

CLARK COUNTY SCHOOL DISTRICT  
CIVIL IMPROVEMENT PLANS FOR:  
MABEL HOGGARD  
ELEMENTARY SCHOOL REPLACEMENT  
APN : 139-28-210-007  
950 N. TONOPAH DRIVE  
LAS VEGAS, NEVADA 89106  
BID SET

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**UTILITY NOTE**

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 OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**CALL BEFORE YOU DIG: 1-800-227-2600**  
(24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION)

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOTE BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LAS VEGAS VALLEY WATER DISTRICT FACILITIES.

**NOTICE OF INTENT NOTE**

NOTE: ALL LAND SURFACE AREA DISTURBANCES OVER 1 ACRE REQUIRE A STORMWATER DISCHARGE PERMIT ISSUED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP). A PHASED CONSTRUCTION UNIT IN A CONTIGUOUS SUBDIVISION IS CONSIDERED UNDER CONSTRUCTION UNTIL ALL STRIPPED SURFACE AREAS HAVE BEEN COVERED BY PAVING, BUILDING CONSTRUCTION OR PLANTING. A STORMWATER DISCHARGE PERMIT APPLICATION AND ASSOCIATED INFORMATION MAY BE DOWNLOADED FROM THE WEB SITE:  
[HTTP://WWW.STATE.NV.US/BWPC/STORM01.HTM](http://www.state.nv.us/bwpc/storm01.htm) PROJECTS THAT DISTURB MORE THAN ONE ACRE OF LAND MUST SUBMIT TO NDEP A "NOTICE OF INTENT" FOR INCLUSION UNDER STORMWATER PERMIT NO. NVR100000 ALONG WITH APPROPRIATE FILLING FEE.

**NPDES PERMIT NOTE**

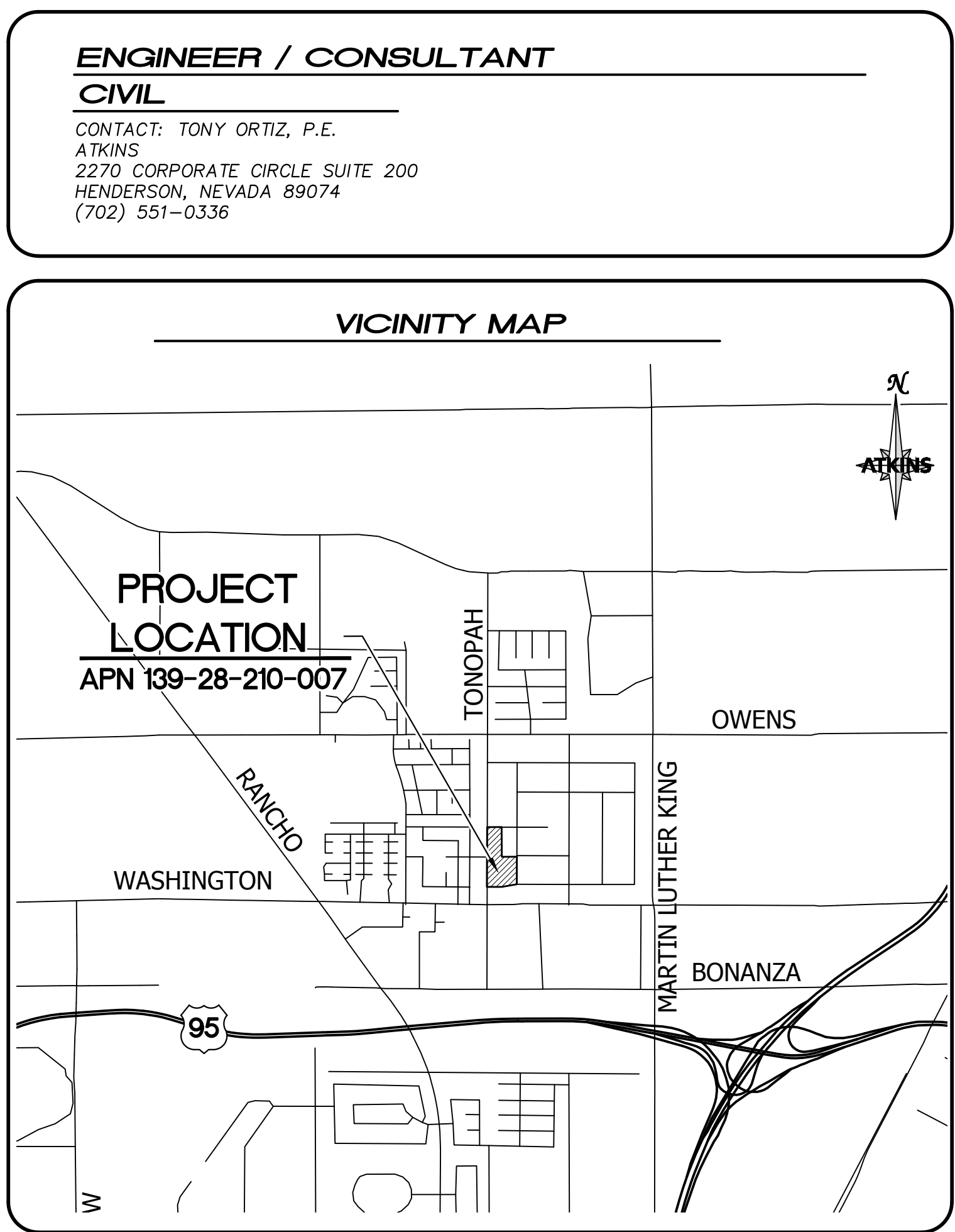
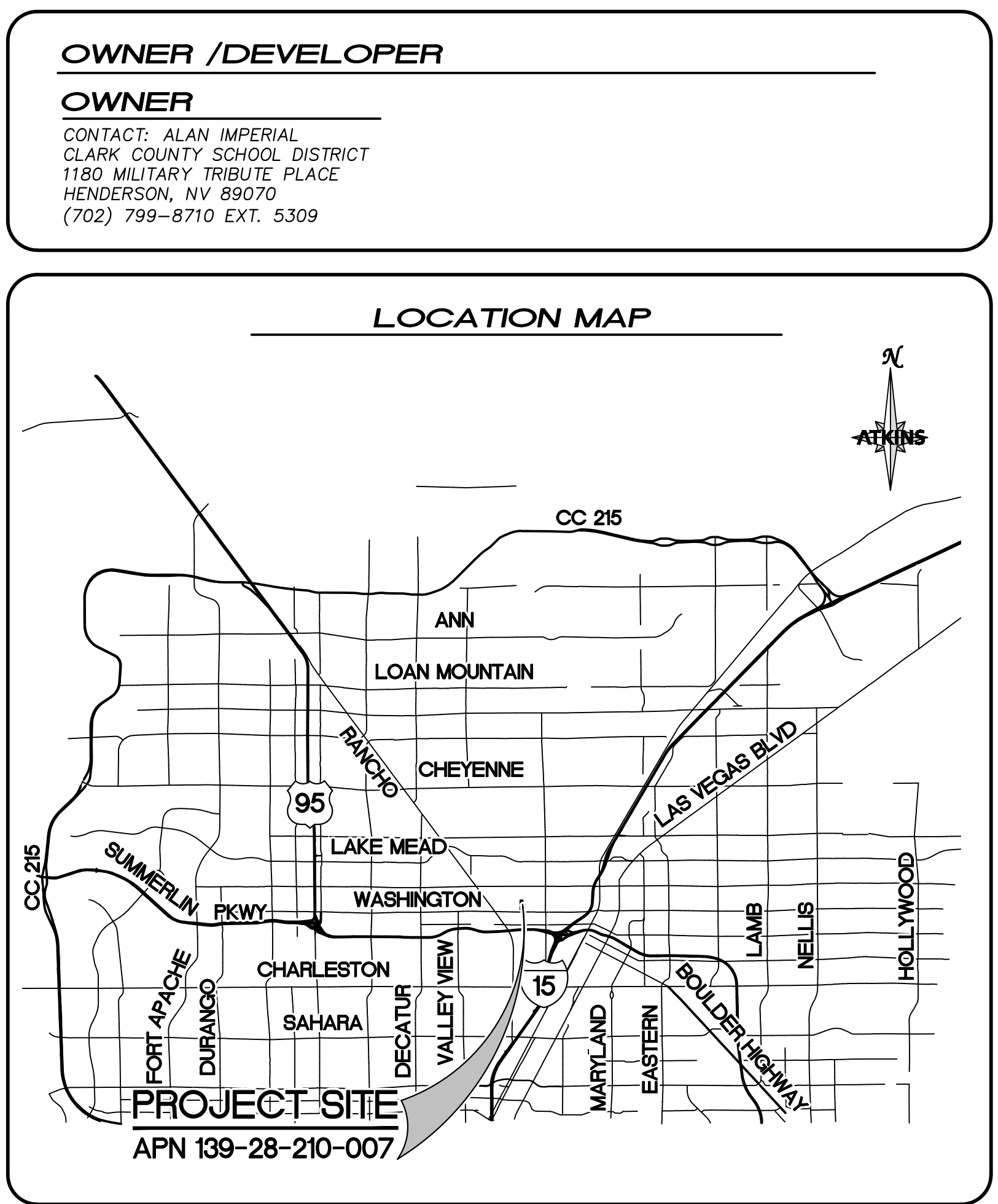
THE CONTRACTOR SHOULD CONTACT THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) TO OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PRIOR TO CONSTRUCTION. ALL CONSTRUCTION PROJECTS ONE ACRE OR LARGER MUST APPLY FOR THE PERMIT THROUGH NDEP. ALL QUESTIONS REGARDING THE NPDES PERMIT REQUIREMENTS SHOULD BE DIRECTED TO THE NDEP AT (775) 687-9429.

**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.

**FEMA FLOOD ZONE INFORMATION**

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (SHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2170F, DATED 11/16/2011. A ZONE X (SHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.



**APPROVALS**

ALLEN PAVELKA, P.E. #9029 DATE  
CITY ENGINEER

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND OR/ DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS, EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARD. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARDS DRAWING AND SPECIFICATIONS CLARK COUNTY AREA, NEVADA.

CITY OF LAS VEGAS PLANNING DEPARTMENT DATE  
NOTE: THIS PLAN CONFORMS TO THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT.

