

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 CITY 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 THE SAME AS SHOWN ON PLANS. THE CONTRACTOR, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SUCH UTILITIES. EXERCISE 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 SURFACES. ANY STRUCTURES 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 USED FOR SUMMERLIN DRAINAGE DATES, MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION. EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.

9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 216.35. 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 CITY WORK SHALL BE IN ACCORDANCE WITH THE SOILS REPORT AS PREPARED BY **WRIGHT ENGINEERS**, REPORT #16102, 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. FOR THE LAS VEGAS CITY, THE LOCATION OF THE SAWCUT LINES IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS. CITY OF LAS VEGAS 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 RELATIONS; 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 LIDS, AND OTHER MANHOLE OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN.

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 OPSITE INSPECTION AND TESTING CERTIFYING THAT THE 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 SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY UDOV 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 EXIST THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN ALIGNMENT AND LOCATION. THE LOCATION OF EACH FACILITY SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIVE IDENTIFICATION. THE LOCATION OF EACH FACILITY SHALL BE DESCRIBED BY 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 456 TO SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL LOCATION OF PUBLIC MANHOLES, STORM DRAIN MANHOLES, 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 EXIST THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN ALIGNMENT AND LOCATION. THE LOCATION OF EACH FACILITY SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIVE IDENTIFICATION. THE LOCATION OF EACH FACILITY SHALL BE DESCRIBED BY A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).~~

22. ACCEPTANCE OF FACILITY UDOV INSPECTION.

23. 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.

24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

LVMD PROJECT # 125650 (REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WORK PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVMD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVMD COMMUNICATIONS SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVMD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVMD STANDARD PLANS, 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 LVMD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVMD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE FILLED, DISPOSED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVMD CENTRAL STORES TELEPHONE 258-3152 OR 258-3502, 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 THE LVMD 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 LVMD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVMD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET CURBSIDE. ANY REPAIR WORK DONE BY THE LVMD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROXIMATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

1. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES.
2. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
3. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
4. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
5. SOLS REPORT PREPARED BY WRIGHT ENGINEERS, PROJECT NO. 171083, DATED 06/30/2017.
6. EARTHWORK QUANTITIES (RAW):
 - CUT = 15,270 CUBIC YARDS.
 - FILL = 15,416 CUBIC YARDS.
 - NET = 146 CUBIC YARDS FILL.

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 1 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.

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. REMOVAL OF THE STATUS OF COMPLETION OF PAYING 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 TEMPORARILY 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 SIGN POST 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, SIGN 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 EXCEPT AS NOTED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QL" FOR LED LUMINAIRES. QL CAN BE FOUND ONLINE AT [HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLICWORKS/PAGES/DEF/DEFAULT.ASPX](http://www.clarkcountynv.gov/publicworks/PAGES/DEF/DEFAULT.ASPX)
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT PRIOR TO ANY LOCATIONS PRIOR TO 48 HOURS PRIOR TO WORK 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.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE CURRENTLY ADOPTED EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.
2. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MAKE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 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 PERMITOR 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 507 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 MATERIALATION ON PROTECTIVE WATER TEST MUST BE PROVIDED AT TIME OF INSPECTION. SCHEDULE INSPECTION AT WWW.CLARKCOUNTYTN.GOV/DEVELOPMENT/STREETS/FIREPREVENTION
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 IN PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE DEPARTMENT.

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: 800-227-2860).
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 LINE 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 THESE DRAWINGS. CONTRACTORS TO DETERMINE THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY 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 CONDITION 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) 400-1789
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 EXCEPT 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 MAINTAINED AND DISTRIBUTED TO THE PUBLIC AS REQUIRED BY THE DIVISION OF HIGHWAYS OF 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 MIGHT-ENGINEERS, WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.
18. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD AND UNDERGROUND INTERFERENCES AND SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL UTILITIES DAMAGED BY THE STATE. ANY DAMAGE TO FACILITIES, EQUIPMENT OR PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
19. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
20. THE CONTRACTOR SHALL APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
21. THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL WATERLINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT.
22. UTILITY COMPANY WATER BOWLS, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS/ DRIVEWAY APRONS, FLOWLINES, AND VALLEY GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY.
23. TYPE V CEMENT SHALL BE USED IN ALL CONCRETE WORK.
24. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DESTROYED OR DAMAGED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE. 455-4610. YOUR PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT UNES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY CURB AND GUTTER JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE CURB (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR THE COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISIONS REQUIRED FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "OPL" FOR LED LUMINAIRES. OPL CAN BE FOUND ONLINE AT WWW.CLARKCOUNTY.NV.GOV/PDWCWORKS/PAGES/DEFAULT.ASPX
6. PRIVATE STREETS, CURB AND GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATION WITH THE DEPARTMENT OF PUBLIC WORKS OFF-SITE INSPECTOR AT 702-455-4610.
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10') OF ANY TRAVEL-WAY. EXCEPT WHEN WORK IS IN ACTUAL PROGRESS, AREAS COVERED BY APPROVED STEEL PLATE ARE NOT TO BE USED AS A TRENCH. A TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICHEVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY BEFORE THE BACKFILL IN THE TRENCH IS BEEN COATED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC. IT IS TO BE MAINTAINED UNTIL THE PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY BE HARMFUL TO THE ENVIRONMENT OR THE STORM SEWER SYSTEM. SUCH DEBRIS SHALL BE REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION OF THE STORM SEWER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NAVAJO STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV1000000, SECTION II.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLES TRAVELING ON NEARBY ROADS, AND ALL BMP DEVICES. AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE, THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY. SUCH EXCEPTIONS SHALL BE SPECIFICALLY REFERRED TO IN THE NAVAJO STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV1000000, SECTION II.A.12.
5. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNDERGROUND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-STREET. IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SD-35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL TO TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COATINGS, STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF IN EXISTING CURB CUTS TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVMSD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") ABOVE A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "C" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF AN INCH FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

4 / *JISHADI*
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE
DATE 7/18/18 PROJECT No. 125650

Tan On
SOUTHWEST GAS CORPORATION

THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS OF ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OF OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

FAST

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

18-10396

PROJ#:125650 AGREE:#116750 QS:138-05-SE

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 BERM, 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	
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QUANTITIES		PRIVATE	PUBLIC	
DRAINAGE				
1.	4.0" TYPE "C" DROP INLET	EA	-	1
2.	18" RCP CLASS III STORM DRAIN	LF	-	105
3.	8" WIDE CONCRETE VALLEY GUTTER W/10" TYPE I AGGREGATE BASE	SF	606	809
4.	SIDEWALK UNDER DRAIN	SF	-	1
5.	10.0" TYPE "C" DROP INLET	EA	-	1
6.	48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE	EA	-	2
SEWER SYSTEM				
1.	4" PVC SEWER LATERAL (PRIVATE)	LF	656	-
2.	8" PVC SEWER PIPE (PUBLIC)	LF	-	774
3.	STANDARD 48" SEWER MANHOLE (PUBLIC)	EA	-	4
4.	BACK WATER VALVE (PRIVATE)	EA	11	-
5.	8" C-900 SEWER PIPE (PUBLIC)	LF	-	310
WATER SYSTEM				
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	-	3
2.	FIRE HYDRANT ASSEMBLY W/8" GATE VALVE PER UDACS PLATE NO. 40	EA	-	1
3.	8" PVC WATER PIPE (CLASS 150)	LF	-	350
4.	10" PVC WATER PIPE (CLASS 150)	LF	-	580
5.	12" PVC WATER PIPE (CLASS 150)	LF	-	2,880
6.	6" PVC WATER PIPE (CLASS 150)	LF	-	410
7.	8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	-	2
8.	10" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	-	2
9.	12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	-	9
10.	10" X 6" TEE PER UDACS PLATE NO. 31	EA	-	1
11.	10" X 8" TEE PER UDACS PLATE NO. 31	EA	-	1
12.	8" X 6" TEE PER UDACS PLATE NO. 31	EA	-	1
13.	12" X 6" TEE PER UDACS PLATE NO. 31	EA	-	1
14.	12" X 8" TEE PER UDACS PLATE NO. 31	EA	-	1
15.	10" X 10" TEE PER UDACS PLATE NO. 31	EA	-	1
16.	12" X 12" TEE PER UDACS PLATE NO. 31	EA	-	1
17.	12" X 12" CROSS PER UDACS PLATE NO. 31	EA	-	2
18.	12" X 12" TAPPING SLEEVE PER UDACS PLATE NO. 34	EA	-	1
19.	12" 22.5 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	2
20.	6" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	1
21.	10" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	2
22.	12" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	5
23.	12" 11.25 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	2
24.	CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	-	7
25.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 3	EA	-	22
STREET IMPROVEMENTS				
1.	2" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	5,235	-
2.	3" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	-	1,940
3.	STANDARD 18" TYPE "L" ISLAND CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	-	670
4.	STANDARD 8" TYPE "A" ISLAND CURB W/6" TYPE I AGGREGATE BASE	LF	-	145
5.	STANDARD 30" TYPE "ROLL" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	-	2,435
6.	5' WIDE CONCRETE SIDEWALK W/4" TYPE II AGGREGATE BASE	SF	3,290	530
7.	5" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	-	595
TRAFFIC SIGNALS				
1.	30" STOP SIGN WITH POST (R1-1)	EA	3	-
2.	9" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6 POLES X 2 PER POLE=12)	EA	6	-
3.	36" STOP SIGN WITH POST (R1-1)	EA	-	1
4.	12" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6 POLES X 2 PER POLE=12)	EA	-	2
5.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	-	4
6.	4" WIDE WHITE PAINTED LINE	LF	-	1,502
7.	6" WIDE WHITE PAINTED LINE	LF	-	597
8.	SURVEY MONUMENTS	EA	-	2
DRY UTILITIES				
1.	LED STREETLIGHT "OPL" FOR 60' ROW PER CCAUSD NO. 300.53, 314, 320, & 321	EA	-	2
2.	LED STREETLIGHT "OPL" FOR 100' ROW PER CCAUSD NO. 300.53, 314, 320, & 321	EA	-	3
3.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	-	588
4.	NO. 3-1/2 PULL BOX W/METAL COVER	EA	-	1
5.	200 AMP SERVICE PEDESTAL (SILT)	EA	-	1

CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

QUANTITIES AND ABBREVIATIONS

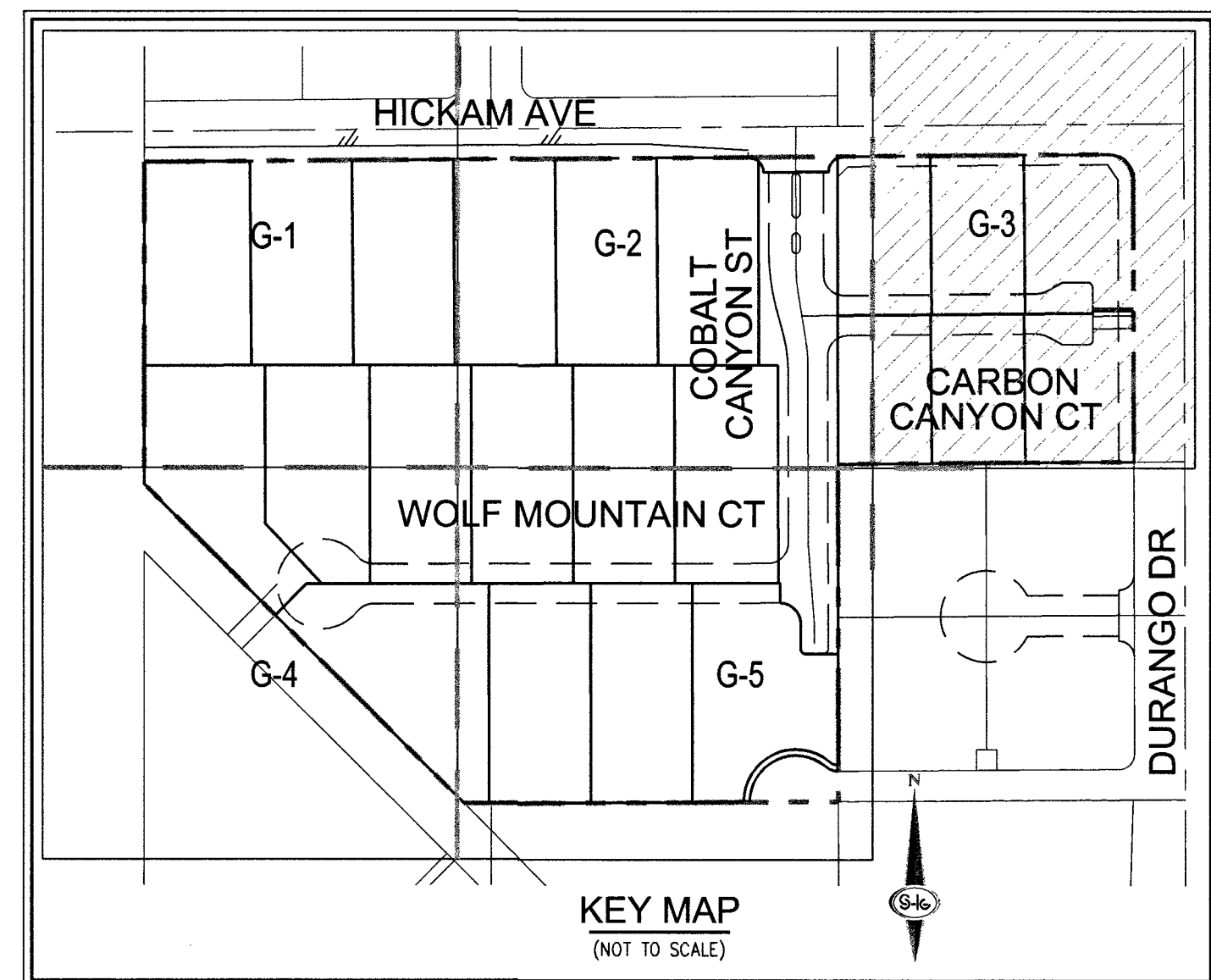
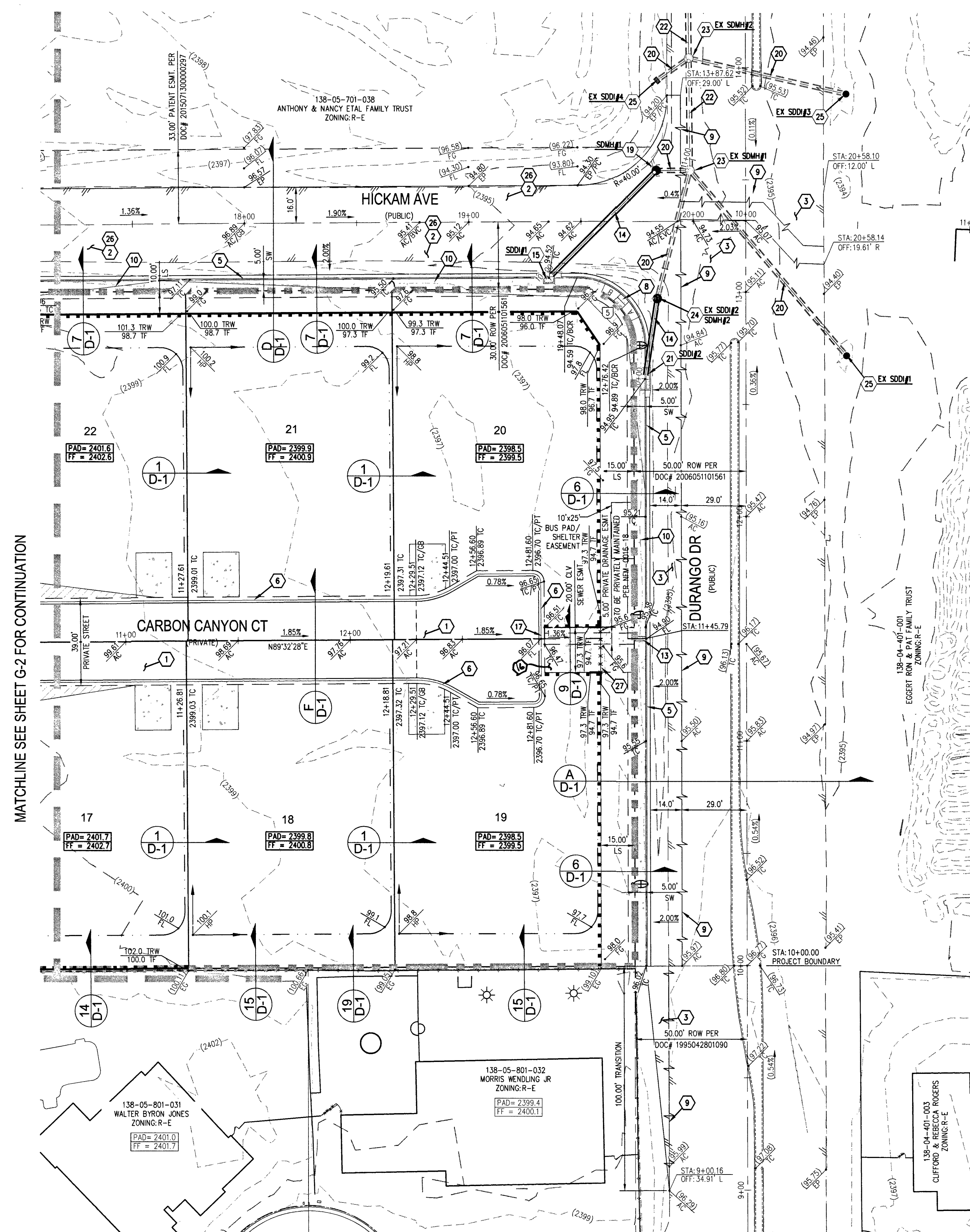
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AVOID CUTTING UNDERGROUND
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Call
811
OR
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C-3
SHEET 3 OF 3

3072430-4



RAMP NUMBER	GRADE (%) "B" TO "A"	"A" (FT) MIN.	"B" (FT) MIN.
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND

SYMBOL	DESCRIPTION
	ROADWAY CENTERLINE
	RIGHT-OF-WAY
	PROPERTY LINE
	CURB AND GUTTER
	EXISTING CURB AND GUTTER
	FLOWLINE
	EDGE OF PAVEMENT (EP)
	EXISTING EDGE OF PAVEMENT
	SAWNOT LINE PER CCAUSD NO. 503
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DESIGN SLOPE IN VERTICAL CURVE
	EXISTING CONTOUR (5-FIT)
	EXISTING CONTOUR (1-FIT)
	CUT/FILL TRANSITION LINE
	FIRE HYDRANT ASSEMBLY
	SIGHT VISIBILITY ZONE
	RETAINING WALL
	DECORATIVE PERMETER WALL
	DECORATIVE PERMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN
APPROVED LICENSED DISPOSAL FACILITY OR AT A
WITH AN APPROVED AND ACTIVE GRADING PERMIT.

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.	FEMA FLOOD ZONE INFORMATION
	THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

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 UTILITIES UNDERGROUND 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 TO CROWN LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LINE OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

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.

CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING 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/REPLENISH FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.

9. NO STRUCTURE, VENTILATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) FEET OR MORE (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR CONSTRUCTION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

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 DRAINAGE STUDY HTE#17-41829 ON FILE AT CLARK COUNTY FOR THE SUBJECT PROJECT.	
 KEVIN M. BROSS, PE 24572	 7/2/18 DATE

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

CLARK COUNTY, NEVADA	NO.	DESCRIPTION

PINNACLE HOMES

DATE:	03/26/18
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DRAFTER: EMH

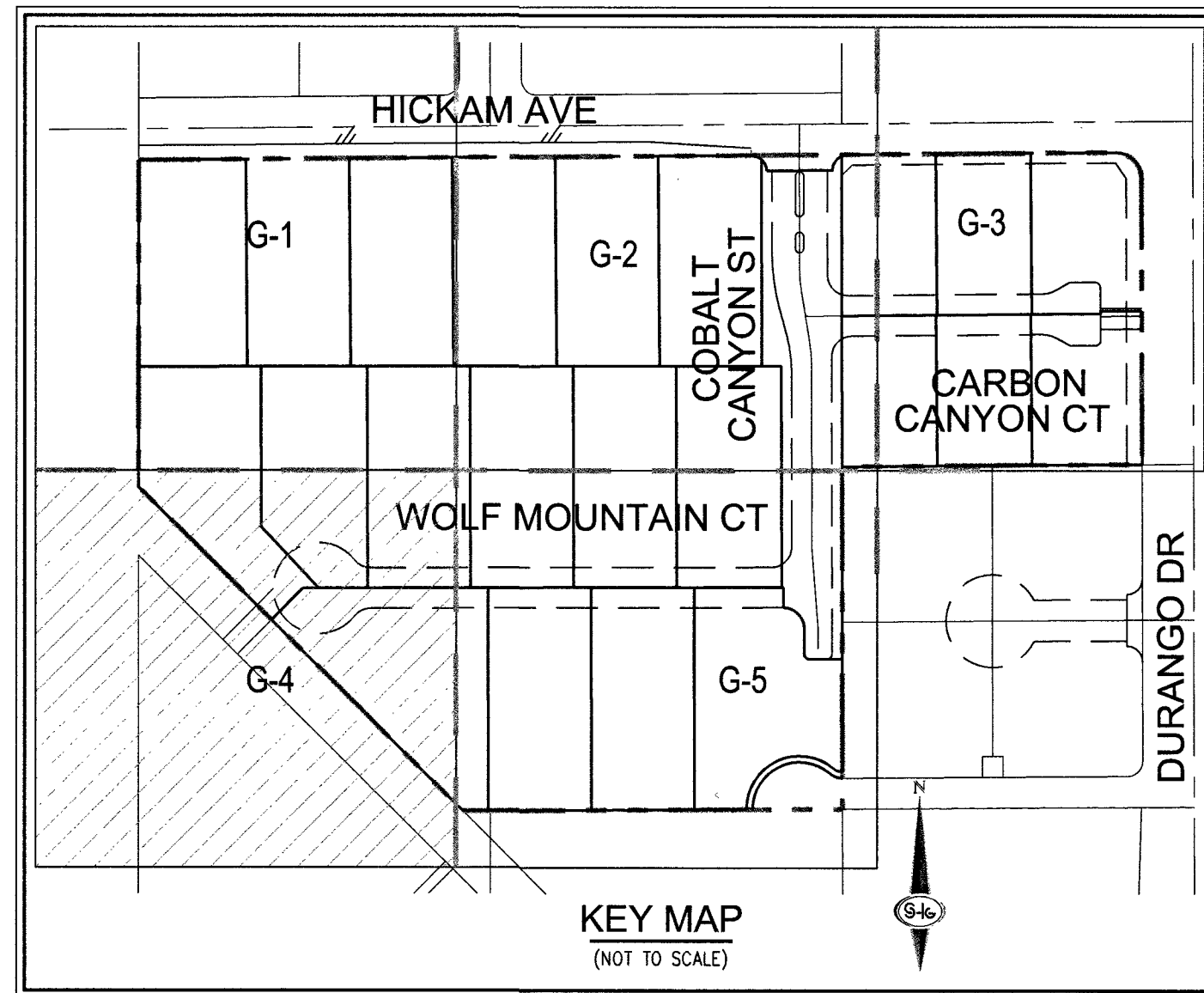
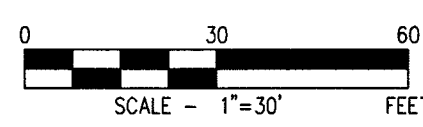
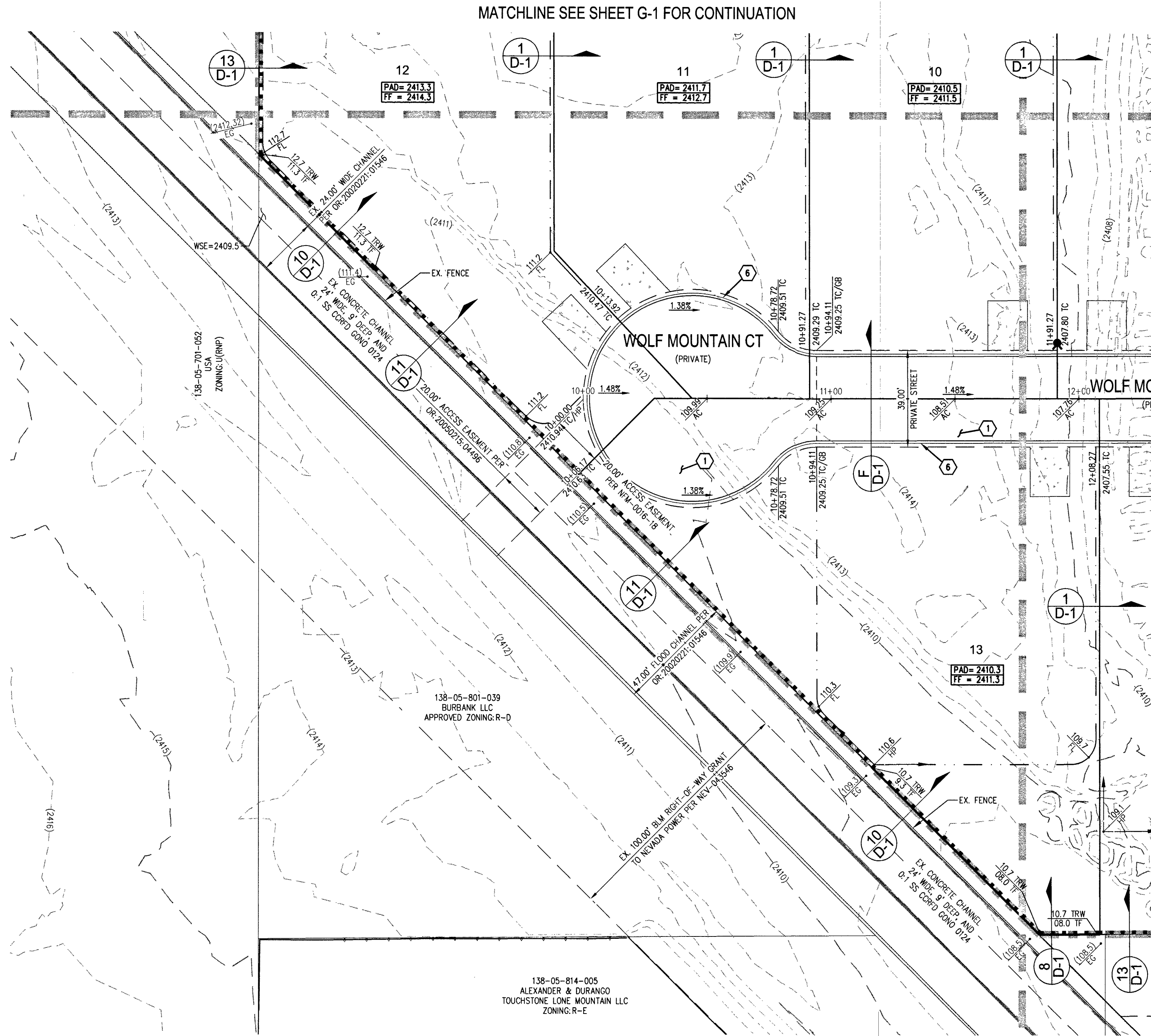
DESIGNER: EMH

PROJECT NO.
PIN1702



G-3
SHEET 6 OF 35
18-10396
L18-00094

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CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES.

SIDEWALK RAMP TABLE			
RAMP NUMBER	GRADE (%)	"A" (FT) MIN.	"B" (FT) MIN.
(1)	-6 TO -5.01	4.5	21.5
(2)	-5 TO -4.01	4.5	15.0
(3)	-4 TO -3.01	4.5	12.0
(4)	-3 TO -2.01	4.5	9.5
(5)	-2 TO -1	8.0	8.0
(6)	2.01 TO 3	9.5	4.5
(7)	3.01 TO 4	12.0	4.5
(8)	4.01 TO 5	15.0	4.5
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	RIGHT-OF-WAY
	PROPERTY LINE
	CURB AND GUTTER
	EXISTING CURB AND GUTTER
	FLOWLINE
	EDGE OF PAVEMENT (EP)
	EXISTING EDGE OF PAVEMENT
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	EXISTING ELEVATION
	DESIGN SLOPE IN VERTICAL CURVE
	EXISTING CONTOUR (5-FT)
	EXISTING CONTOUR (1-FT)
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	SIGHT VISIBILITY ZONE
	RETAINING WALL
	DECORATIVE PERIMETER WALL
	DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SOILS REPORT
SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

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FILL= 15,416 CU YDS

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
Call before you dig
OVERHEAD
1-702-227-2929

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

CONSTRUCTION NOTES

- INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL A TYPE CURB PER CCAUSD NO. 219
- INSTALL L TYPE CURB PER CCAUSD NO. 216
- INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217
- INSTALL 10" CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
- CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1 & 235.1 AND DETAIL 33 ON SHEET D-2
- SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4, & 500.5
- INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
- INSTALL VALLEY GUTTER PER CCAUSD NO. 228
- INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
- INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
- INSTALL 18" CLASS III RCP STORM DRAIN
- INSTALL 4" TYPE "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
- 4" CONCRETE OVER 5" TYPE II AGGREGATE BASE
- INSTALL DEPRESSED CURB PER DETAIL 32 ON SHEET D-2
- CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW
- REMOVE EXISTING SOI PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- EXISTING 18" RCP CLASS III STORM DRAIN
- INSTALL 10" TYPE "CM2" STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
- EXISTING 24" CLASS III RCP STORM DRAIN
- EXISTING 48" STORM DRAIN MANHOLE
- REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- EXISTING AREA DRAIN TO REMAIN
- REMOVE EXISTING AC
- INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: QLV00 45W06
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREIN IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN). PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.

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.
- FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING NOTES

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

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 DRAINAGE STUDY H1E717-11829 ON FILE AT CLARK COUNTY FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, PE 24572
DATE 7/6/18

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

CLARK COUNTY, NEVADA

PINNACLE HOMES
ELK RIDGE ESTATES IV
GRADING PLAN IV

DATE: 03/26/18

DRAFTER: EMH

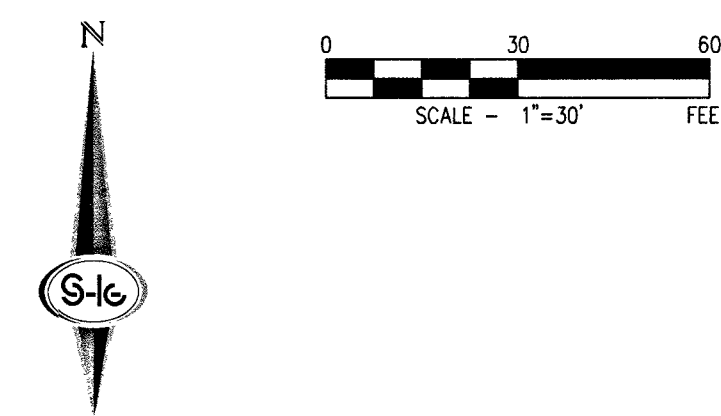
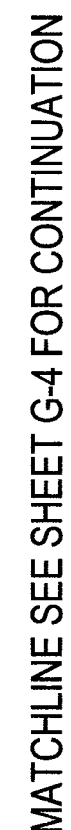
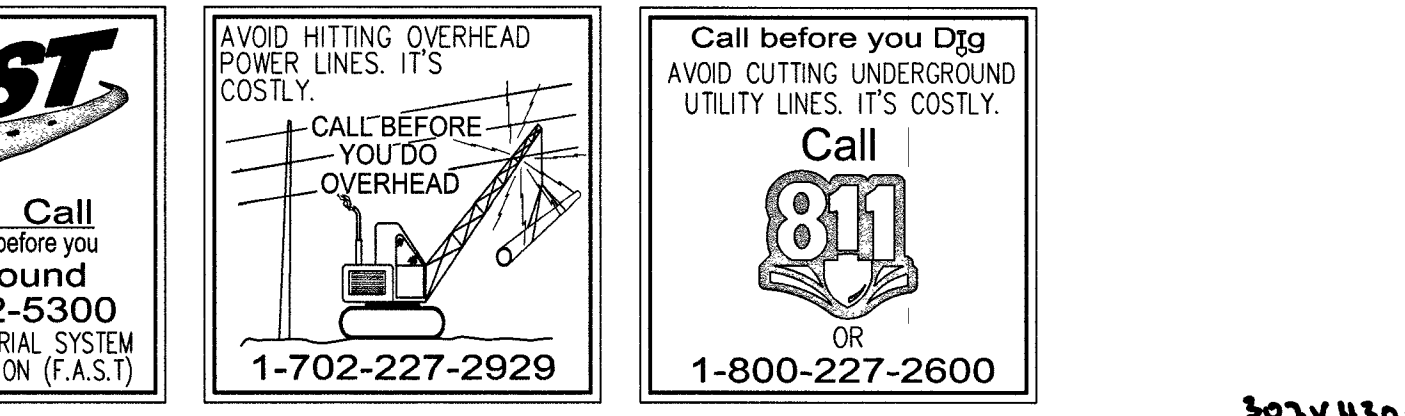
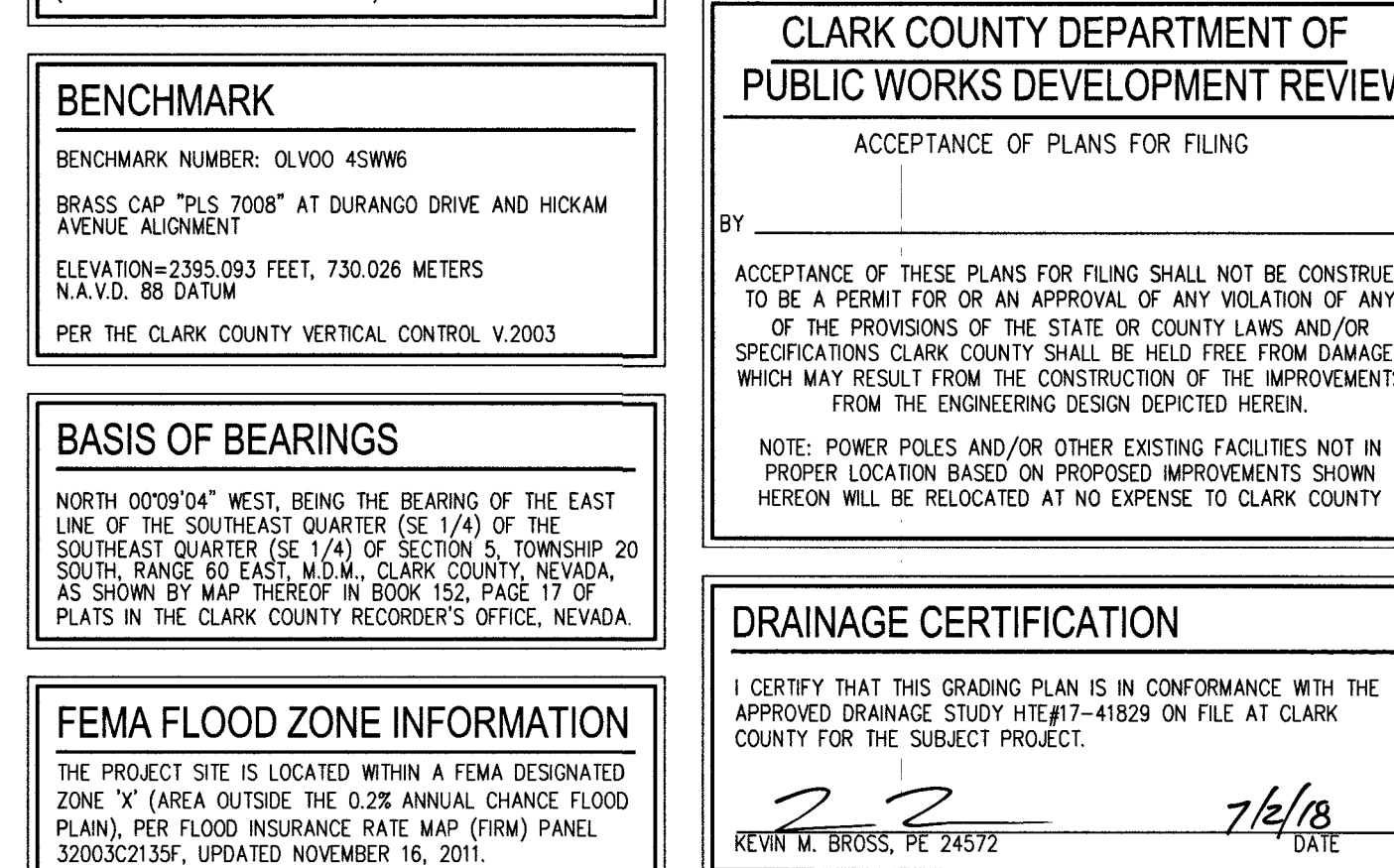
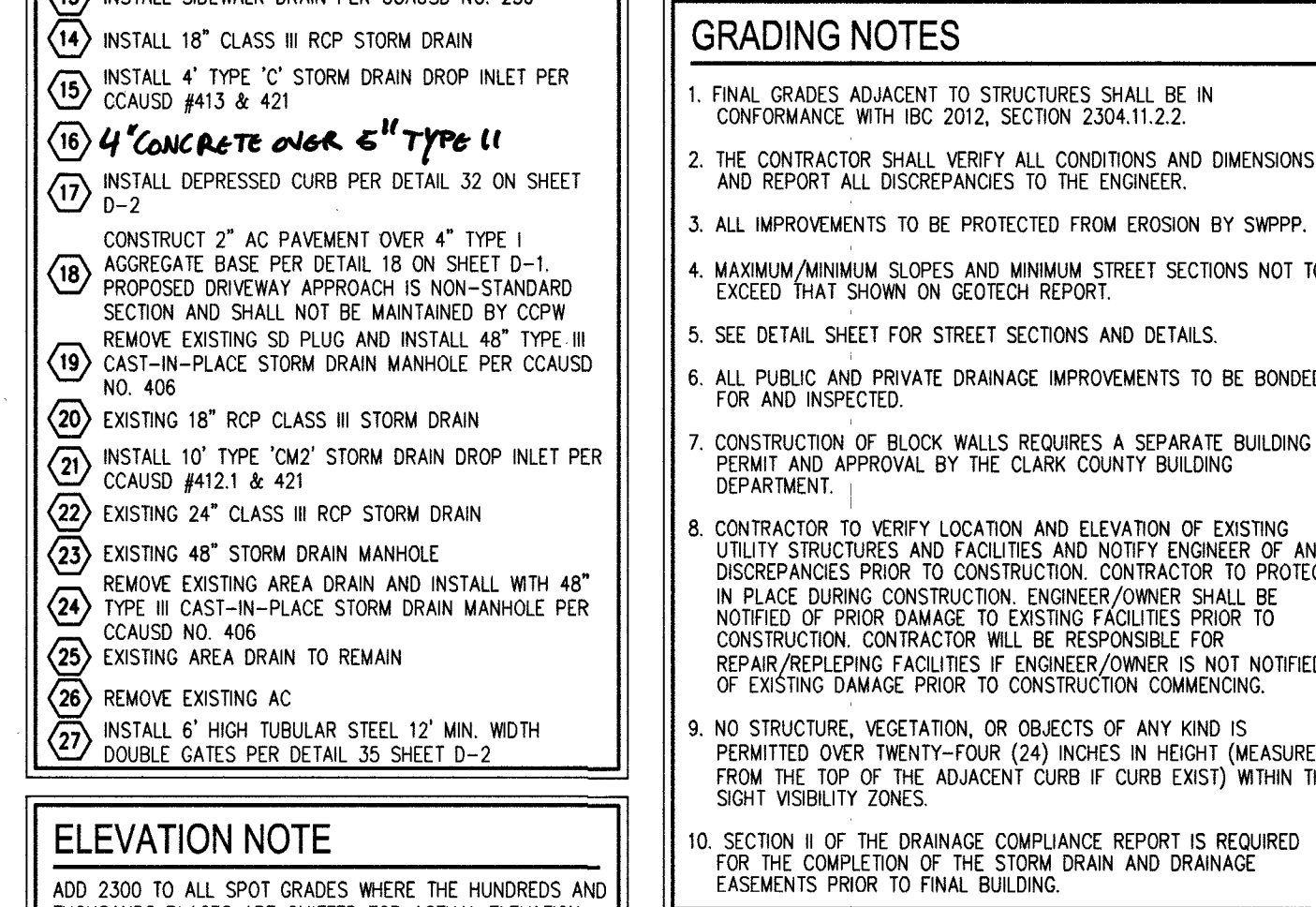
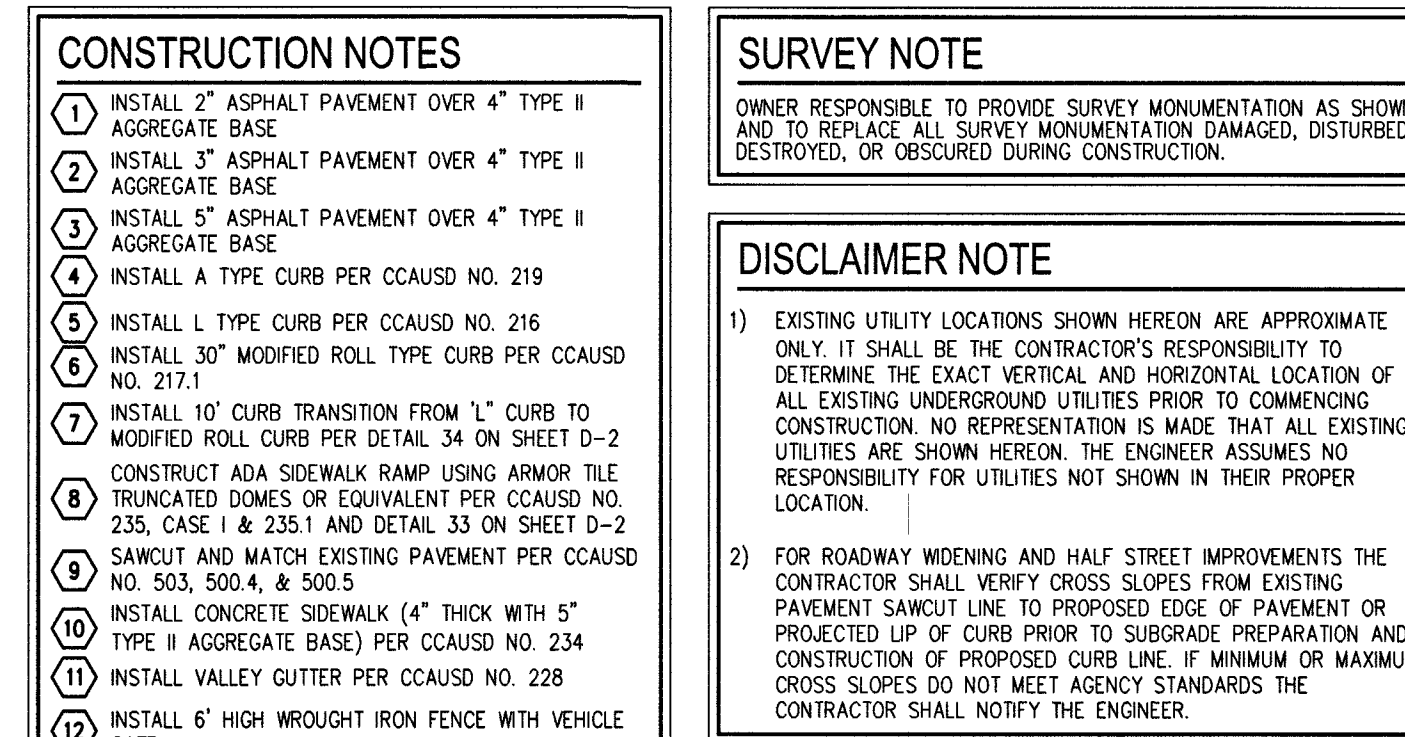
DESIGNER: EMH

CHECKED: KMB

PROJECT NO.
PIN1702

PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2018
CIVIL
No. 24572
7/6/18

G-4
SHEET 7 OF 35
18-10396
L18-00094



RAMP NUMBER	GRADE (%) "B" TO "A"	"A" (FT) MIN.	"B" (FT) MIN.
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ROADWAY CENTERLINE		EXISTING CONTOUR (1-FT)
	RIGHT-OF-WAY		CUT/FILL TRANSITION LINE
	PROPERTY LINE		FIRE HYDRANT ASSEMBLY
	CURB AND GUTTER		SIGHT VISIBILITY ZONE
	EXISTING CURB AND GUTTER		RETAINING WALL
	FLOWLINE		DECORATIVE PERIMETER WALL
	EDGE OF PAVEMENT (EP)		DECORATIVE PERIMETER RETAINING WALL
	EXISTING EDGE OF PAVEMENT		
	SAWTOOTH LINE PER CALSSD NO. 503		
	PROPOSED ELEVATION		
	EXISTING ELEVATION		
	DESIGN SLOPE IN VERTICAL CURVE		
	EXISTING CONTOUR (5-FT)		
	EXISTING CONTOUR (1-FT)		
	CUT/FILL TRANSITION LINE		
	FIRE HYDRANT ASSEMBLY		
	SIGHT VISIBILITY ZONE		
	RETAINING WALL		
	DECORATIVE PERIMETER WALL		
	DECORATIVE PERIMETER RETAINING WALL		

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN
APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE
WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE
 PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD
 SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

LEGAL DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST FACILITIES CORPORATION MAKES NO WARRANTIES OR GUARANTEES. SOUTHWEST FACILITIES CORPORATION DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, OR TIMELINESS OF ANY LOSS OR DAMAGE INCURRED BY ANY USER FROM THE USE OF THE INFORMATION ON THE DATA PROVIDED. THE LOCATION AND DEPTH OF ANY FACILITIES SHOWN ON THIS MAP COULD NOT BE VERIFIED.

