OR B
2. FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER
3. INSTALL 8" PVC (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17
4. INSTALL 4" PVC SANITARY SEWER LATERAL PER DCSWCS SD-17, SD-22, SD-25
5. INSTALL 48" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 (SINGLE 24" LID)
6. INSTALL 8" SANITARY SEWER CAP AND THRUST BLOCK PER DCSWCS SEC. 2.25 AND DETAIL ON SHEET U-1
7. INSTALL REINFORCED CONCRETE ENCASEMENT PER DCSWCS SD-14 AND UDACS SEC. 2.22.02 (C)
7. INSTALL 8" C-900 (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17

GRADING 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 CLARK COUNTY 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/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. SV2 NOTE PER USDCCA DWG #201.2: 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.

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 811
OR
1-800-227-2600

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

BY _____

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

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

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

APPROVED FOR CONSTRUCTION

H. DISHARI FOR
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

BENCHMARK

BENCHMARK NUMBER: 1090 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4" X 4" CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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.

307V1126

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES
ELK RIDGE ESTATES I
PLAN AND PROFILE- ANN RD

S 30
T 19S
R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO.
PIN1602

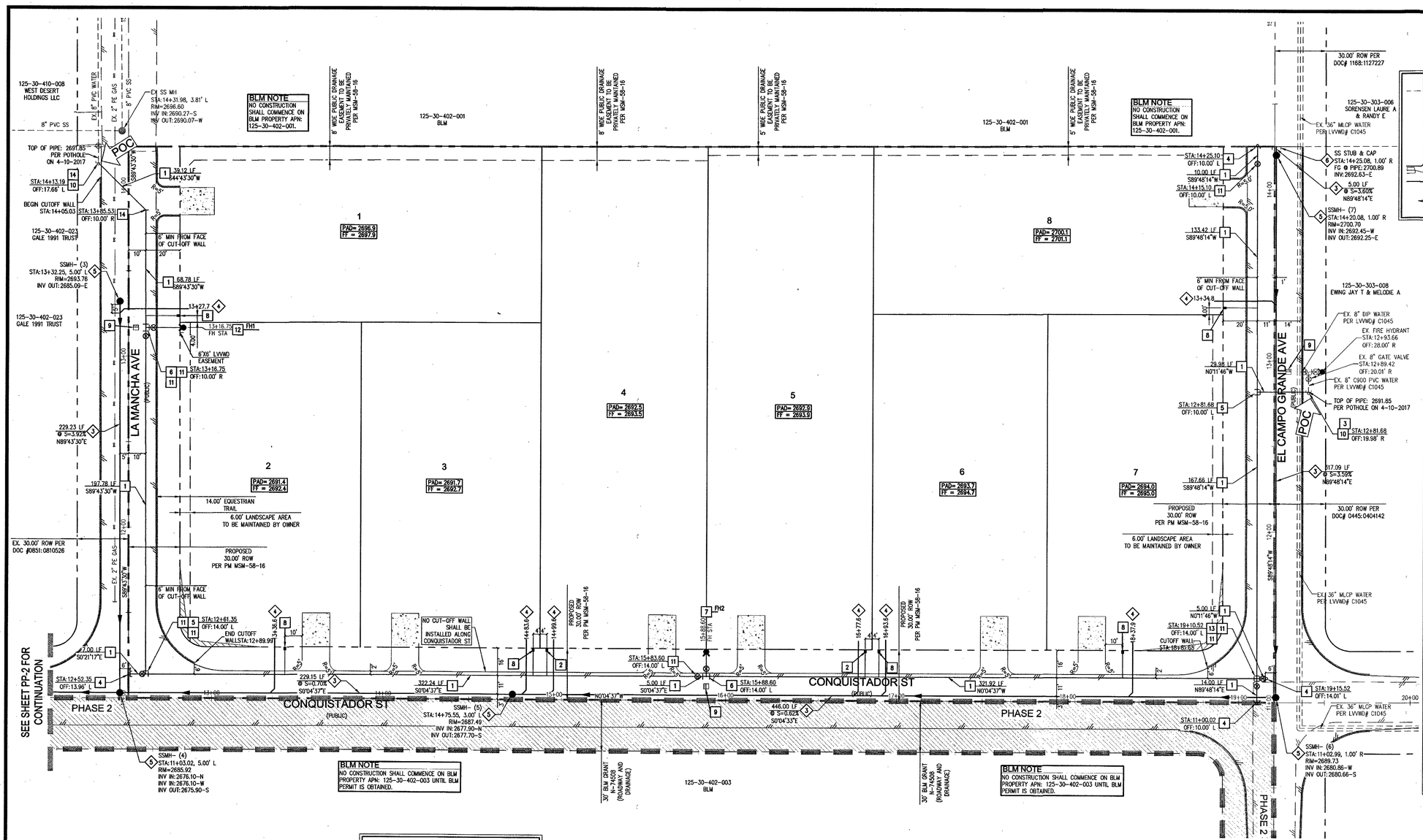
PROFESSIONAL ENGINEER - STATE OF NEVADA
TODD J. STEADHAM
Exp. 06/30/2018
CIVIL
No. 15292
4/17/17