LAS VEGAS FIRE AND RESCUE DATE

CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK DATE  
THE AFFIXED CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES, AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. \_\_\_\_\_ FIRST APPROVED DATE: \_\_\_\_\_  
LVVWD APPROVED FIRE FLOW: TOTAL \_\_\_\_\_ GPM/ONSITE \_\_\_\_\_  
SHEETS: \_\_\_\_\_  
LVVWD APPROVAL IS VALID FOR ONE (1) YEAR FROM SIGNATURE DATE. IF CONSTRUCTION IS NOT STARTED, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

NV ENERGY DATE  
NV ENERGY HAS ACKNOWLEDGED WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION DATE

COX COMMUNICATIONS OF LAS VEGAS, INC DATE

**BASIS OF BEARING**

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N  
CENTRAL MERIDIAN: 114°58'00" W  
FALSE NORTHING: 656,166.6667 FEET (US)  
FALSE EASTING: 328,083.3333 FEET (US)  
STANDARD PARALLEL SCALE: 1.0001  
LINEAR UNIT: US SURVEY FOOT (US FT)

**BENCHMARK**

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

**LEGAL DESCRIPTION**

LOTS SEVEN (7), EIGHT (8), FIFTEEN (15), SIXTEEN (16), SEVENTEEN (17), EIGHTEEN (18), AND NINETEEN (19), IN BLOCK SEVEN (7), OF BONANZA VILLAGE TRACT, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 2 OF PLATS, PAGE 69, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

**FAST**  
Call before you UnderGround  
1-702-432-5300  
OFFICE OF TRANSPORTATION

Call before you Dig  
MORE SAFETY FOR THE COMMUNITY  
Call  
811  
1-800-227-2600

CALL BEFORE OVERHEAD  
POWER LINES ARE LOCATED  
1-702-227-2829

NOT FOR CONSTRUCTION  
ISSUE FOR BID

**ATKINS**  
2270 Corporate Circle Suite 200  
HENDERSON, NEVADA 89074  
Tel: 702.551.0336  
Fax: 702.551.0336

**CLARK COUNTY SCHOOL DISTRICT**  
CONSTRUCTION MANAGEMENT DEPARTMENT  
1180 MILITARY TRIBUTE PL, HENDERSON, NV 89070  
702-799-8710

**CLARK COUNTY SCHOOL DISTRICT CIVIL IMPROVEMENT PLANS FOR: MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT**  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

**COVER SHEET**

DESIGNED BY: OMO/JLC  
DRAWN BY: T. ORTIZ  
CHECKED BY: T. ORTIZ  
DATE: 2/6/2020  
DRAWING NO. 1/31  
HORIZ: NONE  
VERT: NONE

JOB NO. 100067217  
XXX-XXXXX  
XXX-XXX

BY DATE APPROVAL

REV. DESCRIPTION

REVISIONS

Sheet\67217-01-TITLE-C1.dwg LAYOUT: C0.01 Feb 07, 2020 -- 12:39AM



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| <div>ABBREVIATIONS</div> <div><div><div>@</div><div>AT</div></div><div>#</div><div>AB</div><div>AC</div><div>ACP</div><div>AGG</div><div>AIP</div><div>ALT</div><div>AP</div><div>APPROX</div><div>ASTM</div><div>AV/AR</div><div>BC</div><div>BCR</div><div>BLDG</div><div>BLK</div><div>BLVD</div><div>BM</div><div>BO</div><div>BP</div><div>BSW</div><div>BVC</div><div>BVCE</div><div>BVCS</div><div>BW</div><div>C&amp;G</div><div>C-C</div><div>CATV</div><div>CCAUSD</div><div>CCRCD</div><div>CCSD</div><div>CCWRD</div><div>CF</div><div>CIP</div><div>CL</div><div>CLR</div><div>CLV</div><div>CM</div><div>CMP</div><div>CMU</div><div>CNDT</div><div>CNLV</div><div>CO</div><div>COH</div><div>COL</div><div>CON'T</div><div>CONC</div><div>CONST</div><div>COR</div><div>CPP</div><div>CSP</div><div>CU</div><div>CULV</div><div>CY</div><div>D</div><div>DCSWCS</div><div>DET, DTL</div><div>DEPT</div><div>DG</div><div>DI</div><div>DIA</div><div>DIA</div><div>DIA</div><div>DIP</div><div>DOC</div><div>DOM</div><div>DW</div><div>DWG</div><div>E</div><div>EA</div><div>EB</div><div>EC</div><div>ECR</div><div>EF</div><div>EG</div><div>ELEC</div><div>ELEV</div><div>EMBK</div><div>EOP</div><div>EP</div><div>EQ</div><div>ESMT</div><div>EVC</div><div>EVCS</div><div>EW</div><div>EX, EXST</div><div>EXP, JT</div><div>FA</div></div> <div><div>FC</div><div>FF</div><div>FH</div><div>FL</div><div>FO</div><div>FT</div><div>G</div><div>GALV</div><div>GB</div><div>GL</div><div>GM</div><div>GUT</div><div>GV</div><div>H</div><div>HDPE</div><div>HDWL</div><div>HE</div><div>HGL</div><div>HOA</div><div>HOR</div><div>HP</div><div>ID</div><div>IN</div><div>INT</div><div>INV</div><div>IQAC</div><div>IRR</div><div>ISL</div><div>JB</div><div>JCT</div><div>JT</div><div>K</div><div>L</div><div>LB</div><div>LF</div><div>LIN</div><div>LIN #</div><div>LOC</div><div>LOL</div><div>LP</div><div>LS</div><div>LT</div><div>LVC</div><div>LVVWD</div><div>MAS</div><div>MAX</div><div>MH</div><div>MIN</div><div>MON</div><div>MOW</div><div>MTL</div><div>ME</div><div>MUE</div><div>N</div><div>NAP</div><div>NDOT</div><div>NF</div><div>NG</div><div>NIC</div><div>No.</div><div>NTS</div><div>NVE</div><div>OC</div><div>OD</div><div>OG</div><div>OH</div><div>OHP</div><div>OS</div><div>P</div><div>PB</div><div>PBS</div><div>PC</div><div>PCC</div><div>PE</div><div>PG</div><div>PGL</div><div>PH</div><div>PI</div><div>PIP</div><div>PL</div><div>PLCS</div><div>PMF</div><div>POC</div><div>PP</div><div>PRC</div><div>PROP</div><div>PSI</div><div>PT</div></div> <div><div>PUE</div><div>PVC</div><div>PVI</div><div>PVMT</div><div>QTY</div><div>(R)</div><div>R/W, ROW</div><div>R</div><div>RC</div><div>RCB</div><div>RCC</div><div>RCP</div><div>RD</div><div>REINF</div><div>RELOC</div><div>REV</div><div>RG</div><div>RP</div><div>RPM</div><div>RR</div><div>RT</div><div>SCHED</div><div>SD</div><div>SDMH</div><div>SF</div><div>SHLD</div><div>SHT</div><div>SHP</div><div>SMFO</div><div>SNWA</div><div>SQ</div><div>SS</div><div>SSD</div><div>SST</div><div>ST</div><div>STA</div><div>STD</div><div>STL</div><div>STLT</div><div>STLT</div><div>SDHW</div><div>STRUCT</div><div>SUM #</div><div>SURV</div><div>SVZ</div><div>SW</div><div>SY</div><div>T</div><div>TAN</div><div>TB</div><div>TBA</div><div>TBC</div><div>TBR</div><div>TC</div><div>TC</div><div>TCD</div><div>TDS</div><div>TEL</div><div>TEMP</div><div>TF</div><div>THK</div><div>THR</div><div>THW</div><div>TOF</div><div>TW/TOW</div><div>TP</div><div>TRANS</div><div>TS</div><div>TSI</div><div>TW</div><div>TYP</div><div>UDACS</div><div>UG</div><div>UGP</div><div>UIE</div><div>UNO</div><div>UPRR</div><div>USD</div><div>UTACS</div><div>USTCDE</div><div>V</div><div>VAR</div><div>VC</div><div>VCP</div><div>VERT</div><div>VG</div><div>W</div></div> <div><div>W/</div><div>WB</div><div>WL</div><div>WM</div><div>W/O</div><div>WPJ</div><div>WV</div><div>WW</div><div>YD</div><div>WITH</div><div>WEST BOUND</div><div>WATER LINE</div><div>WATER METER</div><div>WITHOUT</div><div>WEAKENED PLANE JOINT</div><div>WATER VALVE</div><div>WING WALL</div><div>YARD(S)</div></div> |  | <div><div>EXISTING</div><div>PROPOSED</div></div> <div><div>DAYLIGHT LINE</div><div>FLOWLINE</div><div>CENTERLINE</div><div>PARCEL LINE</div><div>RIGHT OF WAY</div><div>PAVEMENT STRIPING</div><div>OVERHEAD POWER</div><div>UNDERGROUND POWER</div><div>SANITARY SEWER</div><div>WATER</div><div>STORM DRAIN</div><div>GAS</div><div>CABLE T.V.</div><div>TELEPHONE</div><div>STREETLIGHT CONDUIT</div><div>STOP BAR</div><div>CONCRETE ENCASEMENT</div><div>FENCE</div><div>BLOCK WALL</div><div>CMU RETAINING WALL</div><div>SAWCUT PAVEMENT</div><div>CONTOUR</div><div>SPOT ELEVATION</div><div>CURB AND GUTTER</div><div>EDGE OF PAVEMENT</div><div>EASEMENT</div><div>MATCHLINE</div><div>SIGN</div><div>DOUBLE POST SIGN</div><div>STORM DRAIN MANHOLE</div><div>STORM DRAIN STRUCTURE</div><div>DROP INLET</div><div>BEEHIVE INLET</div><div>SEWER MANHOLE</div><div>FIRE HYDRANT</div><div>CAP AND BLOWOFF</div><div>GATE VALVE</div><div>REDUCER</div><div>STREETLIGHT</div><div>PULLBOX</div><div>SIGNAL POLE</div><div>ELEVATION</div><div>SIDEWALK</div><div>BUILDING CANOPY</div><div>BUILDING</div><div>BUILDING FOOTING/<br/>RETAINING WALL</div><div>STACKWALL RETAINING</div></div> | <div><div>NOTE TO CONTRACTOR</div><div>*THE CONTRACTOR SHALL CONTACT FAST, 811 (CALL BEFORE YOU DIG), AND CALL BEFORE YOU OVERHEAD 24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION.</div></div> <div><div>UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.</div></div> <div><div>NOT FOR CONSTRUCTION<br/>ISSUE FOR BID</div></div> | <div><div>REVISIONS</div><div>REV.</div><div>DESCRIPTION</div><div>BY</div><div>DATE</div><div>APPROVAL</div></div> <div><div>ATKINS</div><div>2270 Corporate Circle Suite 200<br/>Henderson, Nevada 89074<br/>Telephone: +1702.263.7275<br/>Fax: +1702.263.7200</div></div> <div><div>CLARK COUNTY<br/>SCHOOL DISTRICT</div><div>CONSTRUCTION MANAGEMENT DEPARTMENT<br/>1800 MILITARY PARKWAY, HENDERSON, NV 89011 PHONE: 702-399-5910</div></div> <div><div>CLARK COUNTY SCHOOL DISTRICT<br/>CIVIL IMPROVEMENT PLANS FOR:<br/>MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT<br/>950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106</div><div>LEGEND AND ABBREVIATIONS</div></div> <div><div>DESIGNED BY:<br/>J. CABRERA</div><div>DRAWN BY:<br/>B. CORON</div><div>CHECKED BY:<br/>B. CORON</div><div>DATE:<br/>2/6/2020</div><div>DRAWING NO.:<br/>2/31</div><div>PROJECT NO.:<br/>100067217</div><div>DATE:<br/>2/6/2020</div><div>DRAWING NO.:<br/>2/31</div><div>PROJECT NO.:<br/>100067217</div></div> <div><div>CO-02</div><div>XXX-XXXX</div><div>XXX-XXX</div></div> |
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| CITY OF LAS VEGAS GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| <div>1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE 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".</div> <div>2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVEYANCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.</div> <div>3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.</div> <div>4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.</div> <div>5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE PROVIDED BY THE CITY ENGINEER FOR THE PROJECT.</div> <div>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.</div> <div>7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.</div> <div>8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.</div> <div>9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.</div> <div>10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.</div> <div>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.</div> <div>12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE ) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.</div> <div>13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.</div> <div>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 STATUTE NO. 625.380 &amp; CITY OF LAS VEGAS TITLE 18, APPENDIX D.</div> <div>15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.</div> <div>WALL NOTES:</div> <div>16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.</div> <div>17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.</div> <div>18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.</div> <div>19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MDT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.</div> <div>20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.</div> <div>21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.</div> <div>22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.</div> <div>23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.</div> <div>REVISED 06/04/2018</div> |

| LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <div>1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.</div> <div>2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.</div> <div>3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI000000, SECTION III.A.5.</div> <div>4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI000000, SECTION III.A.12.</div> <div>5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.</div> |

| SOUTHWEST NEVADA – SOUTHWEST GAS CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <div>GENERAL NOTES</div> <div>1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020</div> <div>2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC</div> <div>3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION</div> <div>4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099</div> <div>ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE NOTES SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW:</div> <div>CAUTION: HIGH PRESSURE GAS</div> <div>CALL SOUTHWEST GAS AT 702-668-6107 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION</div> |

| GRADING NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <div>1. INDICATED GRADES OTHER THAN TC, FG &amp; GUTTER FL ARE ROUGH GRADES.</div> <div>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 PLAN WILL RESULT IN QUANTITY CHANGES.</div> <div>3. SOILS REPORT PREPARED BY: TERRACON, 750 PILOT ROAD SUITE #F, LAS VEGAS, NV 89119, PHONE: 702-597-9393, PROJECT NO. : 64195017, DATED: APRIL 22, 2019.</div> <div>4. EARTHWORK QUANTITIES (RAW):<div>-CUT = 180 CUBIC YARDS</div><div>-FILL = 13,525 CUBIC YARDS</div><div>A. THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.</div><div>B. THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.</div><div>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.</div></div> |

| CITY OF LAS VEGAS FIRE DEPARTMENT NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| <div>1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.</div> <div>2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICTS –APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.</div> <div>3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING WORK SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15</div> <div>4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 3312</div> <div>5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3</div> <div>6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3</div> <div>7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24</div> <div>8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC § 507</div> <div>9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1</div> <div>10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507</div> <div>11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102<div>• RESIDENTIAL – 500 FT UNSPRINKLERED.</div><div>• COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.</div></div> <div>12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8</div> <div>13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.</div> <div>14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10</div> <div>15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.4</div> <div>16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7</div> <div>17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6</div> <div>18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104</div> <div>19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. IFC § 503.2.3</div> <div>20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7, § 503.2.8</div> <div>21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING IFC § 503.2.4</div> <div>22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1</div> <div>23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB, NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB, NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LINES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1</div> <div>24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1</div> <div>25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEADENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU</div> <div>26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 61 FT. CLV REGULATION</div> <div>27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE. ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO CEMENT 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR HIGHWAY (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3</div> <div>28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER IFC § 503.6</div> <div>29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION</div> |
| CITY OF LAS VEGAS GRADING NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| <div>1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.</div> <div>2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN ON THESE PLANS.</div> <div>3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.</div> <div>4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.</div> <div>5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.</div> <div>6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:<div><div><div>HORIZONTAL</div><div>VERTICAL</div><div>COMPACTION</div></div><div>A. PAVEMENT AREA SUBGRADE 0.1+    +0.0' TO -0.1'    SEE SOILS REPORT</div><div>B. ENGINEERED FILL 0.5+    +0.1' TO -0.1'    SEE SOILS REPORT</div></div><div>COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.</div></div> <div>7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.</div> <div>8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.</div> <div>9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE IMMEDIATELY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.</div> <div>10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.</div> <div>REVISED 04/15/10</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <div>1. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PUBLIC ENTITIES, THE PROJECT ENGINEER AND THE CITY OF LAS VEGAS AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.</div> <div>2. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE CONTRACT DRAWINGS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER.</div> <div>3. 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 ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.</div> <div>4. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR NOT IN THE LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY 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.</div> <div>5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE COUNTY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.</div> <div>6. THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS, OR ANY OTHER EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR THE PROJECT ENGINEER'S RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALKS, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE REQUIRED BY THE PROJECT ENGINEER.</div> <div>7. THE CONTRACTOR SHALL BACKFILL AND FINE GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE PROJECT ENGINEER. WHERE EXISTING LAWNS ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS THE CONTRACTOR WILL SOO THE AFFECTED AREA TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.</div> <div>8. THE 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 TRANSITIONS TO BE AS SHOWN PER CONTRACT DRAWINGS.</div> <div>9. 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.E.S. STATUTE NO. 625.550.</div> <div>10. THE ACTUAL LOCATIONS OF SAW CUT LINES, LIMITS OF COLD MILLING, LIMITS OF DRIVEWAY TRANSITIONS, AND LANDSCAPE REPAIR SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT PROJECT REPRESENTATIVE.</div> <div>11. THE ACTUAL LIMITS OF EXISTING OPEN GRADE REMOVAL AND UDACS APPLICATION SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT PROJECT REPRESENTATIVE.</div> <div>12. ALL STANDARD DRAWINGS REFERENCED IN THIS SET ARE BASED ON THE CURRENT "UNIFORM STANDARD DRAWINGS REVISION SET II-1997 RELEASE"</div> <div>13. UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL WATER SERVICES AND METERS WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.</div> <div>14. THE CONTRACTOR SHALL MAINTAIN AN ONGOING REMOVAL PROCESS OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.</div> <div>15. CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.</div> <div>16. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, EXISTING CONDITIONS AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC AND PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE WORK.</div> <div>17. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE SO AS TO NOT IMPACT THE SCHEDULE.</div> <div>18. COX COMMUNICATIONS SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL CATV FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS, UNLESS NOTED OTHERWISE.</div> <div>19. NV ENERGY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.</div> <div>20. EMBARGO SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL TELEPHONE FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON CONTRACT DRAWINGS, UNLESS NOTED OTHERWISE.</div> |
| CITY OF LAS VEGAS TRAFFIC NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| <div>1. ALL CONSTRUCTION SIGNING, BARRICAADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.</div> <div>2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.</div> <div>3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.</div> <div>4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCRoACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.</div> <div>5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.</div> <div>6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE I RETROREFLECTIVE SHEETING IN ACCORDANCE WITH COALUS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL COMPLY IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.</div> <div>7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.</div> <div>8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.</div> <div>9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.</div> <div>10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.</div> <div>11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.</div> <div>12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) OF CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.</div> <div>13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.</div> <div>14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.</div> <div>15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.</div> <div>REVISED JUNE 4, 2018</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| CITY OF LAS VEGAS SEWER NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <div>1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.</div> <div>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.</div> <div>3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.</div> <div>4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.</div> <div>5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.</div> <div>6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.</div> <div>7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWVD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.</div> <div>8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.</div> <div>9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.</div> <div>10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.</div> <div>REVISED 04/15/10</div> |

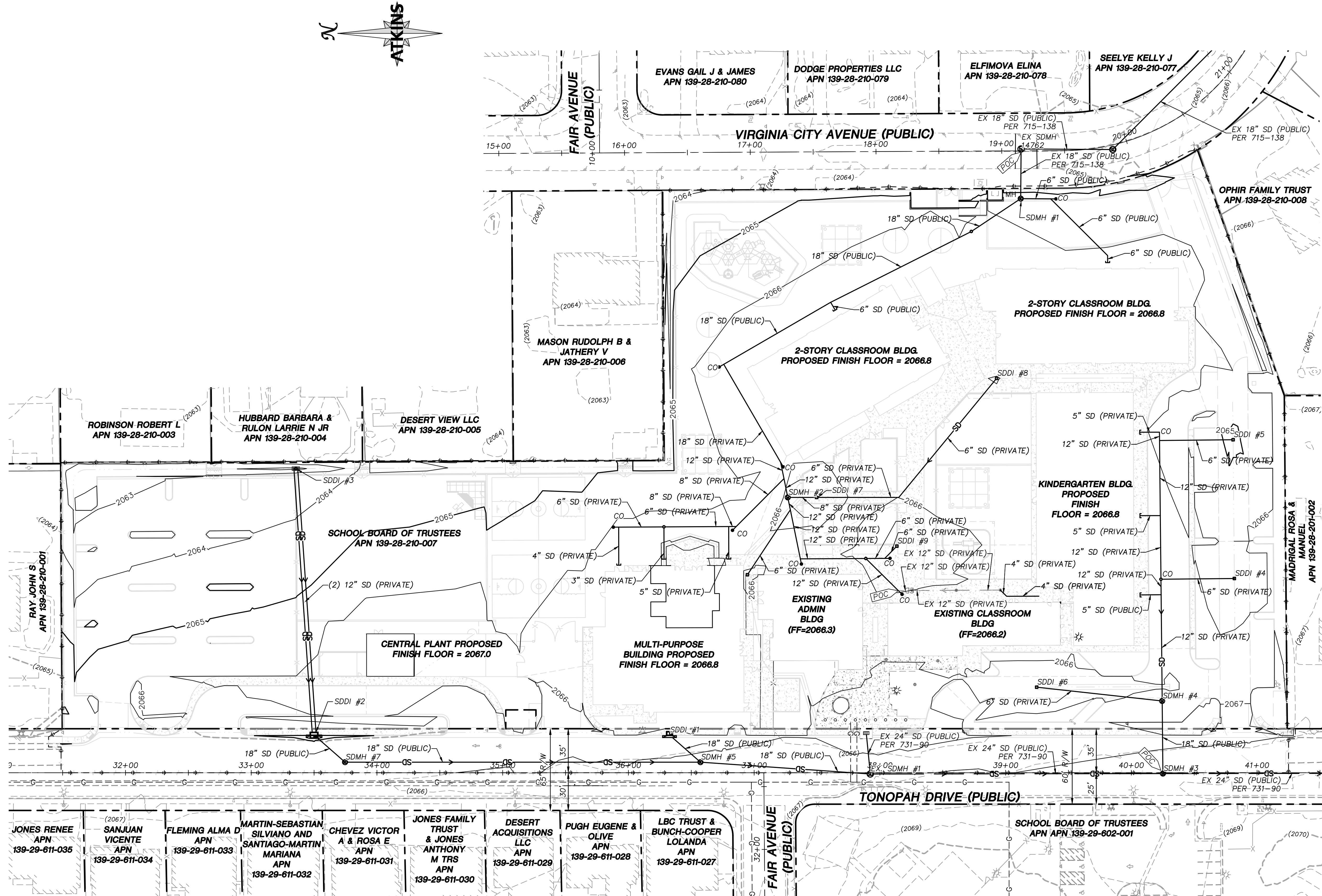
| CITY OF LAS VEGAS STREET LIGHT NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <div>1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.</div> <div>2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.</div> <div>3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.</div> <div>4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.</div> <div>5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. 8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.</div> <div>6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.</div> <div>7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.</div> <div>8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.</div> <div>9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.</div> <div>10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.</div> <div>REVISED 6/4/2018 (LD VERSION)</div> |

| LAS VEGAS VALLEY WATER DISTRICT (LVWVD) NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <div>LVWVD PROJECT #<br/>(REVISED 08/01/2017)</div> <div>1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVWVD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVWVD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVWVD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.</div> <div>2. ALL WORK SHALL CONFORM TO LVWVD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERCEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.</div> <div>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.</div> <div>4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVWVD.</div> <div>5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVWVD APPROVED SERVICE SADDLES.</div> <div>6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.</div> <div>7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.</div> <div>8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.</div> <div>9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.</div> <div>10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVWVD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802 TWO (2) WORKING DAYS PRIOR TO METER PICKUP.</div> <div>11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01 AND APPROVED BY THE LVWVD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.</div> <div>12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST AS BE LISTED ON THE LVWVD APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.</div> <div>13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.</div> <div>14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVWVD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARD, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVWVD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.</div> <div>ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVWVD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVWVD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVWVD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVWVD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.</div> <div>15. NO LEAD COMPACTION NOTE:<br/>TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED OR INSTALLED SHALL BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.</div> |