CONSTRUCTION NOTES

- 1 INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 2 INSTALL 3" ASPHALT PAVEMENT OVER TYPE II AGGREGATE BASE
- 3 INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 4 INSTALL A TYPE CURB PER CCAUSD NO. 219
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- 17 INSTALL DEPRESSURED CURB PER DETAIL 32 ON SHEET D-2
- 18 CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROX 18' NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY COWF
- 19 EXISTING 30" PLUG AND INSTALL TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 20 EXISTING 18" RCP CLASS III STORM DRAIN
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- 24 REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 25 EXISTING AREA DRAIN TO REMAIN
- 26 REMOVE EXISTING AC
- 27 INSTALL 6' HIGH TUBULAR STEEL 12' MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE
 ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION
 (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: OLVOO 4SWW6

BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
AVENUE ALIGNMENT

ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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GRADING NOTES

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9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN STREET RIGHT-OF-WAY ZONES.
10. SECTION 8 OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

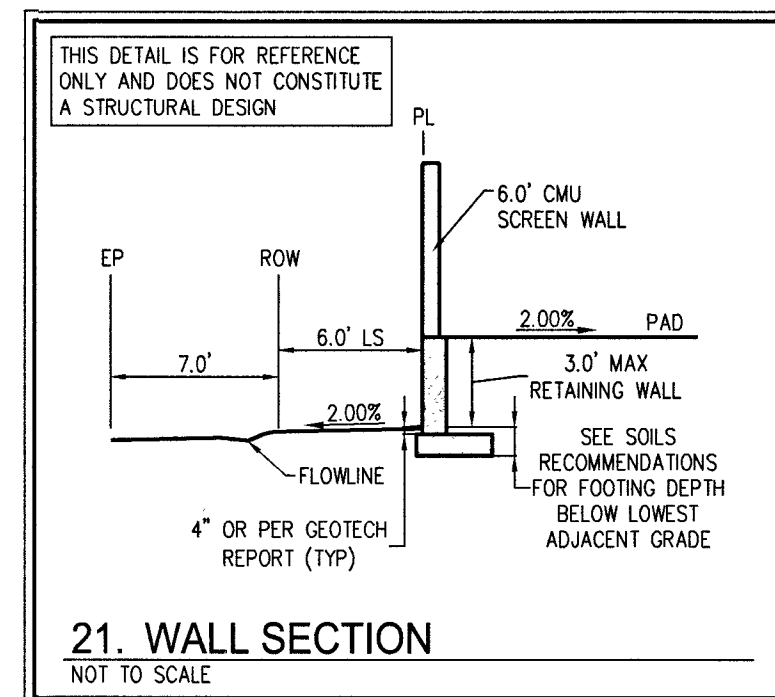
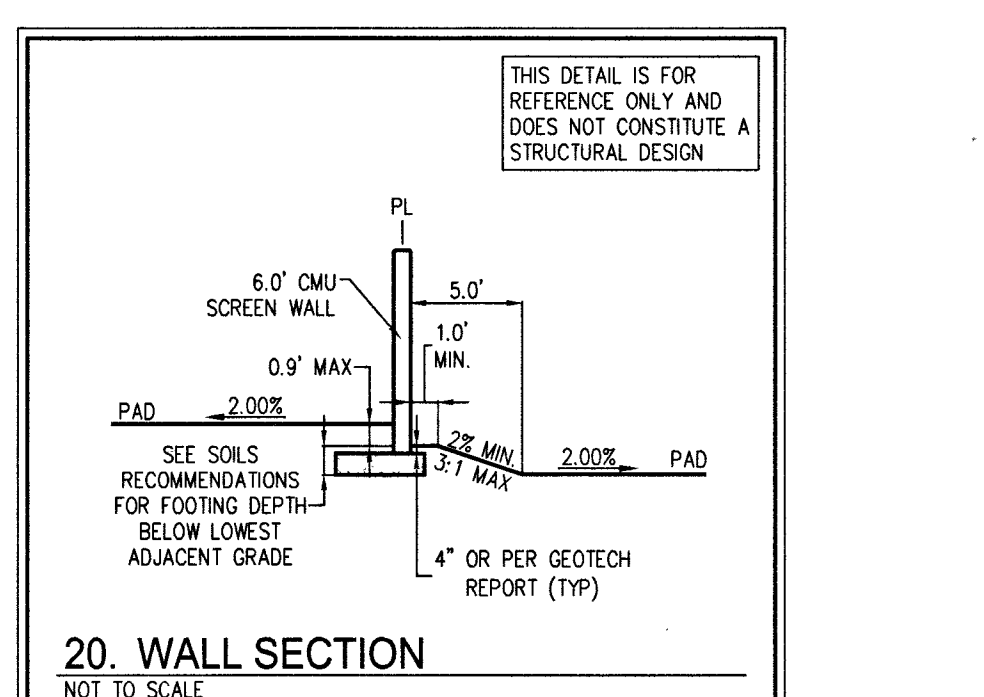
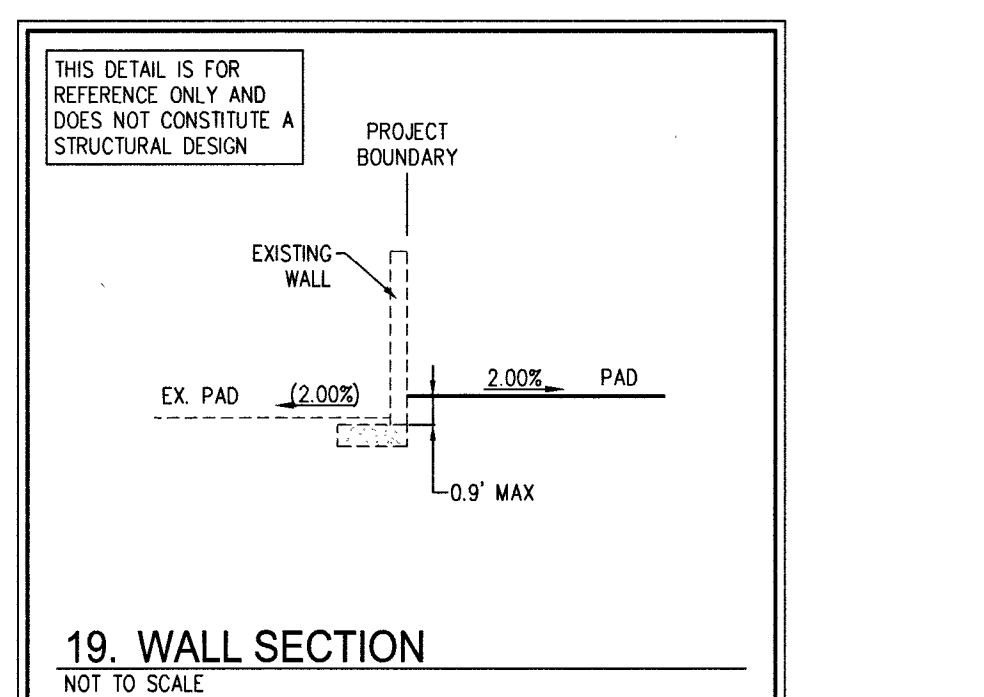
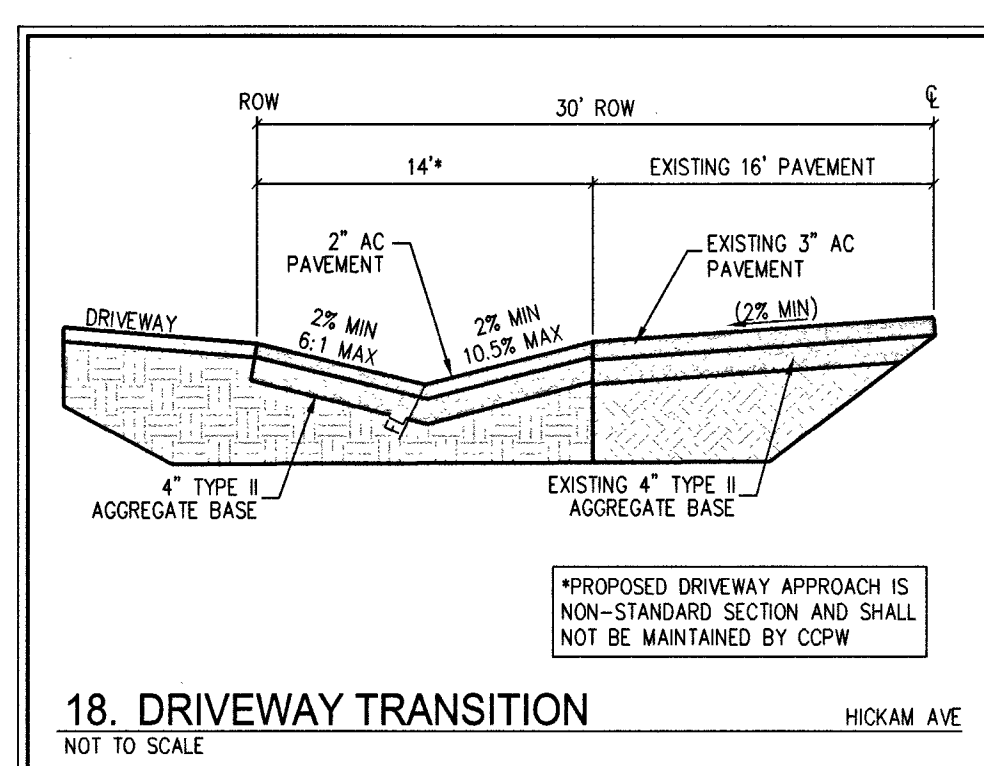
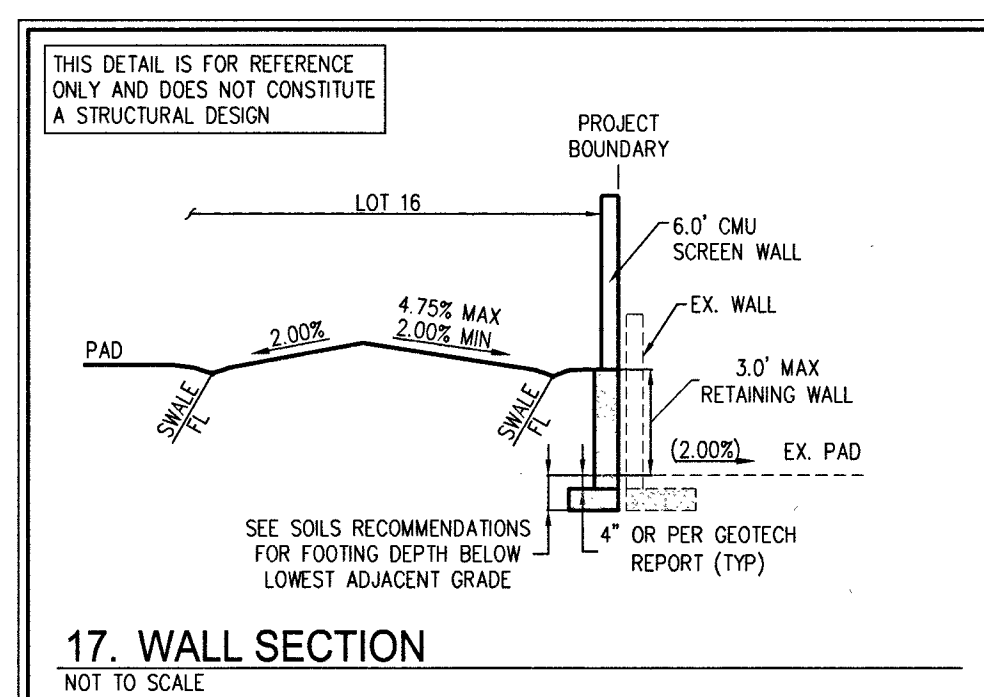
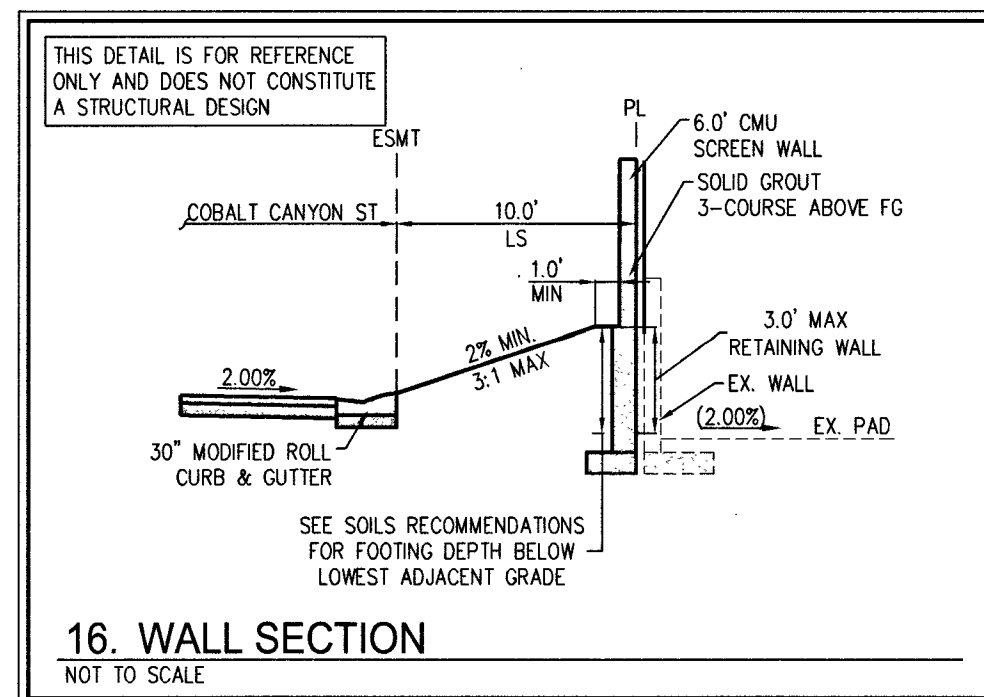
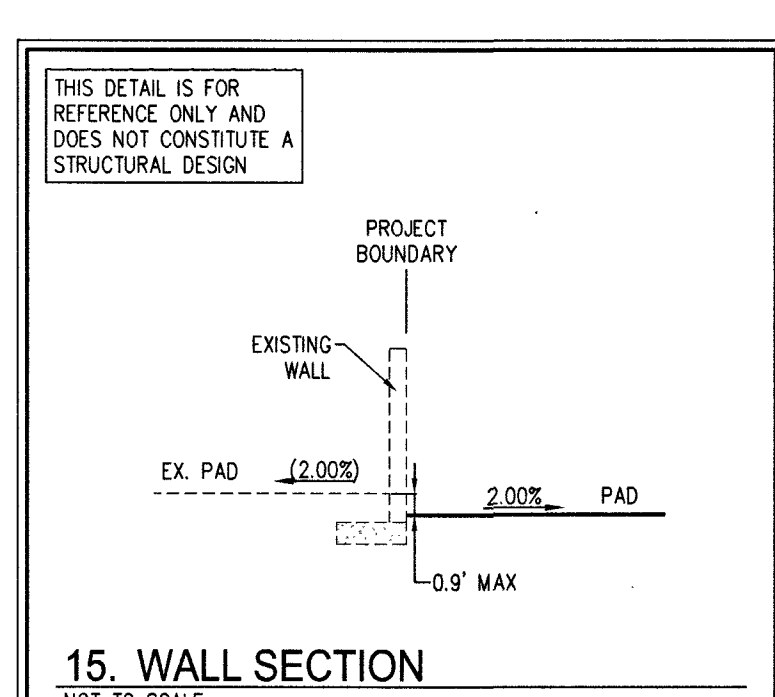
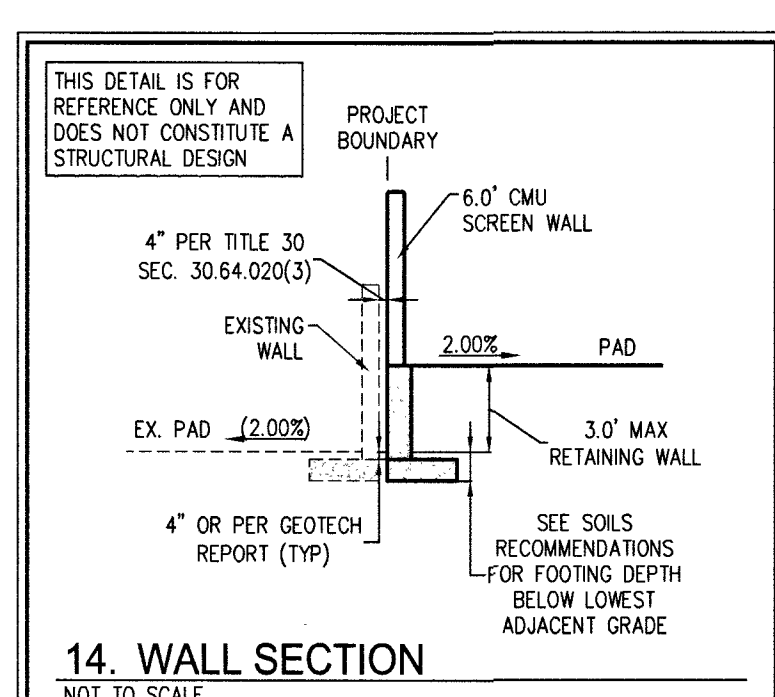
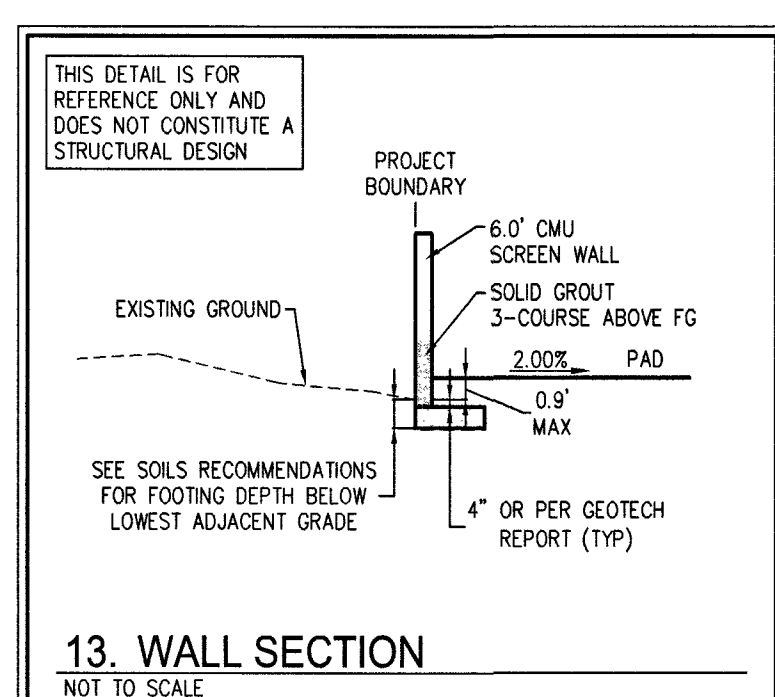
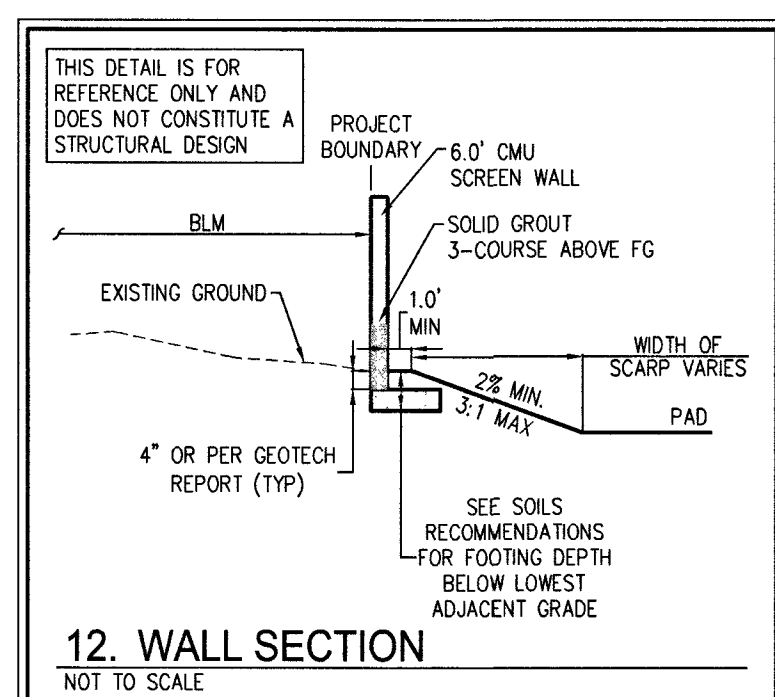
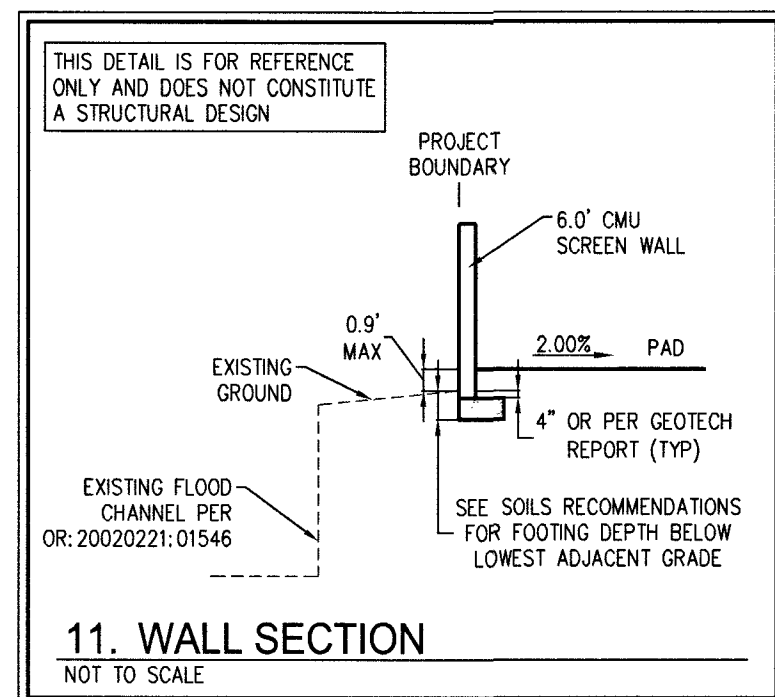
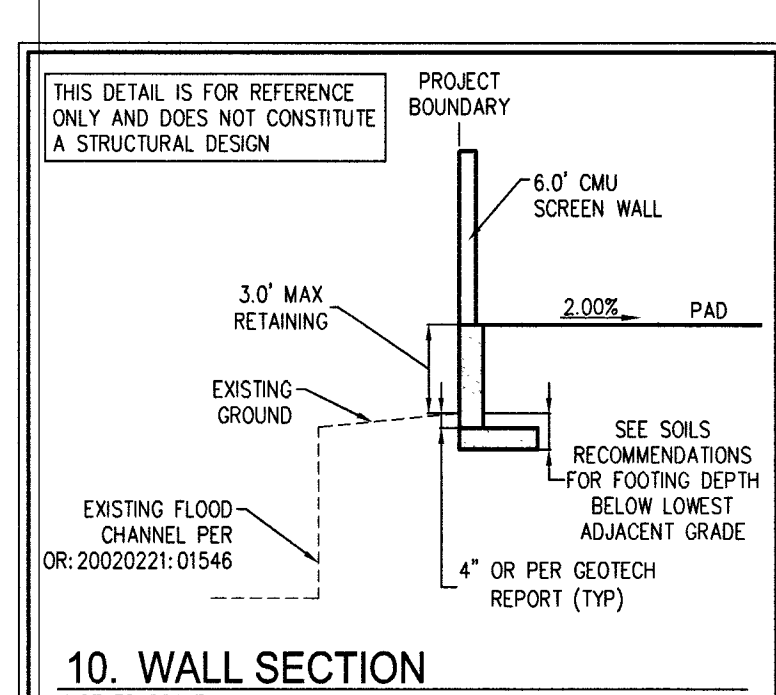
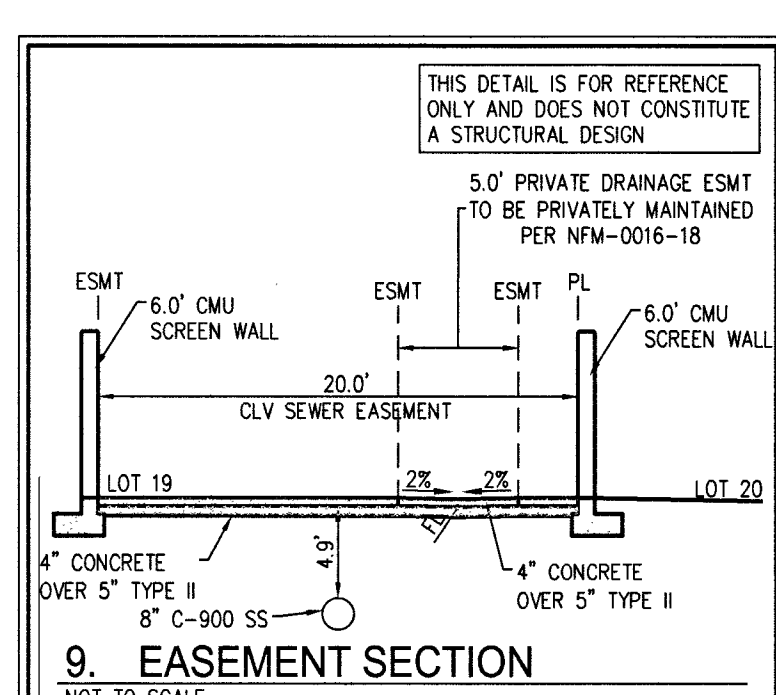
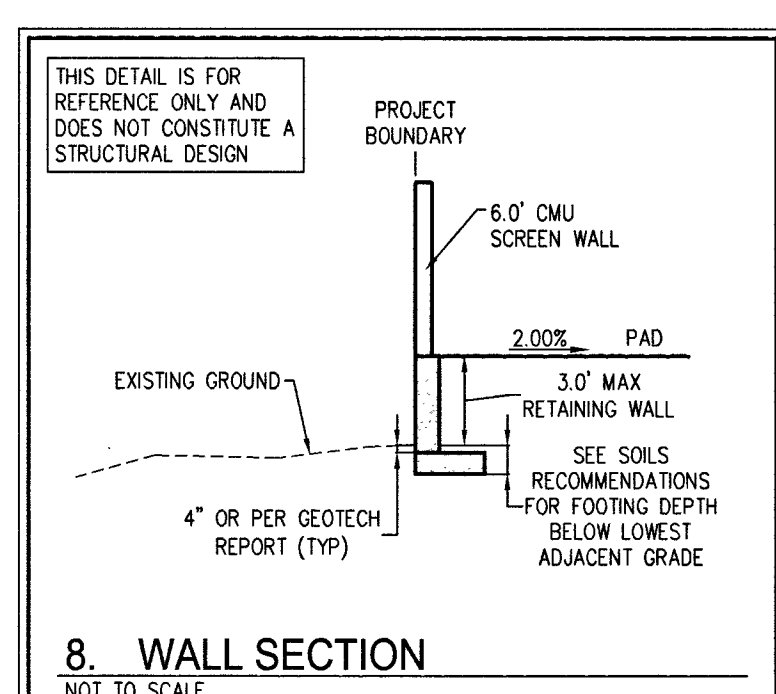
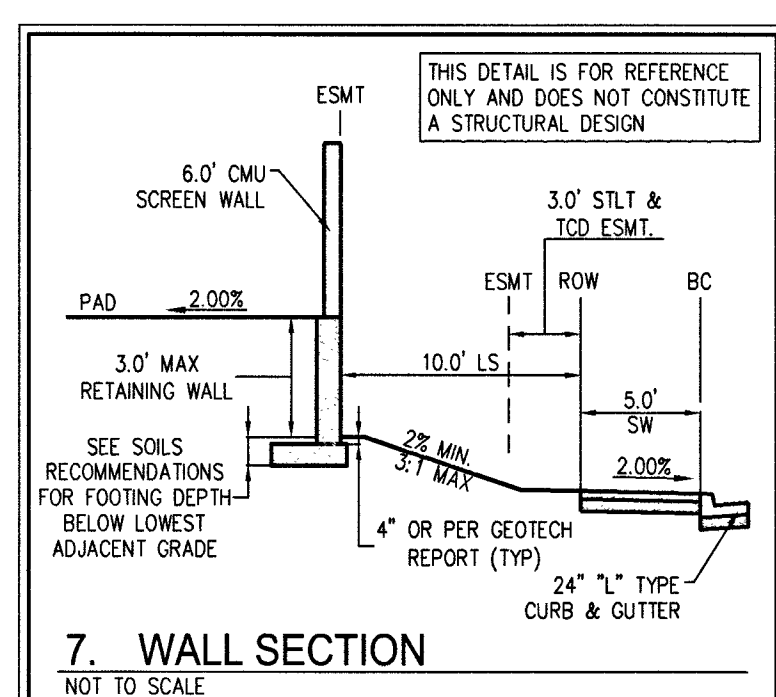
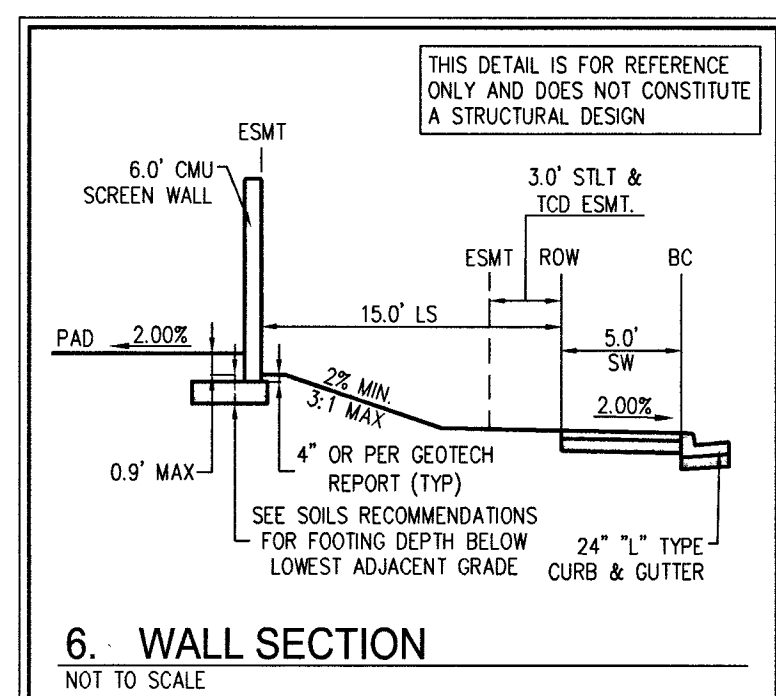
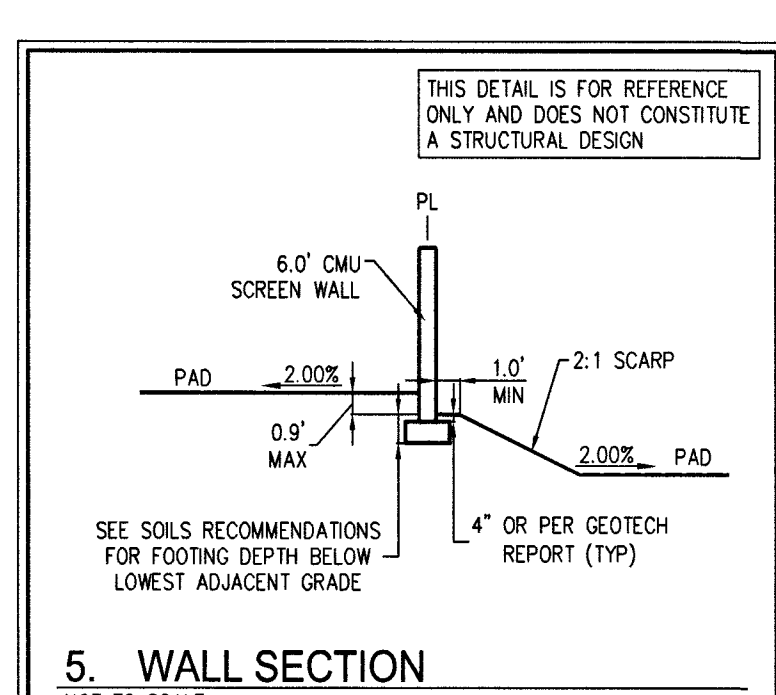
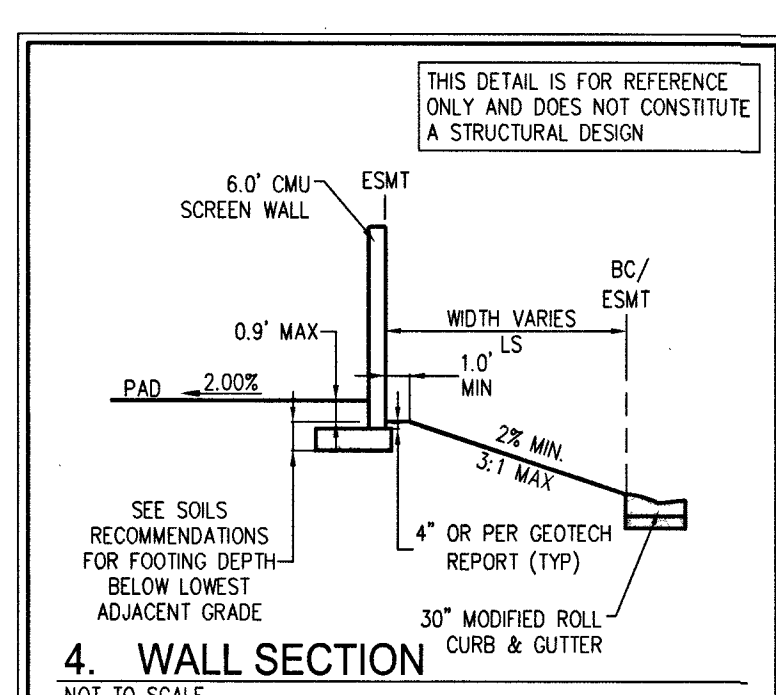
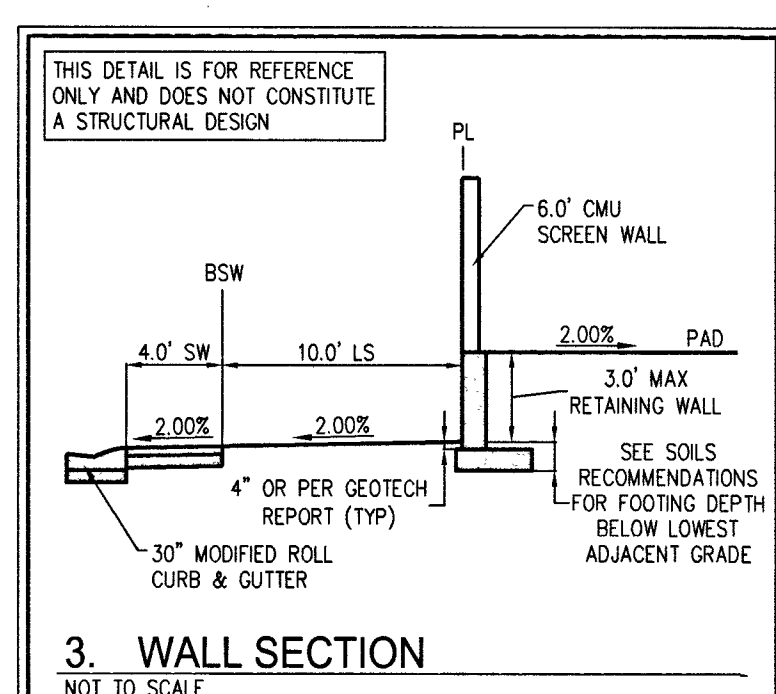
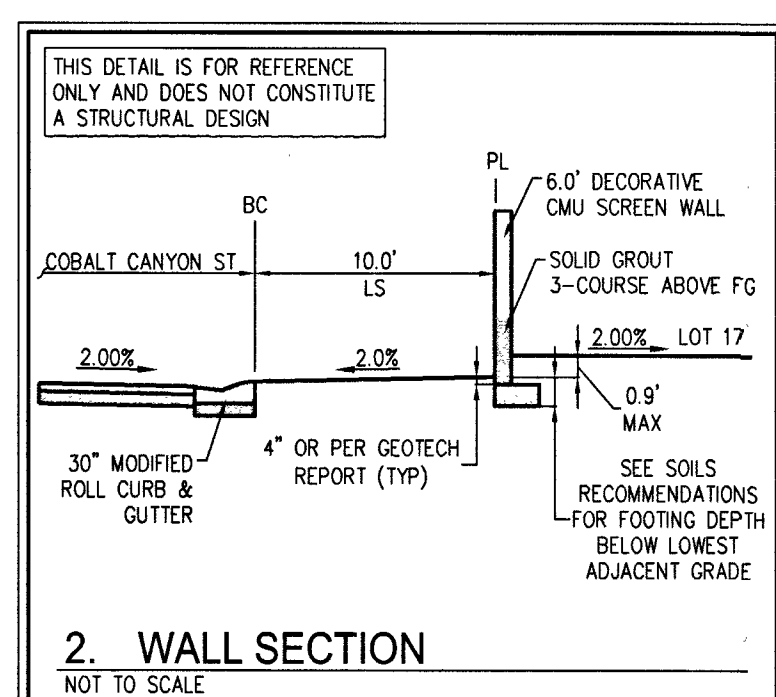
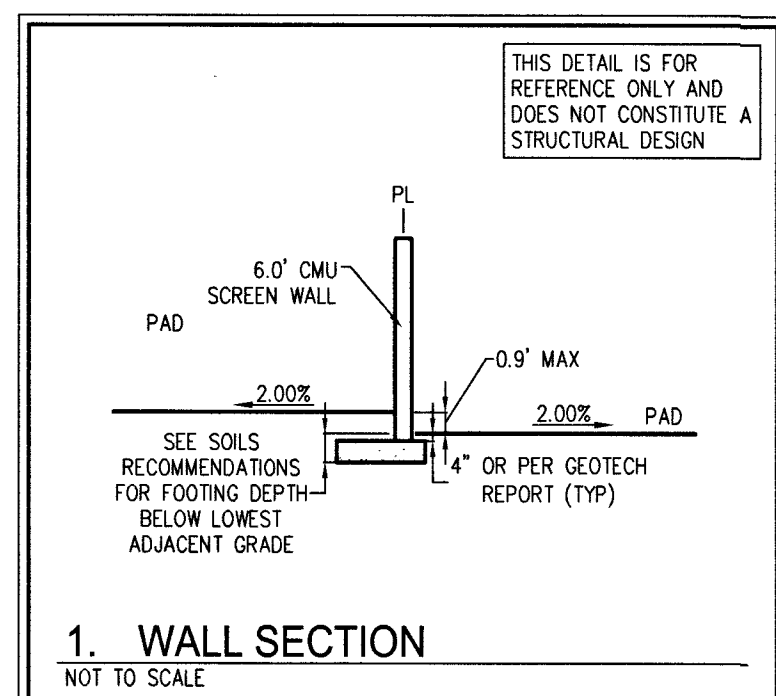
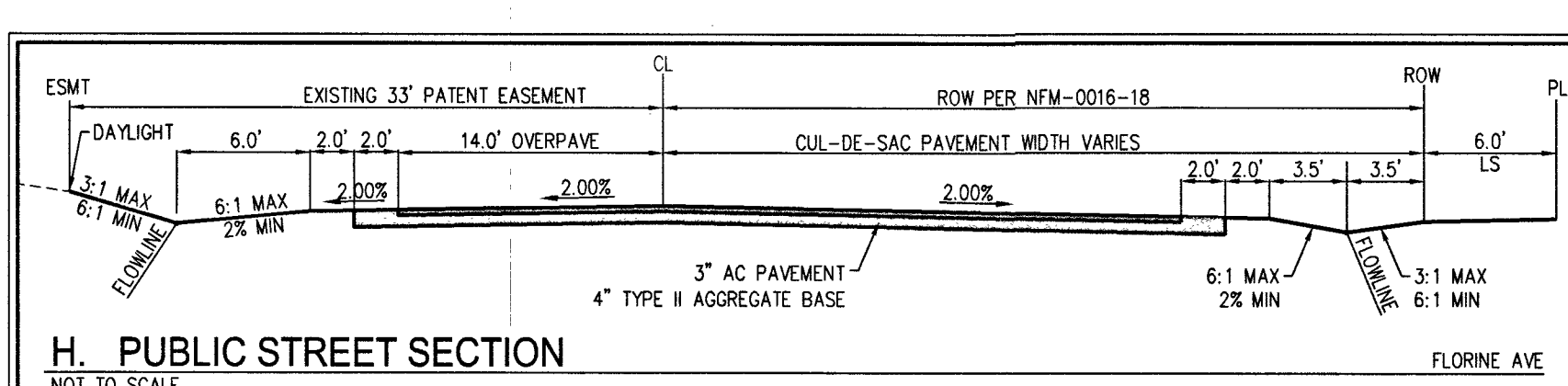
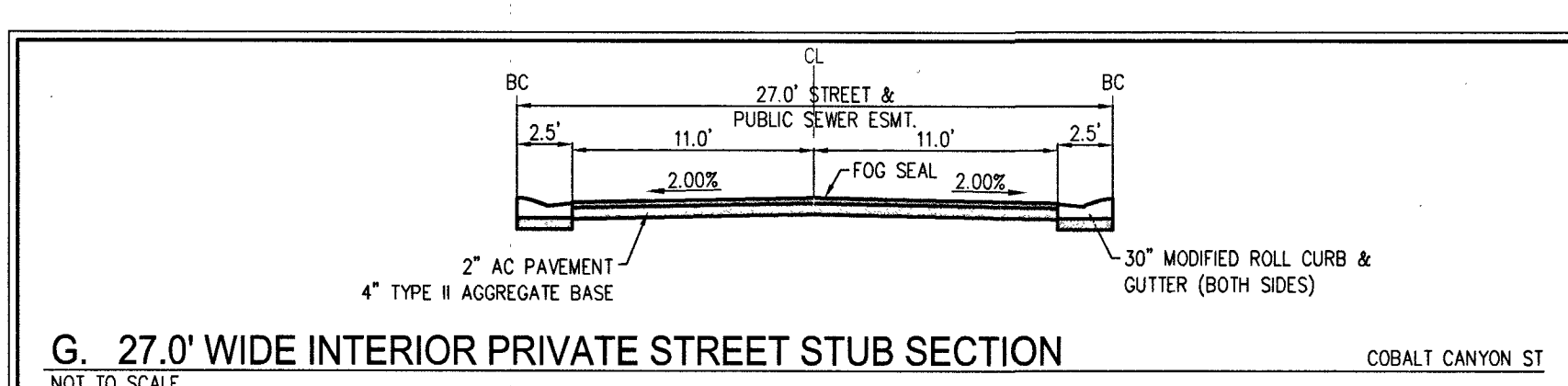
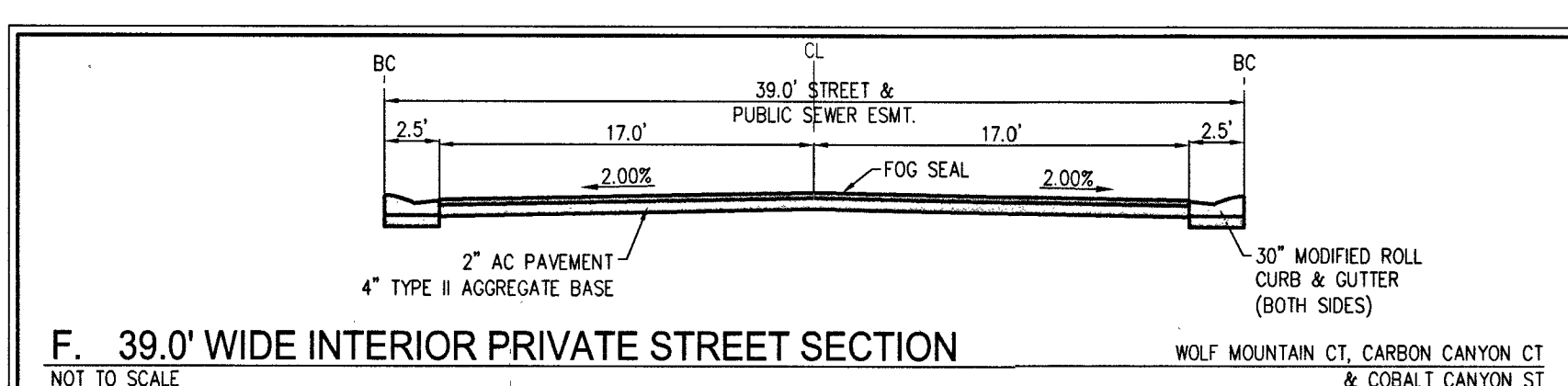
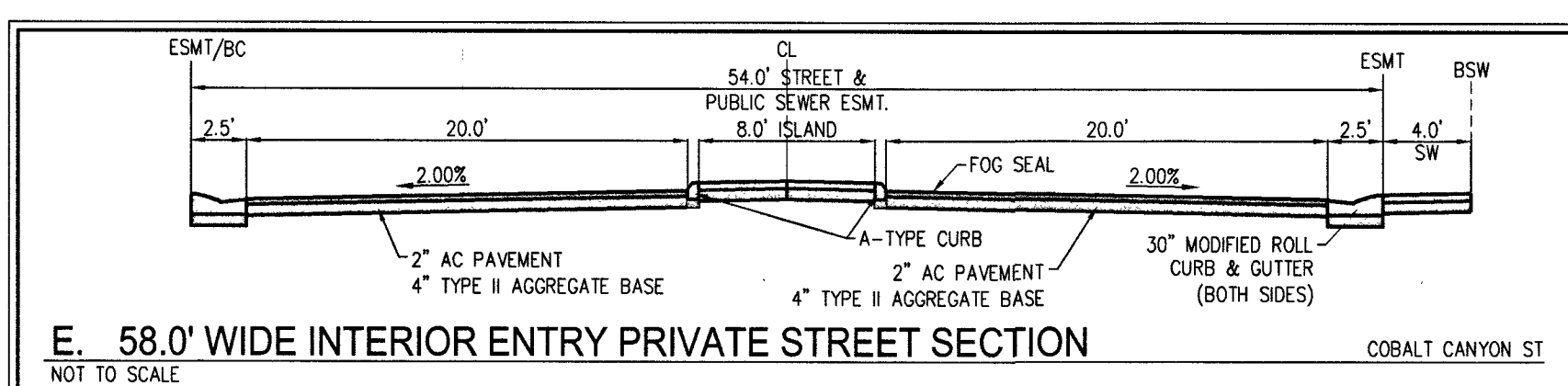
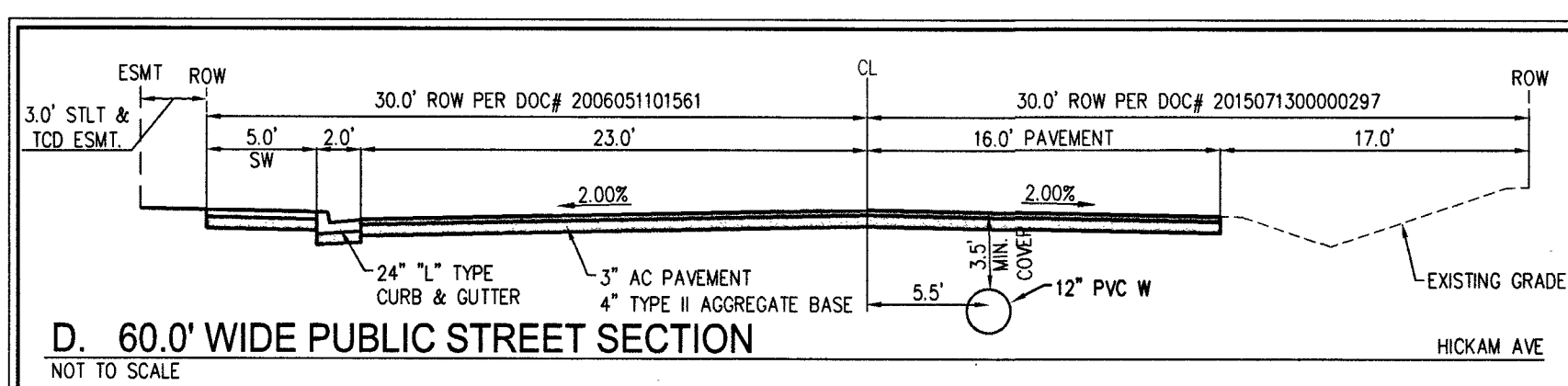
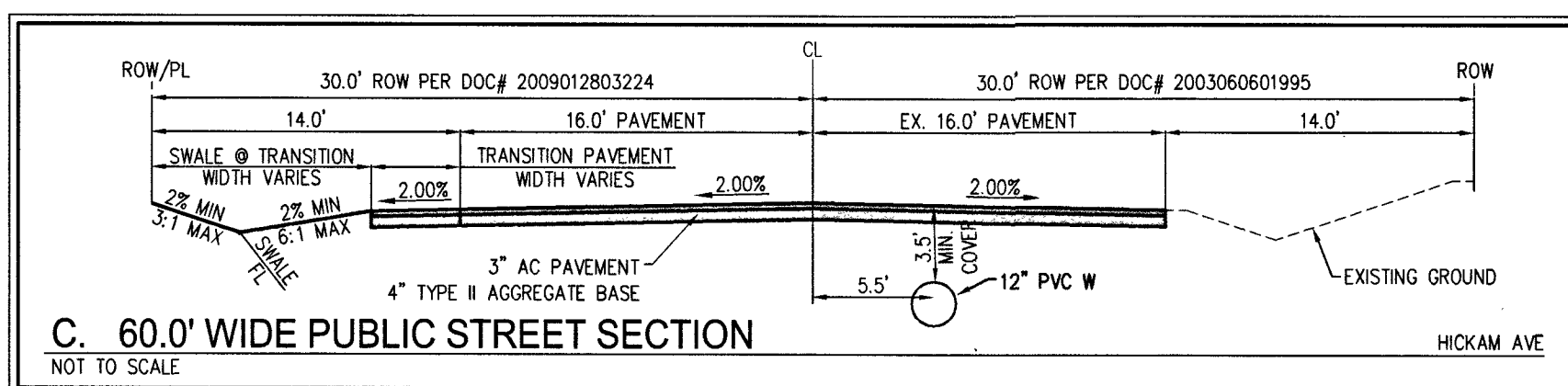
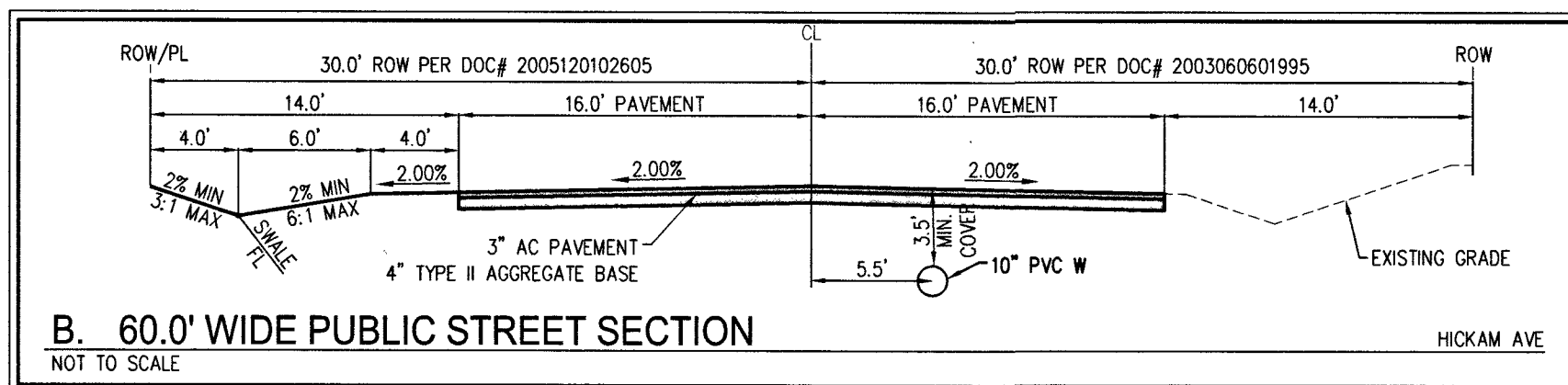
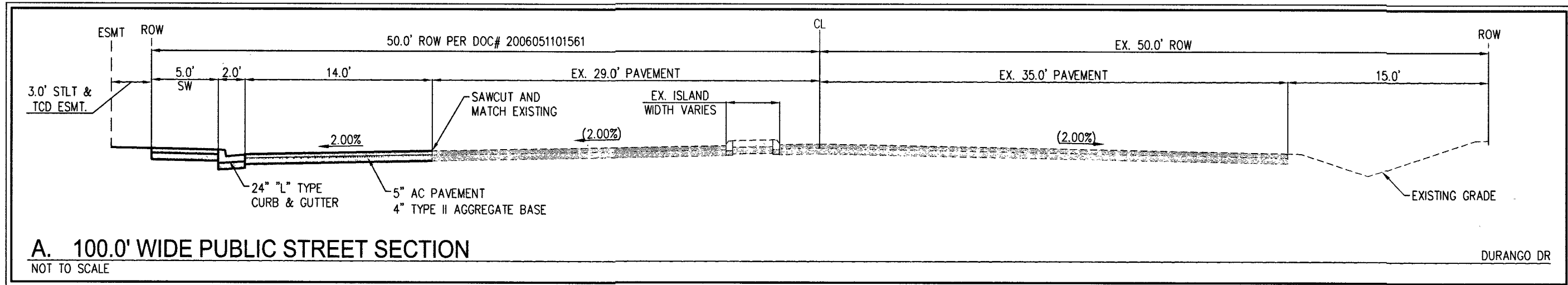
CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW	
ACCEPTANCE OF PLANS FOR FILING	
BY _____	_____
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS CLARK COUNTY SHALL BE HELD FREE FROM DAMAGE WHICH MAY RESULT FROM THE CONSTRUCTION OR THE IMPROVEMENT 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 DRAINAGE STUDY HTE#17-41829 ON FILE AT CLARK
COUNTY FOR THE SUBJECT PROJECT.