PP-6
SHEET 12 OF 15

HTE # 16-46686

PROJ#:124637 AGR:116142 QS:125-30-SW XC:11294

E:\pin1602 elk ridge l\dwg\improv\pin1602 pnp.dwg 4/17/2017 3:08 PM Kevin Bross



WATER NOTES

1. INSTALL 8" PVC WATER PIPE (2860 MPZ)
2. INSTALL 1" COPPER SERVICE W/ 1" METER PER UDACS PLATE NO. 3
3. INSTALL 90 DEGREE BEND PER UDACS PLATE NO. 31
4. INSTALL 8" CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
5. INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
6. INSTALL 8" X 6" TEE PER UDACS PLATE NO. 31
7. INSTALL FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATES NO. 30, 39 & 40 (SEE DETAIL A SHEET U-1)
8. INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 3
9. INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS PER 2009 IFC APPENDIX C, SECT C107.1
10. REMOVE CAP AND BLOW OFF PER UDACS PLATE NO. 36, AND CONNECT TO EXISTING MAIN
11. 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
12. INSTALL FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATES NO. 30, 39 & 40 (SEE DETAIL B SHEET U-1)
13. INSTALL 8" CROSS PER UDACS PLATE NO. 31
14. INSTALL 45 DEGREE BEND PER UDACS PLATE NO. 31

1. 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.
2. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
3. 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.
4. CONTROLLED LOW STRENGTH MATERIAL (CLSM)
   PROJECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER PIPE COMPLIES WITH REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.
5. ADJUST EXISTING WATER VALVE BOXES TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.

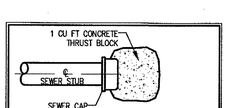
TYPICAL WATER METER SUMMARY TABLE

		PUBLIC	PRIVATE
1.	1" SERVICE LATERAL W/ 3/4" METER	6	–
2.	1" SERVICE LATERAL W/ 1" METER	2	–
3.	1" IRRIGATION METER	–	–
4.	1" RPPA	–	–

FIRE FLOW CALCULATIONS

FIRE FLOW 2,250 GPM AT 20 P.S.I. RESIDUAL.

USE/OCCUPANCY	SINGLE FAMILY
TYPE OF CONSTRUCTION (BC)	TYPE V-B
AUTOMATIC FIRE SPINKLERS	NO
SQUARE FOOTAGE	<7,700
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A
BUILDING HEIGHT	<35
NO OF STORIES INCLUDING BASEMENT	2
HIGH PILED COMBUSTIBLE STORAGE	NO
NO OF HYDRANTS INSTALLED	2



SEWER THRUST BLOCK DETAIL
NOT TO SCALE

SCALE – 1"=30' (0, 30, 60 FEET)

LVVWD NOTE

ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CAL 258-7171 TO SCHEDULE LVVWD INSPECTION.

DISCLAIMER NOTE

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.

COUNTY OF CLARK FIRE DEPARTMENT APPROVED

BY: _____ DATE: 4/21/17

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 2,250 GPM AT 20 P.S.I. RESIDUAL.
#16-46683

SEWER NOTES

1. INSTALL 60" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSWCS SEC. 2.22 DETAIL SD-4, SD-7 AND SD-9 (SINGLE 24" LID). ADD CORROSION PROTECTION PER DCSWCS SD-17 & 3.16.B & C OR B
2. FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER
3. INSTALL 8" PVC (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17
4. INSTALL 4" PVC SANITARY SEWER LATERAL PER DCSWCS SD-17, SD-22, SD-25
5. INSTALL 48" DIAMETER (PUBLIC) SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4 AND SD-9 (SINGLE 24" LID)
6. INSTALL 8" SANITARY SEWER CAP AND THRUST BLOCK PER DCSWCS SEC. 2.25 AND DETAIL ON SHEET U-1
7. INSTALL REINFORCED CONCRETE ENCASEMENT PER DCSWCS SD-14 AND UDACS SEC. 2.22.02 (C)
8. INSTALL 8" C-900 (PUBLIC) SANITARY SEWER PIPE PER DCSWCS SD-17

ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS
8 UNITS X 250 GPD/UNIT = 2,000 GPD = 0.002 MGD
TOTAL PEAK FLOW = 0.002 X 4.74 (PEAK FACTOR) = 0.0095 MGD

LATERAL MARKING REQUIREMENTS
LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTIONS SYSTEMS, STANDARD DRAWING 25. A 3M MARKER BALL IS TO BE INSTALLED OVER THE CONNECTION POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES THE PROPERTY LINE. A VISUAL MARK IS ALSO REQUIRED. A 3-INCH HIGH "S" STAMPED OR CHISELED INTO THE CONCRETE AT THE POINT DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

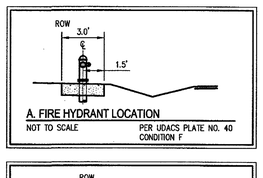
BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

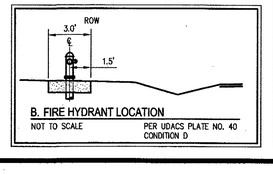
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/11/17 PROJECT No. 124637
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

EXCAVATION NEAR LARGE DIAMETER MAINS

IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN TWO-FEET, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE EXISTING TRANSMISSION PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER; I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

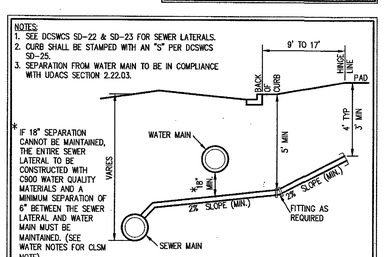


A. FIRE HYDRANT LOCATION
NOT TO SCALE — PER UDACS PLATE NO. 40 CONDITION F

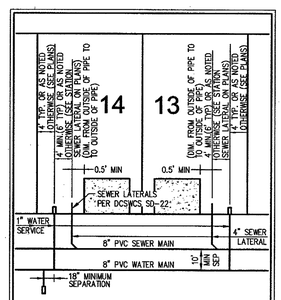


B. FIRE HYDRANT LOCATION
NOT TO SCALE — PER UDACS PLATE NO. 40 CONDITION D

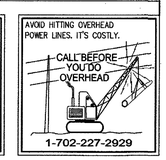
NOTES:
1. SEE DCSWCS SD-22 & SD-23 FOR SEWER LATERALS.
2. CURB SHALL BE STAMPED WITH AN "S" PER DCSWCS SD-25.
3. SEPARATION FROM WATER MAIN TO BE IN COMPLIANCE WITH UDACS SECTION 2.22.03.



TYPICAL SEWER LATERAL
NOT TO SCALE



TYPICAL UTILITY LOCATION
UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)
NOT TO SCALE



SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

UTILITY PLAN

S-30
R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS

PROJECT NO.
PIN1602

PROFESSIONAL ENGINEER — STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15292 — 4/17/17