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| APPROVED FOR CONSTRUCTION                            |
| LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES |
| PROJECT NO. _____ FIRST APPROVED DATE: _____         |
| DEVIATIONS FROM STANDARDS                            |
| NONE.                                                |

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| CLARK COUNTY SCHOOL DISTRICT<br>CIVIL IMPROVEMENT PLANS FOR:<br>MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT<br>950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106 |                        | CLARK COUNTY<br>SCHOOL DISTRICT<br><br>CONSTRUCTION MANAGEMENT DEPARTMENT<br>1800 MILITARY ROAD, IN. HENDERSON, NV 89001 PHONE: 702-395-0700 |                    | ATKINS<br>2270 Corporate Circle Suite 200<br>Henderson, NV 89002<br>Telephone: +1702-263.7275<br>Fax: +1702-263.7200 |             | REVISIONS |      |          |
| DESIGNED BY:<br>OMO/JLC                                                                                                                                     | DRAWN BY:<br>B. CONDON | DATE:<br>2/6/2020                                                                                                                                                                                                                | DRAWING NO. 3 / 31 | REV.                                                                                                                 | DESCRIPTION | BY        | DATE | APPROVAL |
| 100067217                                                                                                                                                   |                        |                                                                                                                                                                                                                                  |                    |                                                                                                                      |             |           |      |          |
| GENERAL NOTES                                                                                                                                               |                        |                                                                                                                                                                                                                                  |                    |                                                                                                                      |             |           |      |          |
| C0.03                                                                                                                                                       |                        |                                                                                                                                                                                                                                  |                    |                                                                                                                      |             |           |      |          |
| XXX-XXXXXX                                                                                                                                                  |                        |                                                                                                                                                                                                                                  |                    |                                                                                                                      |             |           |      |          |
| XXX-XXXXXX                                                                                                                                                  |                        |                                                                                                                                                                                                                                  |                    |                                                                                                                      |             |           |      |          |



[illegible]

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY.  
IT IS AN OVERALL REPRESENTATION OF THE UTILITY  
FOR REVIEW AND COORDINATION WITH OTHER  
PROJECT DETAILS WITHIN THIS PLAN SET.

1. SEE SHEETS C4.01 AND C4.02 FOR CONSTRUCTION NOTES AND INFORMATION RELATED TO STORM DRAIN.
2. ALL STORM DRAIN MATERIAL TO BE PVC SDR-35, UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO PROVIDE 6" MINIMUM OF CLEARANCE BETWEEN OUTSIDE OF PIPE TO INSIDE WALL OF STORM DRAIN STRUCTURES.

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

NOT FOR CONSTRUCTION  
ISSUE FOR BID

[illegible]

**ATKINS**  
22270 Corporate Circle Suite 200  
Henderson, Nevada 89074  
Telephone: +1702.263.7275  
Fax: +1702.263.7200

12: 41AM

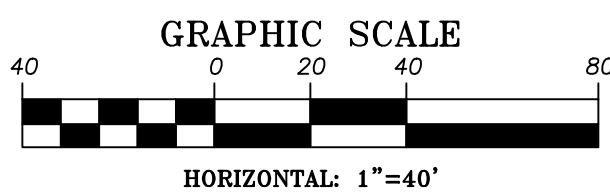
CLARK COUNTY  
SCHOOL DISTRICT  
CONSTRUCTION MANAGEMENT DEPARTMENT  
18180 MILITARY TRIBUTE LN., HENDERSON, NV 89074 PHONE: 702-799-8710  
Dr.dwg LAYOUT: C4.00 Feb 07, 2020

**CLARK COUNTY SCHOOL DISTRICT  
CIVIL IMPROVEMENT PLANS FOR:**  
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

# MASTER DRAINAGE PLAN

|                              |                                 |
|------------------------------|---------------------------------|
| JOB NO.:<br><b>100067217</b> | DESIGNED BY:<br>J. CABRERA      |
| DATE: <b>2/6/2020</b>        | DRAWN BY:<br>O. QUASSANI        |
| DRAWING NO. <b>12 / 31</b>   | CHECKED BY:<br>T. ORTIZ         |
| <b>C4.00</b>                 | HORIZ.: 1" = 40'<br>VERT.: NONE |

Projects\Land Development\Sh...



NAME: ANTHONY J. ORTIZ PE: 18849 DATE: \_\_\_\_\_  
 CERTIFY THAT THIS GRADING PLAN IS IN  
 CONFORMANCE WITH APPROVED DRAINAGE STUDY  
 FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS  
 FOR THIS PROJECT. DS#XXXX

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983  
(2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
 STANDARD PARALLEL AND GRID ORIGIN:  
 36°15'00" N  
 CENTRAL MERIDIAN: 114°58'00" W  
 FALSE NORTHING: 656,166.6667 FEET  
 (US)  
 FALSE EASTING: 328,083.3333 FEET  
 (US)  
 STANDARD PARALLEL SCALE: 1.0001  
 LINEAR UNIT: US SURVEY FOOT (US FT)

CENTRAL 36°15'00" N CLV BM 06129A10  
INATE STANDARD MERIDIAN: 114°58'00" W RIVET & PLATE TOP CURB NE CORNER FAIR  
VEGAS AND FALSE NORTHING: 656,166.6667 FEET AV. & TONOPAH DR.  
S, NORTH (US) ELEVATION: 2067.00 FEET (NAVD88), 630.022  
NORTH FALSE EASTING: 328,083.3333 FEET METERS  
(MEL)



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

**Call**  
**811**

OR  
**1-800-642-2444**

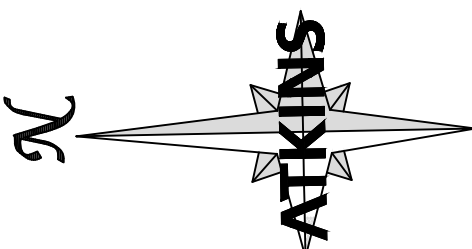
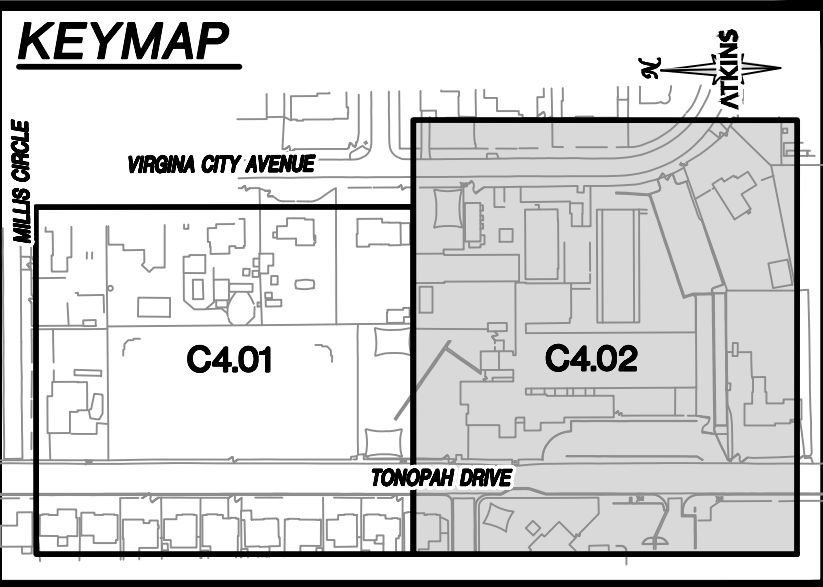


XX-XXXX XXX-XXX



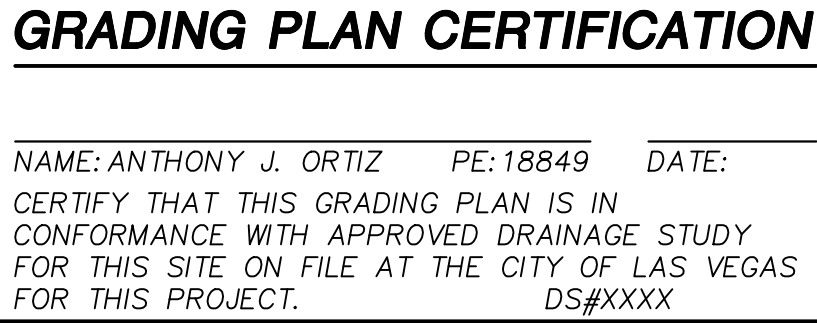




[illegible]

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

NOT FOR CONSTRUCTION  
ISSUE FOR BIDDING



GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

STANDARD PARALLEL AND GRID ORIGIN:  
36°15'00" N  
CENTRAL MERIDIAN: 114°58'00" W  
FALSE NORTHING: 656,166.6667 FEET  
(US)  
FALSE EASTING: 328,083.3333 FEET  
(US)  
STANDARD PARALLEL SCALE: 1.0001  
LINEAR UNIT: US SURVEY FOOT (US FT)