22 7/2/18
KEVIN M. BROSS, PE 24572 DATE

\\pin1702\ere iv\dwg\improv\pin1702.qrd.dwg 6/29/2018 3:52 PM Lokela Abad



SWG DISCLAIMER

THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS OF ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OF OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

GEOTECHNICAL REPORT NOTE

ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT PW 18-10397 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (WSPR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.

APPROVED FOR CONSTRUCTION

Y. Ishadi

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 125650 FIRST APPROVED DATE 7/18/18

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.

Call before you do UnderGround

1-702-455-6000

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-432-5300

(FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION)

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

SLATER
HANIFAN
GROUP

CONSULTING ENGINEERS & PLANNERS

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5390 FAX (702) 284-5399

APP. DATE

DATE

DESCRIPTION

NO.

CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

DETAIL SHEET 1

DATE: 03/26/18

DRAFTER: EMH

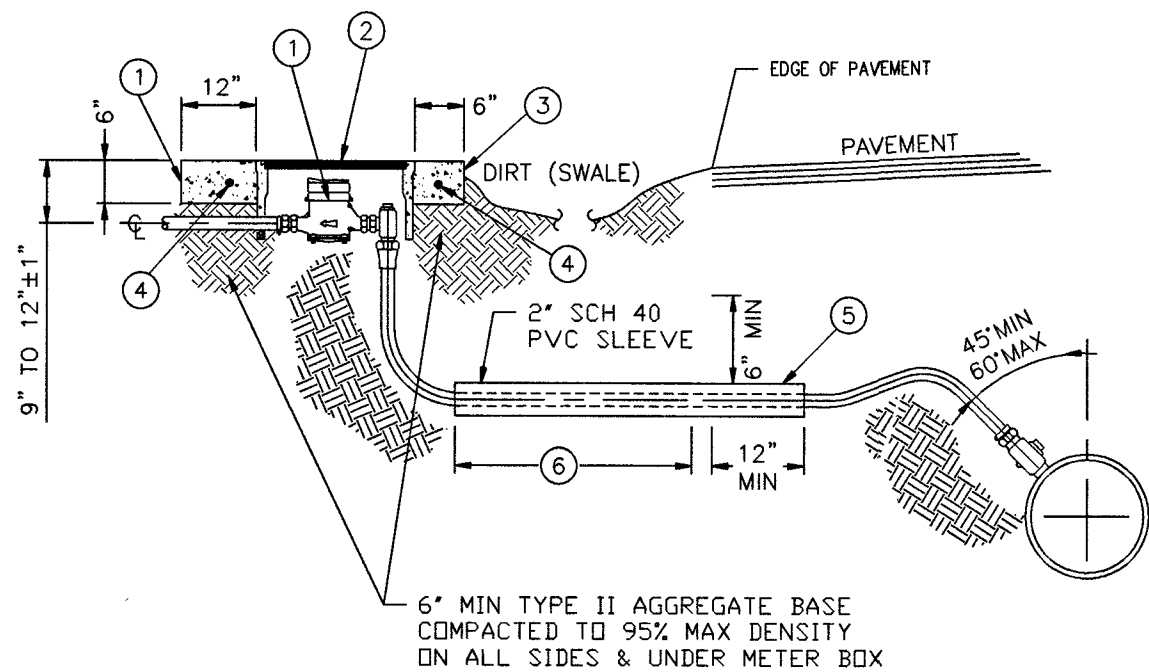
DESIGNER: EMH

CHECKED: KMB

PROJECT NO. PIN1702

PROJ.#:125650 AGREE#116750 QS:138-05-SE

18-10396
L18-00094

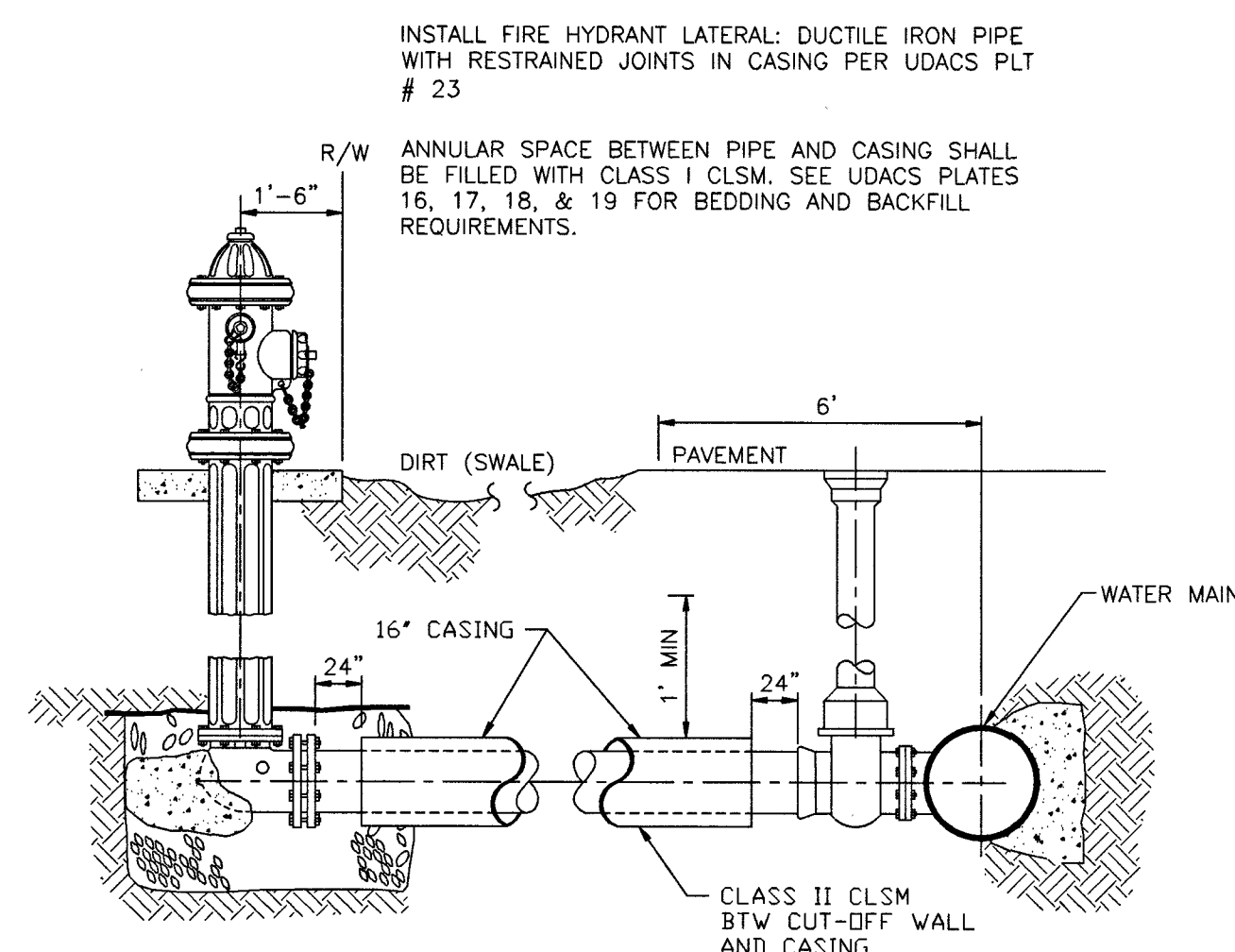


CONSTRUCTION NOTES:

1. INSTALL METER PER UDACS PLATE #3
2. INSTALL ARMORCAST 1" METER BOX ASSY (P6000485T / A6000484T) OR APPROVED EQUAL
3. 6" THICK FORMED CONCRETE COLLAR
4. #4 REBAR, 2" FROM BOTTOM, CENTERED WITHIN EACH SIDE OF COLLAR, 4" MIN LAP
5. 2" SCHEDULE 40 PVC SLEEVE 6" MIN SEPARATION BETWEEN SLEEVE & BOTTOM OF CUT-OFF WALL
6. EXTEND PVC SLEEVE UP TO SERVICE LATERAL BEND RADIUS

21. SERVICE SADDLE AND METER COLLAR

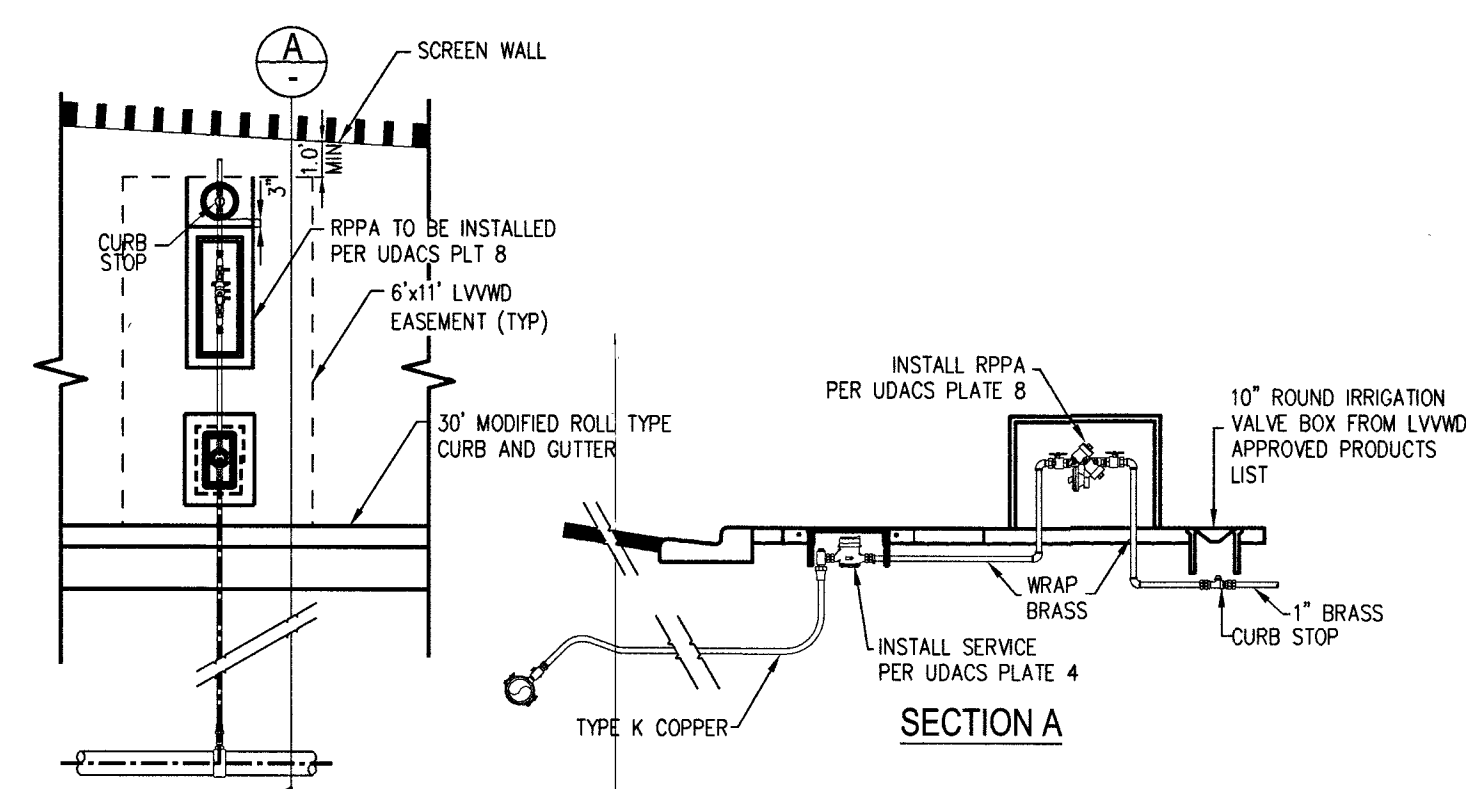
NOT TO SCALE



1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #40
2. INSTALL 16" STEEL CASING 24" FROM HYDRANT VALVE AND 24" FROM 90° BEND PER UDACS PLATE #23
3. MINIMUM 1" SEPARATION BETWEEN STEEL CASING AND BOTTOM OF CUT-OFF WALL
4. BACKFILL WITH CLSM (CLASS II) IN DIRT AREA

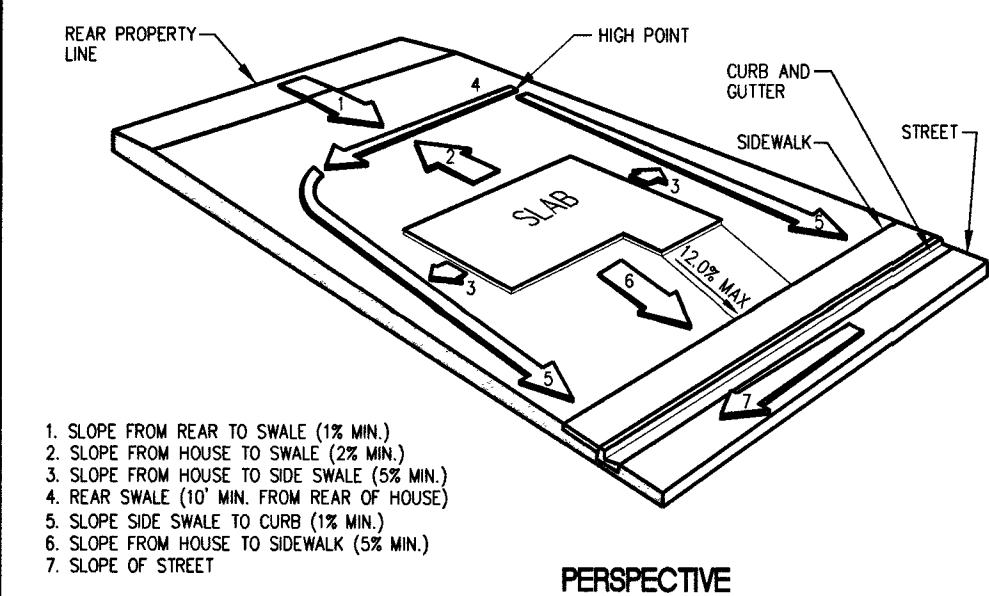
22. FIRE HYDRANT LATERAL CASING

NOT TO SCALE



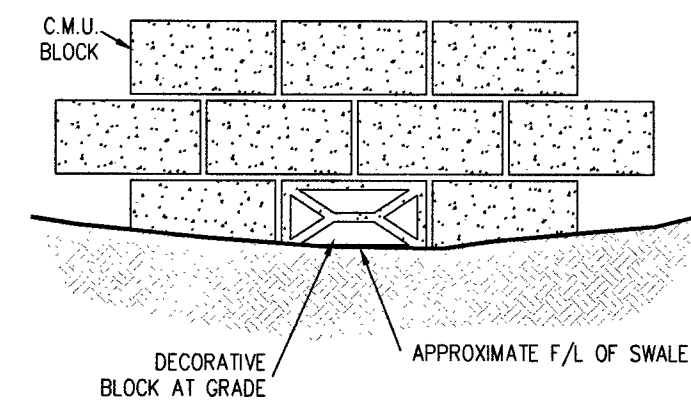
23. METER & RPPA WITH CURB STOP

NOT TO SCALE



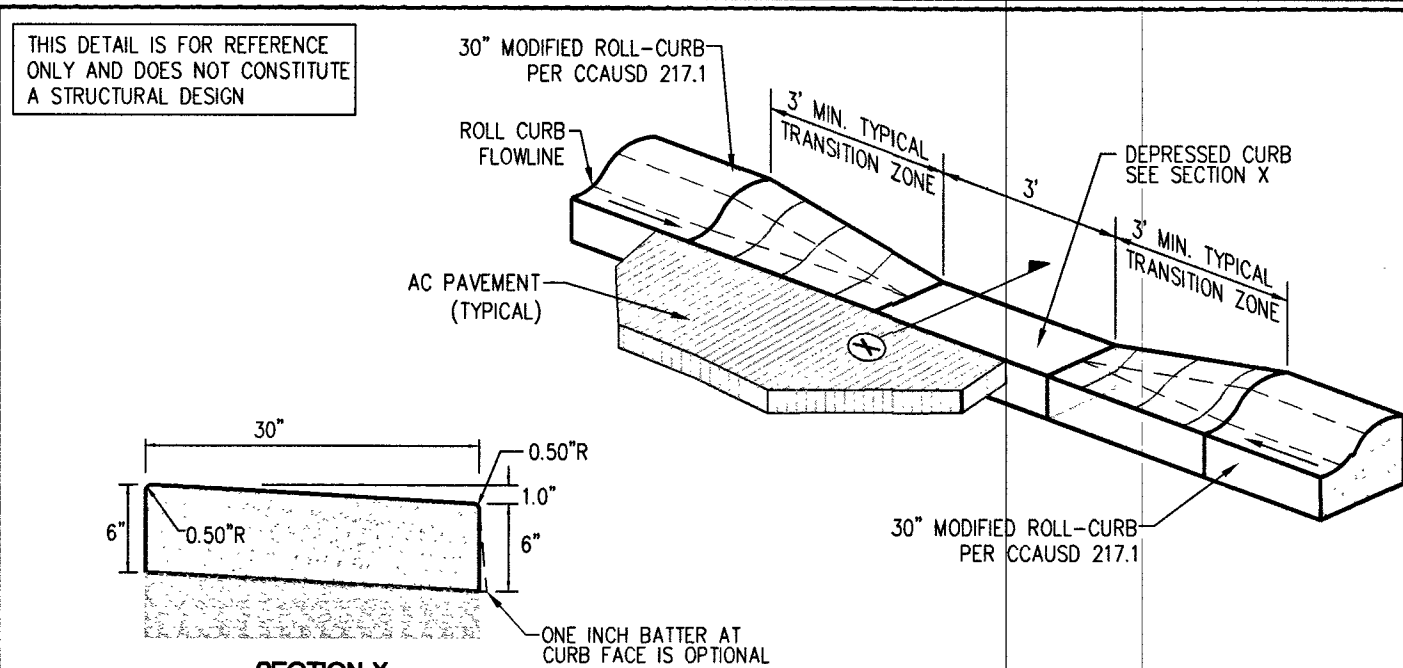
30. TYPE "A" LOT GRADING

NOT TO SCALE



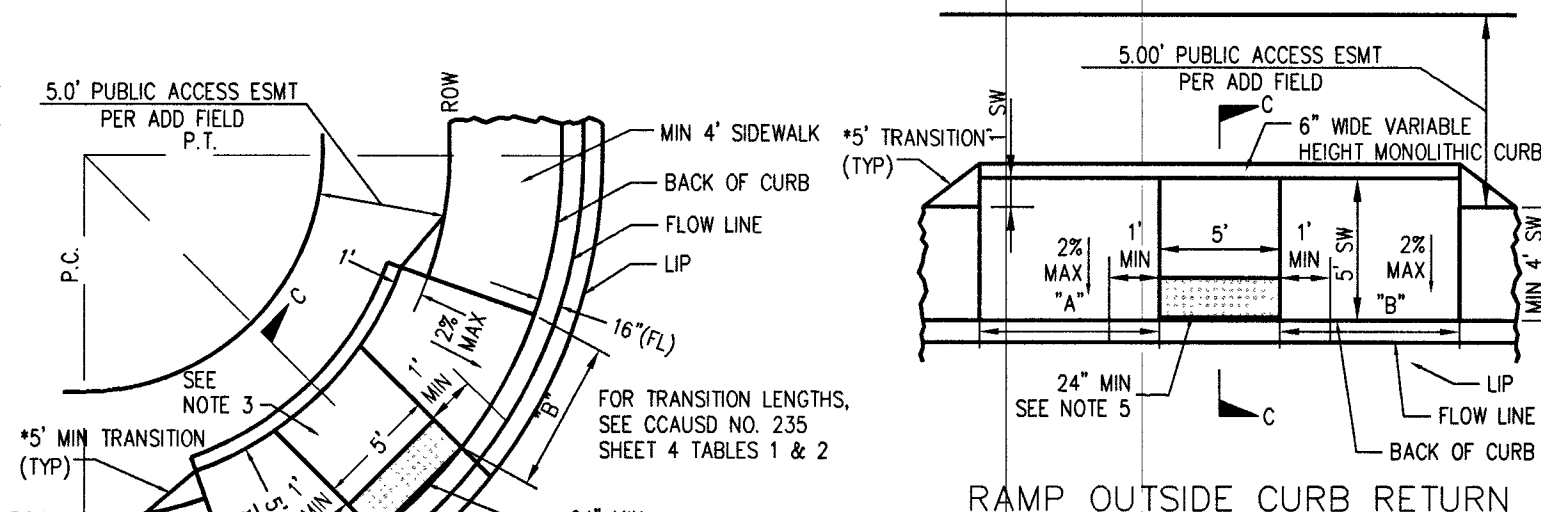
31. BLOCK WALL OPENING

NOT TO SCALE



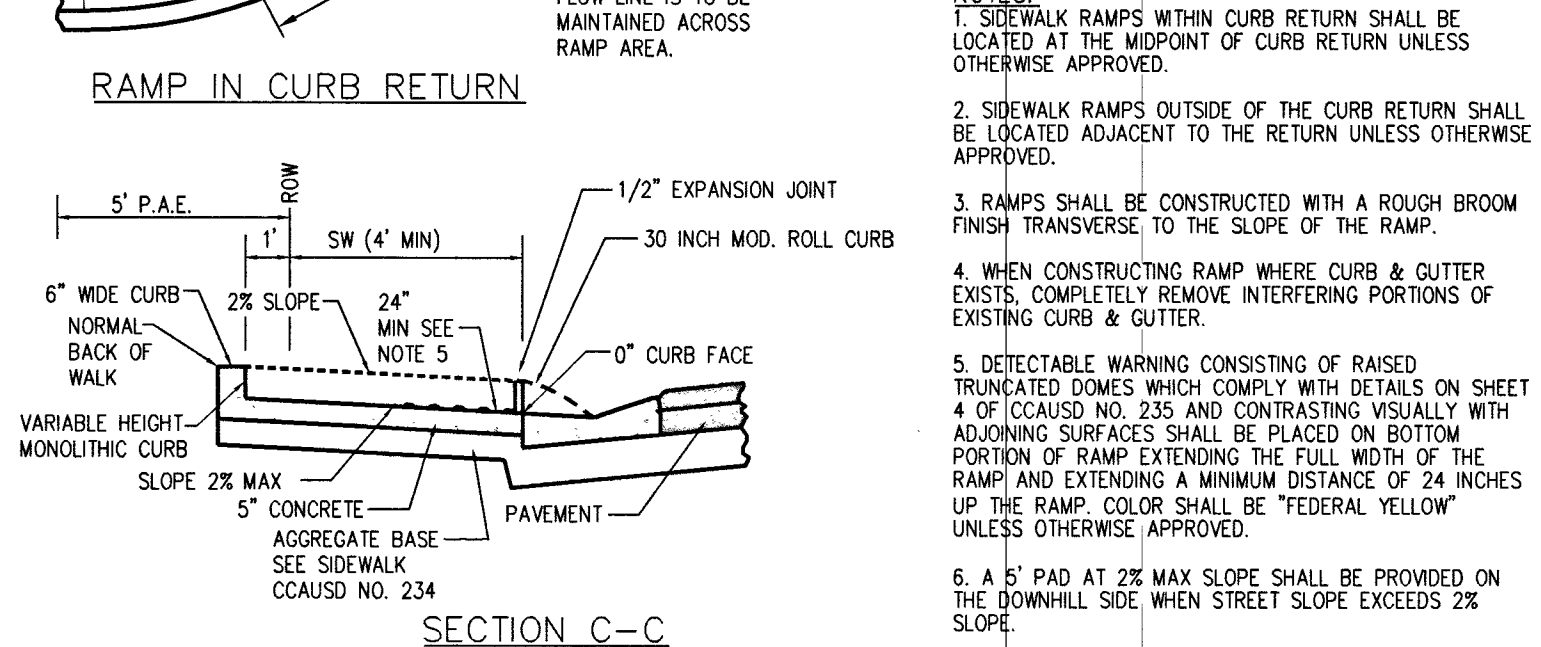
32. ROLL CURB TRANSITION TO DEPRESSED CURB "ZERO FACE"

NOT TO SCALE



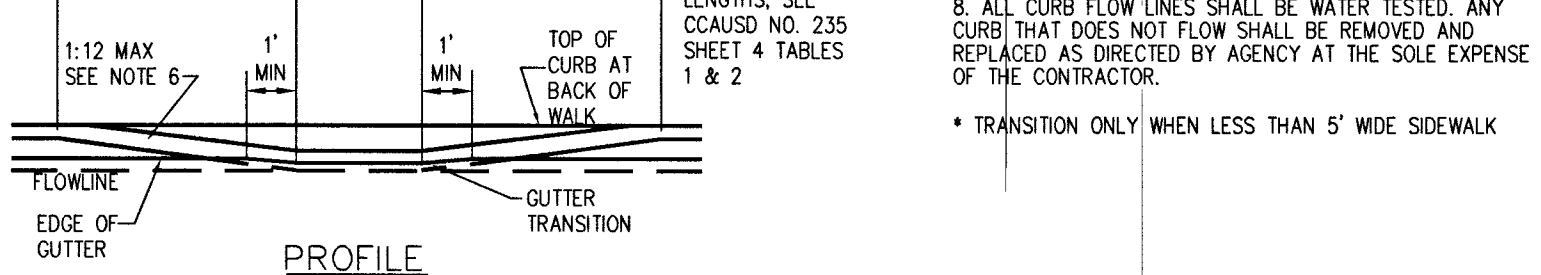
RAMP OUTSIDE CURB RETURN

NOT TO SCALE



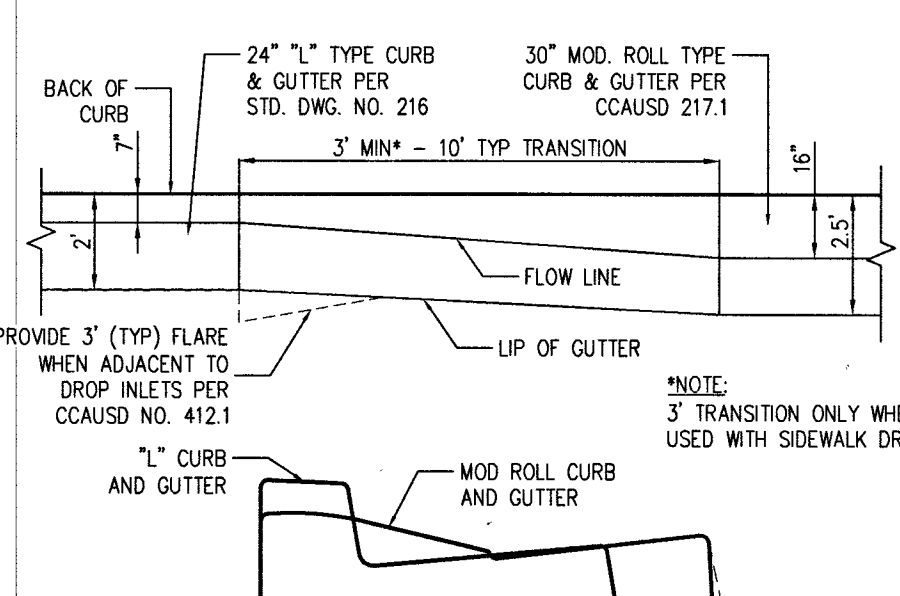
SECTION C-C

NOT TO SCALE



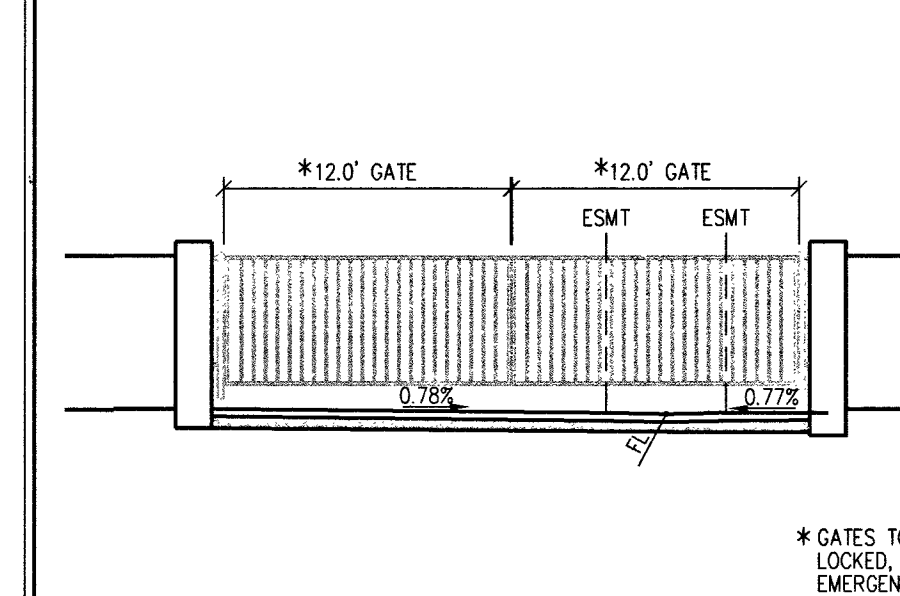
33. SIDEWALK RAMP W/ MODIFIED ROLL CURB

NOT TO SCALE



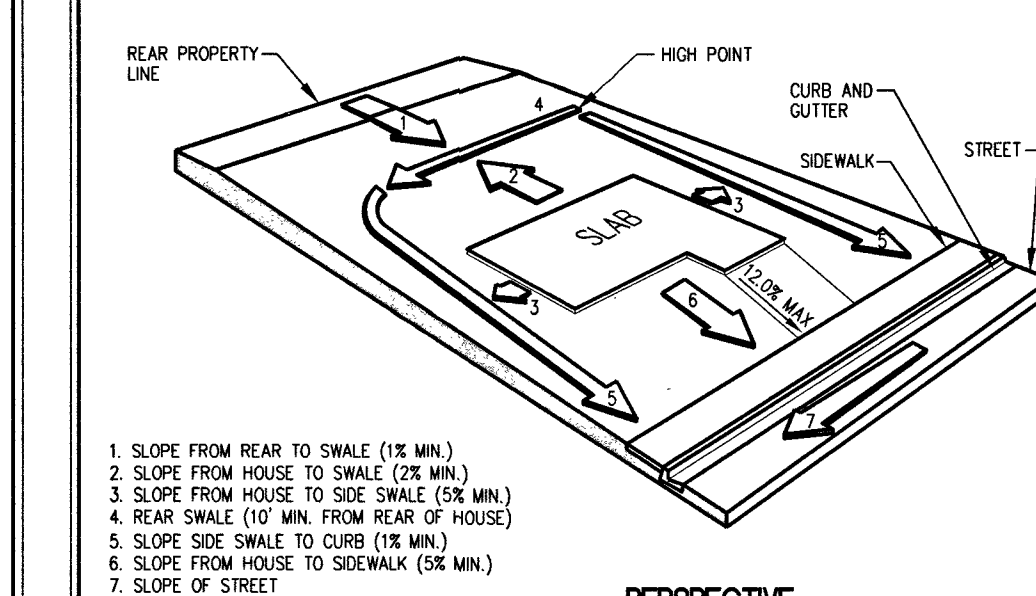
34. 10' TRANSITION FROM 24" L CURB & GUTTER TO MODIFIED 30" ROLL CURB & GUTTER

NOT TO SCALE



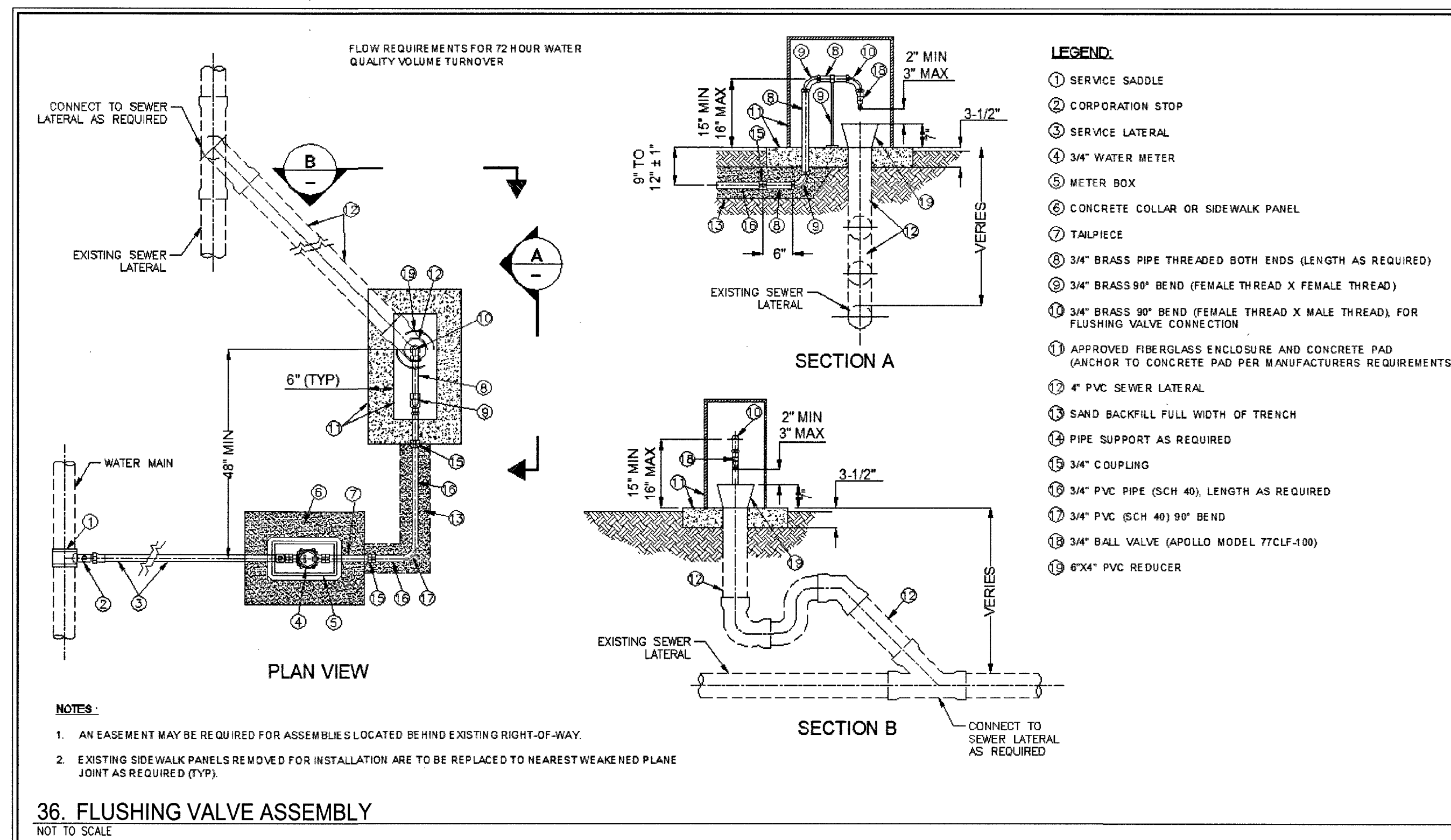
35. TUBULAR STEEL GATES

NOT TO SCALE



TYPE "A" LOT GRADING

NOT TO SCALE

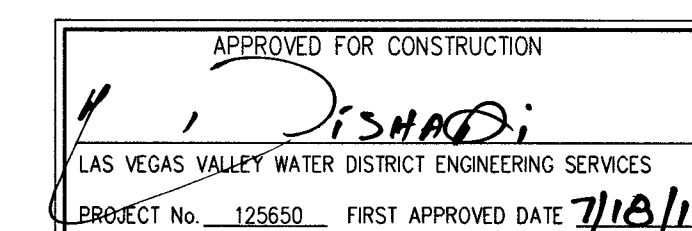


NOTES:

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

36. FLUSHING VALVE ASSEMBLY

NOT TO SCALE



DATE: 03/26/18

DRAFTER: EMH

DESIGNER: EMH

CHECKED: KMB

PROJECT NO.