U-1
SHEET 13 OF 15

HTE#16-46686 | H#68923

PROJ#:124637 AGR:116142 QS:125-30-SW XC 11294

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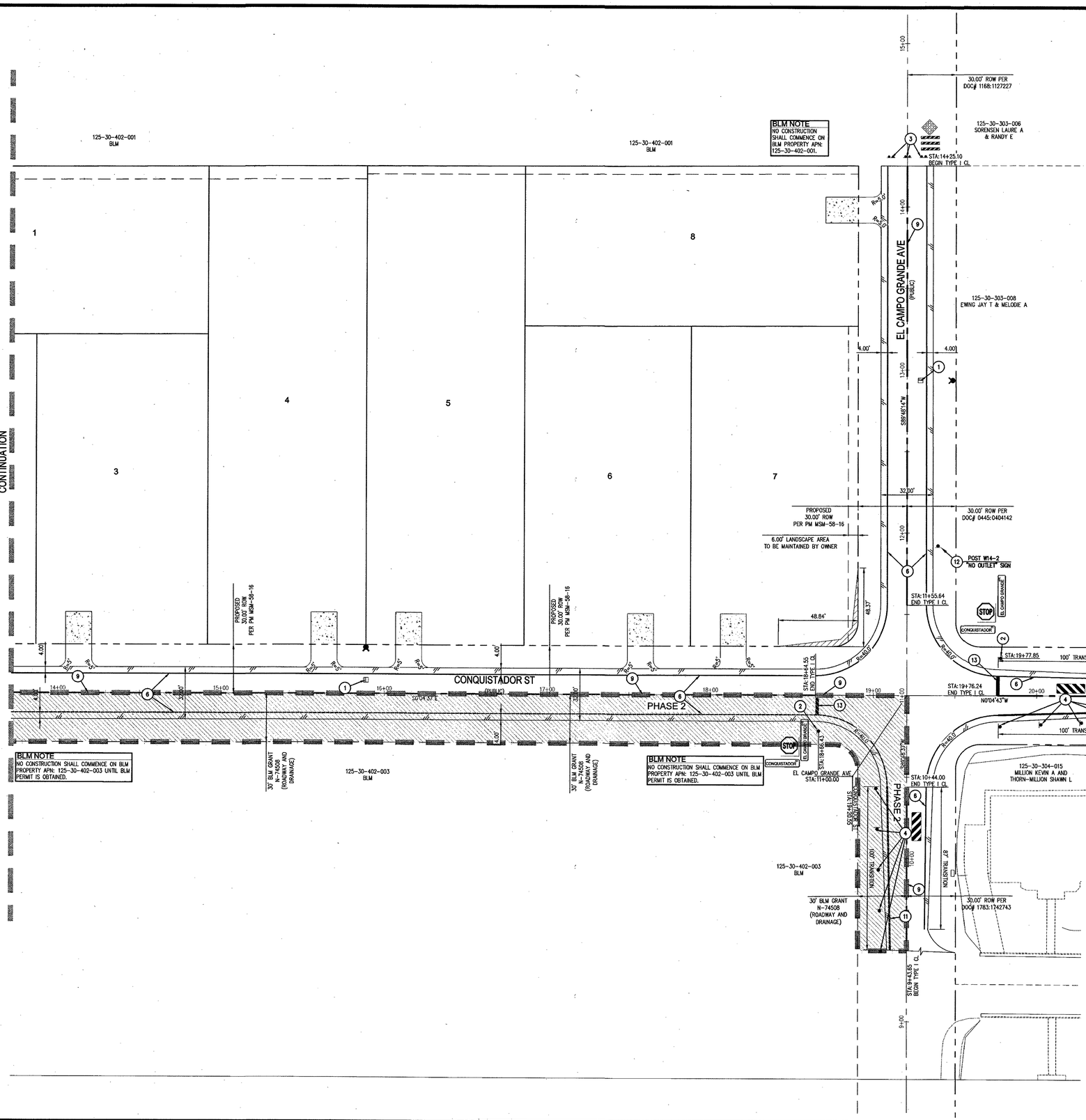
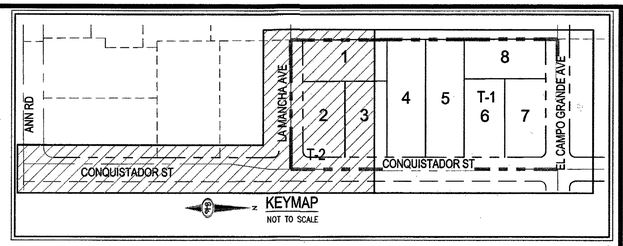
3071U26





INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES

--ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE, EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
--ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS

ACCEPTED

BY _____

ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SCALE - 1"=30' (0, 30, 60 FEET)

TRAFFIC LEGEND

- STREET NAME SIGN (D-3, 2 PER POLE) SIZE PER PLAN
- 9" STREET NAME SIGN (D-3, 2 PER POLE)
- STOP SIGN W/POST (R1-1) SIZE PER PLAN
- 24"x30" SPEED LIMIT SIGN (R2-1A) (SPEED LIMIT PER PLAN)
- 48"x24" TWO DIRECTION LARGE ARROW SIGN (W1-7)
- 12"x36" OBJECT MARKER SIGN (OM3-R) (SPACE @ 35' O.C. MAX)
- TYPE IIIA BARRICADE/END OF ROAD MARKERS (OM4-1) PER CCAUSD # 601
- NO. 3-1/2 PULL BOX (STREET LIGHT)
- P30 FIBER OPTIC PULL BOX (FAST)
- STREETLIGHT SERVICE PEDESTAL
- TRAFFIC SIGN (AS INDICATED)
- EXISTING TRAFFIC SIGN
- REFLECTIVE RAISED PAVEMENT MARKERS
- SIGHT VISIBILITY ZONE

SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

TRAFFIC NOTES

1. INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS PER 2009 IFC APPENDIX C, SECT C107.1 AND TRAFFIC NOTE THIS SHEET
2. INSTALL 30" STOP SIGN (R1-1) W/9" STREET NAME SIGN (D-3, TWO PER POLE)
3. INSTALL TYPE IIIA BARRICADE PER CCAUSD NO. 601 WITH END OF ROAD MARKER (OM4-1)
4. INSTALL OBJECT MARKER SIGN (OM3-R) @ 25-FT APART
5. INSTALL TWO WAY ARROW SIGN (W1-7)
6. INSTALL 6" WIDE SOLID WHITE EDGE LINE STRIPING
7. EXISTING SIGN TO BE REMOVED & RETURNED TO CCPW
8. POST EQUESTRIAN TRAIL SIGN
9. INSTALL TYPE I CENTERLINE PER CCAUSD NO. 244
10. MATCH TO EXISTING STRIPING
11. INSTALL 12" WIDE SOLID WHITE EDGE LINE STRIPING
12. INSTALL NO OUTLET SIGN (W14-2)
13. INSTALL 2' WIDE STOP BAR TYPE I FILM
14. EXISTING STRIPING TO REMAIN
15. EXISTING CENTERLINE RPMS TO REMAIN

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.01.02
3. SVZ NOTE PER USDCCA DWG #201.2: 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.
4. CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC OPERATIONS DIRECTLY AT 455-6000 TO SCHEDULE COUNTY STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO LOCATES. HOURS OF OPERATION: 6:30 AM – 3:00 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE WEST LINE OF THE SOUTHWEST QUARTER (SW¼) OF THE SOUTHEAST QUARTER (SE¼) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 115, PAGE 93 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK

BENCHMARK NUMBER: 1C90 3056
RIVET AND SQUARE ALUMINUM PLATE IN A 4' X 4' CONCRETE ELECTRIC PAD AT 9620 EL CAMPO GRANDE AVENUE. 30' NORTH AND 170' WEST OF GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.
ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM PER THE CLARK COUNTY VERTICAL CONTROL V.2003