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**Call**  
**811**

OR  
**1-800-642-2444**

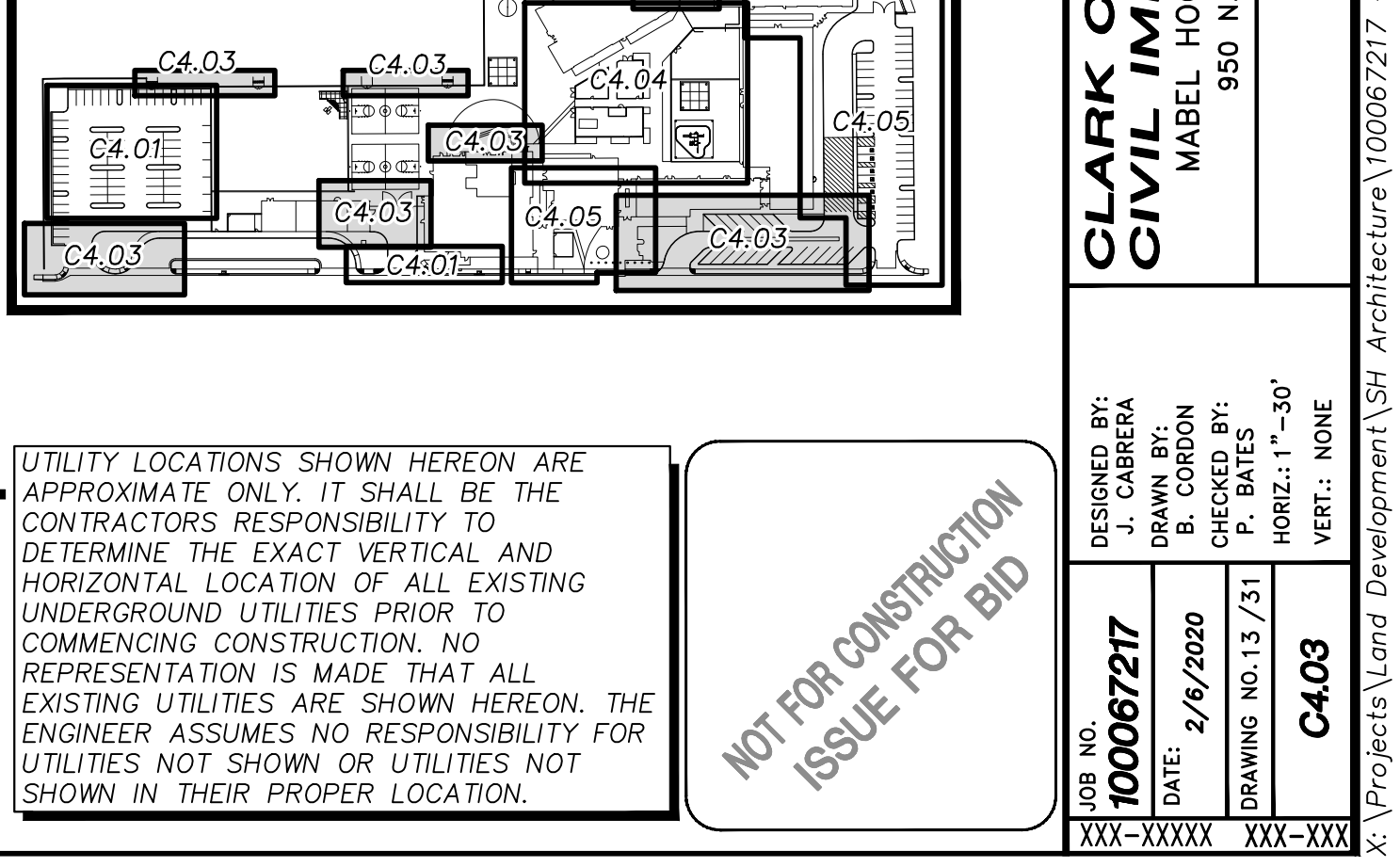