PIN1702

PROJ.#125650

AGREE#116750

QS:138-05-SE

18-10396

L18-00094

3070130-4

18-10396

L18-00094

3070130-4

18-10396

L18-00094

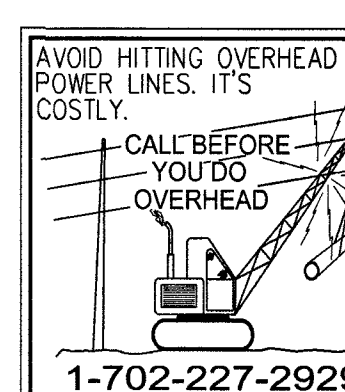
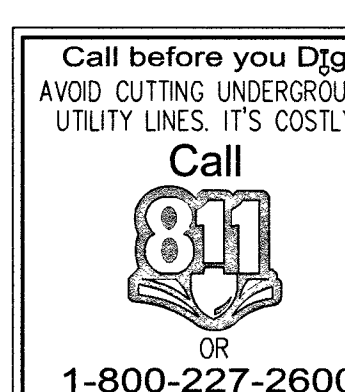
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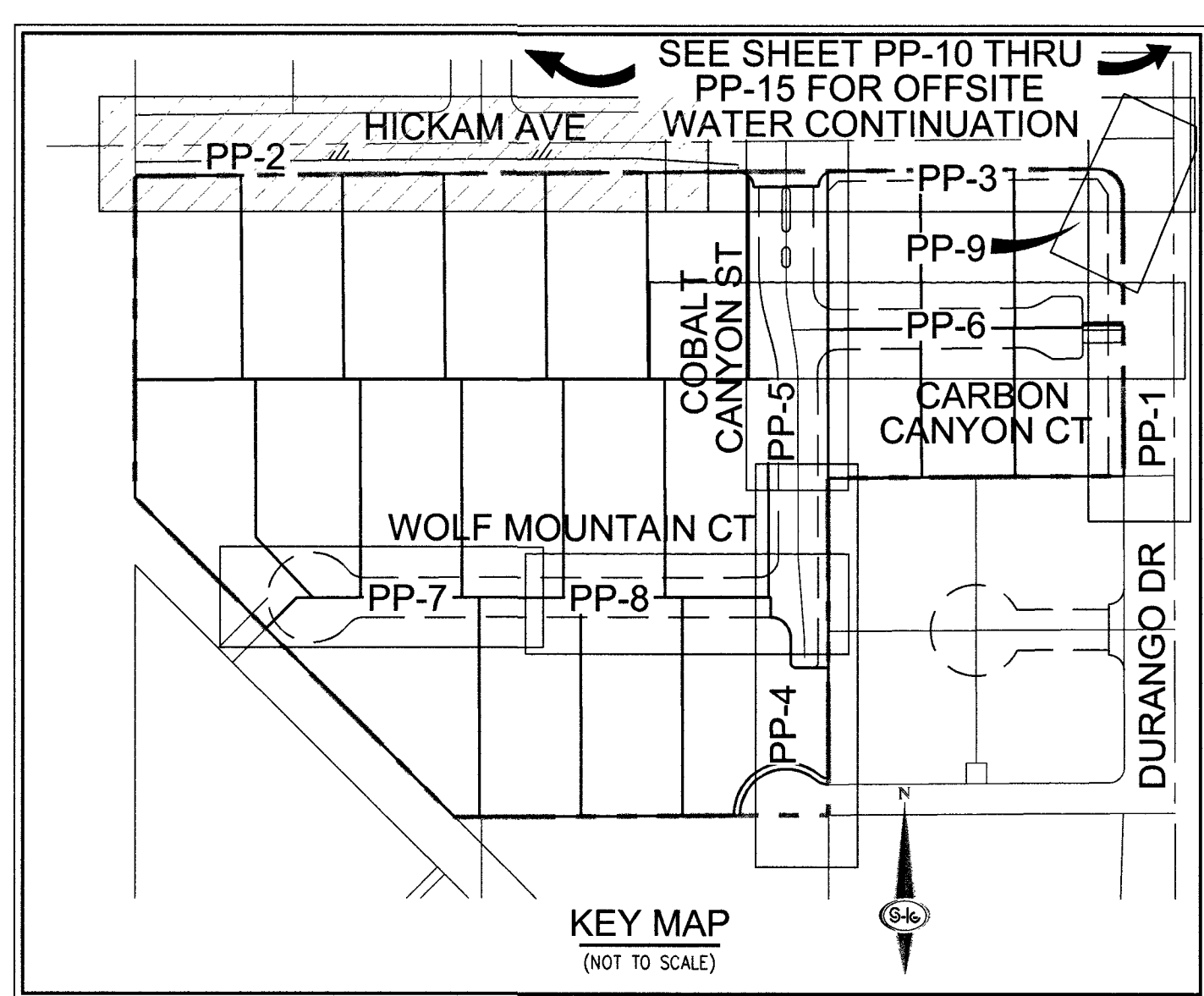
18-10396

L18-00094

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CONSTRUCTION NOTES

- 1 INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 2 INSTALL 1" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 3 INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 4 INSTALL A TYPE CURB PER CCAUSD NO. 219
- 5 INSTALL L TYPE CURB PER CCAUSD NO. 216
- 6 INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
- 7 INSTALL 10" CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL TYPE CURB PER DETAIL 34 ON SHEET D-2
- 8 CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD NO. 235, CASE 1 & 235.1 AND DETAIL 33 ON SHEET D-2
- 9 SIDEWALK AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 504, & 500.5
- 10 INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
- 11 INSTALL VALLEY GUTTER PER CCAUSD NO. 228
- 12 INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
- 13 INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
- 14 INSTALL 18" CLASS III RCP STORM DRAIN
- 15 INSTALL 18" TYPE "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
- 16 NOT USED
- 17 INSTALL DEPRESSION CURB PER DETAIL 32 ON SHEET D-2
- 18 CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 18 ON SHEET D-1-1
- 19 CROSSLANE DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCFW
- 20 REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III 18'-11"-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 21 EXISTING 18" RCP CLASS III STORM DRAIN
- 22 INSTALL 10" TYPE "CM2" STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
- 23 EXISTING 24" CLASS III RCP STORM DRAIN
- 24 EXISTING 48" STORM DRAIN MANHOLE
- 25 REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III 18'-11"-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 26 EXISTING AREA DRAIN TO REMAIN
- 27 REMOVE EXISTING AC
- 28 INSTALL 6" HIGH TUBULAR RAIL, 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

SURVEY NOTE OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOURED DURING CONSTRUCTION.	
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. - FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CURB SLOPES FROM EXISTING PAVEMENT SAWGUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED TOP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.	

ELEVATION NOTE

ADD 23900 TO ALL SPOT GRASSES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION
(I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: OLVOO 45W#6

BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT

ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

GRADING NOTES

1. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH BC 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 SWMP.
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 UTILITIES, STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE RIGHT OF WAY ZONES.
10. SECTION 8 OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR ALL LOCATIONS OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN
APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE
WITH AN APPROVED AND ACTIVE GRADING PERMIT.

BENCHMARK
BENCHMARK NUMBER: OLVOO 4SWW6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

**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

APPROVED FOR CONSTRUCTION

4, *S. SHADY*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

S-I GROUP
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5309

PINNACLE HOMES

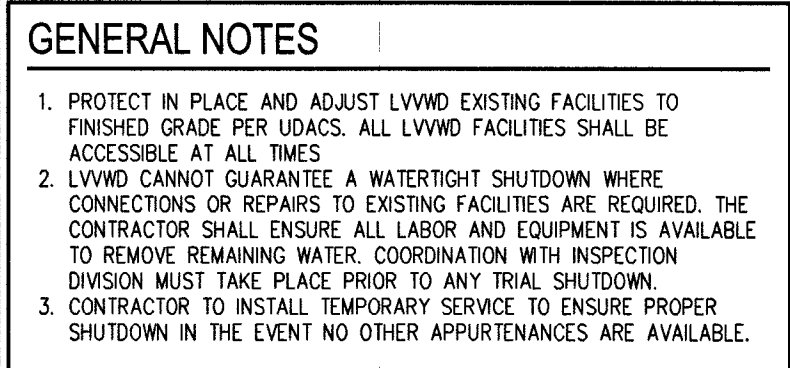
ELK RIDGE ESTATES IV

PLAN AND PROFILE - HICKAM AVENUE I

DATE:	03/26/18
DRAFTER:	EMH
DESIGNER:	EMH
CHECKED:	KMB
PROJECT NO.	PIN1702



PP-2
SHEET 12 OF 35
18-10396
L18-00094



SOUTHWEST GAS APPROVAL

 7.5.18

SOUTHWEST GAS CORPORATION DATE

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
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Call
811
OR
1-800-227-2600

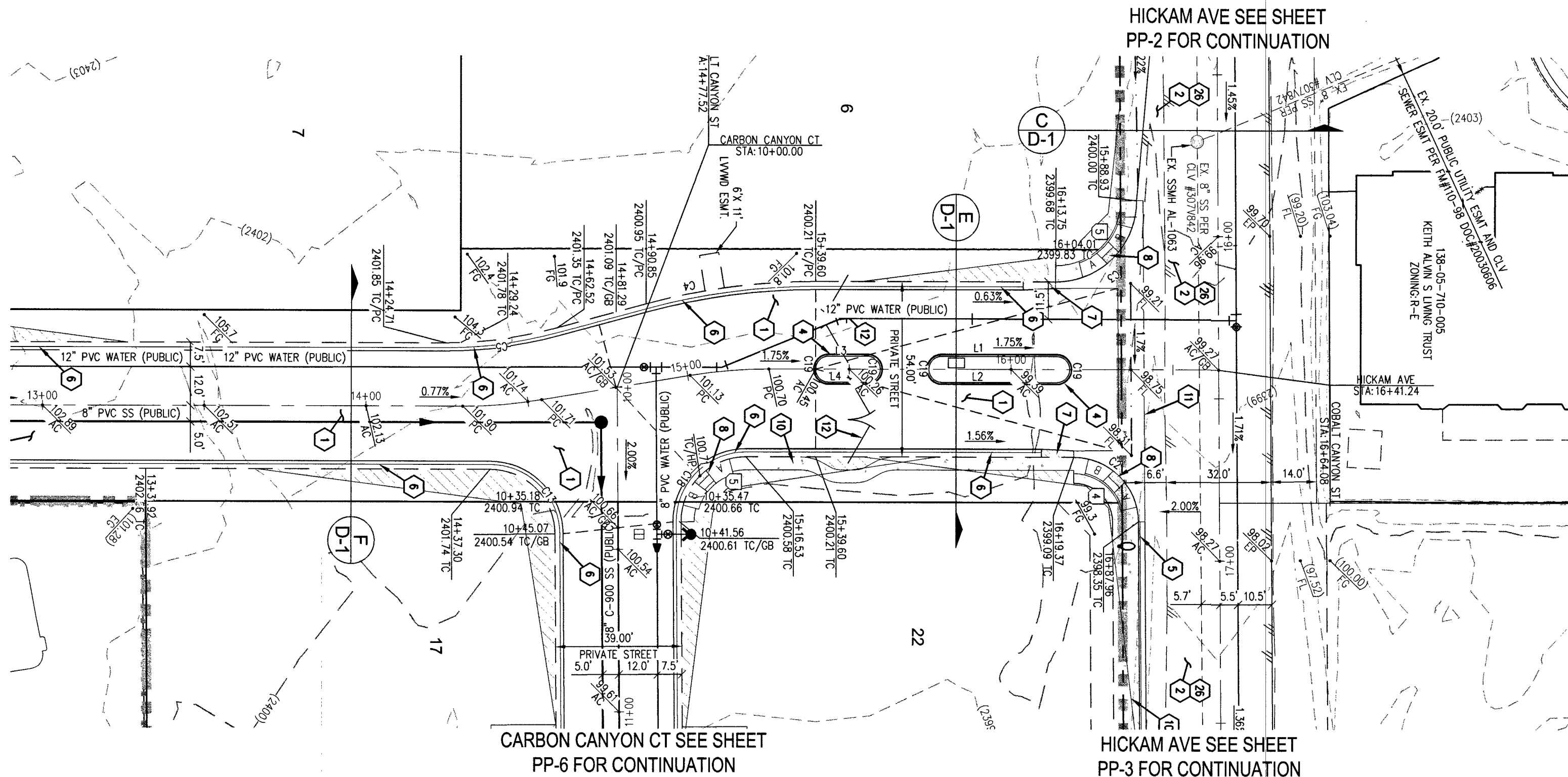
DEPTH OF COVER DURING CONSTRUCTION

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

NOTE
1. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I) 2. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15 3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03 4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.

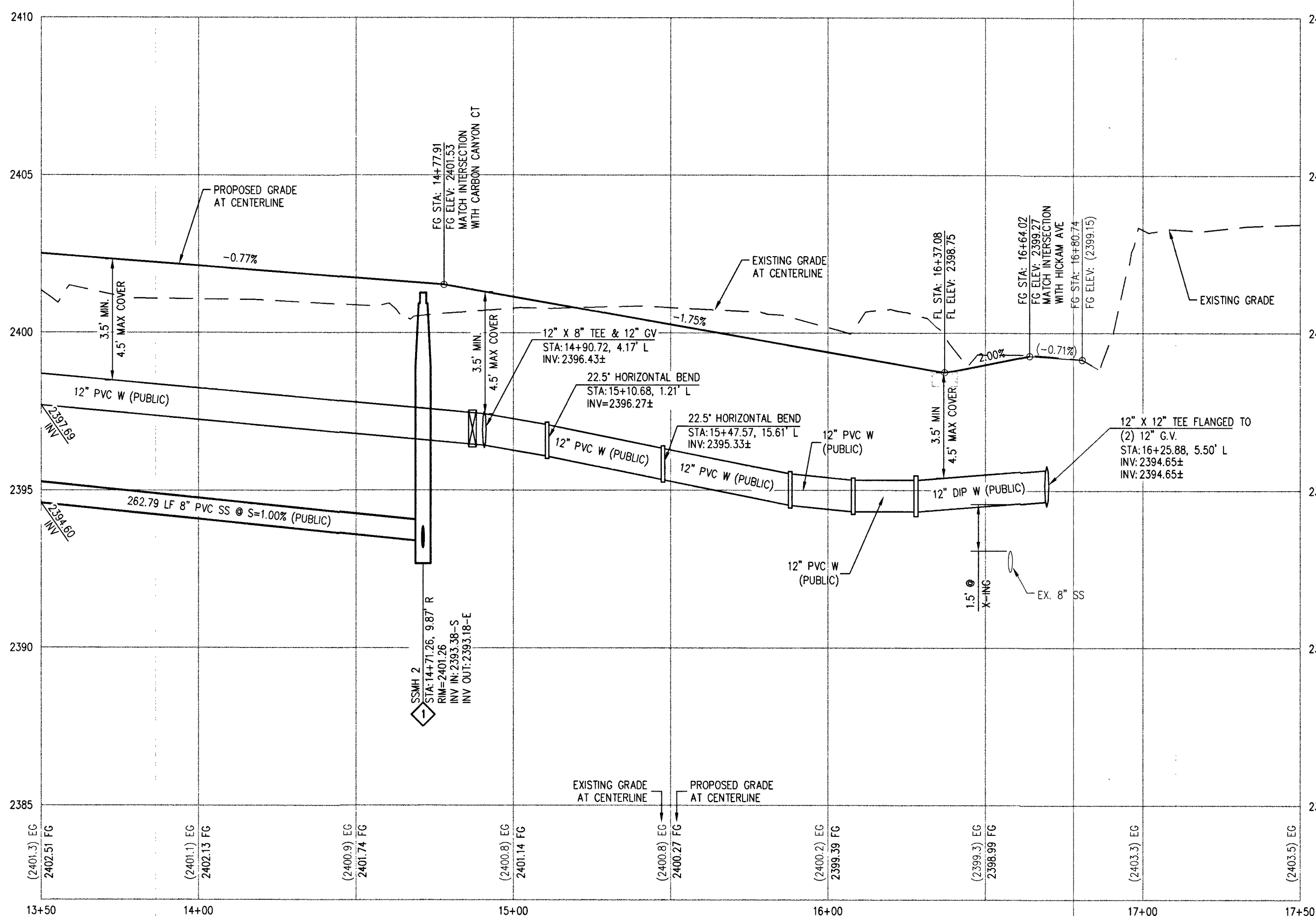
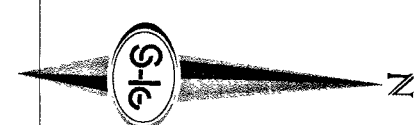
HICKAM AVE - PROFILE VIEW
HORIZ: 1" = 30'
VERT: 1" = 3'

COBALT CANYON ST SEE SHEET
PP-4 FOR CONTINUATION



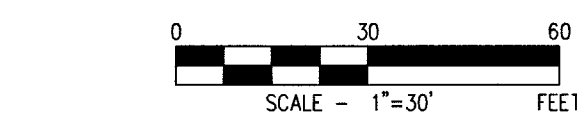
COBALT CANYON ST - PLAN VIEW

PRIVATE



COBALT CANYON ST - PROFILE VIEW

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



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SEWER CONSTRUCTION NOTES

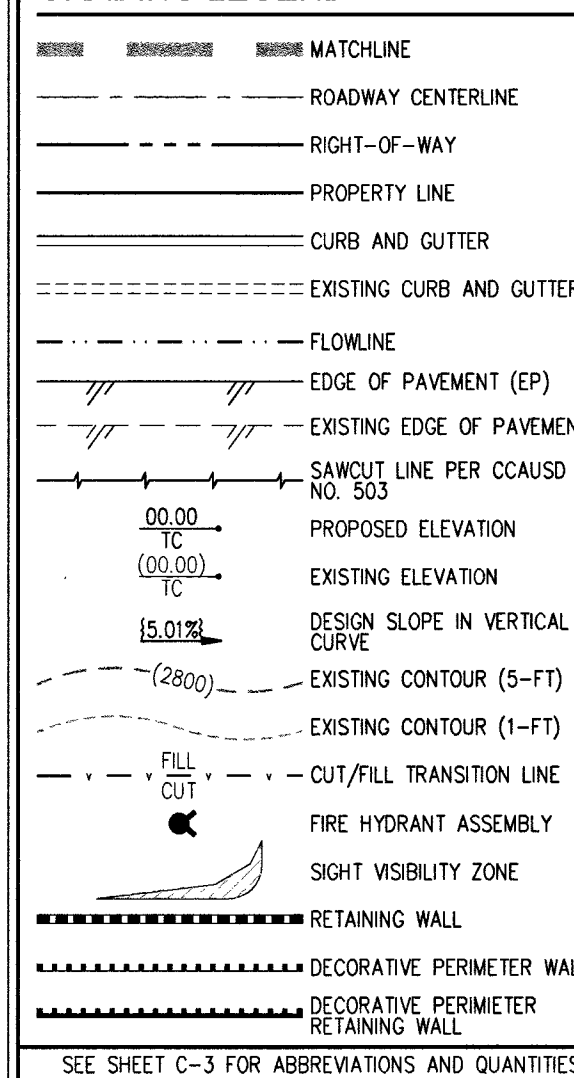
- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER SDWCS SD-1A, SD-1B, SD-4, SD-7 AND SD-9 (SINGLE 24" LID)
- INSTALL 8" PVC SANITARY SEWER PIPE PER SD-17 (PUBLIC)
- 4" PVC SEWER LATERAL PER SD-22 & SD-25
- FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING SEWER STUB
- INSTALL 8" C-900 SANITARY SEWER PIPE PER SD-17 (PUBLIC)

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT)	"B" (FT)
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND



SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

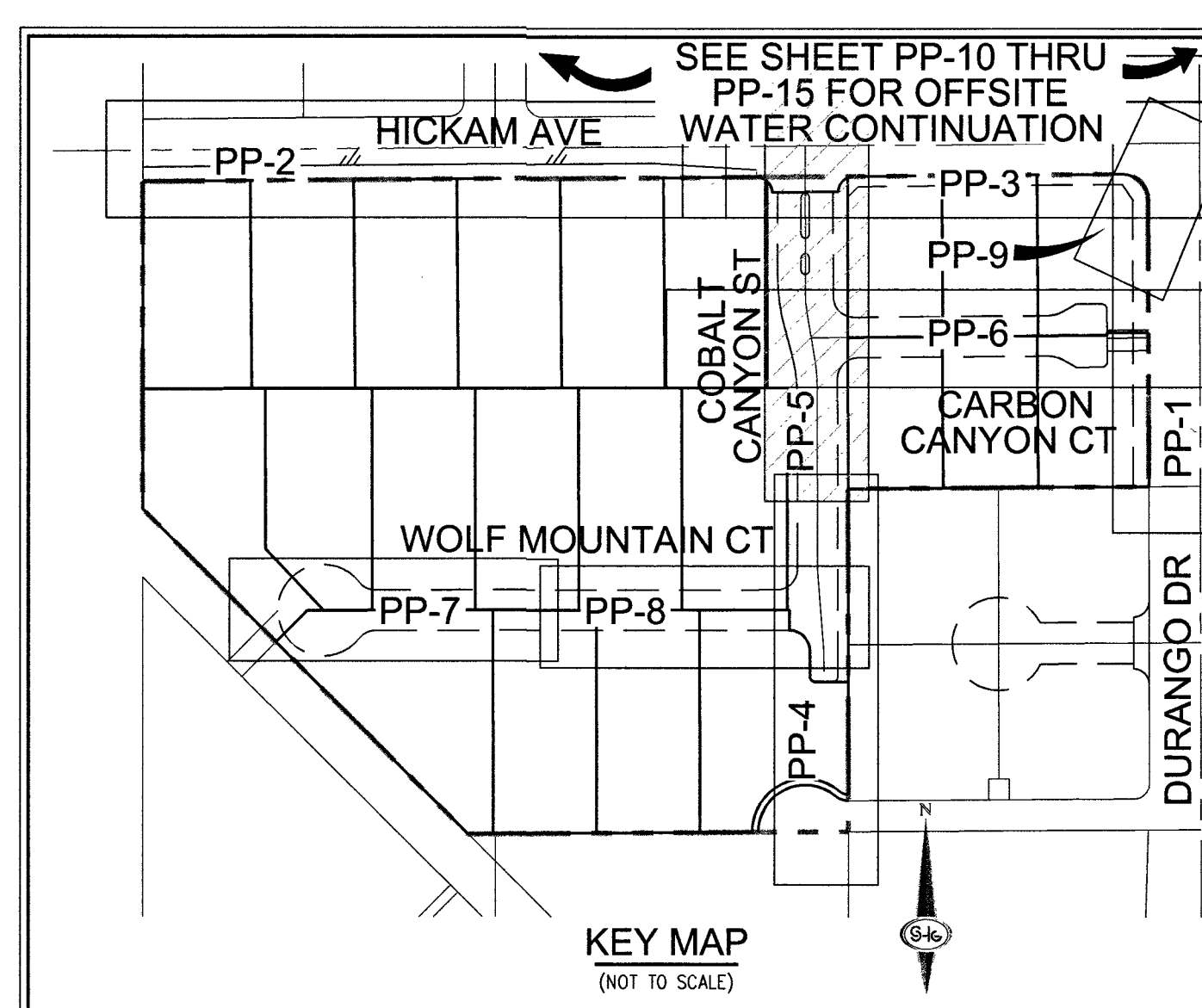
EARTHWORKS

EARTHWORK QUANTITIES (RAW):
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EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE

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CONSTRUCTION NOTES

- INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL 4" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- INSTALL A TYPE CURB PER CCAUSD NO. 219
- INSTALL L TYPE CURB PER CCAUSD NO. 216
- INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
- INSTALL 10" CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
- CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE I & 235.1 AND DETAIL 33 ON SHEET D-2
- SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4 & 500.5
- INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
- INSTALL VALLEY GUTTER PER CCAUSD NO. 228
- INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
- INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
- INSTALL 18" CLASS III RCP STORM DRAIN
- INSTALL 4" TYPE 10" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
- NOT USED
- INSTALL DEPRESSIONED CURB PER DETAIL 32 ON SHEET D-2
- CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
- REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- EXISTING 18" RCP CLASS III STORM DRAIN
- INSTALL 10" TYPE "CM2" STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
- EXISTING 24" CLASS III RCP STORM DRAIN
- EXISTING 48" STORM DRAIN MANHOLE
- REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- EXISTING AREA DRAIN TO REMAIN
- REMOVE EXISTING AC
- INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: 01000 45WWS
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, 11E, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN). PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

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DISCLAIMER NOTE

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- FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED UP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING NOTES

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

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.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

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

CLARK COUNTY, NEVADA

PINNACLE HOMES
ELK RIDGE ESTATES IV

PLAN AND PROFILE - COBALT CANYON STREET II

DATE: 03/26/18

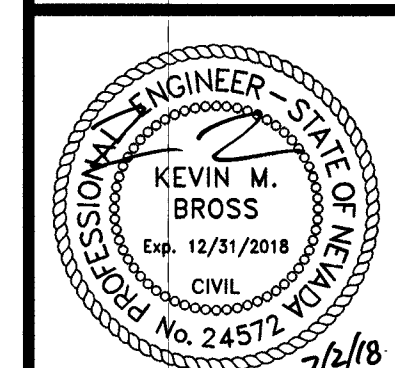
DRAFTER: EMH

DESIGNER: EMH

CHECKED: KMB

PROJECT NO.

PIN1702

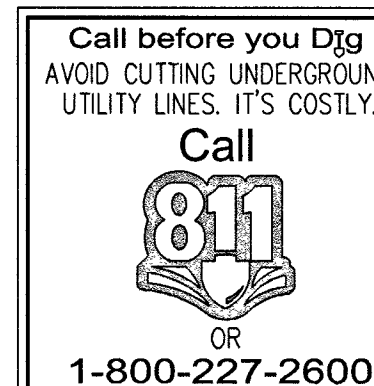


PP-5

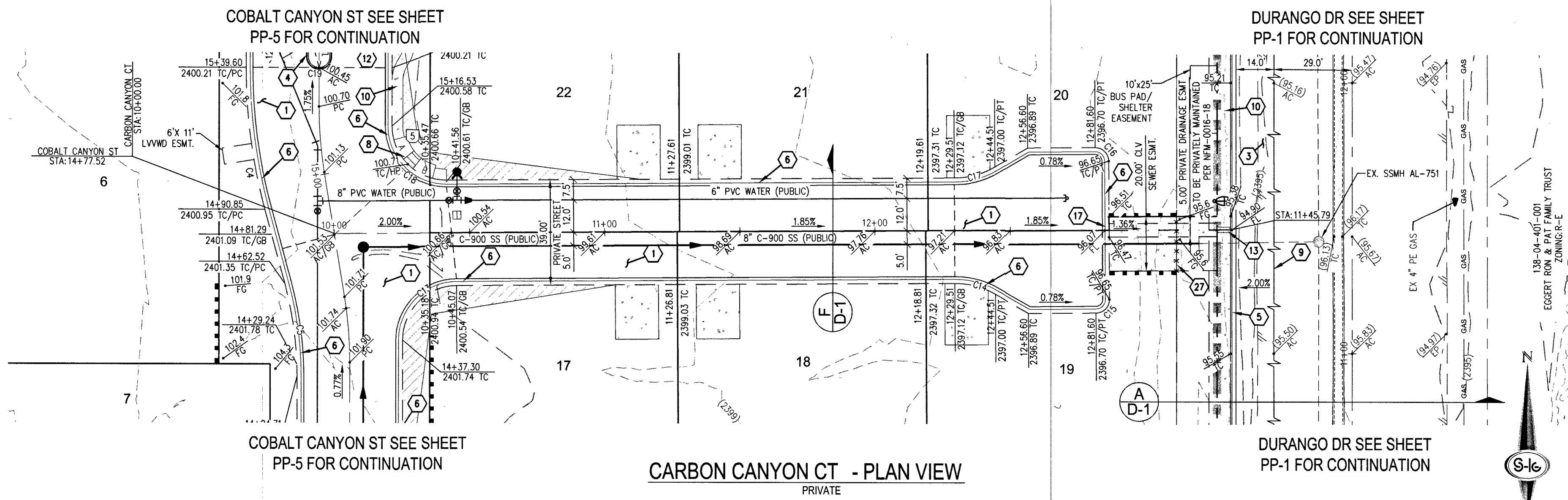
SHEET 15 OF 35

18-10396

L18-00094



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SWG DISCLAIMER

THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS OF ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OF OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

SEWER CONSTRUCTION NOTES

1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DSWCS SD-1A, SD-1B, SD-4, SD-7 AND SD-9 (SINGLE 24" LID)
2. INSTALL 8" PVC SANITARY SEWER PIPE PER SD-17 (PUBLIC)
3. 4" PVC SEWER LATERAL PER SD-22 & SD-25
4. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING SEWER STUB
5. INSTALL 8" C-900 SANITARY SEWER PIPE PER SD-17 (PUBLIC)

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT) MIN.	"B" (FT) MIN.
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND

ROADWAY CENTERLINE
RIGHT-OF-WAY
PROPERTY LINE
CURB AND GUTTER
EXISTING CURB AND GUTTER
FLOWLINE
EDGE OF PAVEMENT (EP)
EXISTING EDGE OF PAVEMENT
SAWCUT LINE PER CCAUSD NO. 503
PROPOSED ELEVATION
EXISTING ELEVATION
DESIGN SLOPE IN VERTICAL CURVE
EXISTING CONTOUR (5-FT)
EXISTING CONTOUR (1-FT)
FILL CUT
CUT/FILL TRANSITION LINE
FIRE HYDRANT ASSEMBLY
SIGHT VISIBILITY ZONE
RETAINING WALL
DECORATIVE PERIMETER WALL
RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C4	53.01'	200.00'	151°09'	26.66'
C5	34.59'	130.50'	151°09'	17.40'
C13	31.42'	20.00'	90°00'00"	20.00'
C14	15.71'	30.00'	30°00'00"	8.04'
C15	7.86'	5.00'	90°03'00"	5.00'
C16	7.85'	5.00'	89°57'00"	5.00'
C17	15.71'	30.00'	30°00'00"	8.04'
C18	31.42'	20.00'	90°00'00"	20.00'

GENERAL NOTES

1. PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES
2. LVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN.
3. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SOUTHWEST GAS APPROVAL

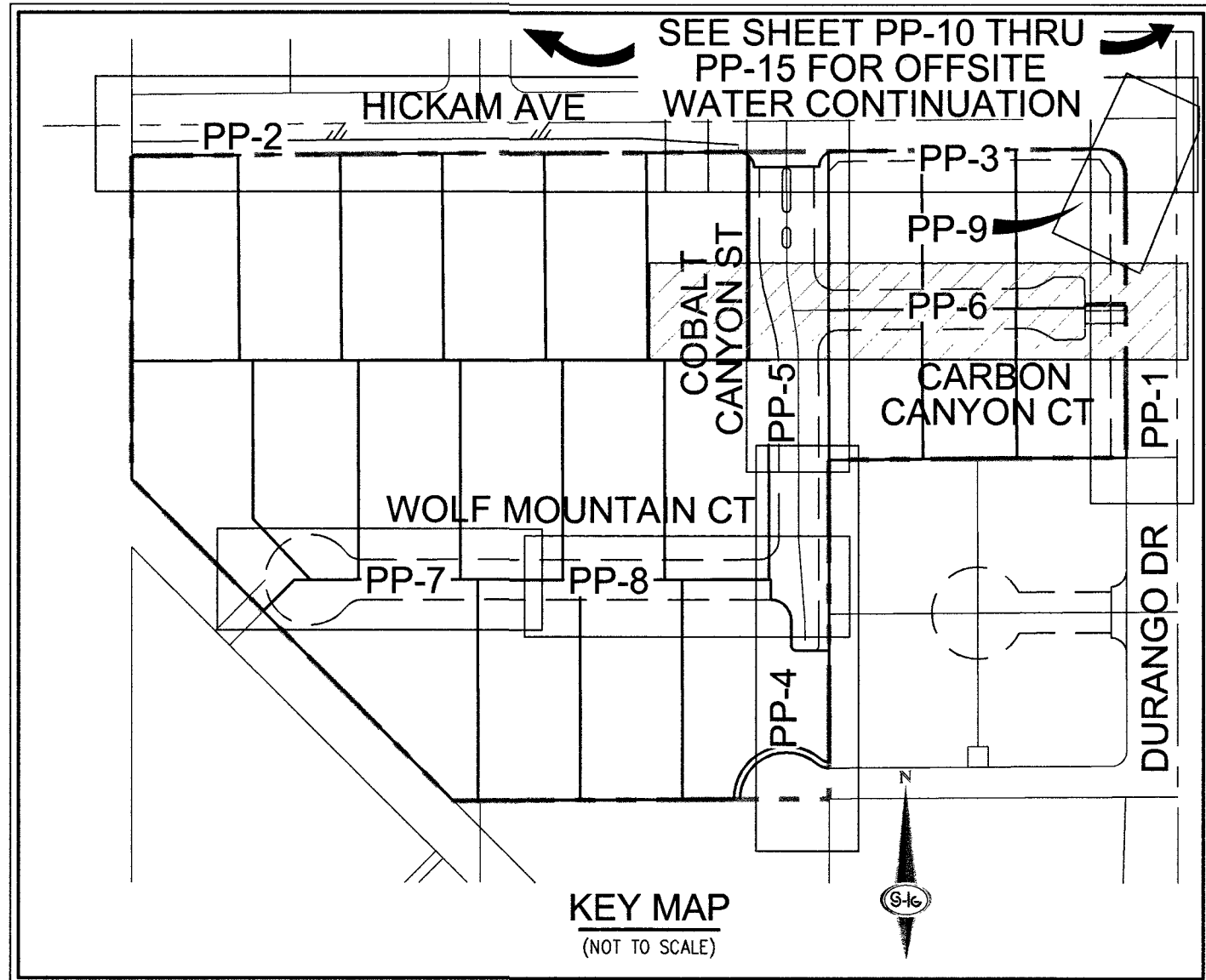
[Signature] 7.5.18
SOUTHWEST GAS CORPORATION DATE

DEPTH OF COVER DURING CONSTRUCTION

1. MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 1.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

NOTE

1. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I)
2. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03
4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22



CONSTRUCTION NOTES

1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
2. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
3. INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
4. INSTALL 1" TYPE CURB PER CCAUSD NO. 219
5. INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
6. INSTALL 10" CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
7. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1 & 235.1 AND DETAIL 33 ON SHEET D-2
8. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4 & 500.5
9. INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
10. INSTALL VALLEY GUTTER PER CCAUSD NO. 228
11. INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
12. INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
13. INSTALL 18" CLASS III RCP STORM DRAIN
14. INSTALL 4" TYPE "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
15. NOT USED
16. INSTALL DEPRESSIONED CURB PER DETAIL 32 ON SHEET D-2
17. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW. REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
18. EXISTING 18" RCP CLASS III STORM DRAIN
19. EXISTING 24" CLASS III RCP STORM DRAIN
20. EXISTING 48" STORM DRAIN MANHOLE
21. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
22. EXISTING AREA DRAIN TO REMAIN
23. REMOVE EXISTING AC
24. INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: OLVOO 45WWS
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M5W, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

BY _____

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APPROVED FOR CONSTRUCTION

[Signature] LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

FAST

Call before you dig
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 dig
1-702-227-2929