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

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES

ELK RIDGE ESTATES I

TRAFFIC PLAN I

ST 30 / T 19S / R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

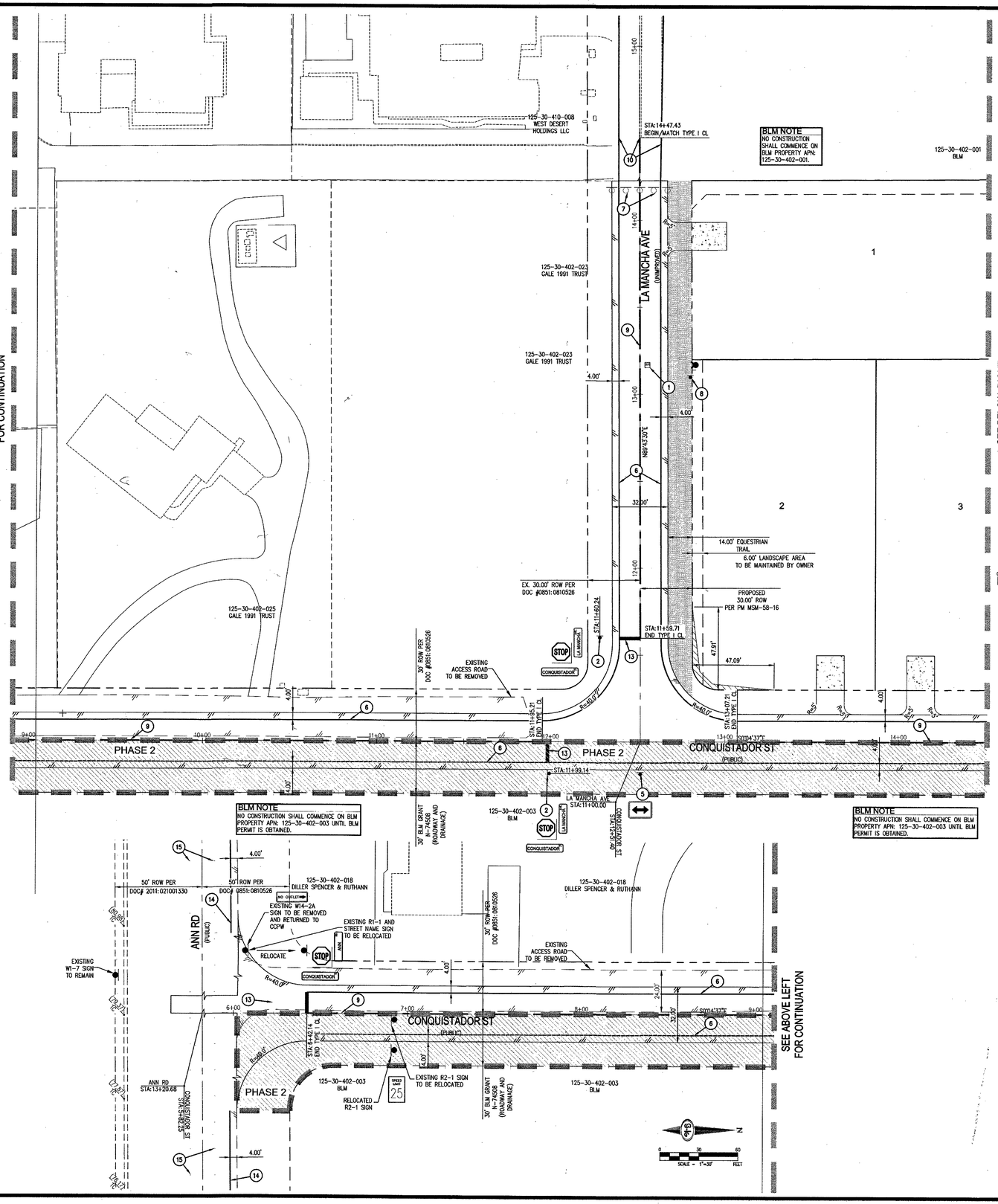
PROFESSIONAL ENGINEER STATE OF NEVADA — TODD J. STEADHAM — Exp. 06/30/2018 — CIVIL — No. 15299 — 4/17/17

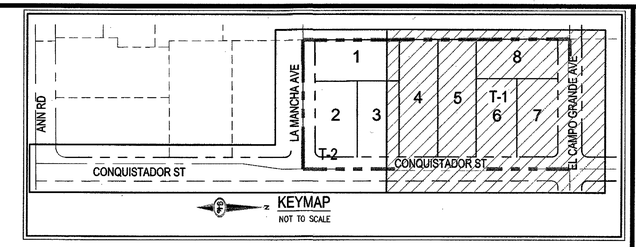
T-1
SHEET 14 OF 15

HTE #16-46686 | H#68923

3071V1126

J:\pin1602 elk ridge \dwg\improv\pin1602 trf.dwg 4/17/2017 3:10 PM Kevin Bross





INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES

--ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE, EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
--ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS

ACCEPTED

BY _____

ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TRAFFIC LEGEND

- MAIN ST — STREET NAME SIGN (D-3, 2 PER POLE) SIZE PER PLAN
- 9" STREET NAME SIGN (D-3, 2 PER POLE)
- STOP — STOP SIGN W/POST (R1-1) SIZE PER PLAN
- SPEED LIMIT 35 — 24"x30" SPEED LIMIT SIGN (R2-1A) (SPEED LIMIT PER PLAN)
- 48"x24" TWO DIRECTION LARGE ARROW SIGN (W1-7)
- 12"x36" OBJECT MARKER SIGN (OM3-R) (SPACE @ 35' O.C. MAX)
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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CLARK COUNTY, NV

PINNACLE HOMES
ELK RIDGE ESTATES I
TRAFFIC PLAN II

S 30 T 19 R 60E

DATE: 4/17/2017
DRAFTER: KMB
DESIGNER: KMB
CHECKED: TJS
PROJECT NO. PIN1602

PROFESSIONAL ENGINEER STATE OF NEVADA TODD J. STEADHAM Exp. 06/30/2018 CIVIL No. 15293 4/17/17

T-2
SHEET 15 OF 15

HTE#16-46686 | H#68923

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\pin1602 elk ridge \Cdwg\mpro\pin1602 trf.dwg 4/17/2017 3:10 PM Kevin Bross