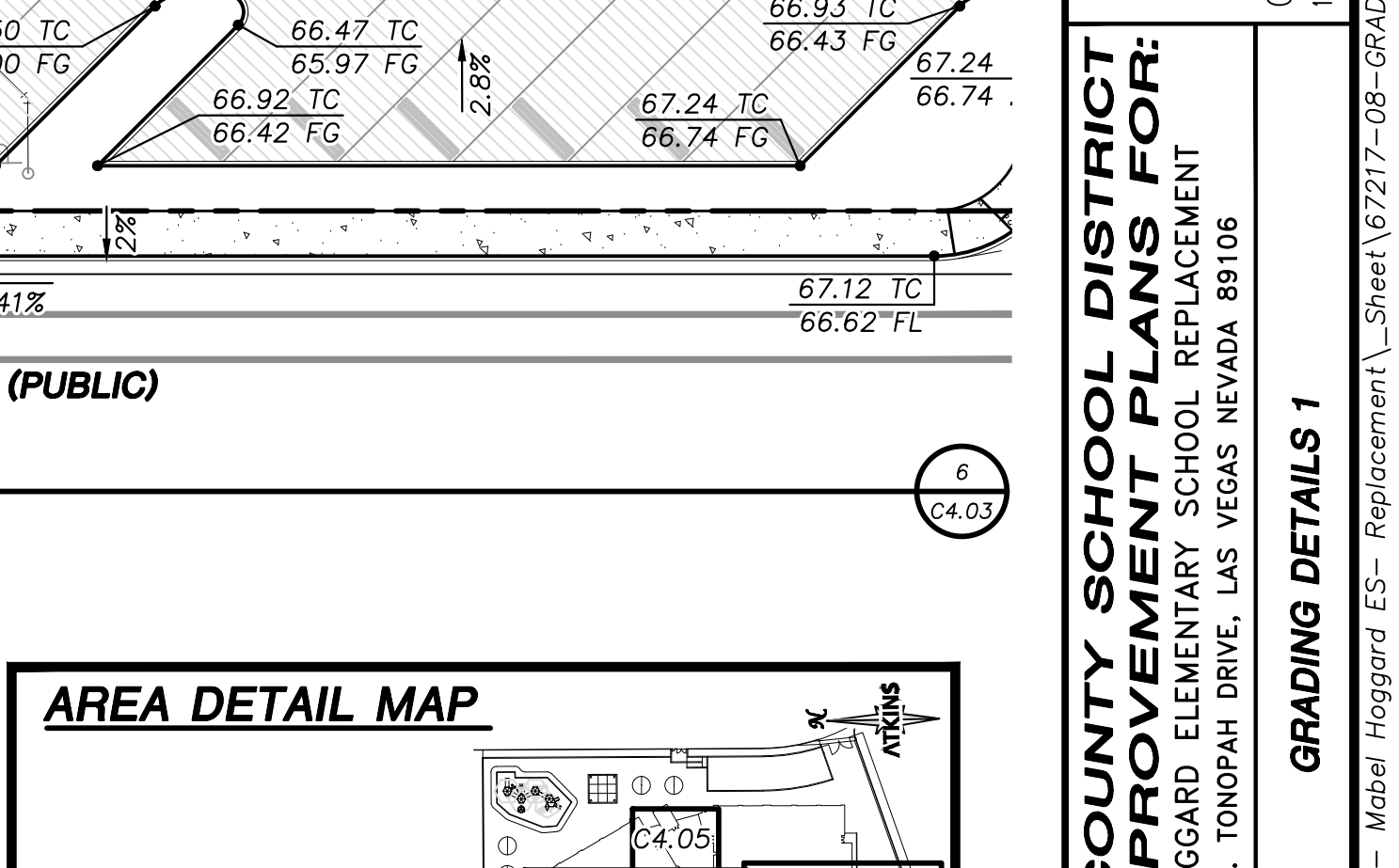
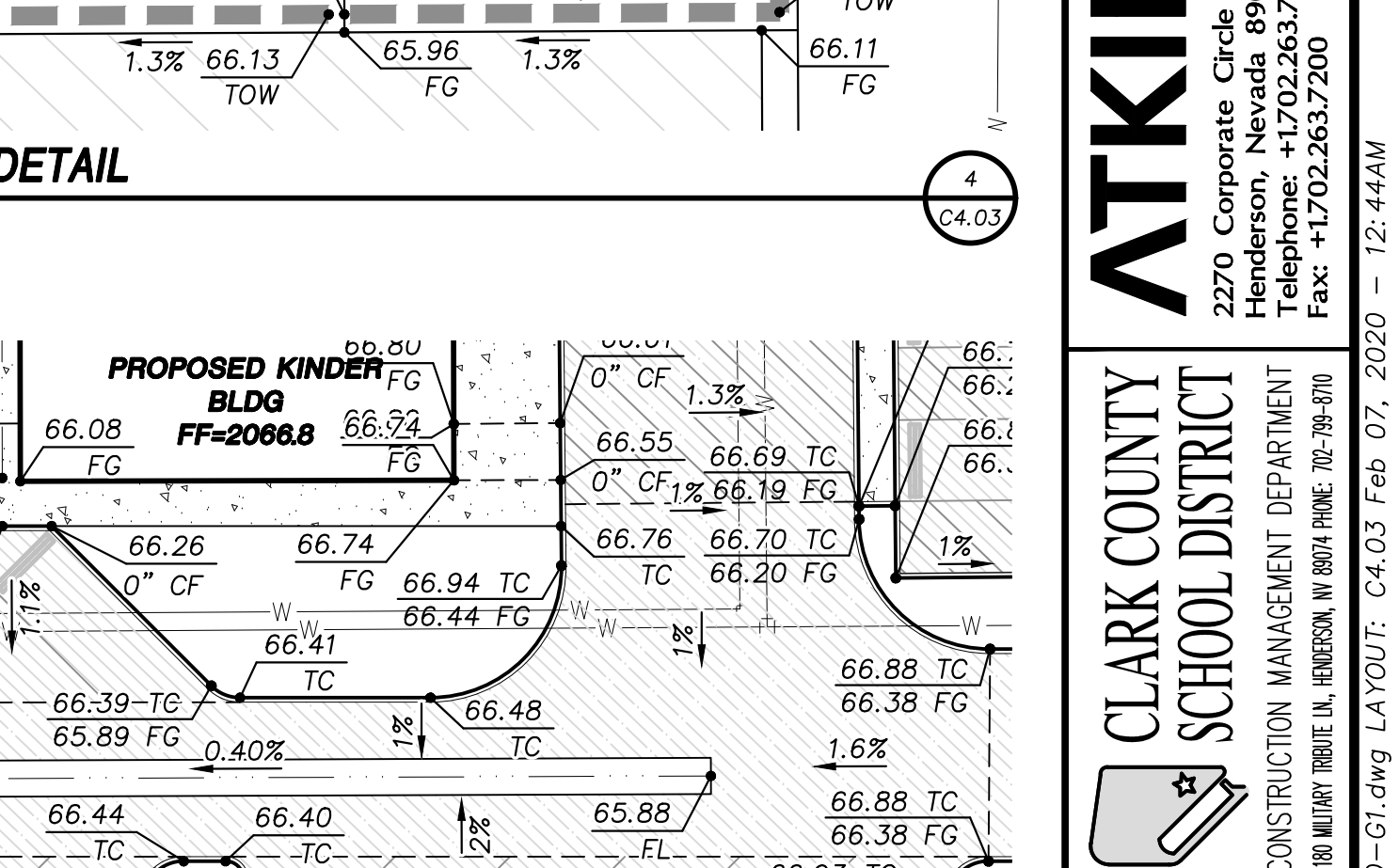
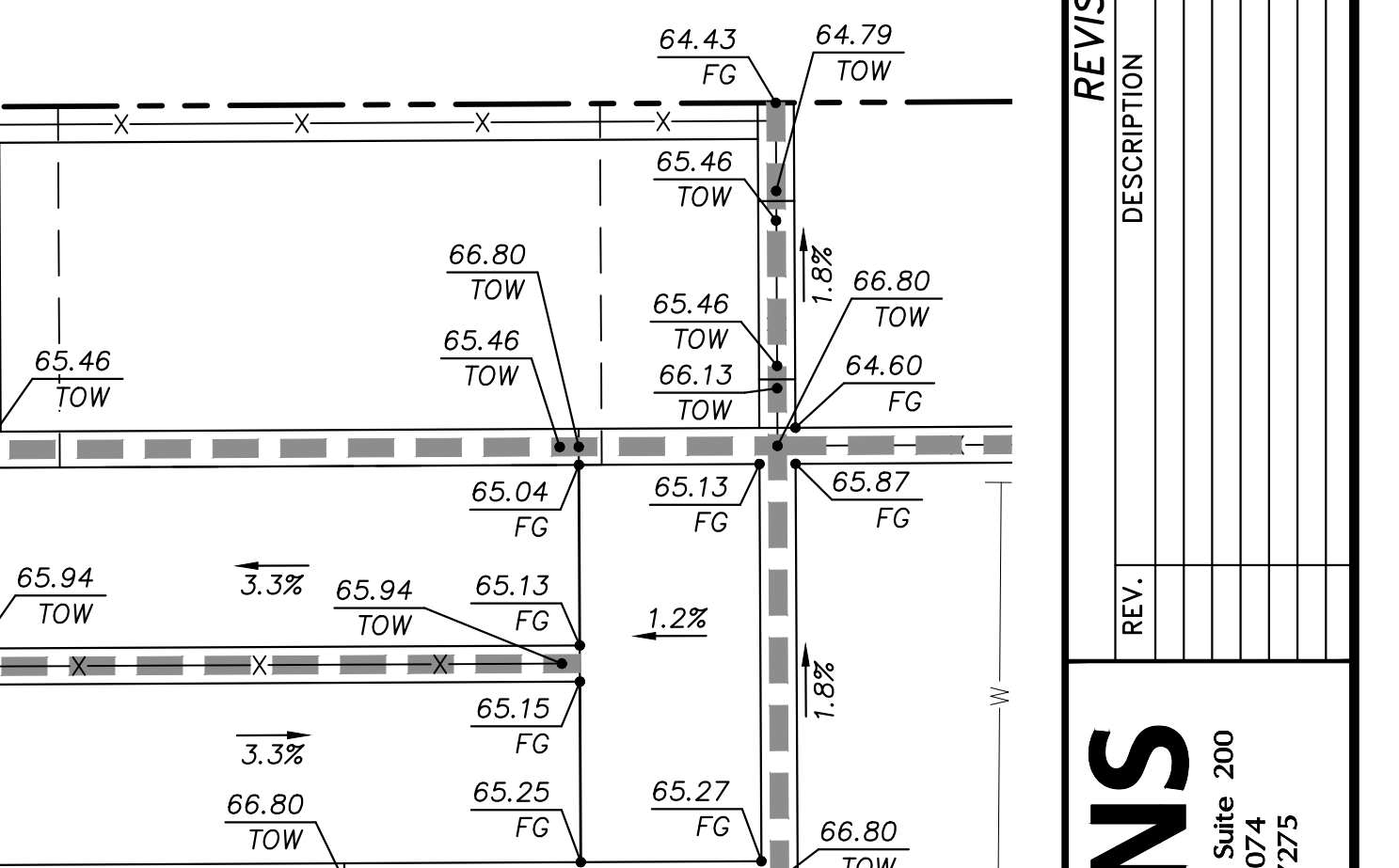
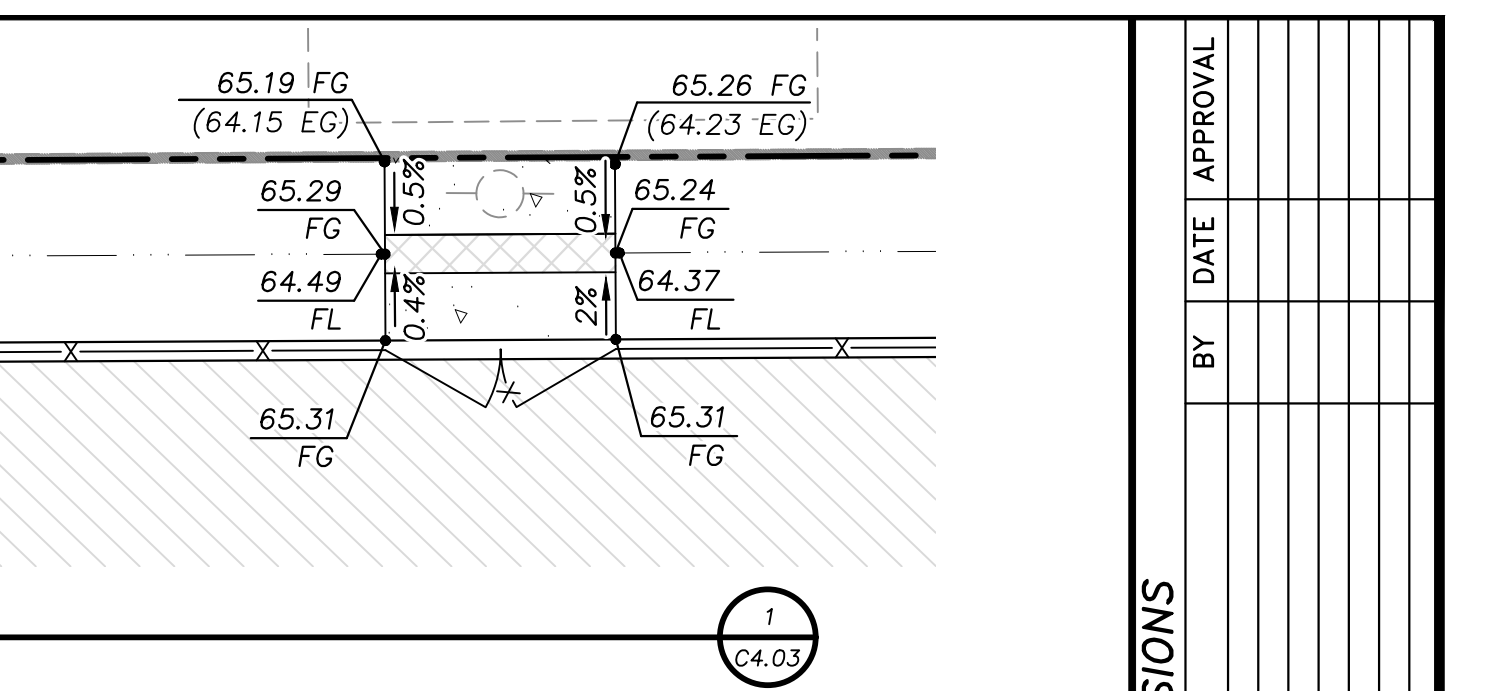