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

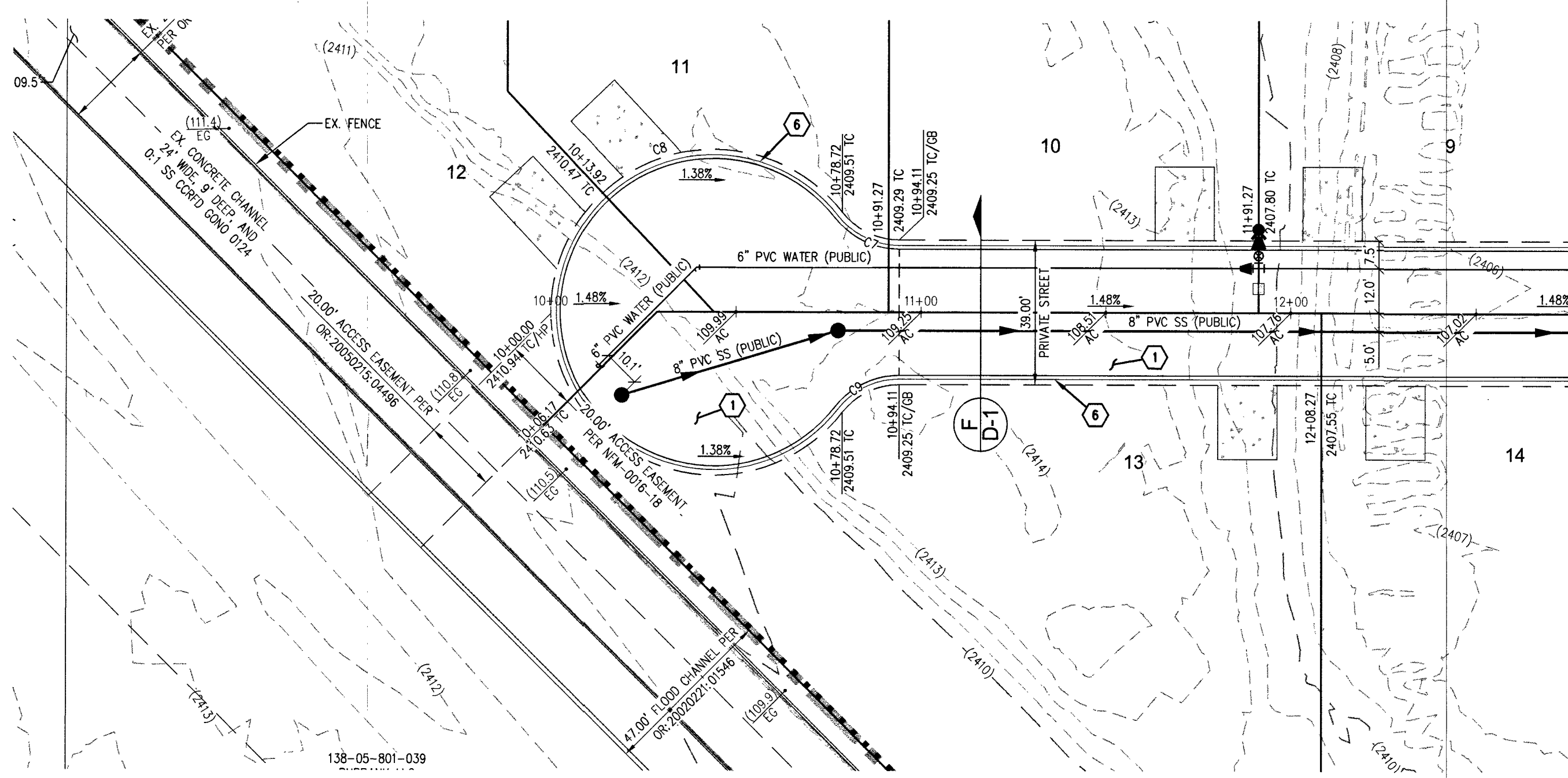
Call 811
OR
1-800-227-2600

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

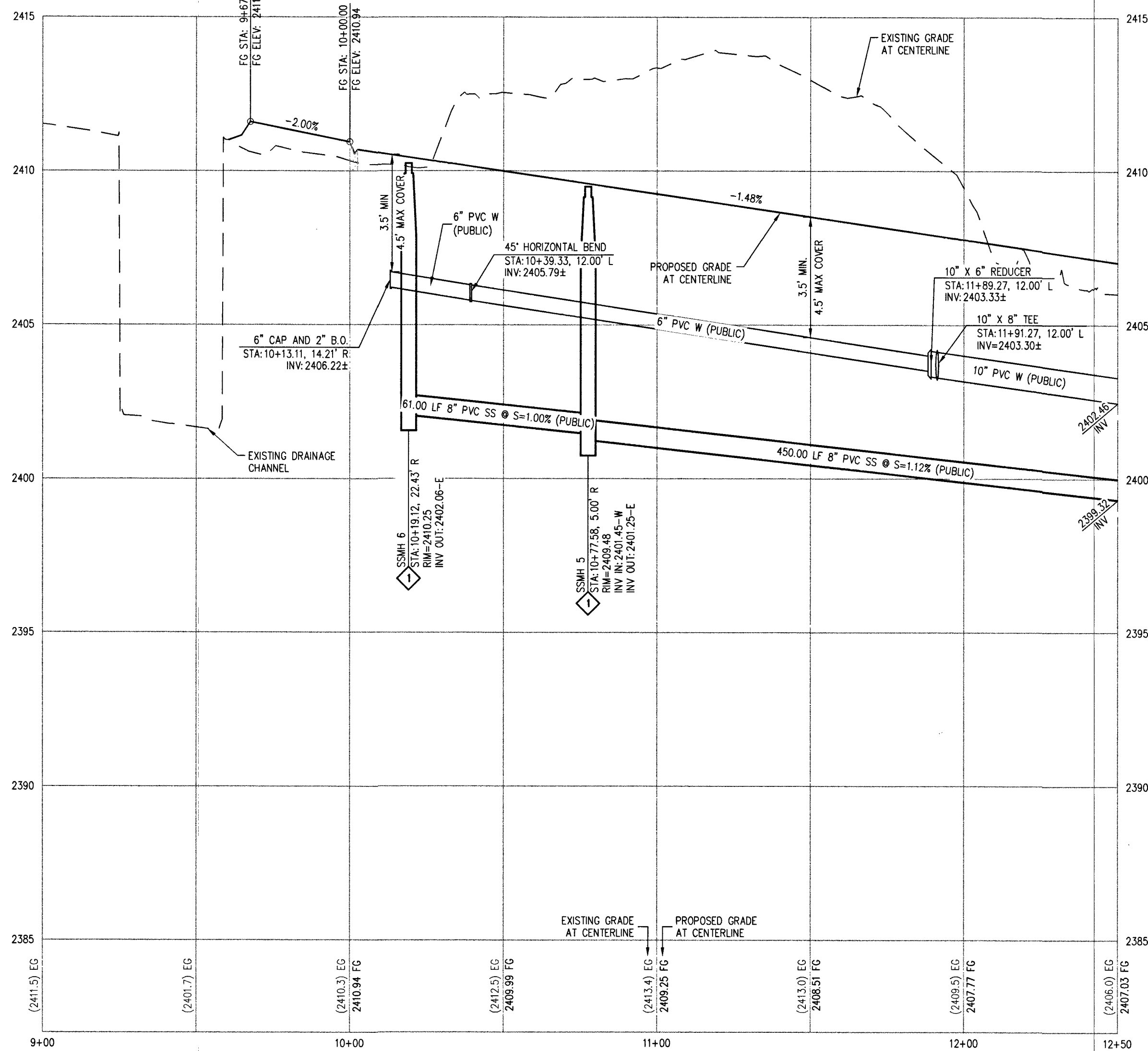
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DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO. PIN1702

PP-6
SHEET 16 OF 35
18-10396
L18-00094

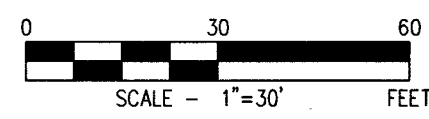
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WOLF MOUNTAIN CT - PLAN VIEW
PRIVATE



WOLF MOUNTAIN CT - PROFILE VIEW
HORIZ: 1" = 30'
VERT: 1" = 3'



SWG DISCLAIMER

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SEWER CONSTRUCTION NOTES

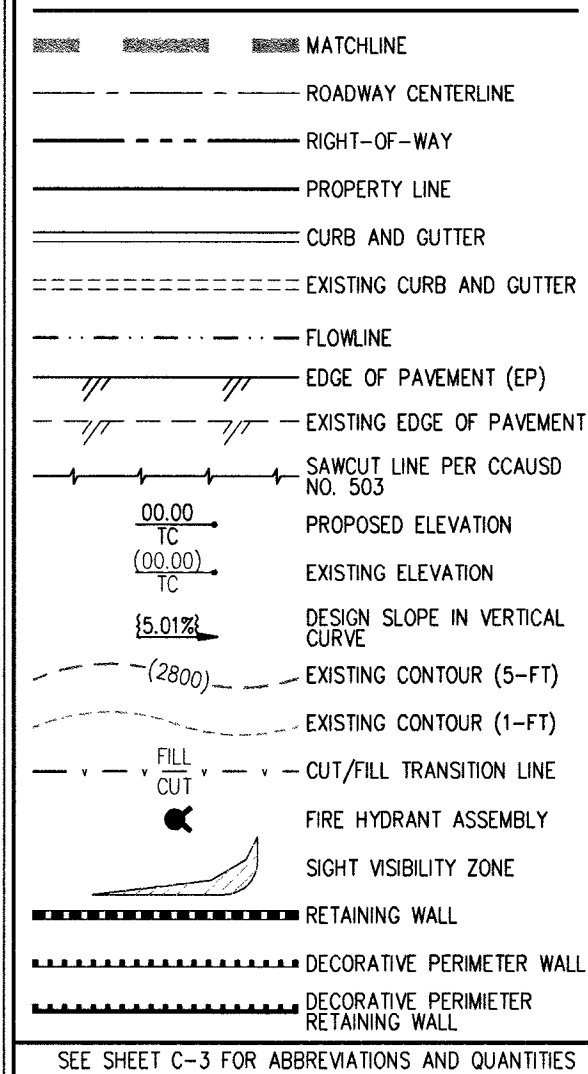
1. INSTALL 4\"/>

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT)	"B" (FT)
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO -1	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND



DEPTH OF COVER DURING CONSTRUCTION

1. MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08 (4). GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

NOTE

1. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM #1)
2. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03
4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22

GENERAL NOTES

1. PROTECT IN PLACE AND ADJUST LIVING EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LIVING FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES
2. LIVING CANNOT GUARANTEE A WATERIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
3. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

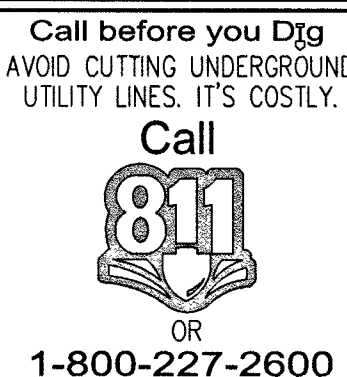
EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CDPW.

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C7	17.73'	19.50'	52°06'29"	9.53'
C8	218.26'	44.00'	284°12'59"	34.24'
C9	17.73'	19.50'	52°06'29"	9.53'



CONSTRUCTION NOTES

1. INSTALL 2\"/>
2. INSTALL 3\"/>
3. INSTALL 5\"/>
4. INSTALL 1\"/>
5. INSTALL 10\"/>
6. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRIANGULAR DOWNS OR EQUIVALENT PER CCAUS NO. 235, CASE I & 235.1 AND DETAIL 33 ON SHEET D-2
7. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUS NO. 503, 500.4, & 500.5
8. INSTALL CONCRETE SIDEWALK (4\"/>
9. INSTALL VALLEY GUTTER PER CCAUS NO. 228
10. INSTALL 6\"/>
11. INSTALL SIDEWALK DRAIN PER CCAUS NO. 236
12. INSTALL 18\"/>
13. INSTALL 4\"/>
14. NOT USED
15. INSTALL DEPRESSURE CURB PER DETAIL 32 ON SHEET D-2
16. CONSTRUCT 2\"/>
17. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CDPW
18. REMOVE EXISTING SD PLUG AND INSTALL 48\"/>
19. CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUS NO. 406
20. EXISTING 18\"/>
21. INSTALL 10\"/>
22. EXISTING 24\"/>
23. EXISTING 48\"/>
24. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48\"/>
25. EXISTING AREA DRAIN TO REMAIN
26. REMOVE EXISTING AC
27. INSTALL 6\"/>

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: 00V00 45W06
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, W.3M. CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 3200302135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.

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.

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/REPLENISHING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

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

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

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

CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

PLAN AND PROFILE - WOLF MOUNTAIN COURT I

DATE:

03/26/18

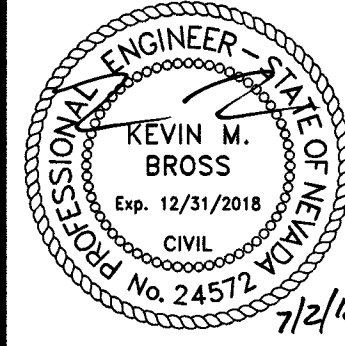
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DESIGNER: EMH

CHECKED: KMB

PROJECT NO.

PIN1702



PP-7

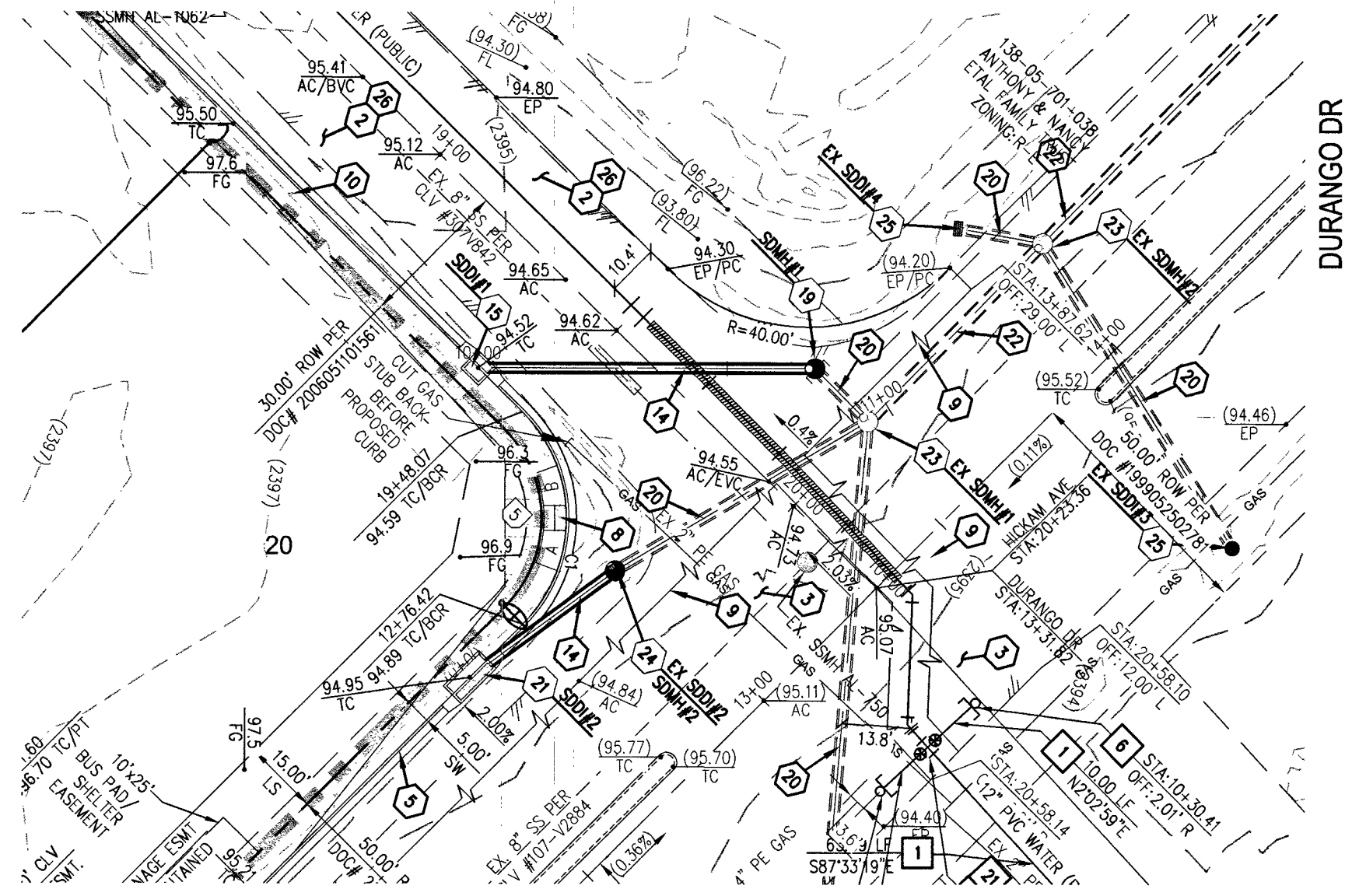
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18-10396
L18-00094

PROJ.#125650 AGREE#116750 QS:138-05-SE

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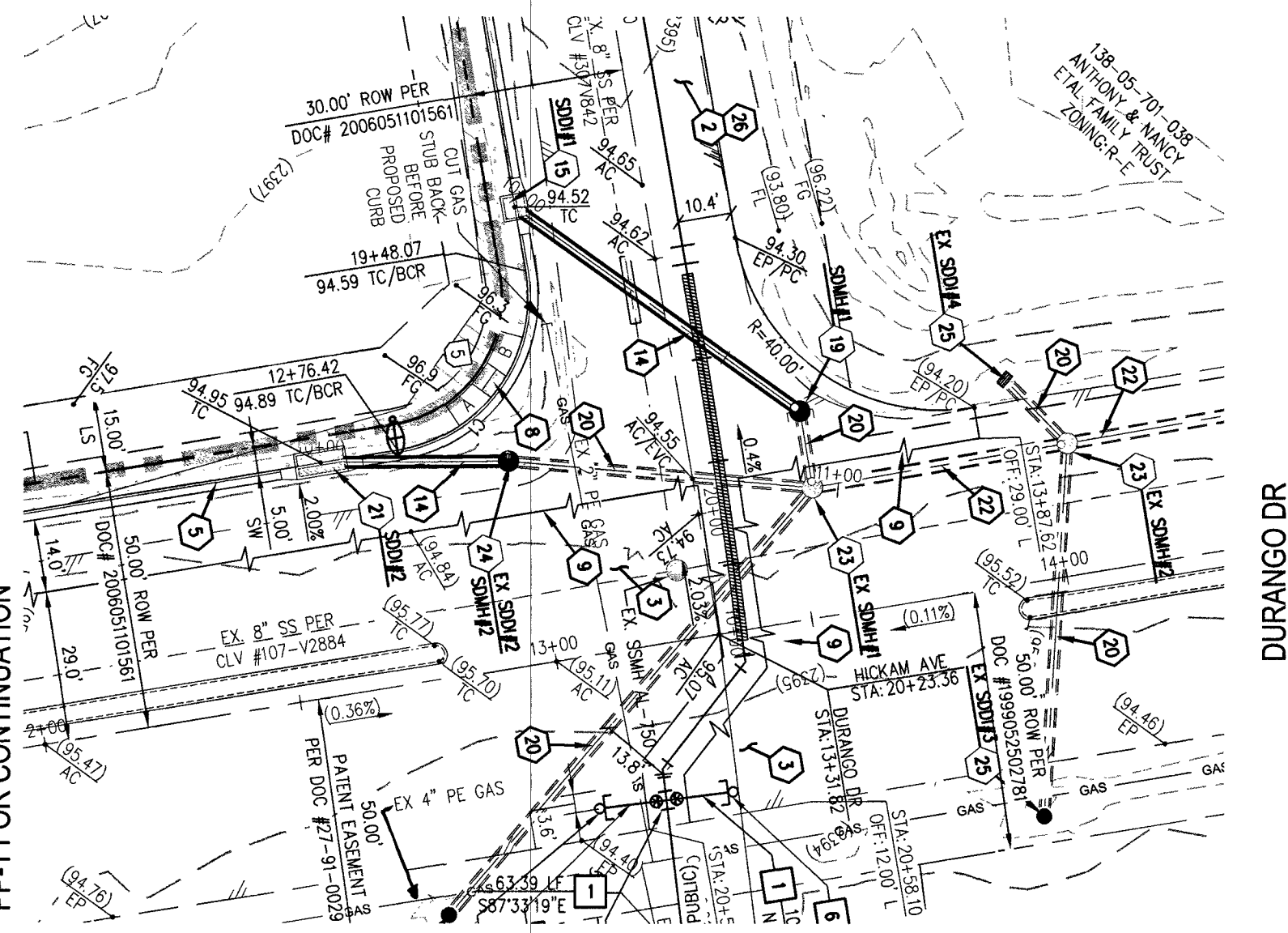
HICKAM AVE SEE SHEET
PP-3 FOR CONTINUATION



DURANGO DR SEE SHEET
PP-1 FOR CONTINUATION

SD LATERAL - PLAN VIEW
PUBLIC

HICKAM AVE SEE SHEET
PP-3 FOR CONTINUATION



SD LATERAL - PLAN VIEW
PUBLIC

0 30 60
SCALE = 1"=30'
FEET

SWG DISCLAIMER

THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS OF ANY LOSS OR DAMAGE, HOWEVER ARISING FROM THE USE OF OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

SEWER CONSTRUCTION NOTES

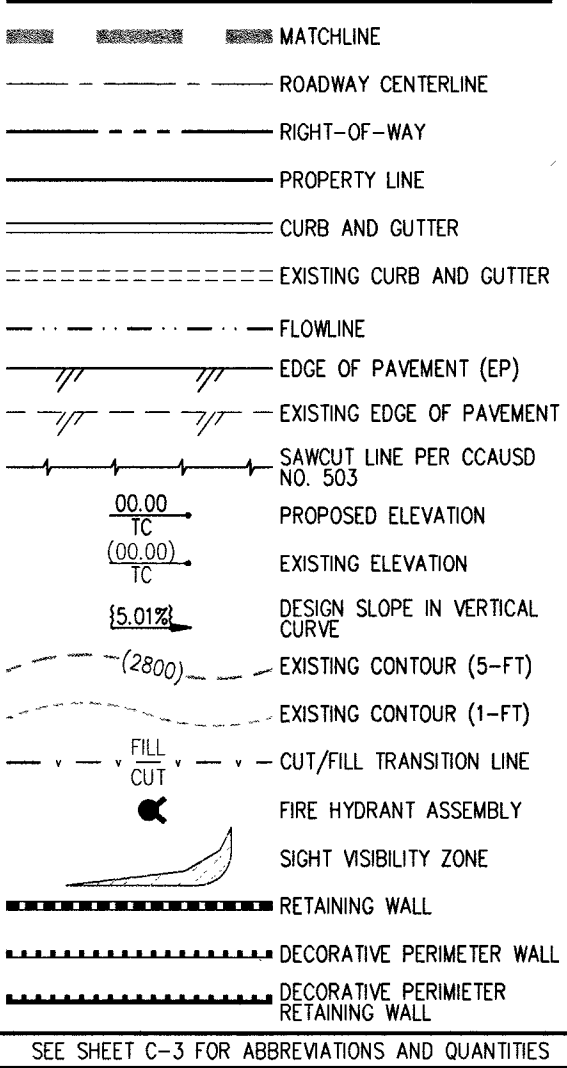
1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWS SD-1A, SD-1B, SD-4, SD-7 AND SD-9 (SINGLE 24" ID)
2. INSTALL 8" PVC SANITARY SEWER PIPE PER SD-17 (PUBLIC)
3. 4" PVC SEWER LATERAL PER SD-22 & SD-25
4. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING SEWER STUB
5. INSTALL 8" C-900 SANITARY SEWER PIPE PER SD-17 (PUBLIC)

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT)	"B" (FT)
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND



SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT: 15,270 CU YDS
FILL: 15,416 CU YDS
EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

SOUTHWEST GAS APPROVAL

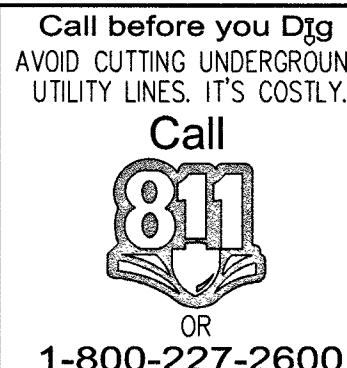
[Signature] 7.5.18
SOUTHWEST GAS CORPORATION DATE

WATER CONSTRUCTION NOTES

1. INSTALL 12" PVC WATER PIPE (2538 WP2)
2. INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
3. INSTALL 12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
4. INSTALL 12" X 12" CROSS PER UDACS PLATE NO. 31

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	47.29'	30.00'	90°18'28"	30.16'
C16	7.85'	5.00'	89°57'00"	5.00'
C17	15.71'	30.00'	30°00'00"	8.04'



CONSTRUCTION NOTES

1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
2. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
3. INSTALL 4" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
4. INSTALL A TYPE CURB PER CCAUSD NO. 219
5. INSTALL L TYPE CURB PER CCAUSD NO. 216
6. INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
7. INSTALL 10' Curb TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
8. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1 & 235.1 AND DETAIL 33 ON SHEET D-2
9. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4, & 500.5
10. INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
11. INSTALL VALLEY GUTTER PER CCAUSD NO. 228
12. INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
13. INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
14. INSTALL 18" CLASS III RCP STORM DRAIN
15. INSTALL 4" TYPE "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
16. NOT USED
17. INSTALL DEPRESSIONED CURB PER DETAIL 32 ON SHEET D-2
18. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW. REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
19. EXISTING 18" RCP CLASS III STORM DRAIN
20. INSTALL 10" TYPE "CM2" STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
21. EXISTING 24" CLASS III RCP STORM DRAIN
22. EXISTING 48" STORM DRAIN MANHOLE
23. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
24. EXISTING AREA DRAIN TO REMAIN
25. REMOVE EXISTING AC
26. INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: 0LVD0 4SWW6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, N.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2133F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

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DISCLAIMER NOTE

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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 UP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING NOTES

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4. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
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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/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT MEASURED FROM THE TOP OF THE ADJACENT CURB (IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

BY

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

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

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

CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

PLAN AND PROFILE - SD LATERAL

DATE:

03/26/18

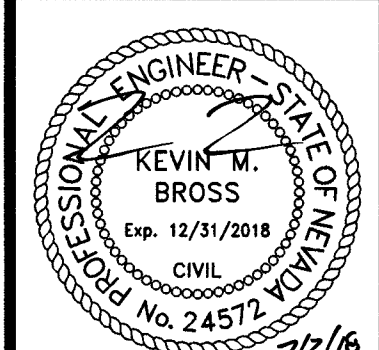
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CHECKER: EMH

CHECKED: KMB

PROJECT NO.

PIN1702



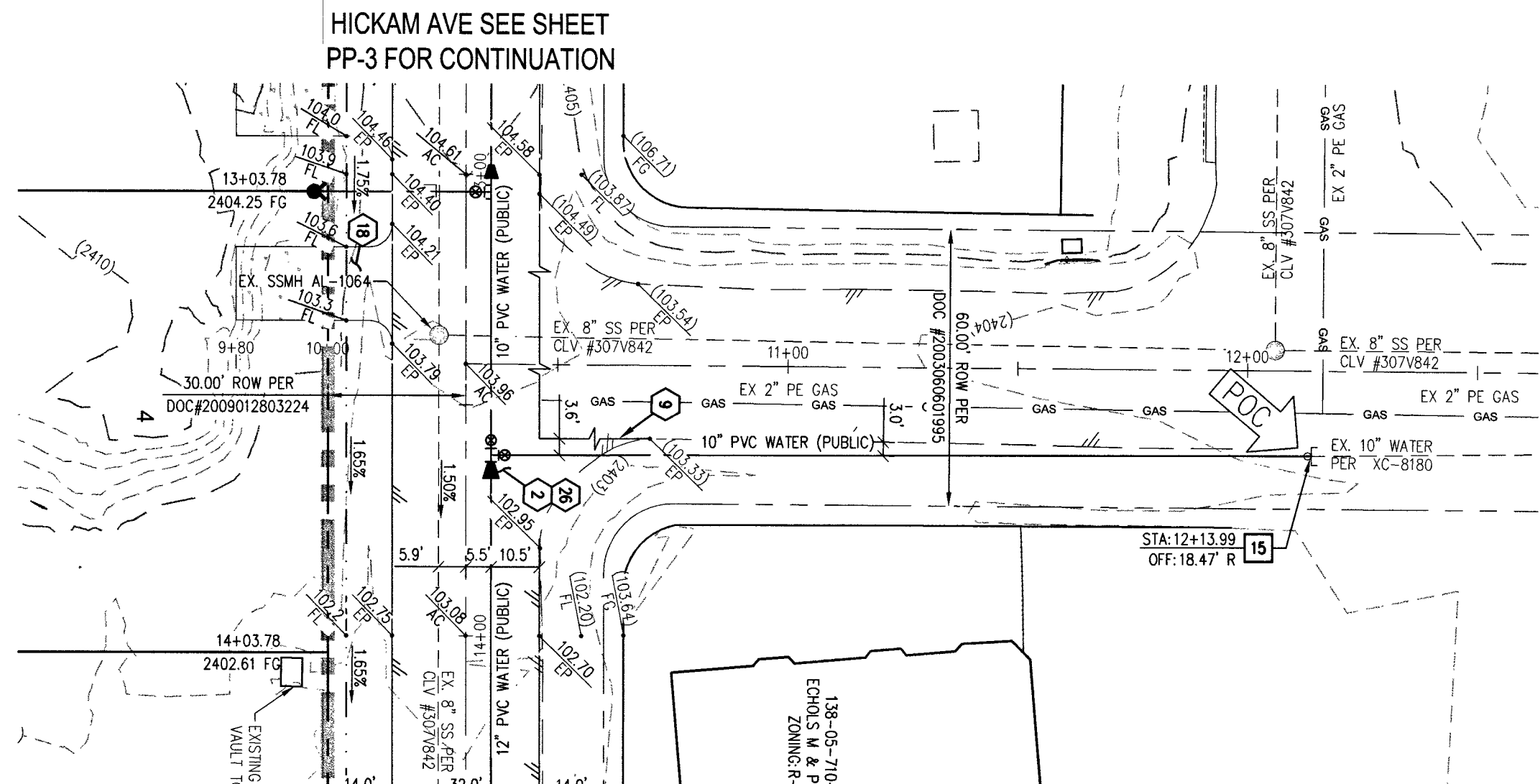
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SHEET 19 OF 35

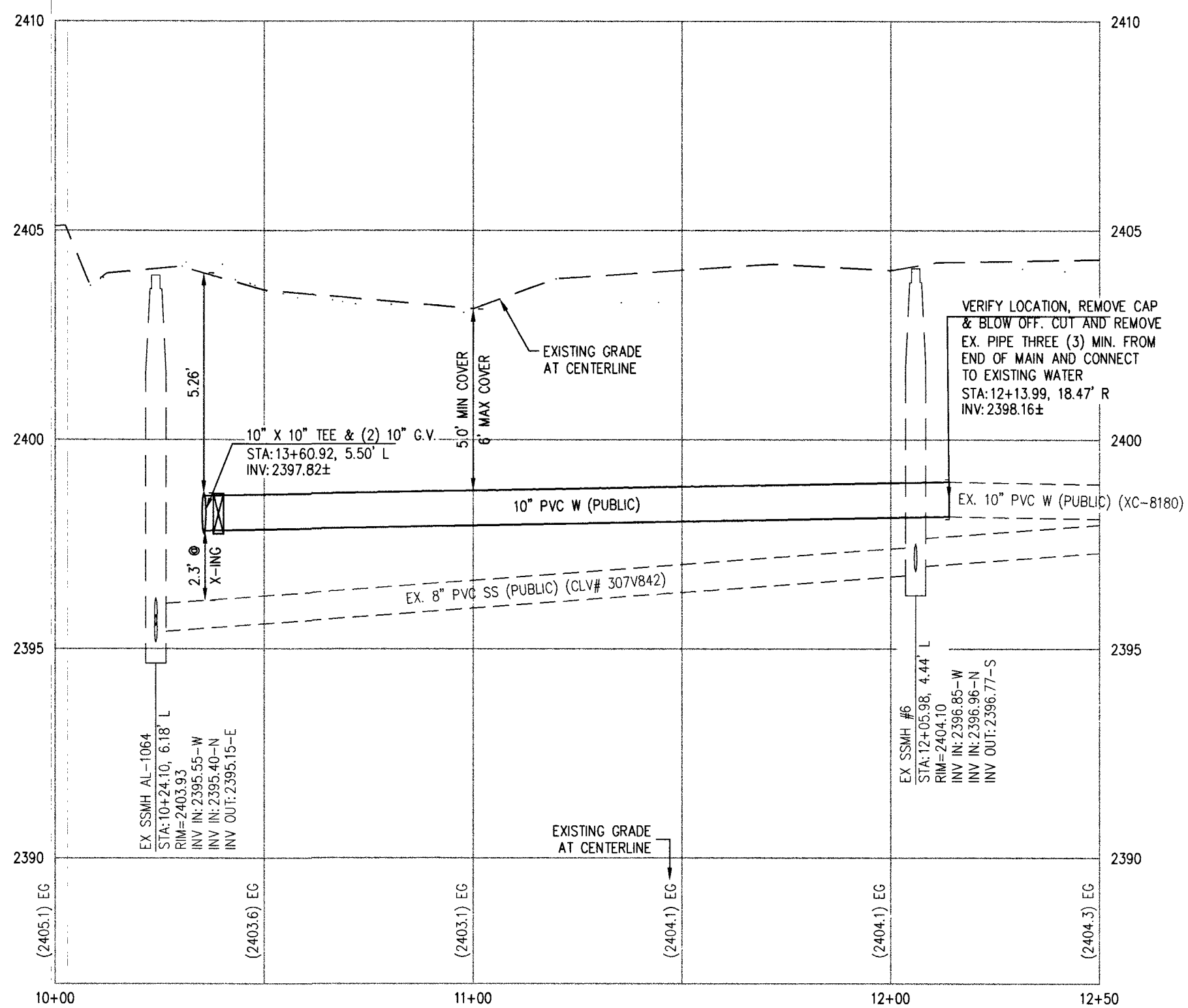
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L18-00094

PROJ#125650 AGREE#116750 QS:138-05-SE



BONITA VISTA ST- PLAN VIEW
PUBLIC



WATER CONSTRUCTION NOTES

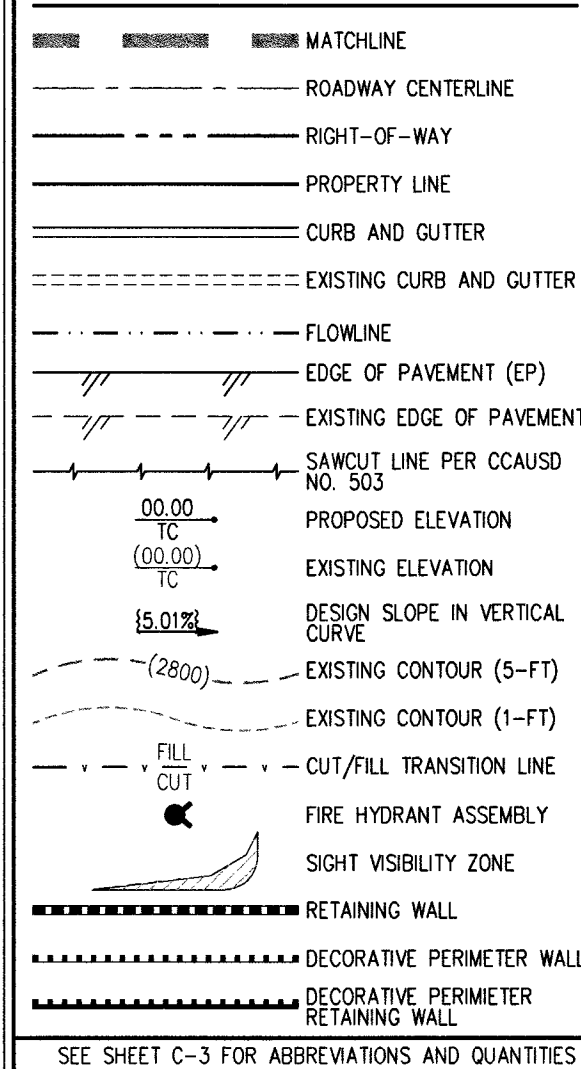
1. INSTALL 12" PVC WATER PIPE (2538 WP2)
6. INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
15. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING WATER. CUT AND REMOVE EX. PIPE 3' MIN. FROM END OF MAIN.
21. INSTALL 12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
32. INSTALL 12" X 12" CROSS PER UDACS PLATE NO. 31
33. INSTALL 12" X 8" REDUCER PER UDACS PLATE NO. 30
34. INSTALL 12" X 12" TAPPING SLEEVE AND VALVE PER UDACS PLATE NO. 34 (SECTION 2.24.01A)
35. INSTALL 11.25" HORIZONTAL BEND PER UDACS PLATE NO. 31

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT)	"B" (FT)
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO -1	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND



DEPTH OF COVER DURING CONSTRUCTION

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

NOTE

1. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM 1)
2. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03
4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.

GENERAL NOTES

1. PROTECT IN PLACE AND ADJUST LIVING EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LIVING FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES
2. LIVING CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
3. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SWG DISCLAIMER

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SOUTHWEST GAS APPROVAL

[Signature]
SOUTHWEST GAS CORPORATION
DATE: 7.5.18



CONSTRUCTION NOTES

1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
2. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
3. INSTALL 4" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
4. INSTALL A TYPE CURB PER CCAUSD NO. 219
5. INSTALL L TYPE CURB PER CCAUSD NO. 216
6. INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
7. INSTALL 10' CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
8. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1 & 235.1 AND DETAIL 33 ON SHEET D-2
9. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4, & 500.5
10. INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
11. INSTALL VALLEY GUTTER PER CCAUSD NO. 228
12. INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
13. INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
14. INSTALL 18" CLASS III RCP STORM DRAIN
15. INSTALL 4" TYPE 'C' STORM DRAIN DROP INLET PER CCAUSD #413 & 421
16. NOT USED
17. INSTALL DEPRESSION CURB PER DETAIL 32 ON SHEET D-2
18. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPM
19. REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 408
20. EXISTING 18" RCP CLASS III STORM DRAIN
21. INSTALL 10" TYPE 'CM2' STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
22. EXISTING 24" CLASS III RCP STORM DRAIN
23. EXISTING 48" STORM DRAIN MANHOLE
24. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 408
25. EXISTING AREA DRAIN TO REMAIN
26. REMOVE EXISTING AC
27. INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: DLV00 45W6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 09°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, 11TH N.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBLISCURED DURING CONSTRUCTION.

DISCLAIMER NOTE

1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED UP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

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 GTECH 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/REPLETING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONE.
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

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

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

DESCRIPTION

CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

PLAN AND PROFILE - BONITA VISTA ST

DATE:

03/26/18

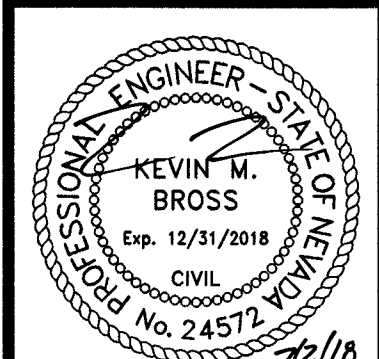
DRAFTER: EMH

DESIGNER: EMH

CHECKED: KMB

PROJECT NO.

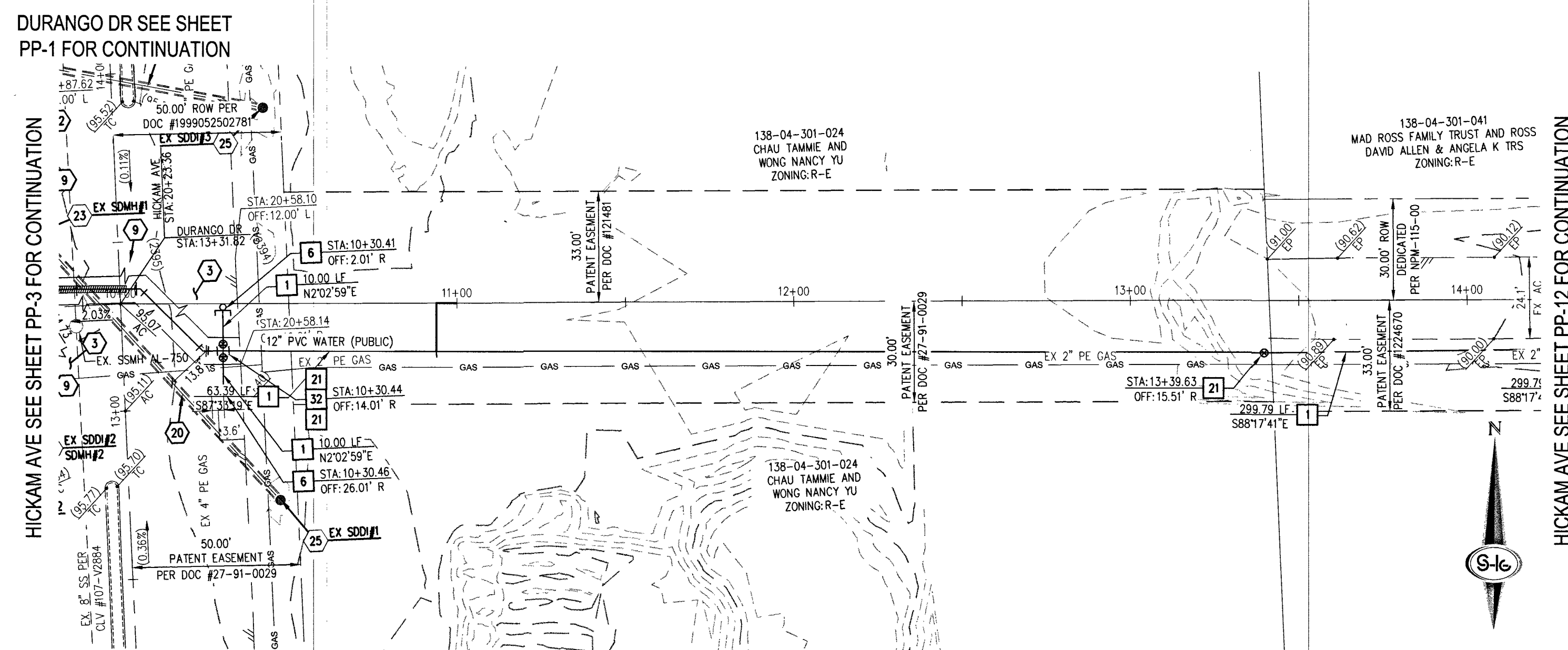
PIN1702



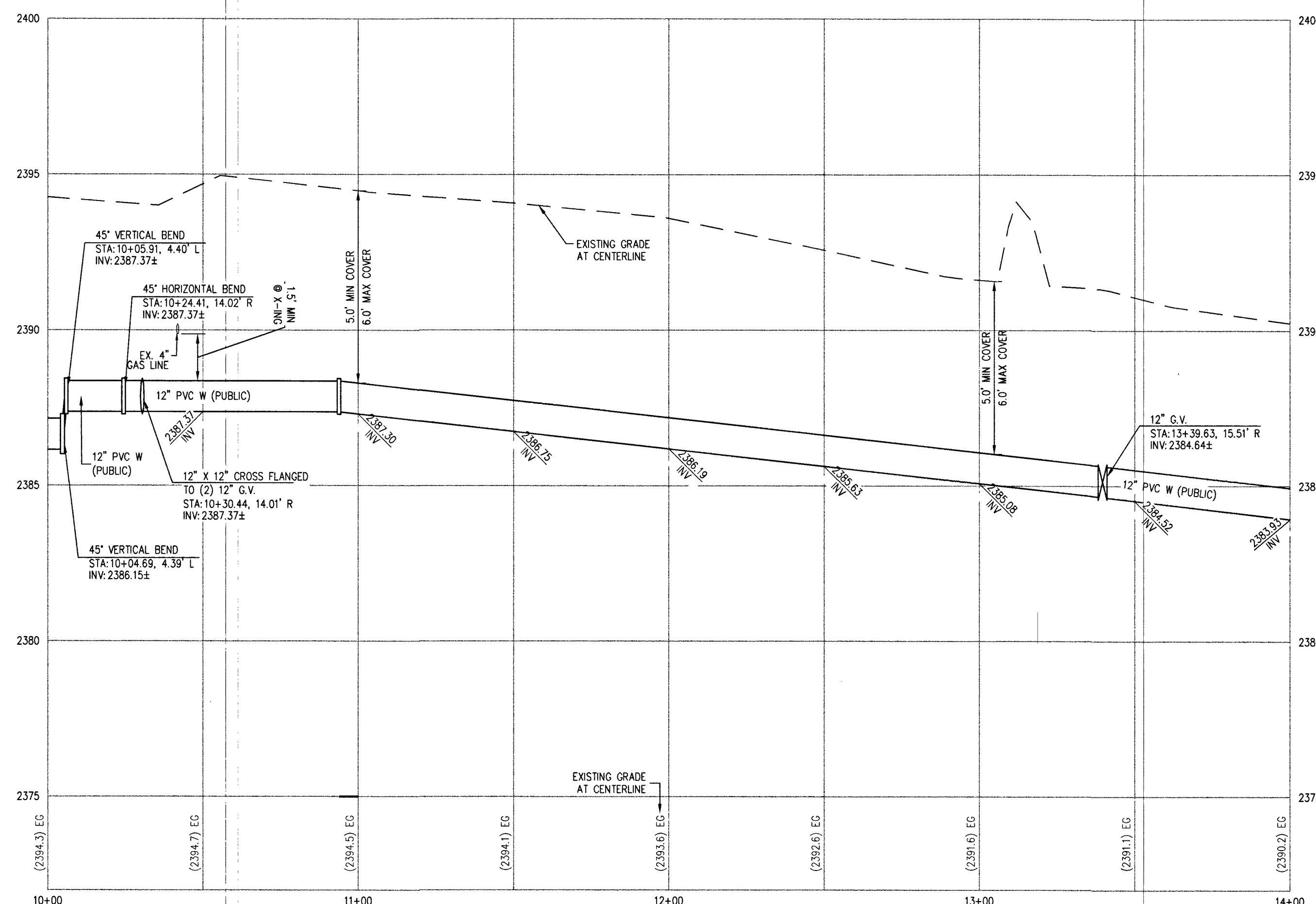
PP-10

SHEET 20 OF 35

18-10396
L18-00094



HICKAM AVE - PLAN VIEW
PUBLIC



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

WATER CONSTRUCTION NOTES

1	INSTALL 12" PVC WATER PIPE (2538 WPZ)
6	INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
15	FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING WATER. CUT AND REMOVE EX. PIPE 3' MIN. FROM END OF MAIN.
21	INSTALL 12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
32	INSTALL 12" x 12" CROSS PER UDACS PLATE NO. 31
33	INSTALL 12" x 8" REDUCER PER UDACS PLATE NO. 30
54	INSTALL 12" x 12" TAPPING SLEEVE AND VALVE PER UDACS PLATE NO. 34 (SECTION 2.24.01A)
36	INSTALL 11.25" HORIZONTAL BEND PER UDACS PLATE NO. 31

RAMP NUMBER	GRADE (%) "B" TO "A"	"A" FT.	"B" FT.
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO 2	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND

ROADWAY CENTERLINE	RIGHT-OF-WAY	PROPERTY LINE	CURB AND GUTTER	EXISTING CURB AND GUTTER	FLOWLINE	EXISTING EDGE OF PAVEMENT (EP)	EXISTING EDGE OF PAVEMENT	SAWTOOTH LINE PER CALSSAD NO. 503	PROPOSED ELEVATION	EXISTING ELEVATION	CURVE SLOPE IN VERTICAL DESIGN	EXISTING CONTOUR (5'-FT)	EXISTING CONTOUR (1'-FT)	CUT/FILL TRANSITION LINE	FIRE HYDRANT ASSEMBLY	SIGHT VISIBILITY ZONE	RETAINING WALL	DECORATIVE PERIMETER WALL	DECORATIVE PERIMETER RETAINING WALL

SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN
APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE
WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	47.29'	30.00'	90°18'28"	30.16'
C2	31.29'	20.00'	89°38'34"	19.88'
C3	31.53'	20.00'	90°19'19"	20.11'

SWG DISCLAIMER

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SOUTHWEST GAS APPROVAL

 7.5.18

SOUTHWEST GAS CORPORATION DATE

CONSTRUCTION NOTES

- 1 INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 2 INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 3 INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
- 4 INSTALL A TYPE CURB PER CCAUSD NO. 219
- 5 INSTALL L TYPE CURB PER CCAUSD NO. 216
- 6 INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 2171
- 7 INSTALL 10" CURB TRANSITION FROM L CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
- 8 INSTALL ADA SIDEWALK RAMP USING ARMOR TYPE TRUNCATED DORIES OR EQUIVALENT PER CCAUSD NO. 235, CLASS 18" RCP CLASS III AND DETAIL 33 ON SHEET D-2
- 9 SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4, & 500.5
- 10 INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
- 11 INSTALL VALLEY GUTTER PER CCAUSD NO. 228
- 12 INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
- 13 INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
- 14 INSTALL 18" CLASS III RCP STORM DRAIN
- 15 INSTALL 4" TYPE "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
- 16 NOT USED
- 17 INSTALL DEPRESSION CURB PER DETAIL 32 ON SHEET D-2
- 18 CONSTRUCTION 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-TYPICAL SECTION AND SHALL NOT BE MAINTAINED BY CDPW REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III C450 IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 19 EXISTING 18" RCP CLASS III STORM DRAIN
- 20 INSTALL 10" TYPE "CM2" STORM DRAIN DROP INLET PER CCAUSD #4121 & 421
- 21 EXISTING 24" CLASS III RCP STORM DRAIN
- 22 EXISTING 48" STORM DRAIN MANHOLE
- 23 REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
- 24 EXISTING AREA DRAIN TO REMAIN
- 25 REMOVE EXISTING AC
- 26 INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35, SHEET D-2

ELEVATION NOTE
 ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: OLVOO 4SWW6

BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT

ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 72003C0135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

DISCLAIMER NOTE

2) 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 LINE OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRADING NOTES

2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
3. ALL IMPROVEMENTS TO BE PROTECTED FROM SWMPP.
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.
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7. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT 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 DISCREPANCY PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLENISHING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS TO BE WITHIN 25 FEET (7.62 M) OF THE CURB OR HEIGHT MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST (WITHIN THE SIGHT VISIBILITY ZONES).
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE PRIOR TO THE COMPLETION OF THE PROJECT.

CLARK COUNTY DEPARTMENT OF
PUBLIC WORKS DEVELOPMENT REVIEW

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

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

APPROVED FOR CONSTRUCTION

H. I. SHARQI

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

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

OR
800-227-2600

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

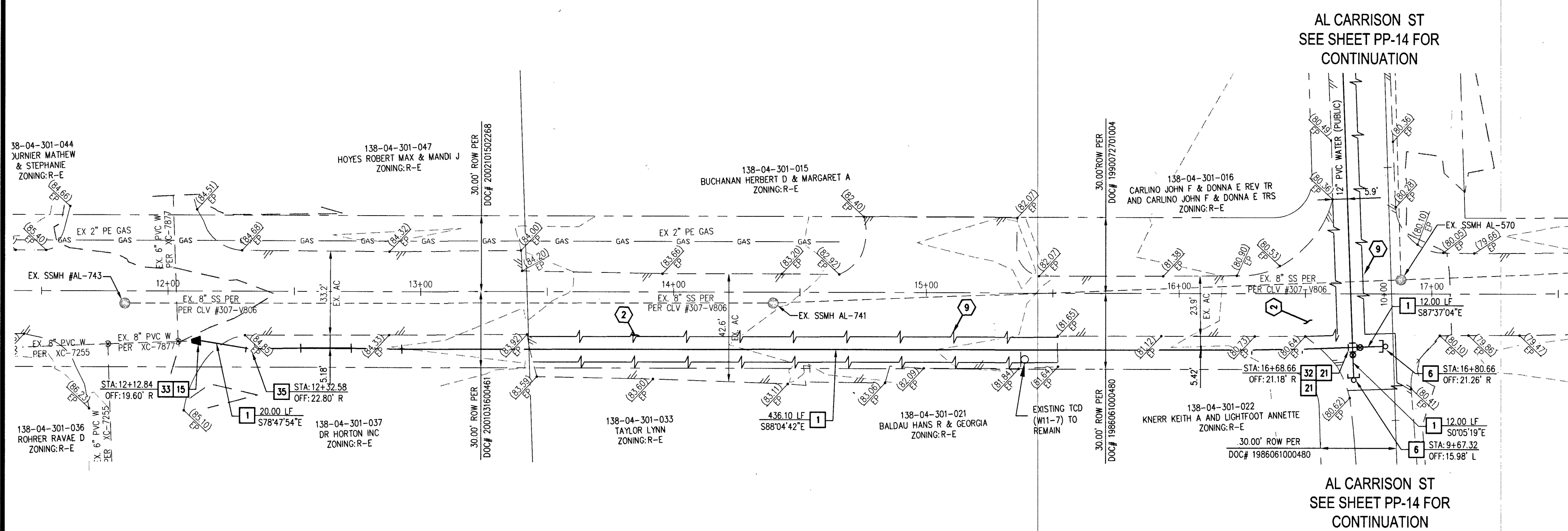
AVOID HITTING OVERHEAD
POWER LINES. IT'S
COSTLY.

CALL BEFORE
YOU DO
OVERHEAD

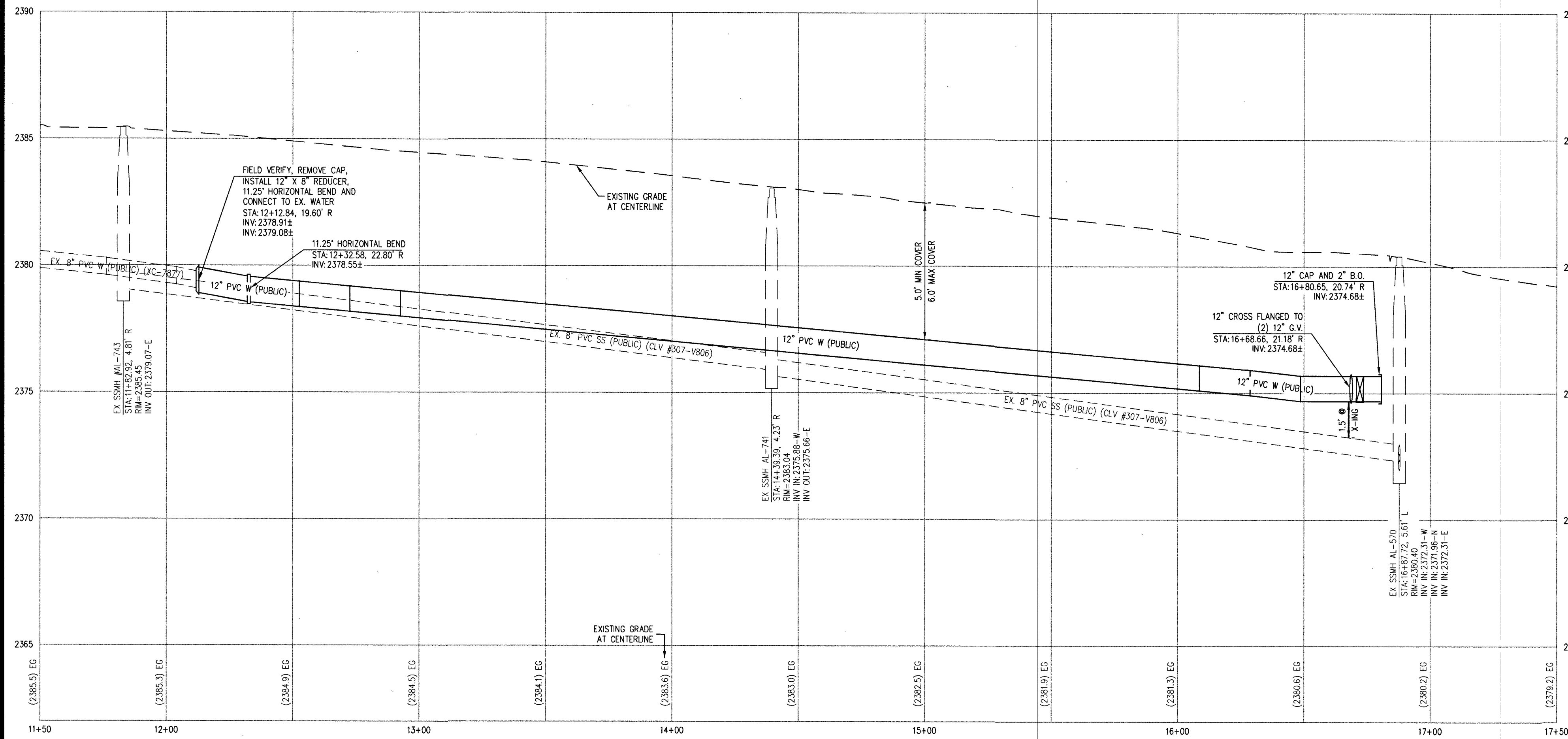
1-702-227-2929

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

Call
811
OR
1-800-227-2600



HELENA AVE- PLAN VIEW
PUBLIC



HELENA AVE- PROFILE VIEW

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

DEPTH OF COVER DURING CONSTRUCTION

1. MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDCS SECTION INSTALLATION.

NOTE

1. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I)
2. INSTALL PIPELINE WARNER BALLS, PER UDCS PLATE NO. 15
3. WATER MAIN JOINT DEFLECTION, PER UDCS 2.07.01 AND 2.07.03
4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDCS SECTION 2.22.

GENERAL NOTES

1. PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO ACCESSIBLE AT ALL TIMES
2. LVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN
3. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SWG DISCLAIMER

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SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORPORATION
DATE: 7-5-18

WATER CONSTRUCTION NOTES

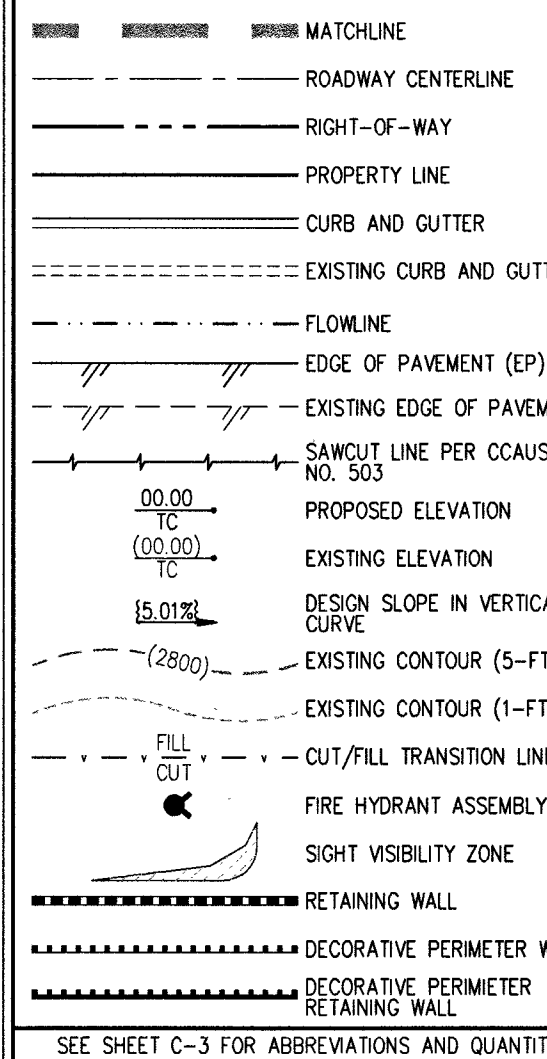
1. INSTALL 12" PVC WATER PIPE (2538 WP2)
2. INSTALL CAP AND 2" BLOW-OFF VALVE PER UDCS PLATE NO. 36
3. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING WATER. CUT AND REMOVE EX. PIPE 3" MIN. FROM END OF MAIN
4. INSTALL 12" GATE VALVE WITH VALVE BOX PER UDCS PLATE NO. 30 & 39
5. INSTALL 12" x 12" CROSS PER UDCS PLATE NO. 31
6. INSTALL 12" x 8" REDUCER PER UDCS PLATE NO. 30
7. INSTALL 12" x 12" TAPPING SLEEVE AND VALVE PER UDCS PLATE NO. 34 (SECTION 2.24.01A)
8. INSTALL 11.25" HORIZONTAL BEND PER UDCS PLATE NO. 31

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (%)	"A" (FT) MIN.	"B" (FT) MIN.
1	-6 TO -5.01	4.5	21.5
2	-5 TO -4.01	4.5	15.0
3	-4 TO -3.01	4.5	12.0
4	-3 TO -2.01	4.5	9.5
5	-2 TO -1	8.0	8.0
6	2.01 TO 3	9.5	4.5
7	3.01 TO 4	12.0	4.5
8	4.01 TO 5	15.0	4.5
9	5.01 TO 6	21.5	4.5

GRADING LEGEND



SOILS REPORT

SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

CONSTRUCTION NOTES

1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
2. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
3. INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
4. INSTALL A TYPE CURB PER CCAUS NO. 219
5. INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUS NO. 217.1
6. INSTALL 10" CURB TRANSITION FROM 1" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
7. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUS NO. 235, CASE I & 235.1 AND DETAIL 33 ON SHEET D-2
8. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUS NO. 503, 500.4, & 500.5
9. INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUS NO. 234
10. INSTALL VALLEY GUTTER PER CCAUS NO. 228
11. INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
12. INSTALL SIDEWALK DRAIN PER CCAUS NO. 236
13. INSTALL 18" CLASS III RCP STORM DRAIN
14. INSTALL 4" TYPE 'C' STORM DRAIN DROP INLET PER CCAUS #413 & 421
15. NOT USED
16. INSTALL DEPRESSIONED CURB PER DETAIL 32 ON SHEET D-2
17. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW. REMOVE EXISTING SOI PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUS NO. 406
18. EXISTING 18" RCP CLASS III STORM DRAIN
19. INSTALL 10" TYPE 'C2' STORM DRAIN DROP INLET PER CCAUS #412 & 421
20. EXISTING 24" CLASS III RCP STORM DRAIN
21. EXISTING 48" STORM DRAIN MANHOLE
22. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUS NO. 406
23. EXISTING AREA DRAIN TO REMAIN
24. REMOVE EXISTING AC
25. INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE

ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK

BENCHMARK NUMBER: 00V00 45W06
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, N.M.S. CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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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/REPLENISHING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
9. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.
10. SECTION II OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED FOR THE COMPLETION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

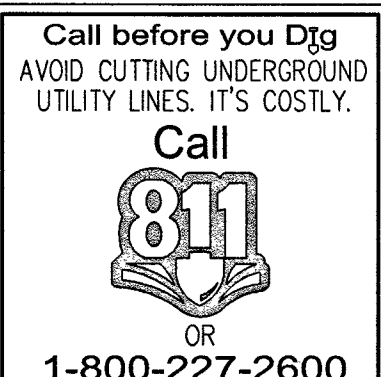
BY:

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

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

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125650 FIRST APPROVED DATE 7/18/18



CLARK COUNTY, NEVADA

PINNACLE HOMES

ELK RIDGE ESTATES IV

PLAN AND PROFILE - OFFSITE WATER HELENA AVE

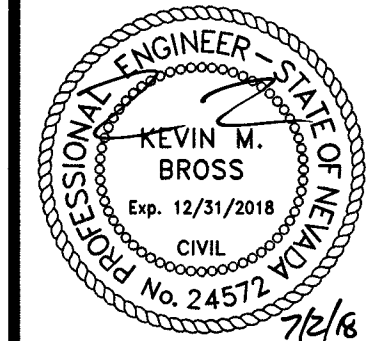
DATE: 03/26/18

DRAFTER: EMH

DESIGNER: EMH

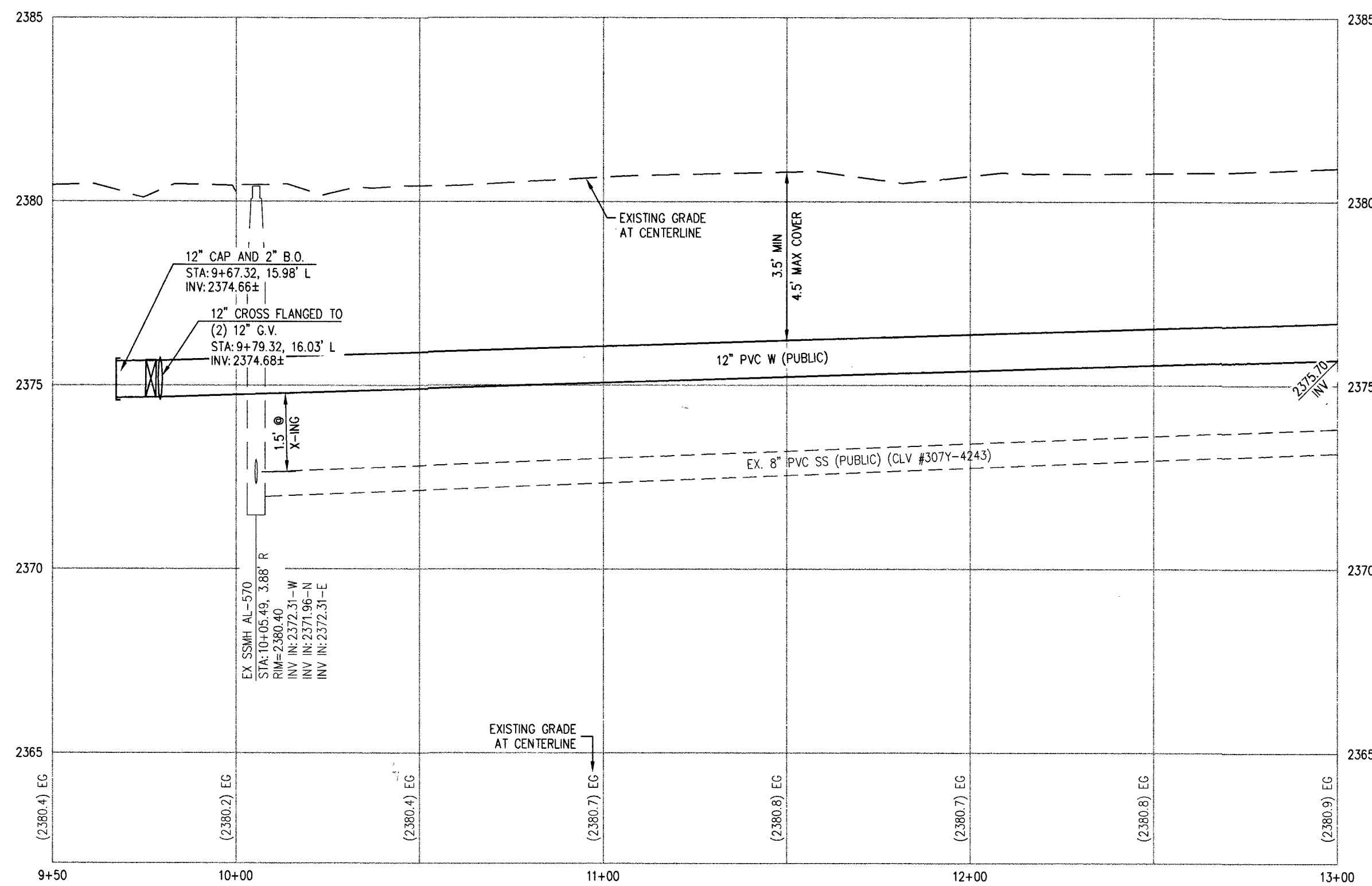
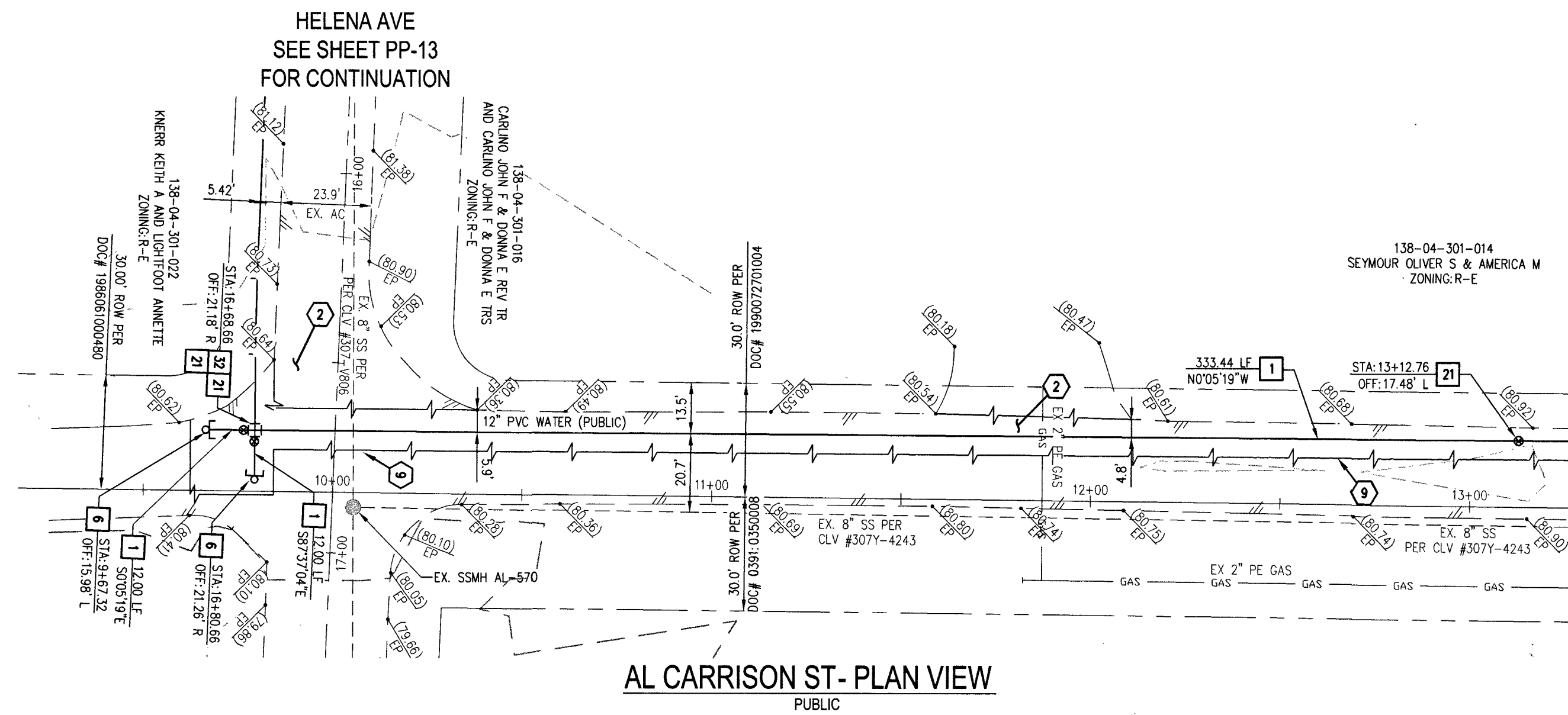
CHECKED: KMB

PROJECT NO.
PIN1702



PP-13
SHEET 23 OF 35

18-10396
L18-00094



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

SOUTHWEST GAS APPROVAL
[Signature] 7.5.18
SOUTHWEST GAS CORPORATION DATE

SWG DISCLAIMER
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- WATER CONSTRUCTION NOTES**
1. INSTALL 12" PVC WATER PIPE (2538 WP2)
 2. INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
 3. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING WATER. CUT AND REMOVE EX. PIPE 3' MIN. FROM END OF MAIN.
 4. INSTALL 12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
 5. INSTALL 12" X 12" CROSS PER UDACS PLATE NO. 31
 6. INSTALL 12" X 8" REDUCER PER UDACS PLATE NO. 30
 7. INSTALL 12" X 12" TAPPING SLEEVE AND VALVE PER UDACS PLATE NO. 34 (SECTION 2.24.014)
 8. INSTALL 11.25" HORIZONTAL BEND PER UDACS PLATE NO. 31

SIDEWALK RAMP TABLE

RAMP NUMBER	GRADE (FOOT)	"A" (FOOT) MIN.	"B" (FOOT) MIN.
(1)	-6 TO -5.01	4.5	21.5
(2)	-5 TO -4.01	4.5	15.0
(3)	-4 TO -3.01	4.5	12.0
(4)	-3 TO -2.01	4.5	9.5
(5)	-2 TO -1	8.0	8.0
(6)	2.01 TO 3	9.5	4.5
(7)	3.01 TO 4	12.0	4.5
(8)	4.01 TO 5	15.0	4.5
(9)	5.01 TO 6	21.5	4.5

- GRADING LEGEND**
- ROADWAY CENTERLINE
 - RIGHT-OF-WAY
 - PROPERTY LINE
 - CURB AND GUTTER
 - EXISTING CURB AND GUTTER
 - FLOWLINE
 - EDGE OF PAVEMENT (EP)
 - EXISTING EDGE OF PAVEMENT
 - SAWCUT LINE PER CCAUSD NO. 303
 - PROPOSED ELEVATION
 - EXISTING ELEVATION
 - DESIGN SLOPE IN VERTICAL CURVE
 - EXISTING CONTOUR (5'-FT)
 - EXISTING CONTOUR (1'-FT)
 - FILL CUT
 - CUT/FILL TRANSITION LINE
 - FIRE HYDRANT ASSEMBLY
 - SIGHT VISIBILITY ZONE
 - RETAINING WALL
 - DECORATIVE PERIMETER WALL
 - DECORATIVE PERIMETER RETAINING WALL
- SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

- DEPTH OF COVER DURING CONSTRUCTION**
1. MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION INSTALLATION.
 2. 2.08' OR, GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

- NOTE**
1. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I)
 2. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
 3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03
 4. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.

- GENERAL NOTES**
1. PROTECT IN PLACE AND ADJUST LIVING EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LIVING FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES
 2. LIVING CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
 3. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SOILS REPORT
SOILS REPORT BY WRIGHT ENGINEERS
PROJECT NO. 171083 DATED 06/30/2017

EARTHWORKS
EARTHWORK QUANTITIES (RAW):
CUT= 15,270 CU YDS
FILL= 15,416 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRIVEWAY NOTE
PROPOSED DRIVEWAY APPROACH IS A NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	47.29'	30.00'	90°18'28"	30.16'
C2	31.29'	20.00'	89°38'34"	19.88'
C3	31.53'	20.00'	90°19'19"	20.11'

FAST
Call before you Dig
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 Dig
1-702-227-2929

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

- CONSTRUCTION NOTES**
1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
 2. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
 3. INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
 4. INSTALL A TYPE CURB PER CCAUSD NO. 219
 5. INSTALL L TYPE CURB PER CCAUSD NO. 216
 6. INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
 7. INSTALL 10" CURB TRANSITION FROM "L" CURB TO MODIFIED ROLL CURB PER DETAIL 34 ON SHEET D-2
 8. CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRIANGULAR DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE I & 235.1 AND DETAIL 33 ON SHEET D-2
 9. SAWCUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500.4, & 500.5
 10. INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
 11. INSTALL VALLEY GUTTER PER CCAUSD NO. 228
 12. INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
 13. INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
 14. INSTALL 18" CLASS III RCP STORM DRAIN
 15. INSTALL 4" TYPE 1C STORM DRAIN DROP INLET PER CCAUSD #413 & 421
 16. NOT USED
 17. INSTALL DEPRESSED CURB PER DETAIL 32 ON SHEET D-2
 18. CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE I AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW.
 19. REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
 20. EXISTING 18" RCP CLASS III STORM DRAIN
 21. INSTALL 10" TYPE 1C2 STORM DRAIN DROP INLET PER CCAUSD #412.1 & 421
 22. EXISTING 24" CLASS III RCP STORM DRAIN
 23. EXISTING 48" STORM DRAIN MANHOLE
 24. REMOVE EXISTING AREA DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 406
 25. EXISTING AREA DRAIN TO REMAIN
 26. REMOVE EXISTING AC
 27. INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

ELEVATION NOTE
ADD 2300 TO ALL SPOT GRADES WHERE THE HUNDREDS AND THOUSANDS PLACES ARE OMITTED FOR ACTUAL ELEVATION (I.E. 101.00 REPRESENTS 2401.00)

BENCHMARK
BENCHMARK NUMBER: 00V00 45W06
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS
NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 6 EAST, M.D.M. CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN). PER FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2135F, UPDATED NOVEMBER 16, 2011.

SURVEY NOTE
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.

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.

- 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.
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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
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125652 FIRST APPROVED DATE 7/18/18

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

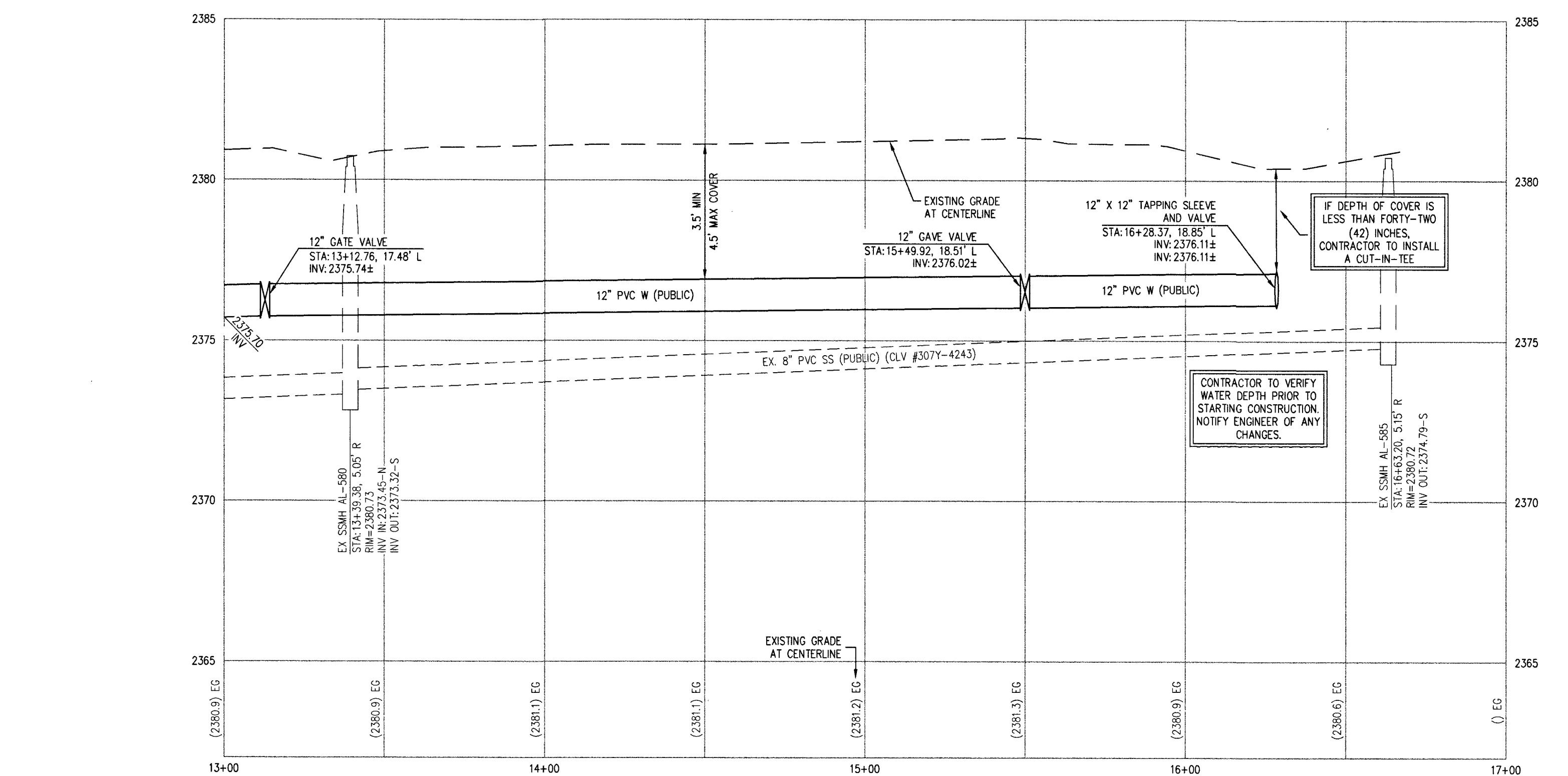
CLARK COUNTY, NEVADA

PINNACLE HOMES
ELK RIDGE ESTATES IV
PLAN AND PROFILE - OFFSITE WATER AL CARRISON ST

DATE: 03/26/18
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KWB
PROJECT NO. PIN1702

PP-14
SHEET 24 OF 35
18-10396
L18-00094

PROJ# 125650 AGREE# 116750 QS: 18-05-SE



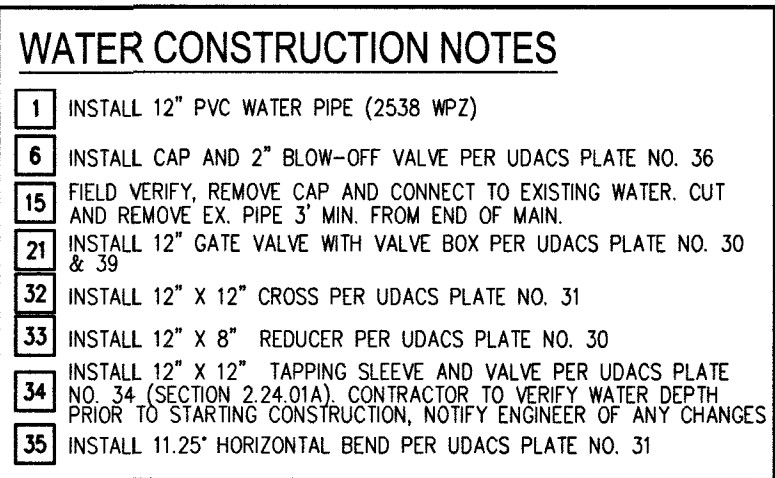
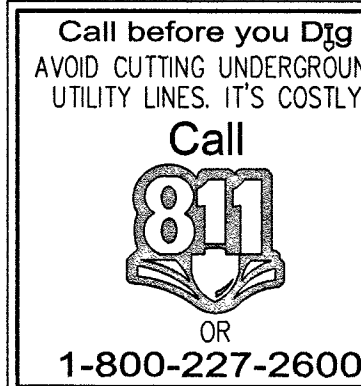
WATER NOTES

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2. INSTALL PIPELINE MARKER BALLS, PER UDCAS PLATE NO. 15, AND WATER MAIN JACKET DEFLECTION PER UDCAS 2.07.01 AND 2.07.03.
3. PROTECT IN PLACE ALL EXISTING LIVING EXISTING FACILITIES TO FINISHED GRADE PER UDCAS. ALL LIVING FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
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6. DEPTH OF COVER DURING CONSTRUCTION
7. MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDCAS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

SWG DISCLAIMER

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



CONSTRUCTION NOTES	
1	INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
2	INSTALL 3" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
3	INSTALL 5" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
4	INSTALL A TYPE CURB PER CCAUSD NO. 219
5	INSTALL L TYPE CURB PER CCAUSD NO. 216
6	INSTALL 30" MODIFIED ROLL TYPE CURB PER CCAUSD NO. 2171
7	INSTALL 10' CURB TRANSITION FROM "L" CURB TO MODIFIED ROLL TYPE CURB PER DETAIL 34 ON SHEET D-2
8	CONSTRUCT ADA SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWMS OR EQUIVALENT PER CCAUSD NO. 503, 500, 4 & 2361 AND DETAIL 35 ON SHEET D-2
9	SAWOUT AND MATCH EXISTING PAVEMENT PER CCAUSD NO. 503, 500, 4 & 500.5
10	INSTALL CONCRETE SIDEWALK (4" THICK WITH 5" TYPE II AGGREGATE BASE) PER CCAUSD NO. 234
11	INSTALL VALLEY GUTTER PER CCAUSD NO. 228
12	INSTALL 6" HIGH WROUGHT IRON FENCE WITH VEHICLE GATE
13	INSTALL SIDEWALK DRAIN PER CCAUSD NO. 236
14	INSTALL 18" CLASS III "C" RCP STORM DRAIN
15	INSTALL 4" CLASS III "C" STORM DRAIN DROP INLET PER CCAUSD #413 & 421
16	NOT USED
17	INSTALL DEEPRESSED CURB PER DETAIL 32 ON SHEET D-2
18	CONSTRUCT 2' AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER DETAIL 18 ON SHEET D-1. PROPOSED DRIVEWAY APPROACH IS NON-STANDARD SECTION AND SHALL NOT BE MAINTAINED BY CCPW
19	REMOVE EXISTING SD PLUG AND INSTALL 48" TYPE III C-24 IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 408
20	EXISTING 48" RCP CLASS III MANHOLE DRAIN
21	INSTALL 10" TYPE "C2" STORM DRAIN DROP INLET PER CCAUSD #412 & 421
22	EXISTING 24" CLASS III RCP STORM DRAIN
23	EXISTING 48" STORM DRAIN MANHOLE
24	REMOVE EXISTING STORM DRAIN AND INSTALL WITH 48" TYPE III CAST-IN-PLACE STORM DRAIN MANHOLE PER CCAUSD NO. 408
25	EXISTING AREA STORM DRAIN TO REMAIN
26	REMOVE EXISTING AC
27	INSTALL 6" HIGH TUBULAR STEEL 12" MIN. WIDTH DOUBLE GATES PER DETAIL 35 SHEET D-2

BENCHMARK

BENCHMARK NUMBER: OLVOO 4SWWS

BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT

ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 50 EAST, JUDITH, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

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10. SECTION IF OF THE DRAINAGE COMPLIANCE REPORT IS REQUIRED TO CONSTRUCTION OF THE STORM DRAIN AND DRAINAGE EASEMENTS PRIOR TO FINAL BUILDING.