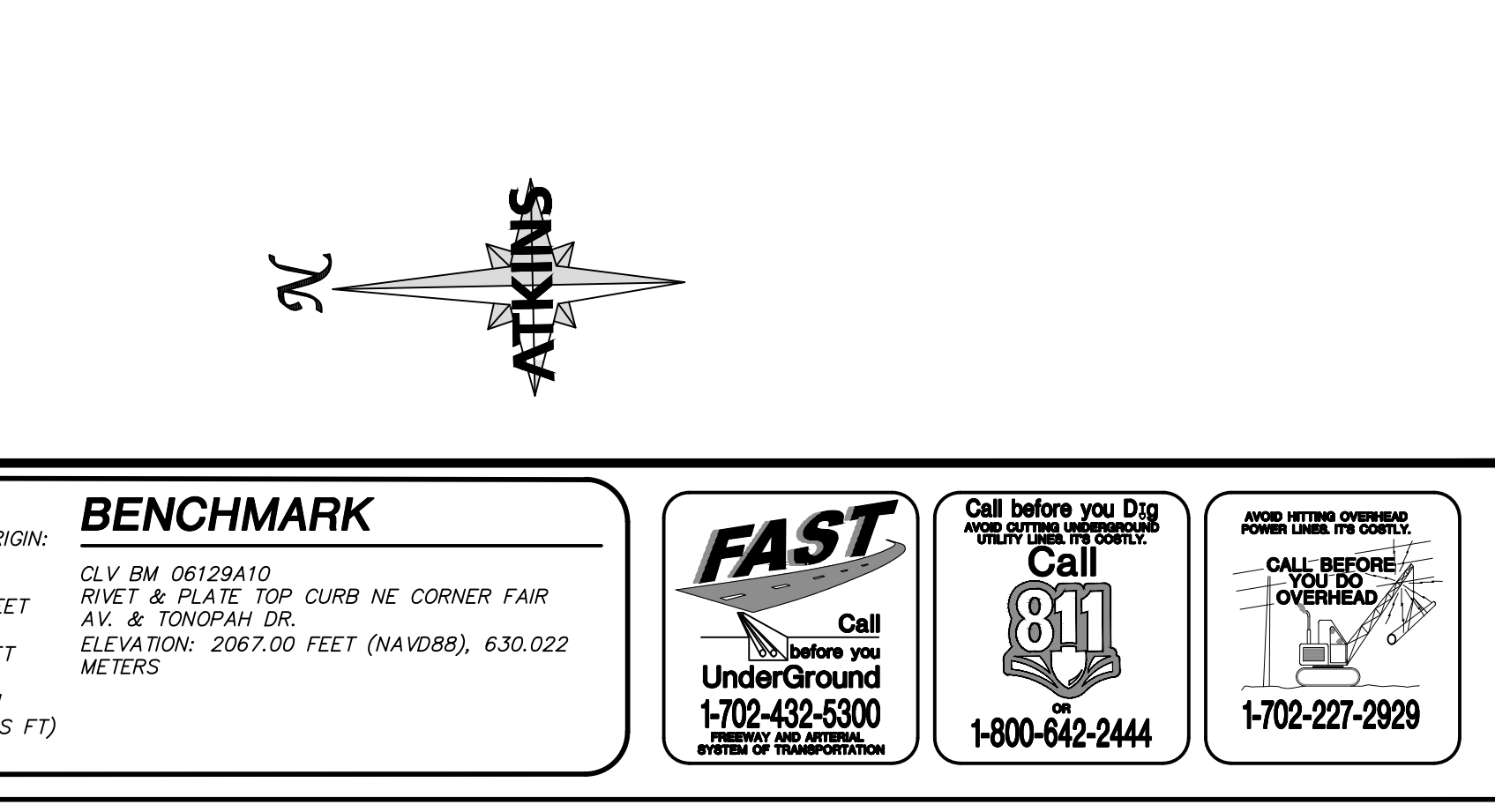
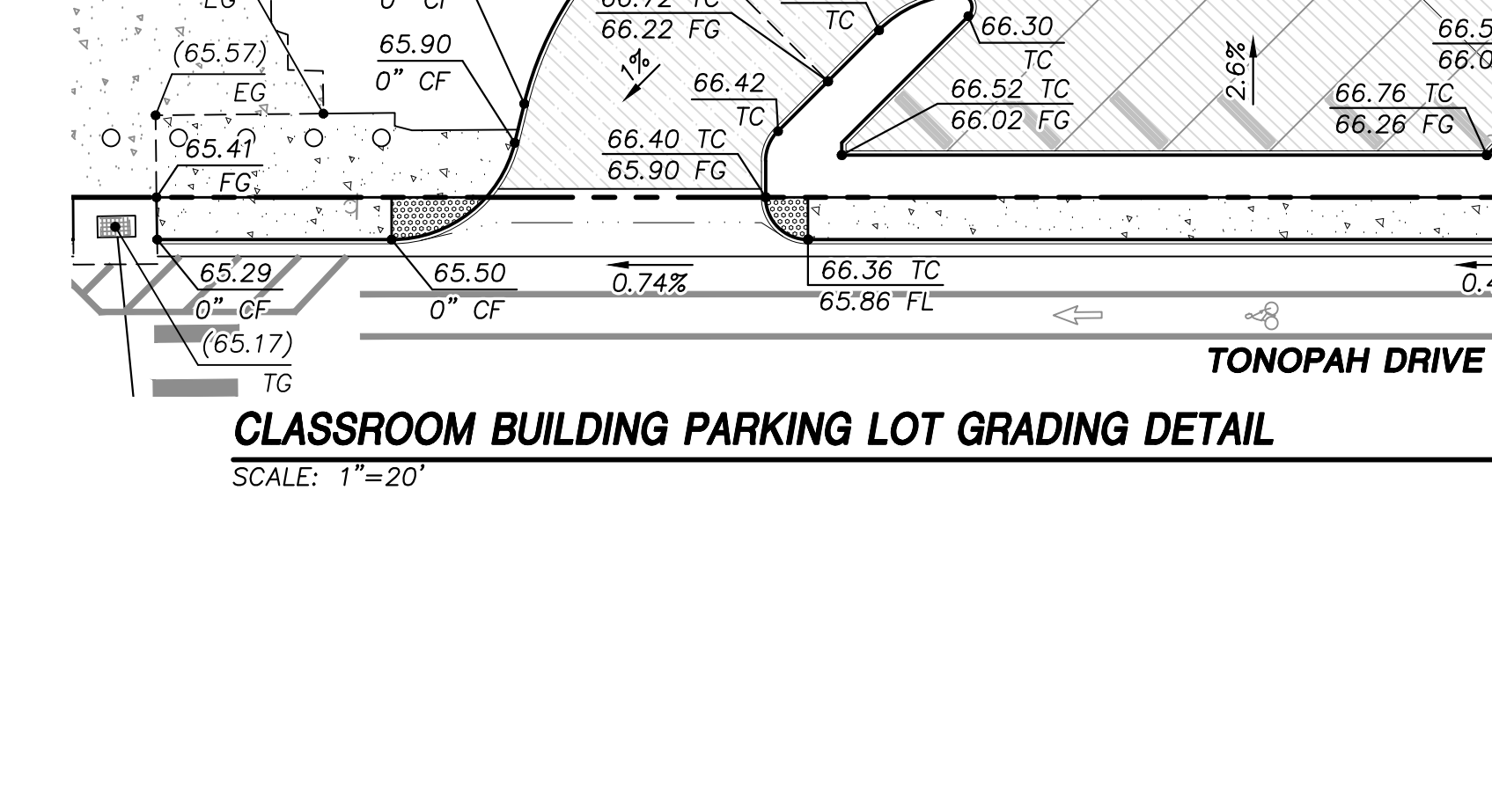
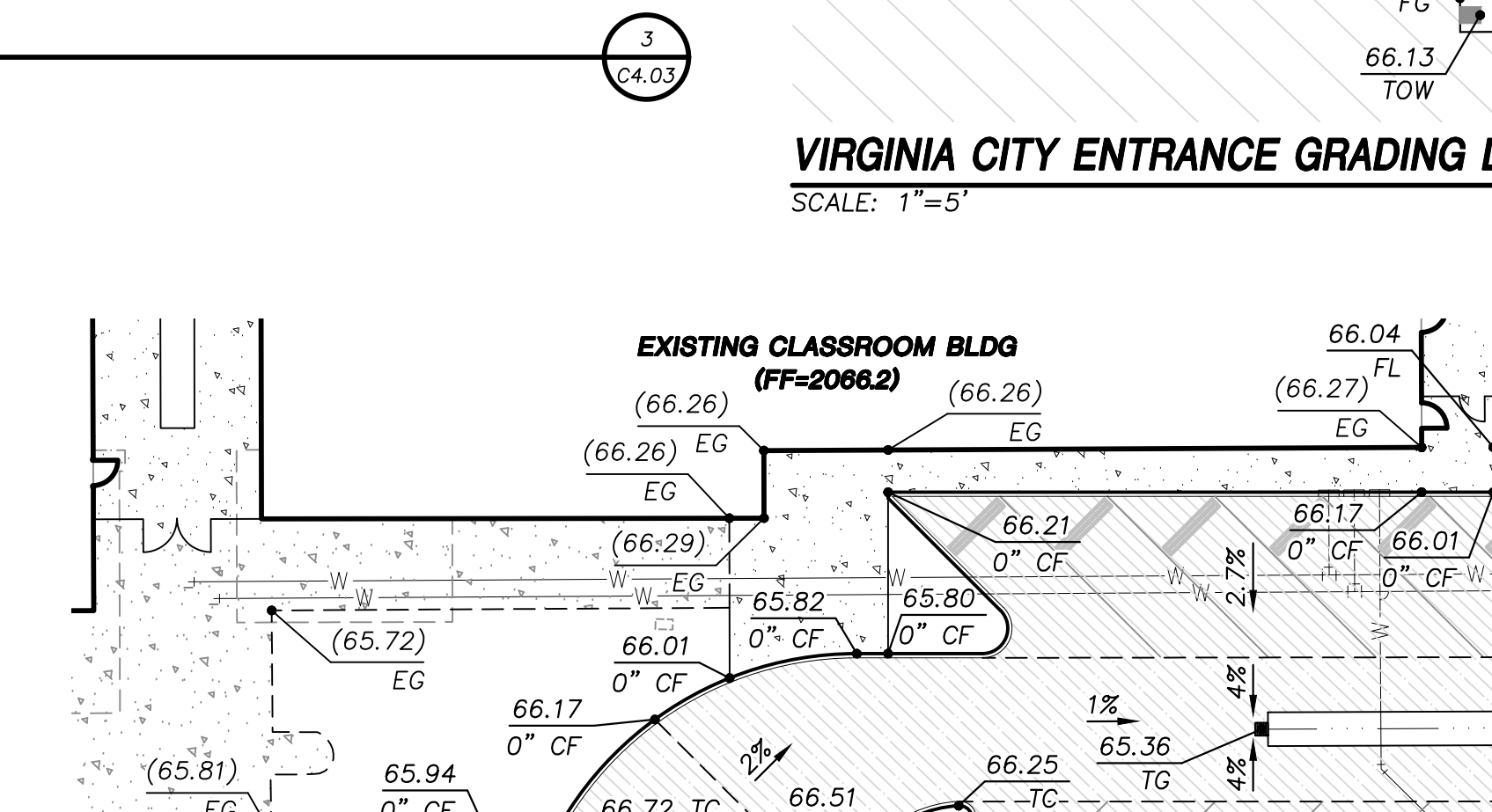