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APPROVED FOR CONSTRUCTION

4 / *ISHAQ*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 125650 FIRST APPROVED DATE 7/18/18

CLARK COUNTY, NEVADA

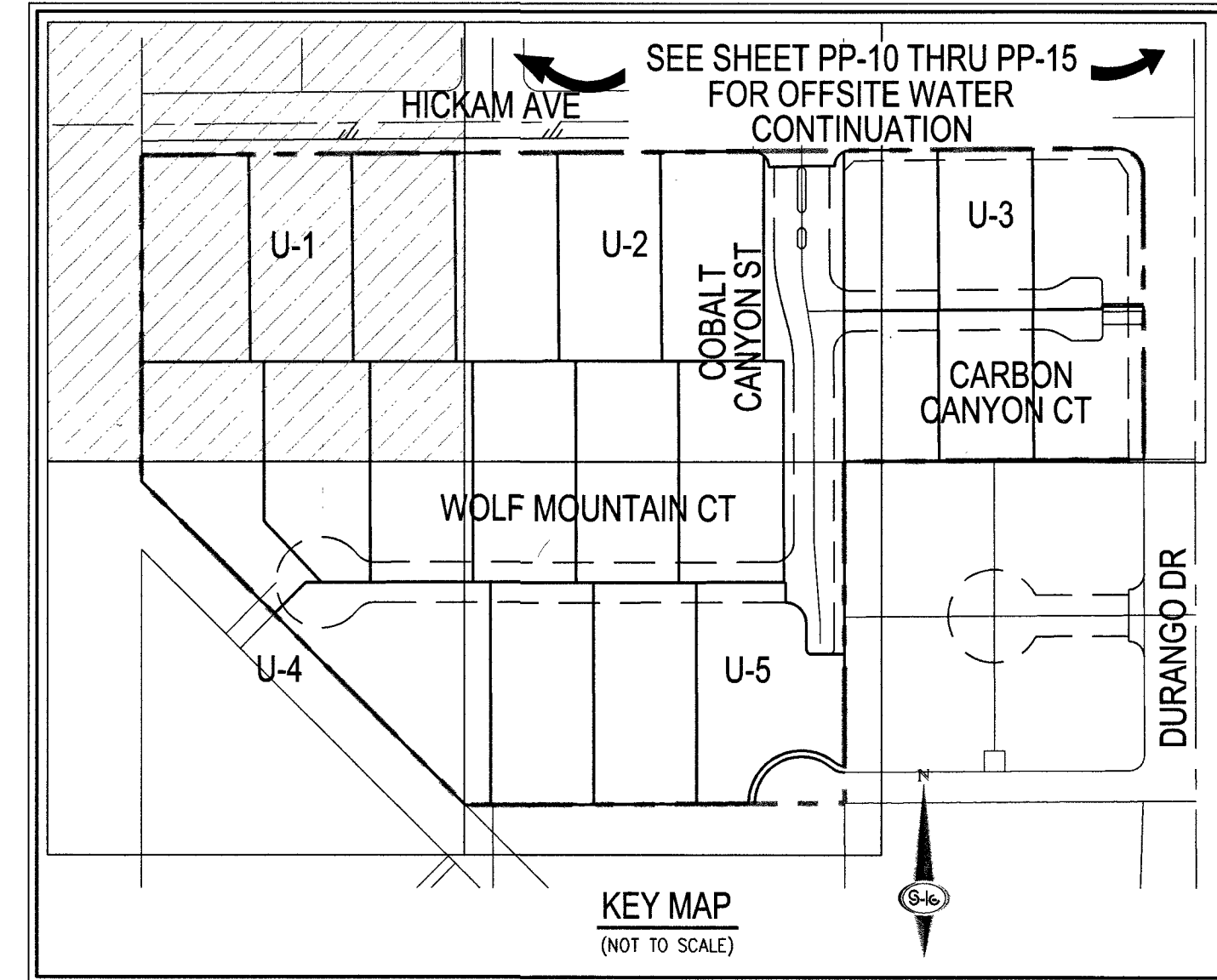
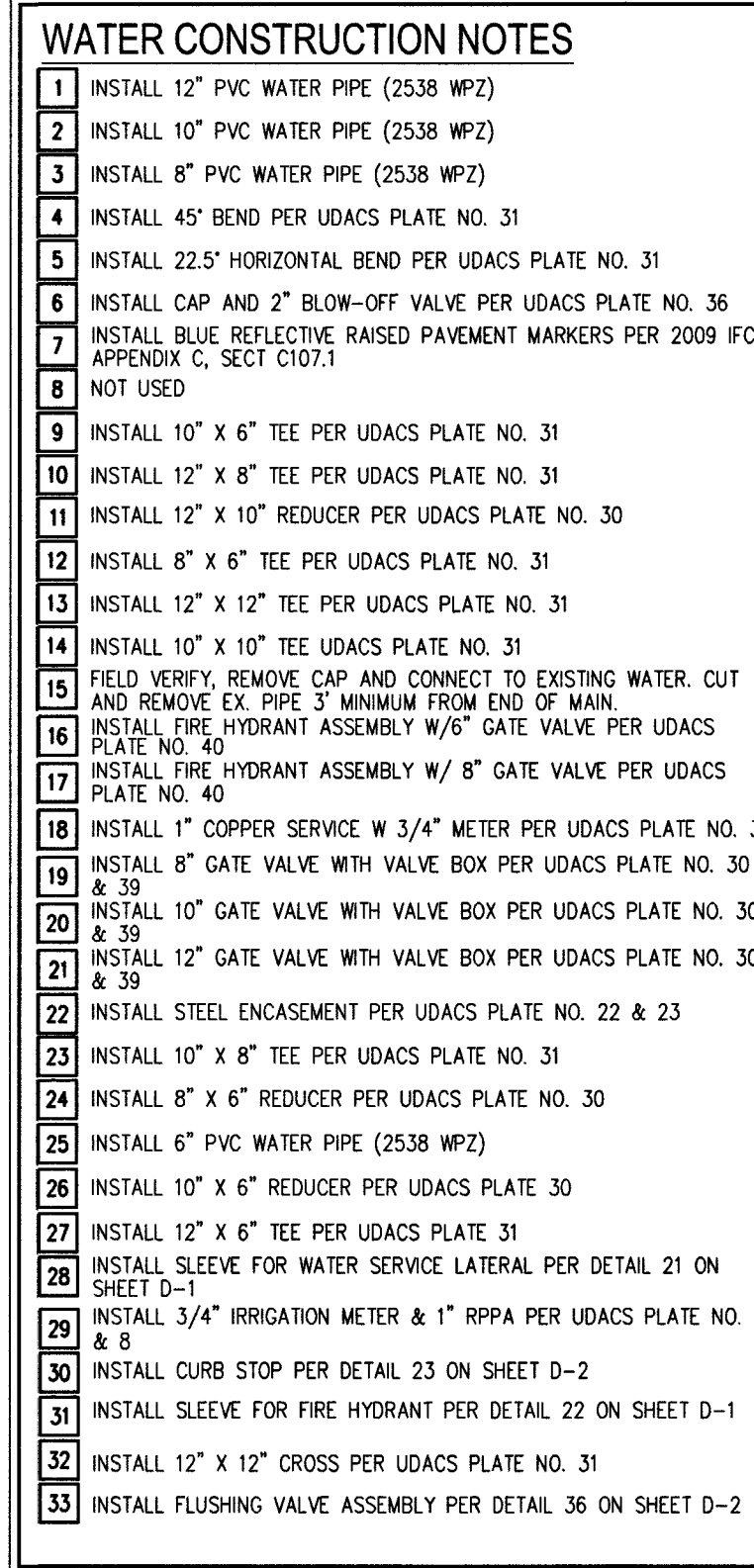
PINNACLE HOMES

ELK RIDGE ESTATES IV

PLAN AND PROFILE - OFFSITE WATER AL CARRISON ST II

DATE:	03/26/18
DRAFTER:	EMH
DESIGNER:	EMH
CHECKED:	KMB
PROJECT NO.	PIN1702
	
PP-15 SHEET 25 OF 35	
18-10396 L18-00094	

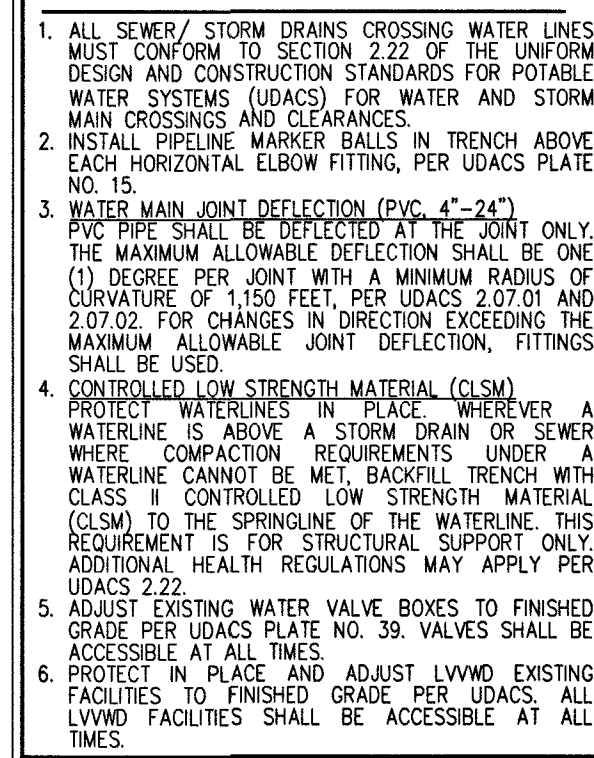
PROJ.#:125650 AGREE:#116750 QS:138-05-SE



1	INSTALL 4" DIA. SANITARY SEWER MANHOLE PER DCSOWS 30-17, 30-18, 30-54, 30-77 AND 30-99 (SINGLE)
2	INSTALL 8" PVC SANITARY SEWER PIPE PER DCSOWS 30-17 (PUBLIC)
3	INSTALL 4" PVC SEWER LATERAL PER DCSOWS 30-53 AND 30-54
4	FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING SEWER SLUB
5	INSTALL 8" C-900 SANITARY SEWER PIPE PER DCSOWS 30-53 (PUBLIC)
6	INSTALL 4" C-900 SANITARY SEWER LATERAL PER DCSOWS 30-52 AND 30-53
ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS: 22 UNITS X 250 (GPD/UNIT) = 5,500 GPD = 0.0055 MGD TOTAL FLOW = 0.0055 X 4.31 (PEAK FACTOR) = 0.0237 MGD	
LATERAL MARKING REQUIREMENTS LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN STANDARD SPECIFICATIONS FOR WASTEWATER COLLECTIONS SYSTEMS. STANDARD DRAWING 25. 3M MARKS SHALL BE PLACED AT THE POINT WHERE THE LATERAL POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES PRIVATE PROPERTY. A 3" DIA. MARK ALSO REQUIRED. A 3"-HIGH "HCS 3" STAMPED OR CHISELED INTO THE CURB. IF IT IS PLACED DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.	

_____	ROADWAY CENTERLINE
_____	RIGHT-OF-WAY
_____	LOT LINE
_____	CURB AND GUTTER
_____	EXISTING CURB AND GUTTER
	WATER PIPE FITTING
	WATER GATE VALVE
	FIRE HYDRANT
	REFLECTIVE RAISED PAVEMENT MARKERS
	SANITARY SEWER MANHOLE
	SANITARY SEWER FLOW DIRECTION
	WATER POINT OF CONNECTION
	SEWER POINT OF CONNECTION
	BACK WATER VALVE

SEE SHEET C-3 FOR QUANTITIES AND ABBREVIATIONS



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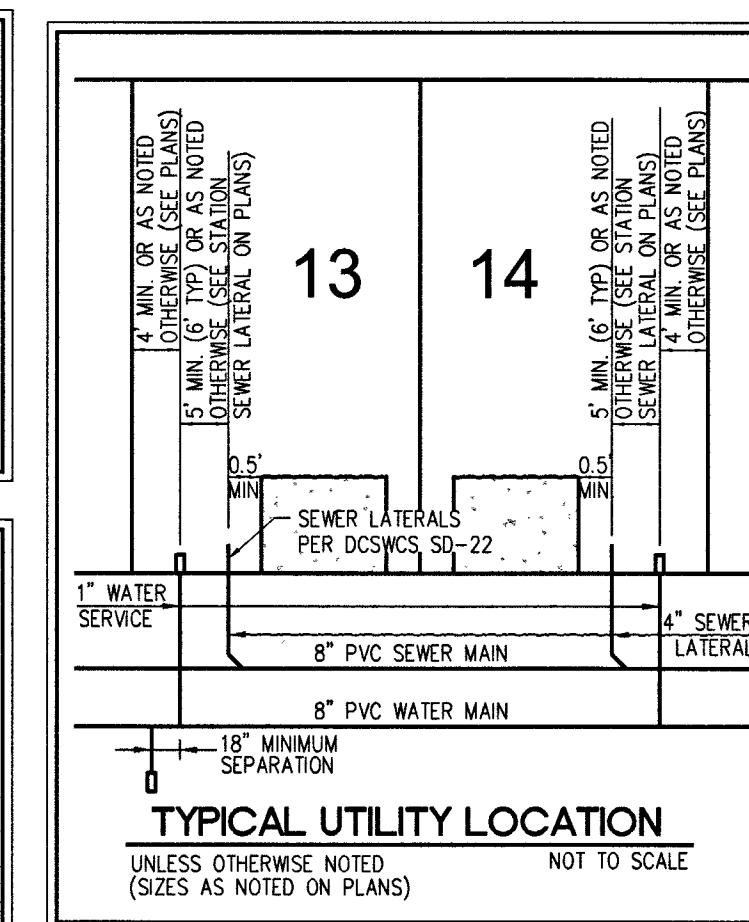
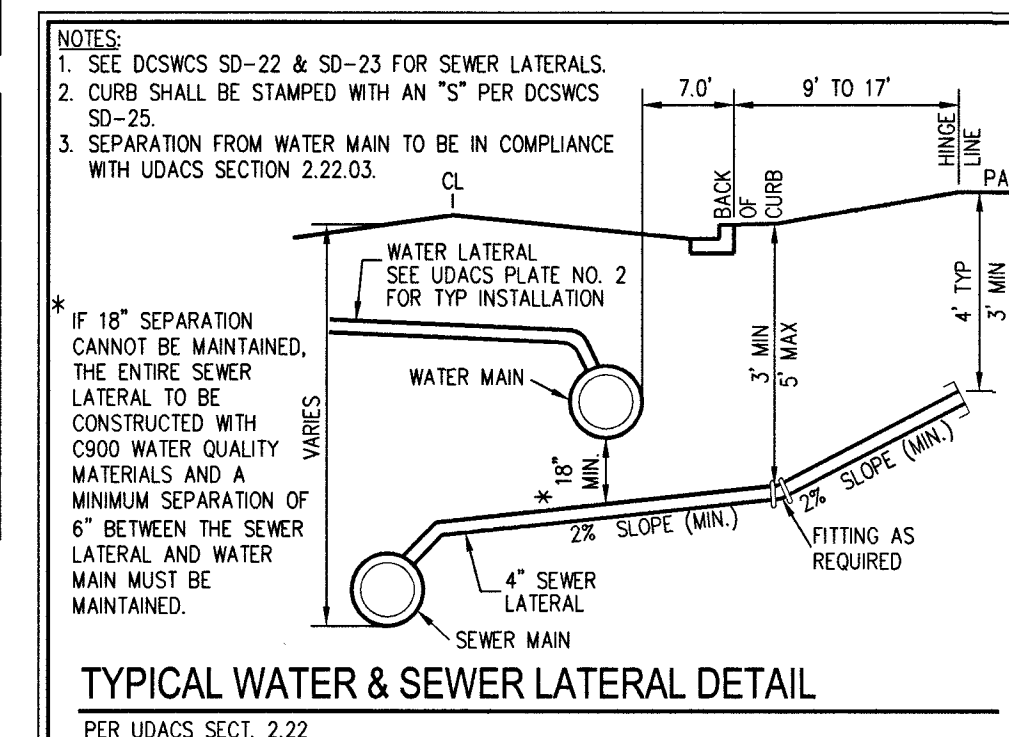
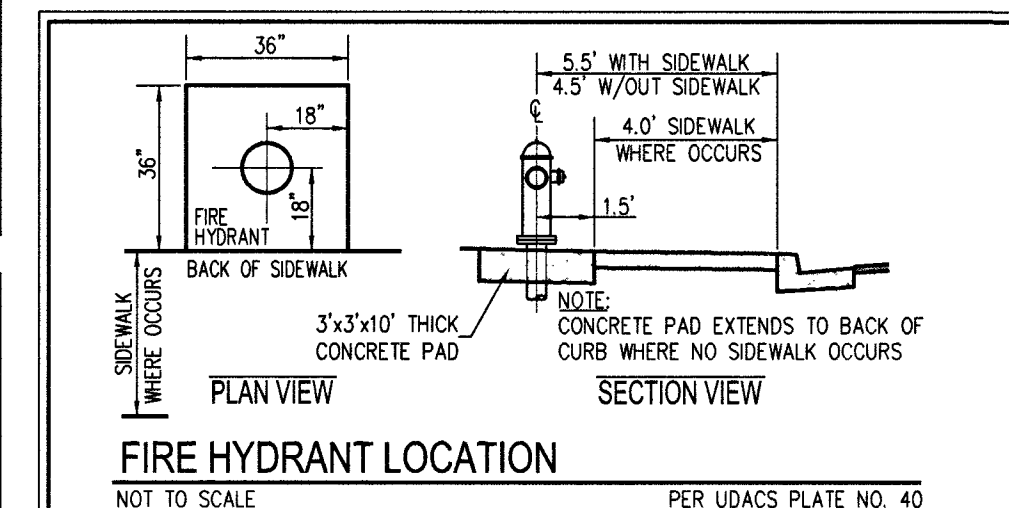
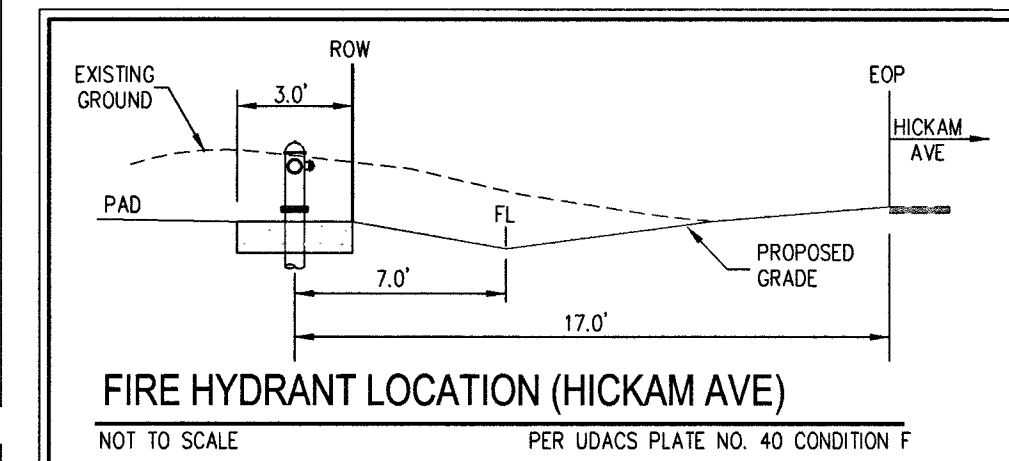
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON.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

FIRE FLOW REQUIREMENT IS 2,250 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.	
USE/OCCUPANCY	SINGLE FAMILY
TYPE OF CONSTRUCTION (IBC)	TYPE V-B
AUTOMATIC FIRE SPRINKLERS	LOTS 1&2 ONLY
SQUARE FOOTAGE (LIVABLE)	<5000
SQUARE FOOTAGE	<8200
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	4

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK NUMBER: 0LV00 45WW6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
AVENUE ALIGNMENT
ELEVATION = 2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT



CLARK COUNTY FIRE DEPT. APPROVAL

BY: E. Kaminski DATE: 7/9/18

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.

FP18-00704

4 / *RISHARDI*
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 125650 FIRST APPROVED DATE: 7/18/11
LVWVD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

[illegible]

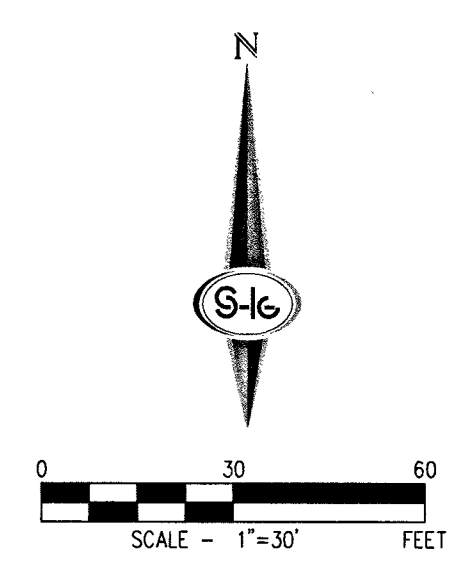
PINNACLE HOMES

S5 T20 R60	
DATE:	03/26/18

DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO.
PIN1702

U-1
SHEET 26 OF 35
18-10396
L18-00094

PROJ#:125650 AGREE:#116750 QS:138-05-SE

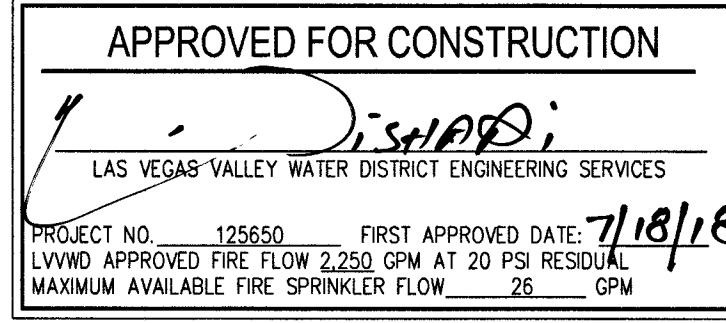
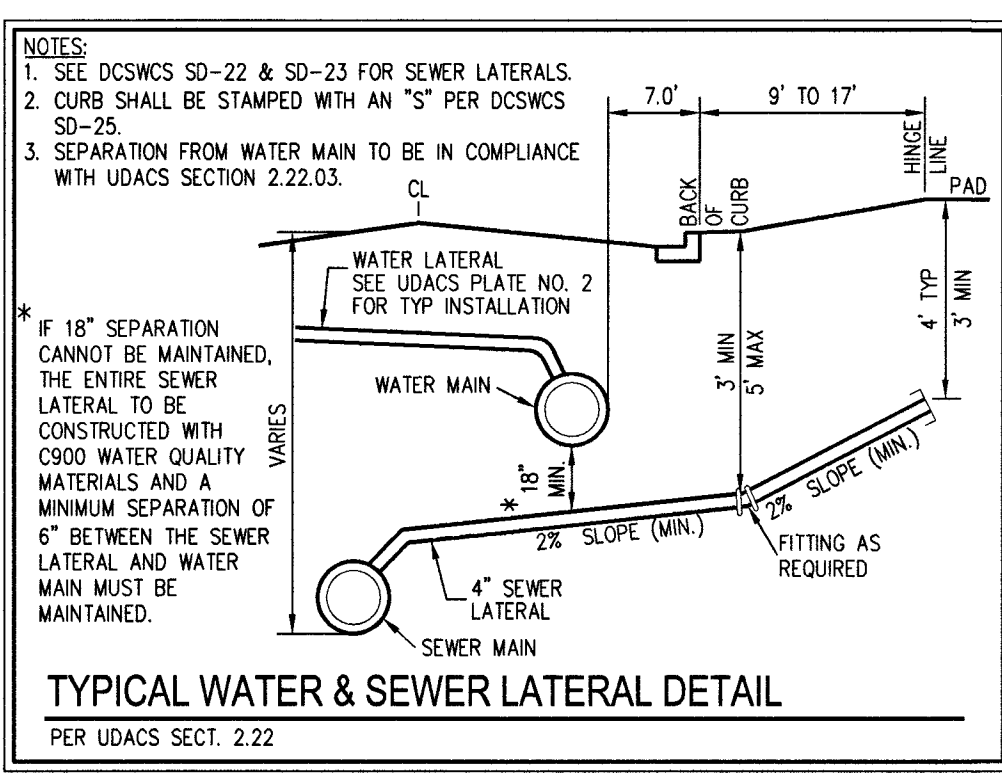


MATCHLINE SEE SHEET U-3 FOR CONTINUATION

	ROADWAY CENTERLINE
	RIGHT-OF-WAY
	LOT LINE
	CURB AND GUTTER
	EXISTING CURB AND GUTTER
	WATER PIPE FITTING
	WATER GATE VALVE
	FIRE HYDRANT
	REFLECTIVE RAISED PAVEMENT MARKERS
	SANITARY SEWER MANHOLE
	SANITARY SEWER FLOW DIRECTION
	WATER POINT OF CONNECTION
	SEWER POINT OF CONNECTION
	BACK WATER VALVE

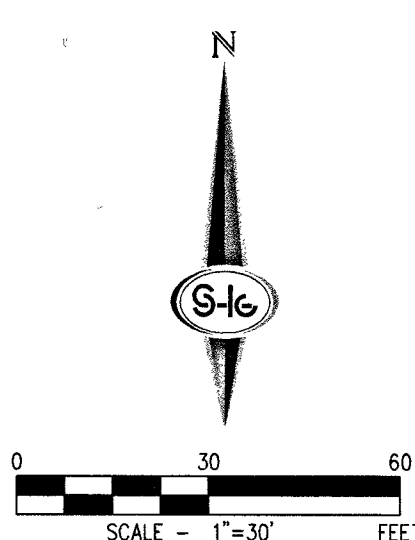
SEE SHEET C-3 FOR QUANTITIES AND ABBREVIATIONS

BENCHMARK NUMBER: OLVOO 45WW6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003



TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.



1	INSTALL 12" PVC WATER PIPE (2538 MPZ)
2	INSTALL 10" PVC WATER PIPE (2538 MPZ)
3	INSTALL 8" PVC WATER PIPE (2538 MPZ)
4	INSTALL 45' BEND PER UDACS PLATE NO. 31
5	INSTALL 22.5" HORIZONTAL BEND PER UDACS PLATE NO. 31
6	INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
7	INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS PER 2009 IFD APPENDIX C, SECT C10.71
8	NOT USED
9	INSTALL 10" X 6" TEE PER UDACS PLATE NO. 31
10	INSTALL 12" X 8" TEE PER UDACS PLATE NO. 31
11	INSTALL 12" X 10" REDUCER PER UDACS PLATE NO. 30
12	INSTALL 8" X 6" TEE PER UDACS PLATE NO. 31
13	INSTALL 12" X 12" TEE PER UDACS PLATE NO. 31
14	INSTALL 10" X 10" TEE UDACS PLATE NO. 31
15	FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING WATER. CUT AND REMOVE EX. PIPE 3' MINIMUM FROM END OF MAIN.
16	INSTALL FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40
17	INSTALL FIRE HYDRANT ASSEMBLY W/8" GATE VALVE PER UDACS PLATE NO. 40
18	INSTALL 1" COPPER SERVICE W 3/4" METER PER UDACS PLATE NO. 31
19	INSTALL 8" 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30
20	INSTALL 10" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
21	INSTALL 12" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
22	INSTALL STEEL ENCASEMENT PER UDACS PLATE NO. 22 & 23
23	INSTALL 10" X 8" TEE PER UDACS PLATE NO. 31
24	INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
25	INSTALL 6" PVC WATER PIPE (2538 MPZ)
26	INSTALL 10" X 6" REDUCER PER UDACS PLATE 30
27	INSTALL 12" X 6" TEE PER UDACS PLATE 31
28	INSTALL SLEEVE FOR WATER SERVICE LATERAL PER DETAIL 21 ON SHEET D-1
29	INSTALL 3/4" 3/4" IRRIGATION METER & 1" RPPA PER UDACS PLATE NO. 31 & 8
30	INSTALL CURB STOP PER DETAIL 23 ON SHEET D-2
31	INSTALL SLEEVE FOR FIRE HYDRANT PER DETAIL 22 ON SHEET D-1
32	INSTALL 12" X 12" CROSS PER UDACS PLATE NO. 31
33	INSTALL FLUSHING VALVE ASSEMBLY PER DETAIL 36 ON SHEET D-2



1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS 50-18 & 50-19, SD-18, SD-4, SD-7 AND SD-9 (SINGLE 24" LID)
2. INSTALL 8" PVC SANITARY SEWER PIPE PER DCSWCS SD-17 (PUBLIC)
3. INSTALL 4" PVC SEWER LATERAL PER DCSWCS 50-22 & SD-25
4. FIELD VERIFY, REMOVE CAP AND CONNECT TO EXISTING SEWER STUB
5. INSTALL 8" C-900 SANITARY SEWER PIPE PER DCSWCS SD-17 (PUBLIC)
6. INSTALL 4" C-900 SANITARY SEWER LATERAL PER DCSWCS 50-22 & SD-25

SYMBOL LEGEND

	ROADWAY CENTERLINE
	RIGHT-OF-WAY
	LOT LINE
	CURB AND GUTTER
	EXISTING CURB AND GUTTER
	WATER PIPE FITTING
	WATER GATE VALVE
	FIRE HYDRANT
	REFLECTIVE RAISED PAVEMENT MARKERS
	SANITARY SEWER MANHOLE
	SANITARY SEWER FLOW DIRECTION
	WATER POINT OF CONNECTION
	SEWER POINT OF CONNECTION
	BACK WATER VALVE

SEE SHEET C-3 FOR QUANTITIES AND ABBREVIATIONS

1. ALL SEWER / STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 7.2.2 OF THE UNIFORM STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
2. ALL WATER MAINS SHALL BE INSTALLED IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, BY STORMS PLATE.
3. WATER MAIN JOINT DEFLECTION (PVC 42" - 48")
1) PIPE SHALL BE DEFLECTED AT THE JOINT ONLY.
2) ALLOWABLE DEFLECTION SHALL BE 1/100 OF THE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF 100 FEET. 1.5 INCHES PER JOINT.
2.072. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
4. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE USED TO FILL ALL EXISTING TRENCHES. A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTED REQUIREMENTS UNDER A STORM DRAIN OR SEWER SHALL BE USED. CLASS 1 CONTROLLED LOW STRENGTH MATERIAL SHALL BE SPONSORED BY THE CITY OF CHICAGO. REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER ORDINANCE.
5. EXISTING WATER VALVE BOXES TO FINISHED GRADE SHALL BE PLACED AT LEAST 10' FROM ANY ACCESSIBLE AT ALL TIMES.
6. ALL EXISTING PLACES TO ADJUST VLVWDG EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL VLVWDG FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

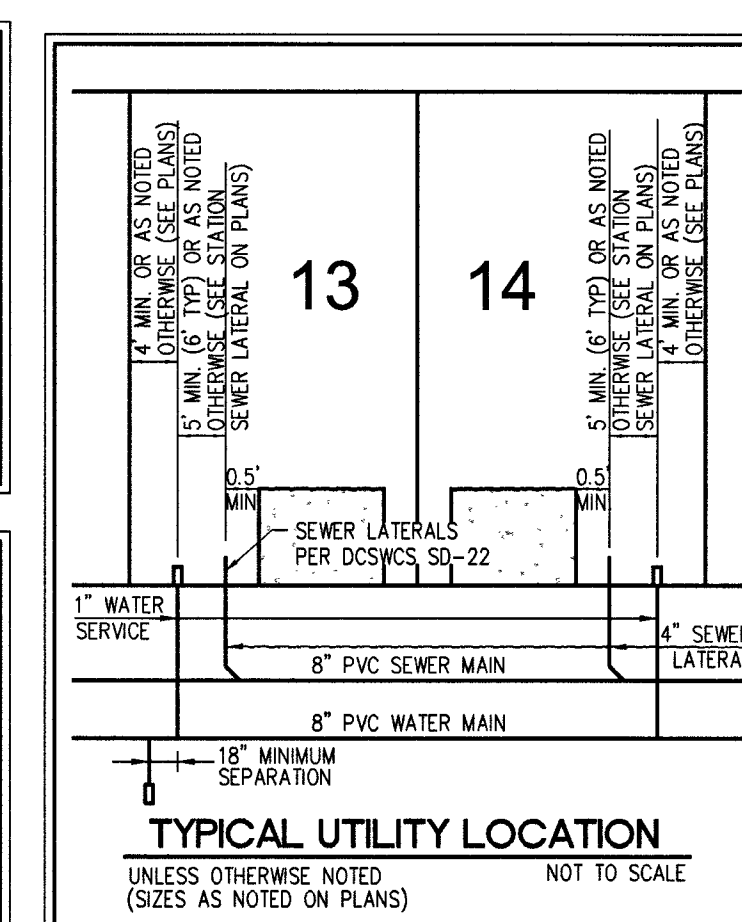
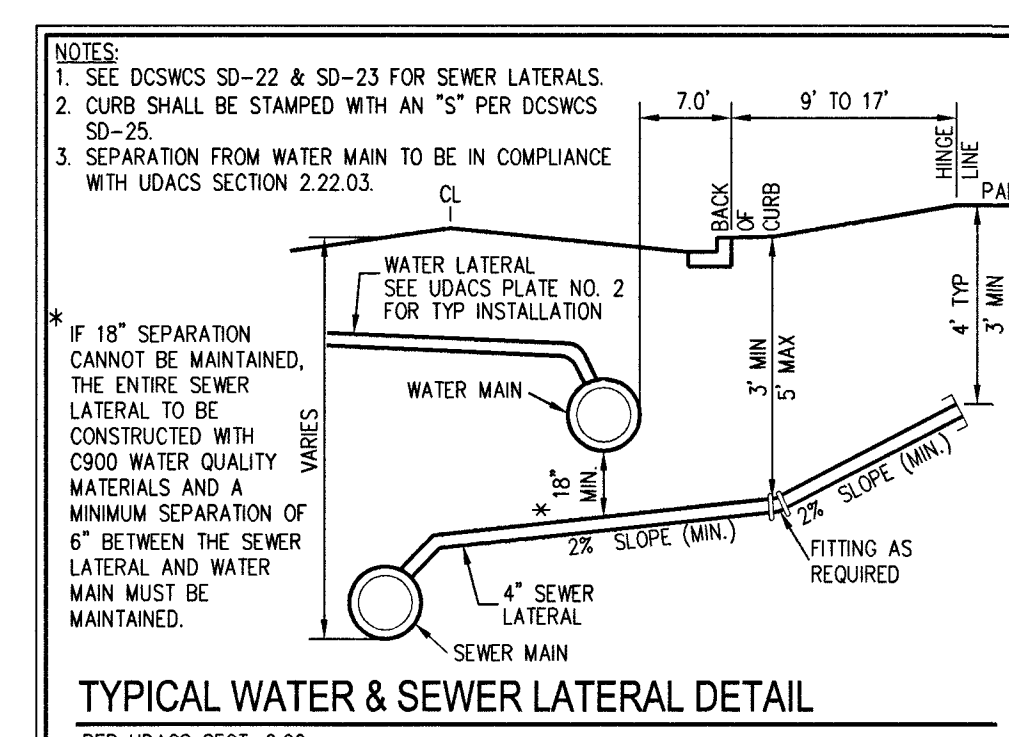
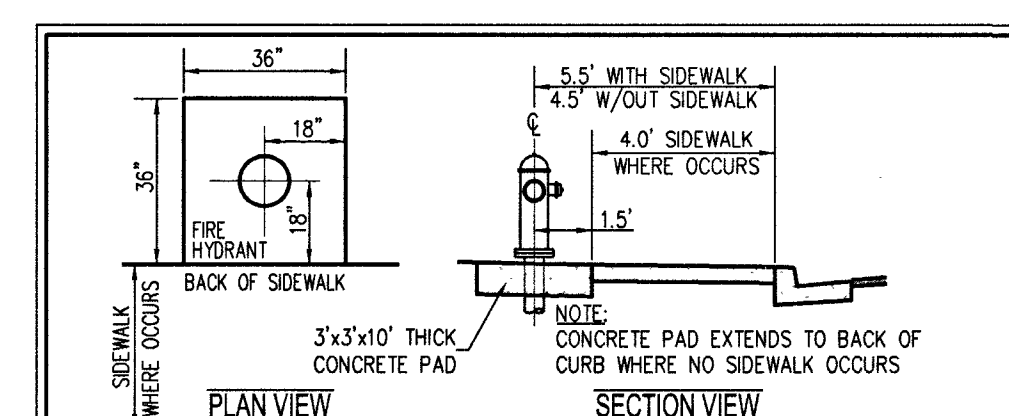
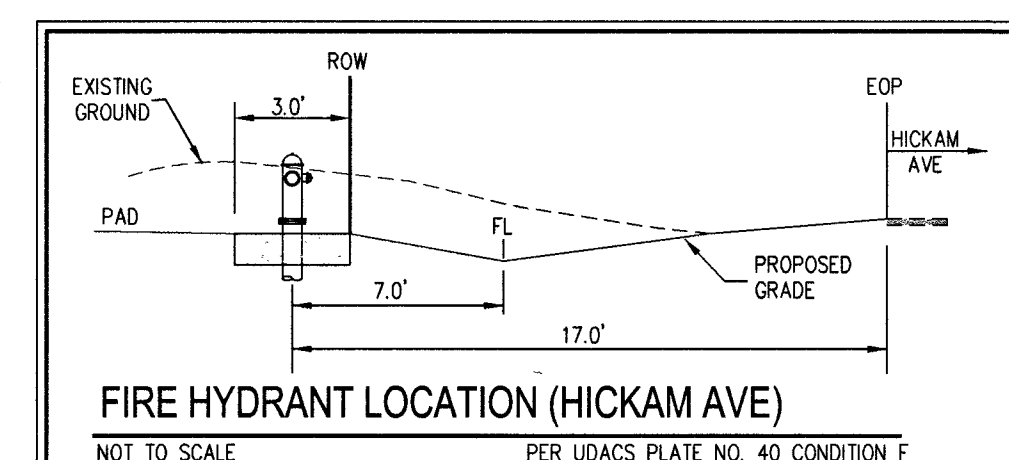
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EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION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

FIRE FLOW REQUIREMENT IS 2,250 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.	
USE/OCCUPANCY	<u>SINGLE FAMILY</u>
TYPE OF CONSTRUCTION (IBC)	<u>TYPE V-B</u>
AUTOMATIC FIRE SPRINKLERS	<u>LOTS 1&2 ONLY</u>
SQUARE FOOTAGE (LIVABLE)	<u><6000</u>
SQUARE FOOTAGE	<u><6200</u>
LARGEST AREA BETWEEN 4 HOUR WALLS	<u>N/A</u>
BUILDING HEIGHT	<u><35</u>
NO OF STORIES INCLUDING BASEMENT	<u>2</u>
HIGH PILED COMBUSTIBLE STORAGE	<u>NO</u>
NO OF HYDRANTS INSTALLED	<u>4</u>

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK NUMBER: OLVOO 4SWW6
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
AVENUE ALIGNMENT
ELEVATION=2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003



BY: EJ Kaminski DATE: 7/9/18

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. FP18-00704

4 1 21 2018
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 125650 FIRST APPROVED DATE: 7/18/18
LVVWD APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM

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

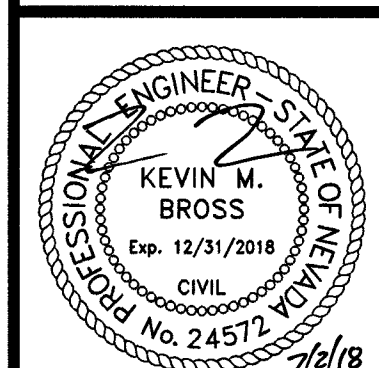
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**PINNACLE HOMES
ELK RIDGE ESTATES
UTILITY PLAN III**

55 T20 R60	
DATE:	03/26/18

DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB

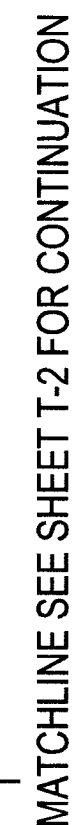
PROJECT NO.
PIN1702



U-3
SHEET 28 OF 35

PROJ#:125650 AGREE:#116750 QS:138-05-SE





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

STREET SIGN NOTE

SIZE OF EXISTING SIGN TO BE VERIFIED. IF 36" R1-1 AND 12" D-3 STREET NAME SIGN - RELOCATE, OTHERWISE RETURN TO CCPW AND INSTALL NEW

SWG DISCLAIMER

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STREETLIGHT CIRCUIT CAPACITY
VERIFICATION FOR CIRCUIT SP-1

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	<u>YES</u>	CONTACT CLARK COUNTY TRAFFIC OPERATIONS AT 455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATION.
	<u>NO</u>	INSTALL A NEW PEDESTAL

SERVICE PEDESTAL LOCATION: DURANGO DR STA: 12+66.42	
---	--

CLARK COUNTY (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION	N/A
-------------------------------	-----

PERSON WHO DID THE VERIFICATION	N/A
---------------------------------	-----

ENGINEER OF THE OFFSITE PLANS

PERSON WHO DID THE CALCULATIONS:	SS
----------------------------------	----

CONSULTING ENGINEERING FIRM:	SLATER HANIFAN GROUP, INC.
------------------------------	----------------------------

CAPACITY CALCULATIONS

1	CIRCUIT CAPACITY:	
---	-------------------	--

2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	
---	---------------------------------------	--

3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	
4	MAXIMUM (3 MINUTE)	

4	AVAILABLE (2 MINUS 3)	
PROPOSED LUMINAIRE LOAD TO CIRCUIT:		

5	2	NUMBER OF 60' ROW 'OPL' LED STILTS @ 1.0 AMPS/EA
---	---	--

6	3	NUMBER OF 100' ROW 'QPL' LED STLTS @ 1.5 AMPS/EA
---	---	--

7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)	
---	--	--

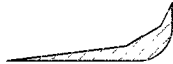
REMAINING AVAILABLE LOAD (4 MINUS 7)	
--------------------------------------	--

Form revision date: 10/05/05

TRAFFIC NOTES

- 1 INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS PER 2009 IFI APPENDIX C, SECT C107.1
- 2 INSTALL 30" STOP SIGN (R1-1) W/9" STREET NAME SIGN (D-3, TWO PER POLY) (PRIVATELY MAINTAINED)
- 3 INSTALL 4" WIDE SOLID WHITE EDGE LINE STRIPING
- 4 EXISTING SIGN TO REMAIN
- 5 INSTALL 1-1/4" PVC STREETLIGHT CONDUIT W/ 2-#4 AND 2-#10 OR W/10-2 COPPER CONDUCTORS (TYP.)
- 6 INSTALL NO. 3-1/2 PULL BOX PER CCAUSD NO. 326
- 7 INSTALL LED STREETLIGHT "OPN" FOR 100' ROW PER CCAUSD NO. 300.3S, 314, 320 & 321
- 8 INSTALL 200 AMP STREETLIGHT SERVICE PEDESTAL PER CCAUSD #331, 332.52 & 335.52
- 9 INSTALL TYPE I CENTERLINE RPWS PER CCAUSD NO. 244
- 10 PAINT CURB RED 15' EACH SIDE OF FIRE HYDRANT FOR A TOTAL OF 30' (CURB LENGTH PERMITTING)
- 11 EXISTING BIKE LANE STRIPING PER CCAUSD NO. 244.2
- 12 INSTALL 24" P30 PULL BOX WITH FIBER OPTIC INSCRIBED ON
- 13 EXISTING STRIPING TO BE REPLACED
- 14 EXISTING LINE RPWS TO REMAIN
- 15 EXISTING STRIPING TO REMAIN
- 16 INSTALL LANE LINE RPWS
- 17 EXISTING STRIPING TO BE OBLITERATED
- 18 EXISTING SIGNS TO BE REMOVED, RETURNED TO CCPW & RELOCATED TO THE SIDE OF THE ROADWAY WITH END OF ROAD MARKERS PER CCAUSD NO. 601
- 19 INSTALL LED STREETLIGHT "OPN" FOR 60' ROW PER CCAUSD NO. 300.3S, 314, 320 & 321
- 20 INSTALL P30 PULL BOX WITH FIBER OPTIC INSCRIBED ON
- 21 INSTALL 4" FAST CONDUIT WITH BARE TRACER WIRE
- 22 INSTALL 6" SOLID WHITE LINE PER CCAUSD NO. 244.4 & 244.5
- 23 INSTALL 28"-1APR "NO PARKING ANYTIME" SIGN (18" X 36")
- 24 INSTALL 28"-96 "NO PARKING BEYOND THIS POINT" SIGN (12" X 36")
- 25 INSTALL 30" STOP SIGN (R1-1) W/12" STREET NAME SIGN (D-3, TWO PER POLY) (PUBLICLY MAINTAINED)
- 26 INSTALL LEFT TURN STRIPING PER CCAUSD NO. 246

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 |
|  | 12"x18" NO PARKING BEYOND
THIS POINT SIGN (R8-96) |
|  | 18"x24" NO PARKING ANYTIME
SIGN (R7-1APR) |
|  | 24"x18" BIKE LANE SIGN (R3-17) |
|  | TYPE IIIA BARRICADE/END OF ROAD
MARKERS (OW4-1) PER CROSSING @ 60' |
|  | 48"x24" "TWO DIRECTION" ARROW SIGN
(W1-7) |
|  | TRAFFIC SIGN (AS INDICATED) |
|  | EXISTING TRAFFIC SIGN |
|  | REFLECTIVE RAISED PAVEMENT
MARKERS |
|  | SIGHT VISIBILITY CONE |
|  | NO. 3-1/2 PULL BOX (STREET LIGHT) |
|  | STREETLIGHT SERVICE PEDESTAL |
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/or PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR OTHERWISE TREATED BY 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 CONTROLS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.621-01.
3. SVZ NOTE PER USDOCA DWG #2012-1, NO WALLS, FENCES, SLOTTED, UTILITY APERTURES, OR OTHER STRUCTURES OR OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED WITHIN 10' WITHIN THE SVZ. ANY SUCH OBJECTS MUST BE SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB, MEASURED TO A HEIGHT OF 24 INCHES 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 ENGINEER AND PRESENTLY IN CHARGE OF THE SVZ STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE MUST BE PROVIDED TO THE SVZ STAFF. OPERATIONS: 6:30 AM - 3:30 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.
5. CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED FOR THE PROJECT. CLARK COUNTY ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS ANY ITEMS TO BE RE-USED OR RETURNED TO THE OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD AND THE TRANSMITTAL FORM MUST INCLUDE THE PROJECT NAME, PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL 702-456-0100 TO REQUEST AN APPROPRIATEMENT FOR DROPPING OFF SALVAGED ITEMS.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

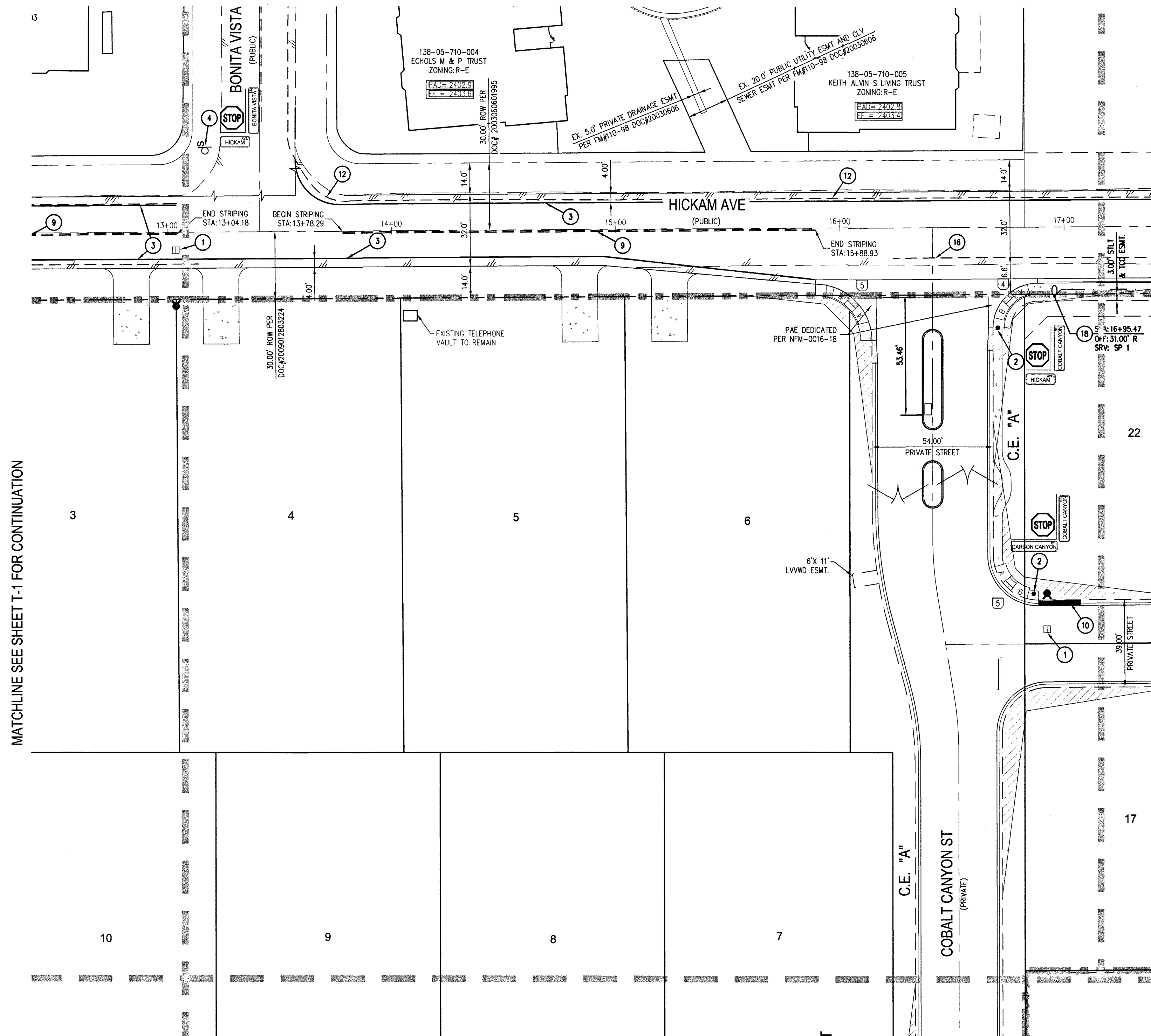
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ST

Call
before you
ground
2-5300
SERIAL SYSTEM
TION (F.A.S.T)

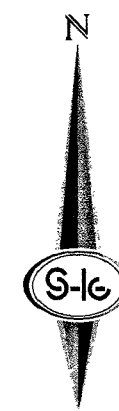
Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.
Call
811
OR
1-800-227-2600

MATCHLINE SEE SHEET T-1 FOR CONTINUATION

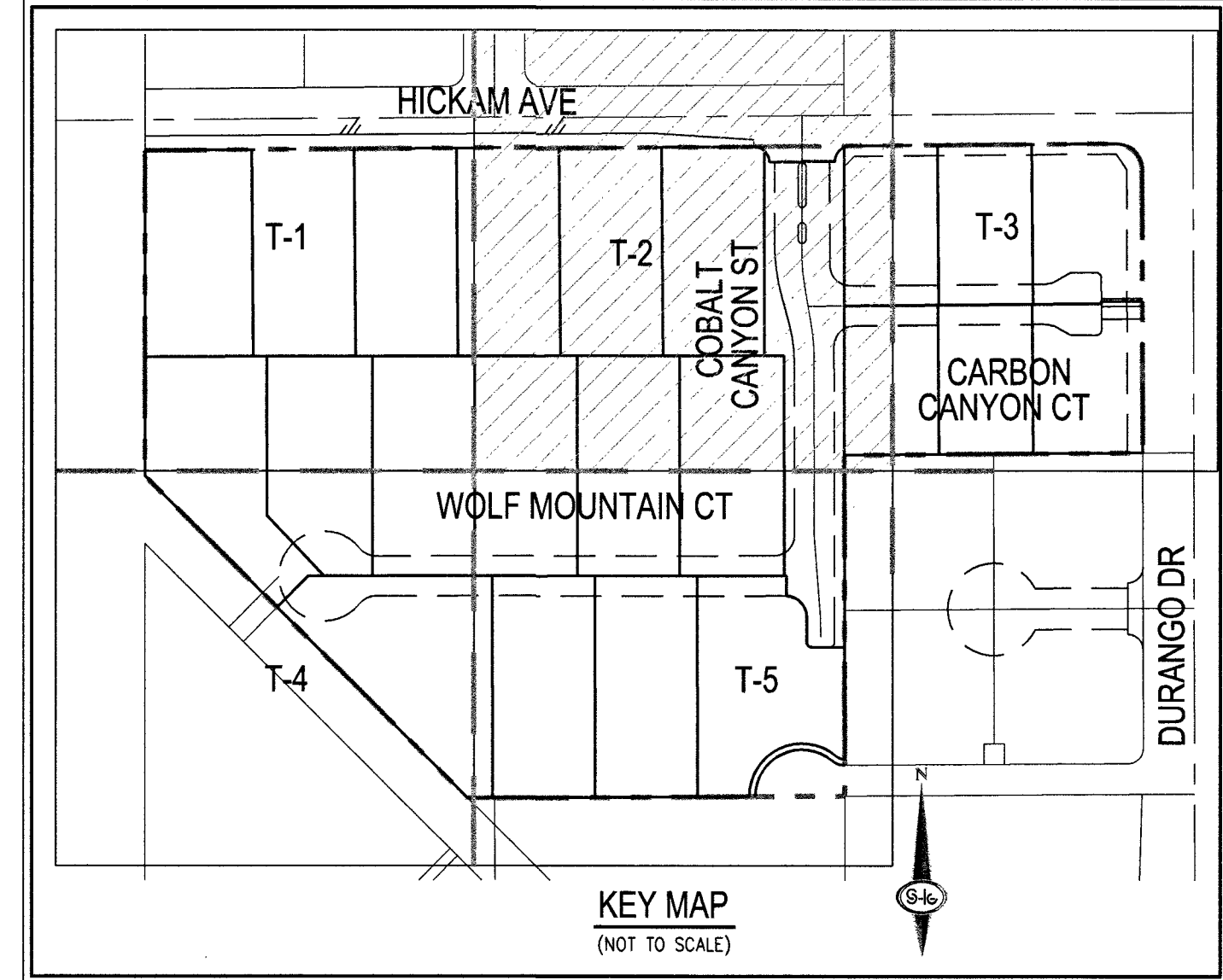


MATCHLINE SEE SHEET T-5 FOR CONTINUATION

MATCHLINE SEE SHEET T-3 FOR CONTINUATION



0 30 60
SCALE - 1"=30' FEET



TRAFFIC NOTES

- INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS PER 2009 IFC APPENDIX C, SECT C107.1
- INSTALL 30" STOP SIGN (R1-1) W/9" STREET NAME SIGN (D-3, TWO PER POLE) (PRIVATELY MAINTAINED)
- INSTALL 4" WIDE SOLID WHITE EDGE LINE STRIPING
- EXISTING SIGN TO REMAIN
- INSTALL 1-1/4" PVC STREETLIGHT CONDUIT W/ 2-#14 AND 1-#8 THW-2 OR XHHW-2 COPPER CONDUCTORS (TYP.)
- INSTALL NO. 3-1/2 PULL BOX PER CCAUSD NO. 326
- INSTALL LED STREETLIGHT "OPL" FOR 100' ROW PER CCAUSD NO. 300.53, 314, 320 & 321
- INSTALL 200 AMP STREETLIGHT SERVICE PEDESTAL PER CCAUSD #331, 332.52 & 335.52
- INSTALL TYPE I CENTERLINE RPMs PER CCAUSD NO. 244
- PAINT CURB RED 15" EACH SIDE OF FIRE HYDRANT FOR A TOTAL OF 30" (CURB LENGTH PERMITTING)
- EXISTING BIKE LANE STRIPING PER CCAUSD NO. 244.2 AND 244.9 TO BE REPLACED
- EXISTING STRIPING TO BE REPLACED
- LANE LINE RPMs TO REMAIN
- EXISTING STRIPING TO REMAIN
- INSTALL LANE LINE RPMs
- EXISTING STRIPING TO BE OBLITERATED
- EXISTING SIGNS TO BE REMOVED, RETURNED TO CCPW AND REPLACED WITH TYPE IIIA BARRICADES WITH END OF ROAD MARKERS PER CCAUSD NO. 601
- INSTALL LED STREETLIGHT "OPL" FOR 60' ROW PER CCAUSD NO. 300.53, 314, 320 & 321
- INSTALL P30 PULL BOX WITH FIBER OPTIC INSCRIBED ON LID
- INSTALL 4" FAST CONDUIT WITH BARE TRACER WIRE
- INSTALL 1-1/4" STREETLIGHT CONDUIT WITH PULL WIRE
- INSTALL 6" SOLID WHITE LINE PER CCAUSD NO. 244.4 & 244.9
- INSTALL R7-1APR "NO PARKING ANYTIME" SIGN (18" X 24")
- INSTALL R8-96 "NO PARKING BEYOND THIS POINT" SIGN (12" X 18")
- INSTALL 36" STOP SIGN (R1-1) W/12" STREET NAME SIGN (D-3, TWO PER POLE) (PUBLICLY MAINTAINED)
- INSTALL LEFT TURN STRIPING PER CCAUSD NO. 246

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

STREET SIGN NOTE

SIZE OF EXISTING SIGN TO BE VERIFIED IF 36" R1-1 AND 12" D-3 STREET NAME SIGN - RELOCATE, OTHERWISE RETURN TO CCPW AND INSTALL NEW

SWG DISCLAIMER

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STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT SP-1

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)

YES ☐ NO ☒

CONTACT CLARK COUNTY TRAFFIC OPERATIONS AT 455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATION.

INSTALL A NEW PEDESTAL.

SERVICE PEDESTAL LOCATION: DURANGO DR STA: 12+66.42

CLARK COUNTY (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION: N/A

PERSON WHO DID THE VERIFICATION: N/A

ENGINEER OF THE OFFSITE PLANS

PERSON WHO DID THE CALCULATIONS: SS

CONSULTING ENGINEERING FIRM: SLATER HANIFAN GROUP, INC.

CAPACITY CALCULATIONS

1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (BOX):	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW):	0	AMPS
4	AVAILABLE (2 MINUS 3):	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:			
5	2 NUMBER OF 60' ROW "OPL" LED STILTS @ 1.0 AMPS/EA:	2	AMPS
6	3 NUMBER OF 100' ROW "OPL" LED STILTS @ 1.5 AMPS/EA:	4.5	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6):	6.5	AMPS
8	REMAINING AVAILABLE LOAD (4 MINUS 7):	41.5	AMPS

Form revision date: 10/05/05

BENCHMARK

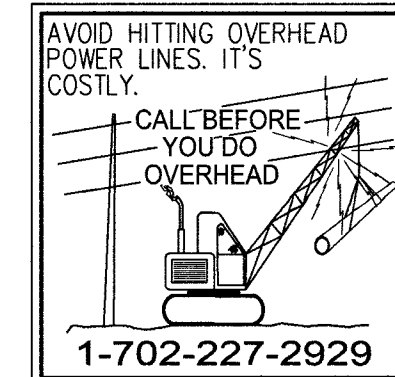
BENCHMARK NUMBER: OLVOO 45WWS
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT
ELEVATION=2385.083 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST 12.0, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

BY: [Signature]
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
- STOP SIGN W/POST (R1-1) SIZE PER PLAN
- 12"x18" NO PARKING BEYOND THIS POINT SIGN (R8-96)
- 18"x24" NO PARKING ANYTIME SIGN (R7-1APR)
- 24"x18" BIKE LANE SIGN (R3-17)
- TYPE IIIA BARRICADE/END OF ROAD MARKERS (O44-1) PER CCAUSD # 601
- 48"x24" "TWO DIRECTION" ARROW SIGN (W1-7)
- TRAFFIC SIGN (AS INDICATED)
- EXISTING TRAFFIC SIGN
- REFLECTIVE RAISED PAVEMENT MARKERS
- SIGHT VISIBILITY ZONE
- NO. 3-1/2 PULL BOX (STREET LIGHT)
- STREETLIGHT SERVICE PEDESTAL
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

GENERAL NOTES

- 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.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.01.02
- SVZ NOTE PER USDOCA 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.
- 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.
- CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSURE THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. ANY ITEMS TO BE RETURNED TO CLARK COUNTY TRAFFIC OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

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

CLARK COUNTY, NEVADA

PINNACLE HOMES
ELK RIDGE ESTATES IV
TRAFFIC PLAN II

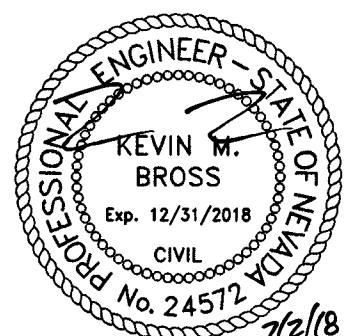
DATE: 03/26/18

DRAFTER: EMH

DESIGNER: EMH

CHECKED: KMB

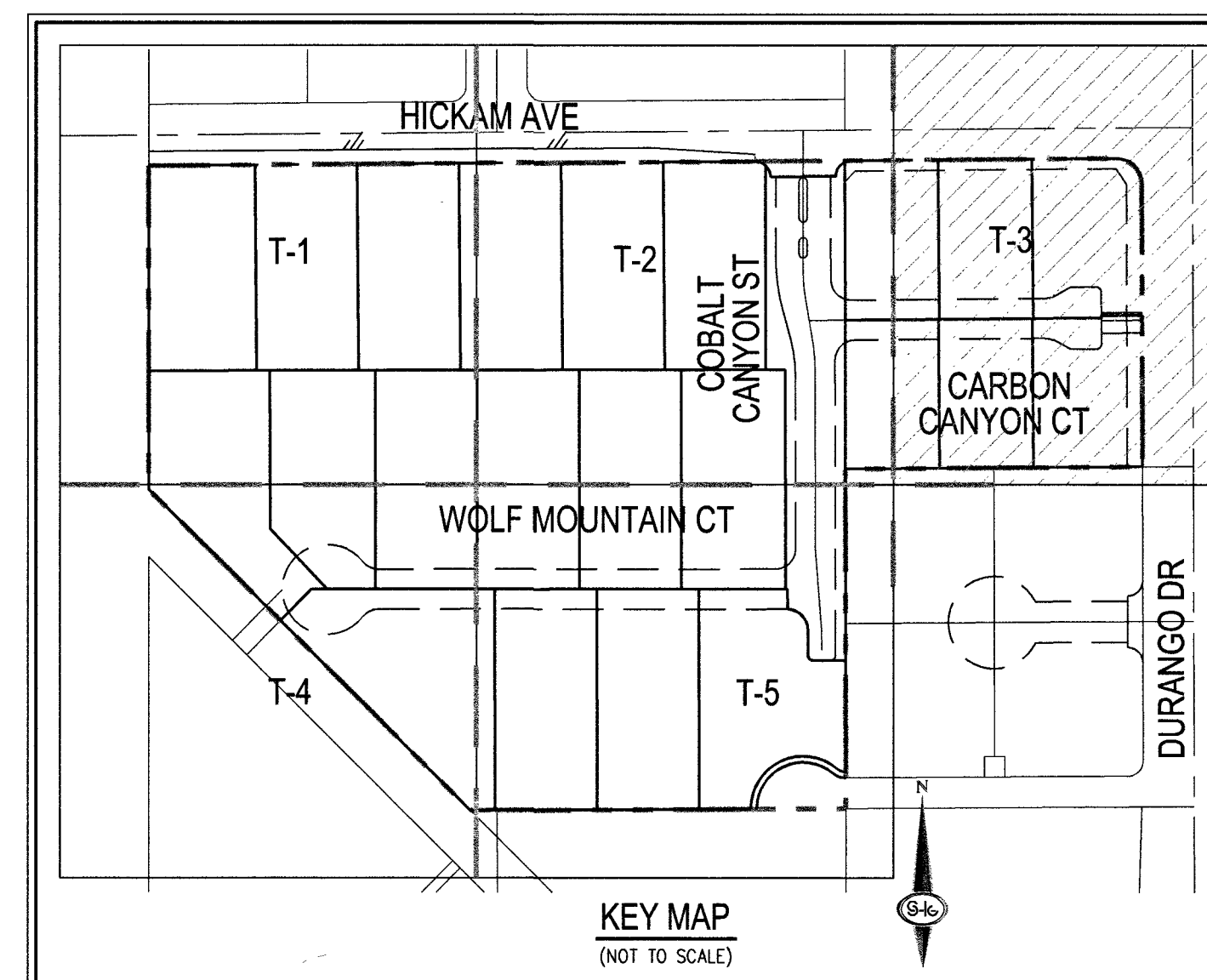
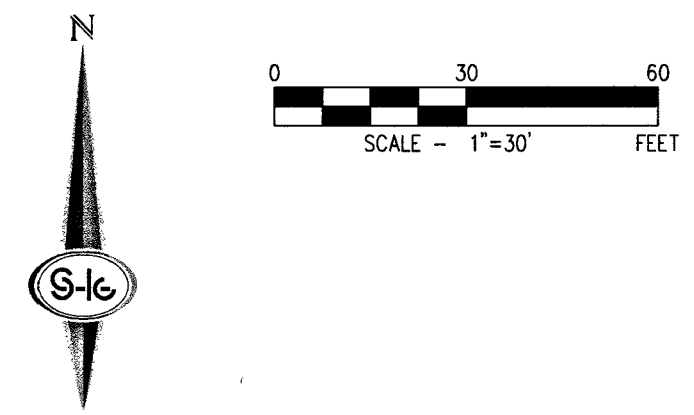
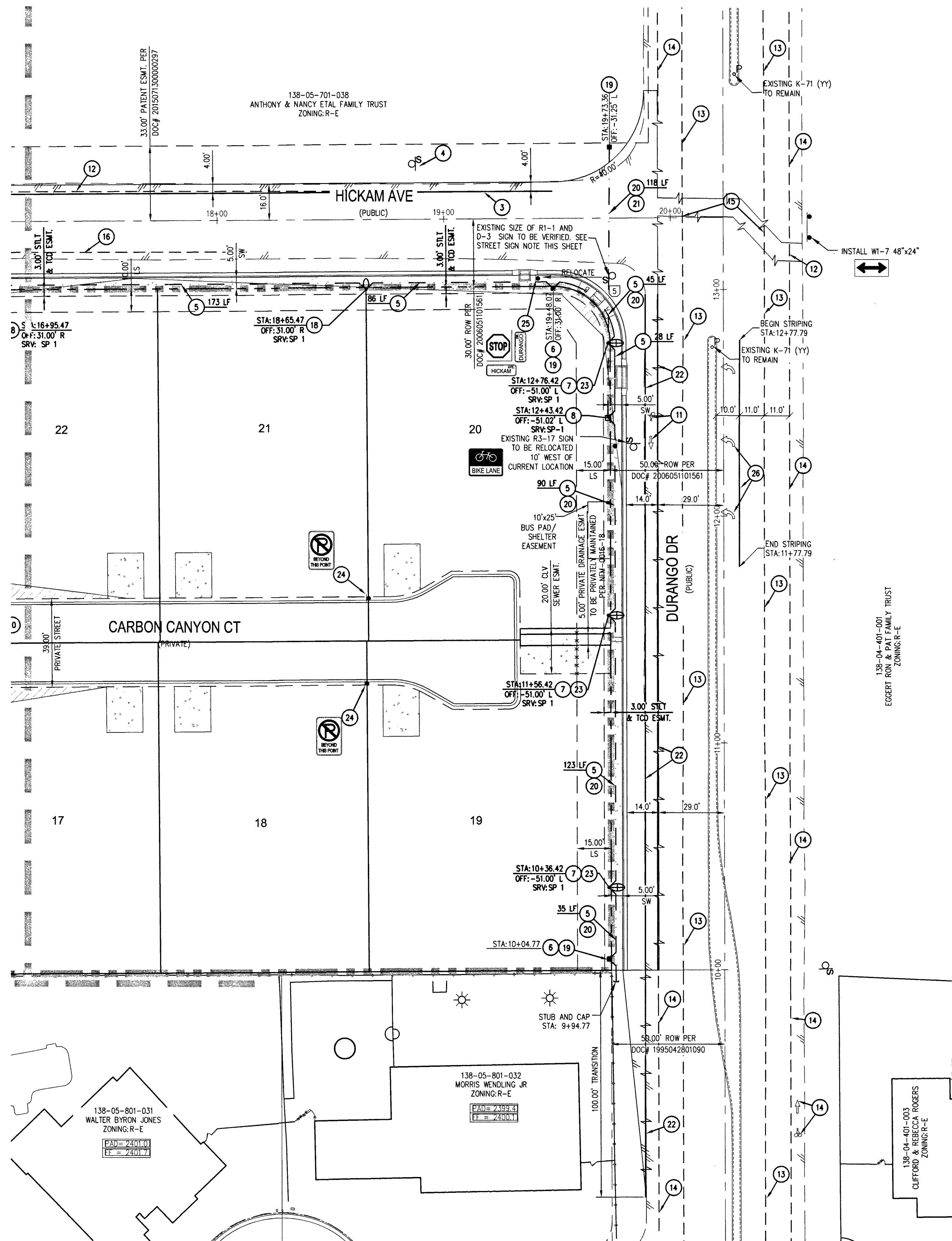
PROJECT NO.
PIN1702



T-2
SHEET 32 OF 35

18-10396
L18-00094

MATCHLINE SEE SHEET T-2 FOR CONTINUATION



TRAFFIC NOTES

- INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS (D-3, 2 PER POLE) SIZE PER PLAN
- INSTALL 30" STOP SIGN (R1-1) W/9" STREET NAME SIGN (D-3, TWO PER POLE) (PRIVATELY MAINTAINED)
- INSTALL 4" WIDE SOLID WHITE EDGE LINE STRIPING
- EXISTING SIGN TO REMAIN
- INSTALL 1-1/4" PVC STREETLIGHT CONDUIT W/ 2-#4 AND 1-#8 THW-2 OR XHW-2 COPPER CONDUCTORS (TYP.)
- INSTALL NO. 3-1/2 PULL BOX PER CCAUSD NO. 326
- INSTALL LED STREETLIGHT "OPI" FOR 100' ROW PER CCAUSD NO. 300.53, 314, 320 & 321
- INSTALL 200 AMP STREETLIGHT SERVICE PEDESTAL PER CCAUSD #331, 332.52 & 335.52
- INSTALL TYPE 1 CENTERLINE RPS PER CCAUSD NO. 244
- PAINT CURB RED 15' EACH SIDE OF FIRE HYDRANT FOR A TOTAL OF 30' (CURB LENGTH PERMITTING)
- EXISTING BIKE LANE STRIPING PER CCAUSD NO. 244.2 AND 244.9 TO BE REPLACED
- EXISTING STRIPING TO BE REPLACED
- LANE LINE RPS TO REMAIN
- EXISTING STRIPING TO REMAIN
- INSTALL LANE LINE RPS
- EXISTING STRIPING TO BE OBSOLETE
- EXISTING SIGNS TO BE REMOVED, RETURNED TO CCPW, AND REPLACED WITH TYPE IIA BARRICADES WITH END OF ROAD MARKERS PER CCAUSD NO. 601
- INSTALL LED STREETLIGHT "OPI" FOR 60' ROW PER CCAUSD NO. 300.53, 314, 320 & 321
- INSTALL P30 PULL BOX WITH FIBER OPTIC INSCRIBED ON LD
- INSTALL 1-1/4" STREETLIGHT CONDUIT WITH PULL WIRE
- INSTALL 6" SOLID WHITE LINE PER CCAUSD NO. 244.4 & (18" X 24")
- INSTALL R7-1APR "NO PARKING ANYTIME" SIGN (12" X 18")
- INSTALL R8-96 "NO PARKING BEYOND THIS POINT" SIGN (12" X 18")
- INSTALL 36" STOP SIGN (R1-1) W/12" STREET NAME SIGN (D-3, TWO PER POLE) (PUBLICLY MAINTAINED)
- INSTALL LEFT TURN STRIPING PER CCAUSD NO. 246

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

STREET SIGN NOTE
SIZE OF EXISTING SIGN TO BE VERIFIED. IF 36" R1-1 AND 12" D-3 STREET NAME SIGN - RELOCATE, OTHERWISE RETURN TO CCPW AND INSTALL NEW

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BENCHMARK
BENCHMARK NUMBER: 01V00 45W06
BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM
ELEVATION: 2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS
NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT SP-1		
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)		
YES	CONTACT CLARK COUNTY TRAFFIC OPERATIONS AT 455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATION.	
NO	INSTALL A NEW PEDESTAL.	
SERVICE PEDESTAL LOCATION: DURANGO DR STA: 12+66.42		
CLARK COUNTY (COMPLETE IF EXISTING SERVICE)		
DATE OF CAPACITY VERIFICATION	N/A	
PERSON WHO DID THE VERIFICATION	N/A	
ENGINEER OF THE OFFSITE PLANS (COMPLETE IF EXISTING SERVICE)		
PERSON WHO DID THE CALCULATIONS	SS	
CONSULTING ENGINEERING FIRM	SLATER HANIFAN GROUP, INC.	
CAPACITY CALCULATIONS		
1 CIRCUIT CAPACITY:	60	AMPS
2 MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3 EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4 AVAILABLE (2 MINUS 3)	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:		
5 2 NUMBER OF 60' ROW "OPI" LED STILTS @ 1.0 AMPS/EA	2	AMPS
6 3 NUMBER OF 100' ROW "OPI" LED STILTS @ 1.5 AMPS/EA	4.5	AMPS
7 TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)	6.5	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)	41.5	AMPS

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

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

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

TRAFFIC LEGEND

- | | |
|--|---|
| | STREET NAME SIGN (D-3, 2 PER POLE) SIZE PER PLAN |
| | STOP SIGN W/POST (R1-1) SIZE PER PLAN |
| | 12"x18" NO PARKING BEYOND THIS POINT SIGN (R8-96) |
| | 18"x24" NO PARKING ANYTIME SIGN (R7-1APR) |
| | 24"x18" BIKE LANE SIGN (R3-17) |
| | TYPE IIA BARRICADE/END OF ROAD MARKERS (0M4-1) PER CCAUSD # 601 |
| | 48"x24" "TWO DIRECTION" ARROW SIGN (W1-7) |
| | TRAFFIC SIGN (AS INDICATED) |
| | EXISTING TRAFFIC SIGN |
| | REFLECTIVE RAISED PAVEMENT MARKERS |
| | NO. 3-1/2 PULL BOX (STREET LIGHT) |
| | STREETLIGHT SERVICE PEDESTAL |
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

GENERAL NOTES

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- SVZ NOTE PER USDOCA DWG #201.2: NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, TREE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SVZ UNLESS 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 SVZ VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.
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- CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. ANY ITEMS TO BE RETURNED TO CLARK COUNTY TRAFFIC OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

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

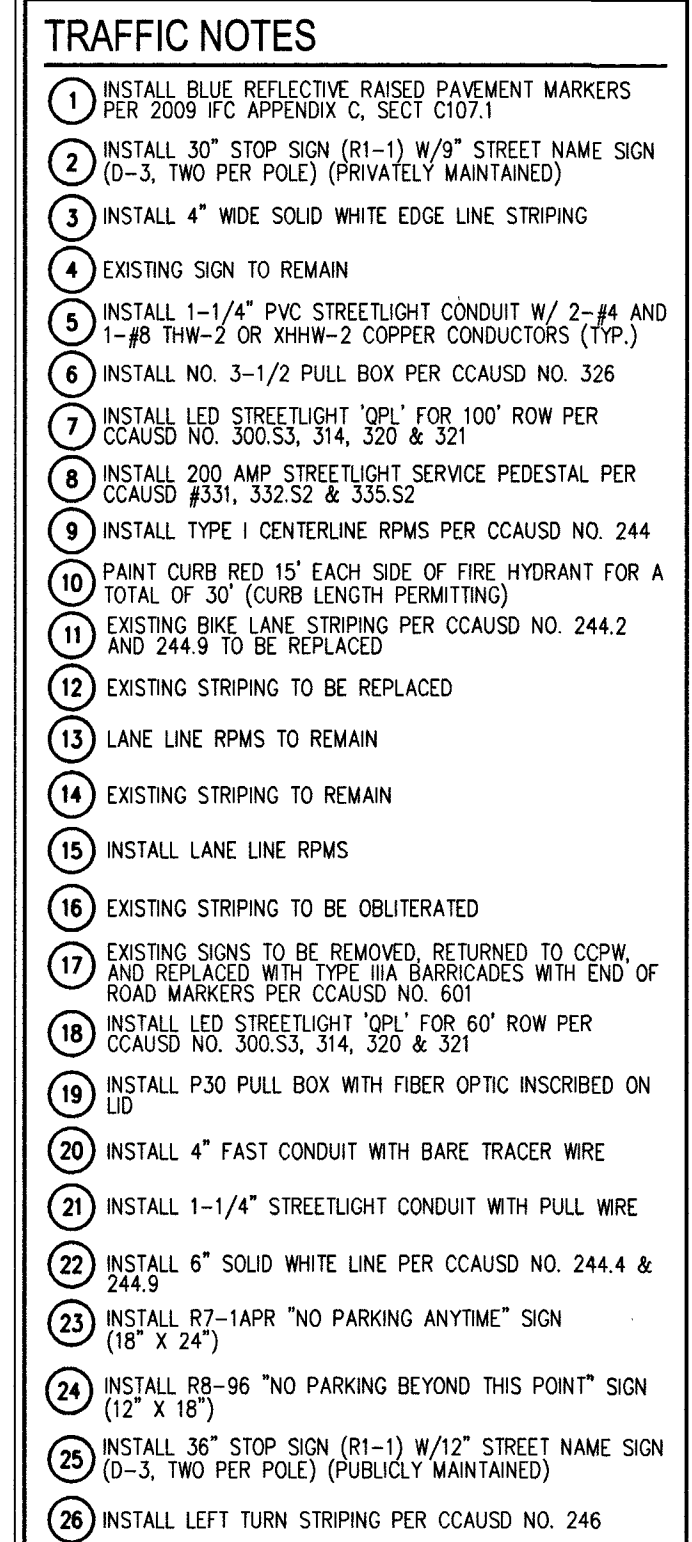
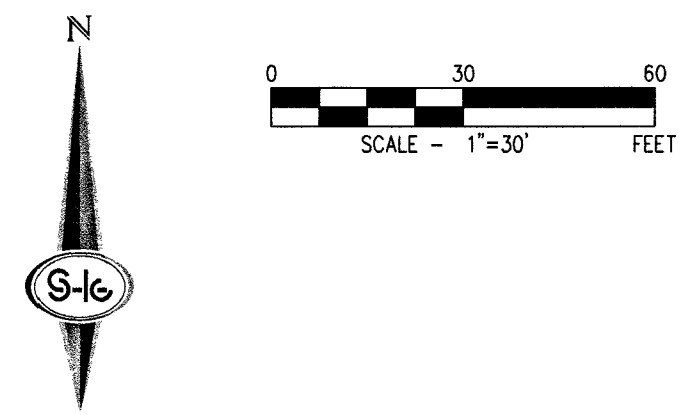
CLARK COUNTY, NEVADA

DATE: 03/26/18
DRAFTER: EMH
DESIGNER: EMH
CHECKED: KWB
PROJECT NO. PIN1702

PINNACLE HOMES
ELK RIDGE ESTATES IV
TRAFFIC PLAN III

18-10396
L18-00094

30701130-4



TRAFFIC LEGEND

	STREET NAME SIGN (0-3, 2 PER POLE) SIZE PER PLAN
	9" STREET NAME SIGN (0-3, 2 PER POLE)
	STOP SIGN W/POST (R1-1) SIZE PER PLAN
	12"x18" NO PARKING BEYOND THIS POINT SIGN (R6-96)
	18"x24" NO PARKING ANYTIME SIGN (R7-1APR)
	24"x18" BIKE LANE SIGN (R3-17)
	TYPE IIIA BARRICADE/END OF ROAD MARKERS (0W4-1) PER CAUSAUD # 601
	48"x24" "TWO DIRECTION" ARROW SIGN (W1-7)
	TRAFFIC SIGN (AS INDICATED)
	EXISTING TRAFFIC SIGN
	REFLECTIVE RAISED PAVEMENT MARKERS
	SIGHT VISIBILITY ZONE
	NO. 3-1/2 PULL OUT (STREET LIGHT)
	STREETLIGHT SERVICE PEDESTAL

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

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR DAMAGED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. MATERIAL USED SHALL MEET ALL 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 CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
3. SVZ NOTE: PER USFCA DWG #2012: NO WALLS, FENCES, SHURBES, UTILITY APPURTENANCES OR ANY OTHER OBJECTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED WITHIN 10' WITHIN THE SVZ. THE SVZ SHALL BE MAINTAINED AT LEAST 18" INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB, MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE STREET VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.
4. CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC OPERATIONS DIRECTLY TO OBTAIN A SCHEDULE COUNTY STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 24 HOURS NOTICE IS REQUIRED. SCHEDULED HOURS OF OPERATION: 6:30 AM - 3:00 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.
5. CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN IN CLARK COUNTY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. ANY ITEMS NOT INCLUDED TO BE RE-USED IN RECONSTRUCTION SHALL INCLUDE A TRANSFERAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD, THE TRANSFERAL FORM SHALL INCLUDE THE PROJECT NAME, PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL 465-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

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

STREET SIGN NOTE

SIZE OF EXISTING SIGN TO BE VERIFIED. IF 36" R1-1 AND 12" D-3 STREET NAME SIGN - RELOCATE, OTHERWISE RETURN TO CCPW AND INSTALL NEW

SWG DISCLAIMER

THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS OF ANY LOSS OR DAMAGE, HOWEVER ARISING, FROM THE USE OF OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

BENCHMARK

BENCHMARK NUMBER: OLVOO 4SWW6

BRASS CAP "PLS 7008" AT DURANGO DRIVE AND HICKAM AVENUE ALIGNMENT

ELEVATION = 2395.093 FEET, 730.026 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

BASIS OF BEARINGS

NORTH 00°09'04" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 152, PAGE 17 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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.

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT SP-1			
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)		YES OR (NO)	
		CONTACT CLARK COUNTY TRAFFIC OPERATIONS AT 455-6000 TO PERFORM CIRCUIT CAPACITY VERIFICATION.	
		INSTALL A NEW PEDESTAL.	
SERVICE PEDESTAL LOCATION: DURANGO DR STA: 12+66.42			
CLARK COUNTY (COMPLETE IF EXISTING SERVICE)			
DATE OF CIRCUIT VERIFICATION		N/A	
PERSON WHO DID THE VERIFICATION		N/A	
ENGINEER OF THE OFFSITE PLANS			
PERSON WHO DID THE CALCULATIONS:		SS	
CONSULTING ENGINEERING FIRM:		SLATER HANIFAN GROUP, INC.	
CAPACITY CALCULATIONS			
1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	AVAILABLE (2 MINUS 3)	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:			
5	2 NUMBER OF 60" ROW "OPL" LED SILTS @ 1.0 AMPS/EA	2	AMPS
6	3 NUMBER OF 100" ROW "OPL" LED SILTS @ 1.5 AMPS/EA	4.5	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)	6.5	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)		41.5	AMPS

Form revision date: 10/05/05

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
PHONE (702) 264-5300
FAX (702) 264-5399
S-16
8740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118

CLARK COUNTY, NEVADA

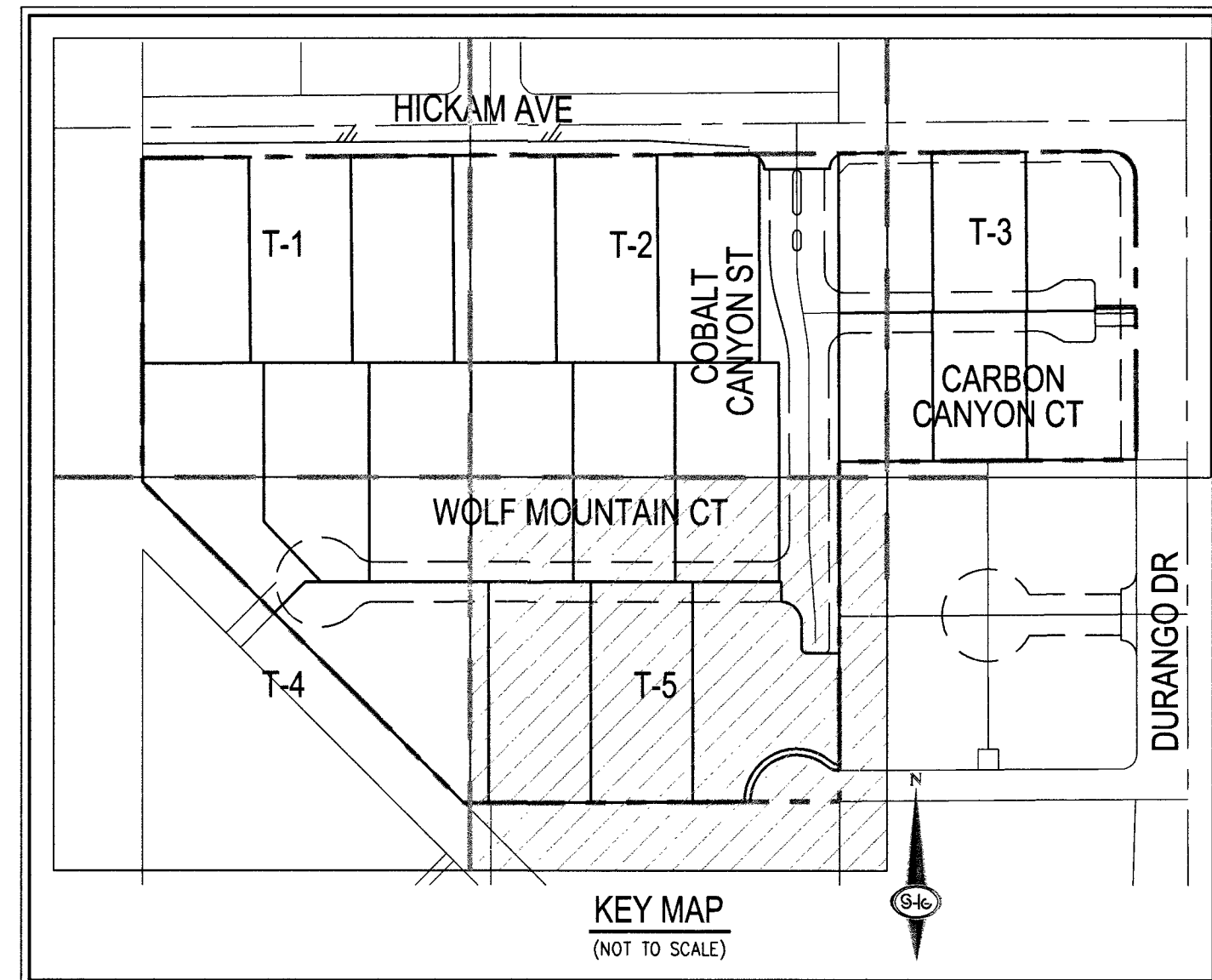
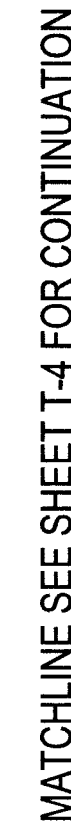
PINNACLE HOMES

S5 T20 R60	
DATE:	03/26/18

DRAFTER: EMH
DESIGNER: EMH
CHECKED: KMB
PROJECT NO.
PIN1702

T-4
SHEET 34 OF 35
18-10396

i:\pin1702 ere iv\dwq\improv\pin1702 trf.dwg 7/2/2018 5:58 AM Lokelo Abad



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

Call



OR

1-800-227-2600