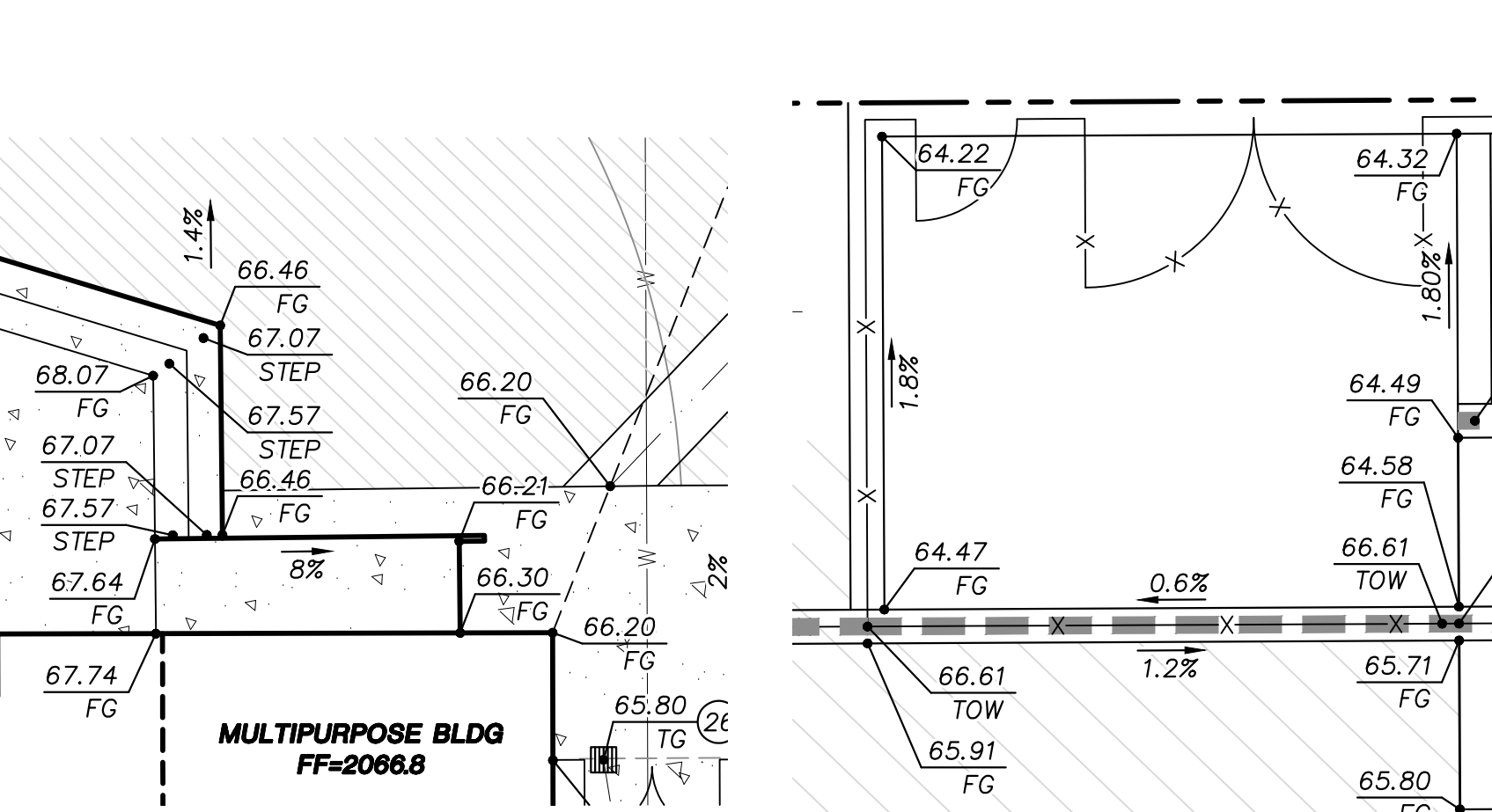
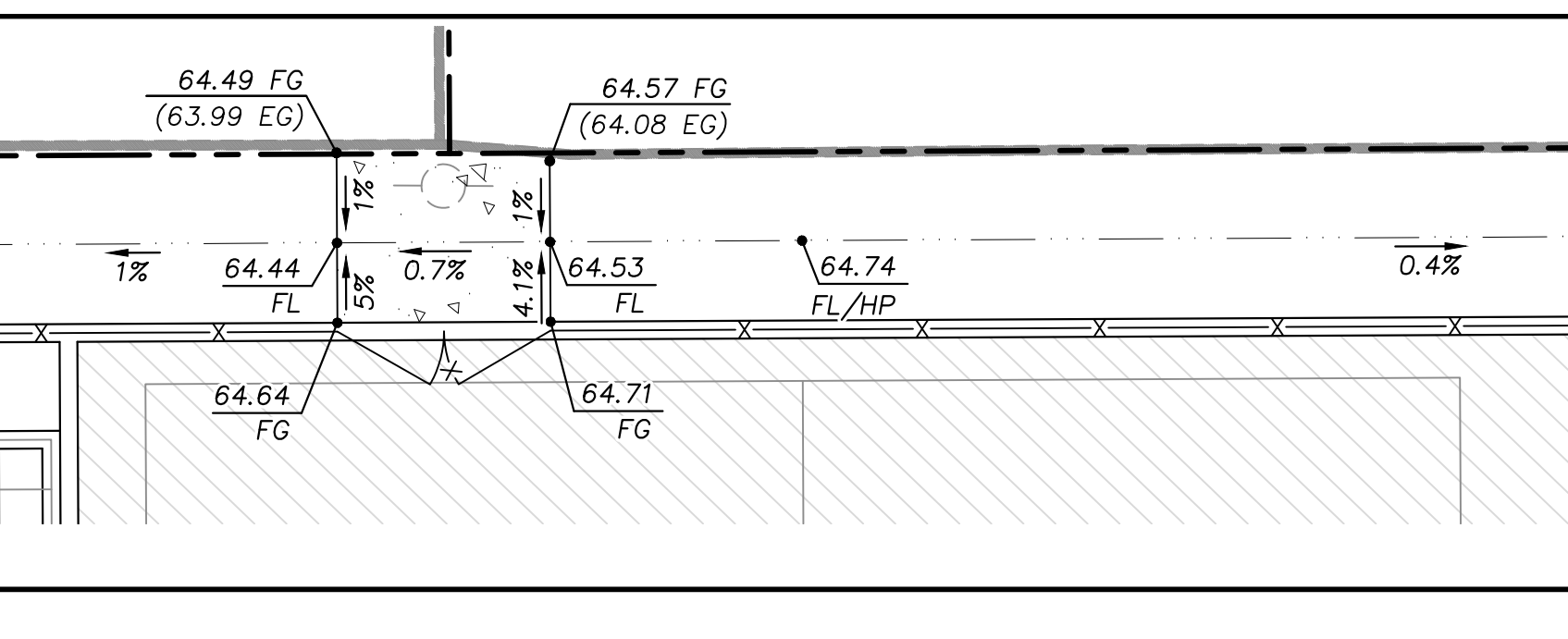
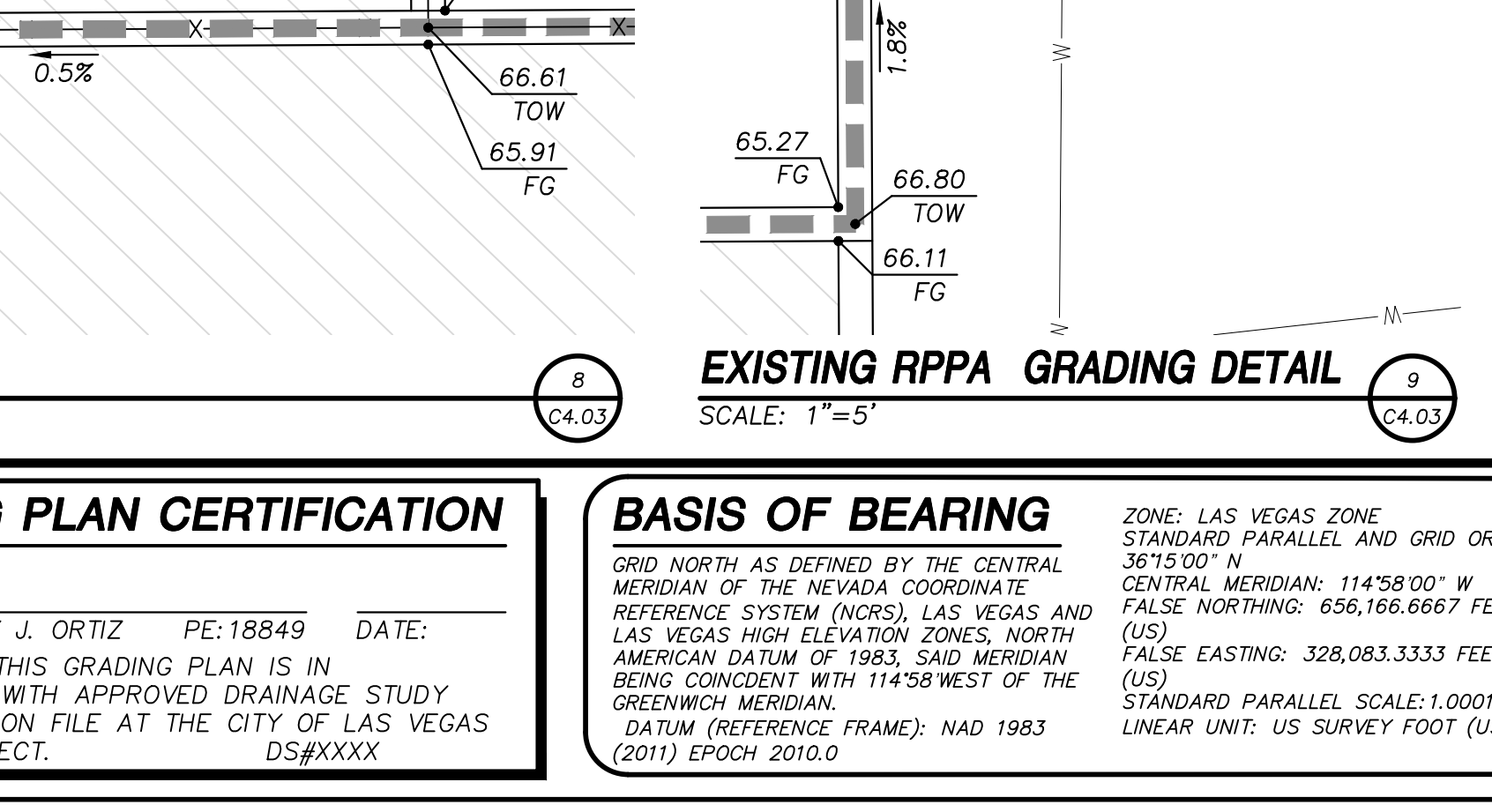
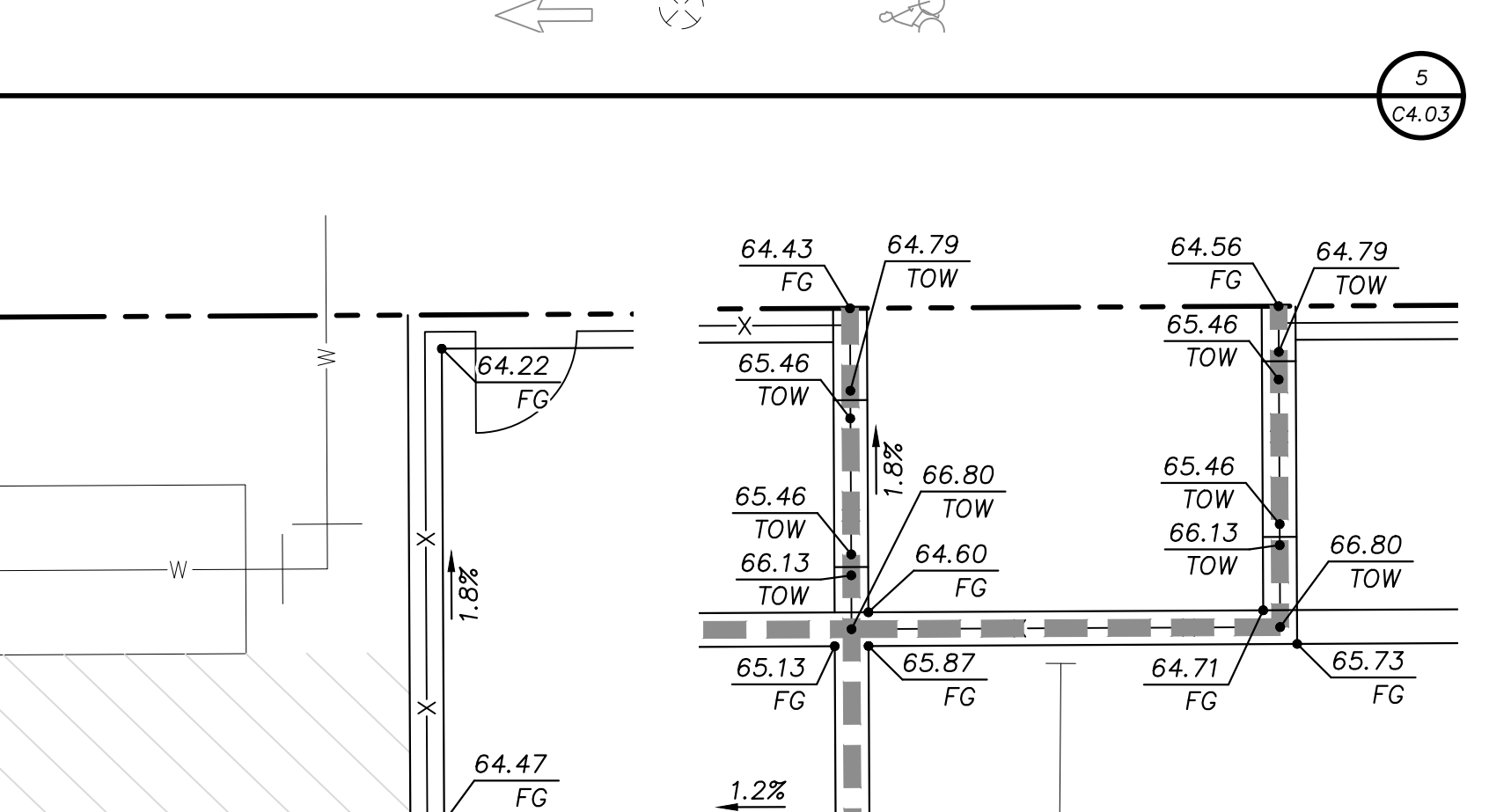
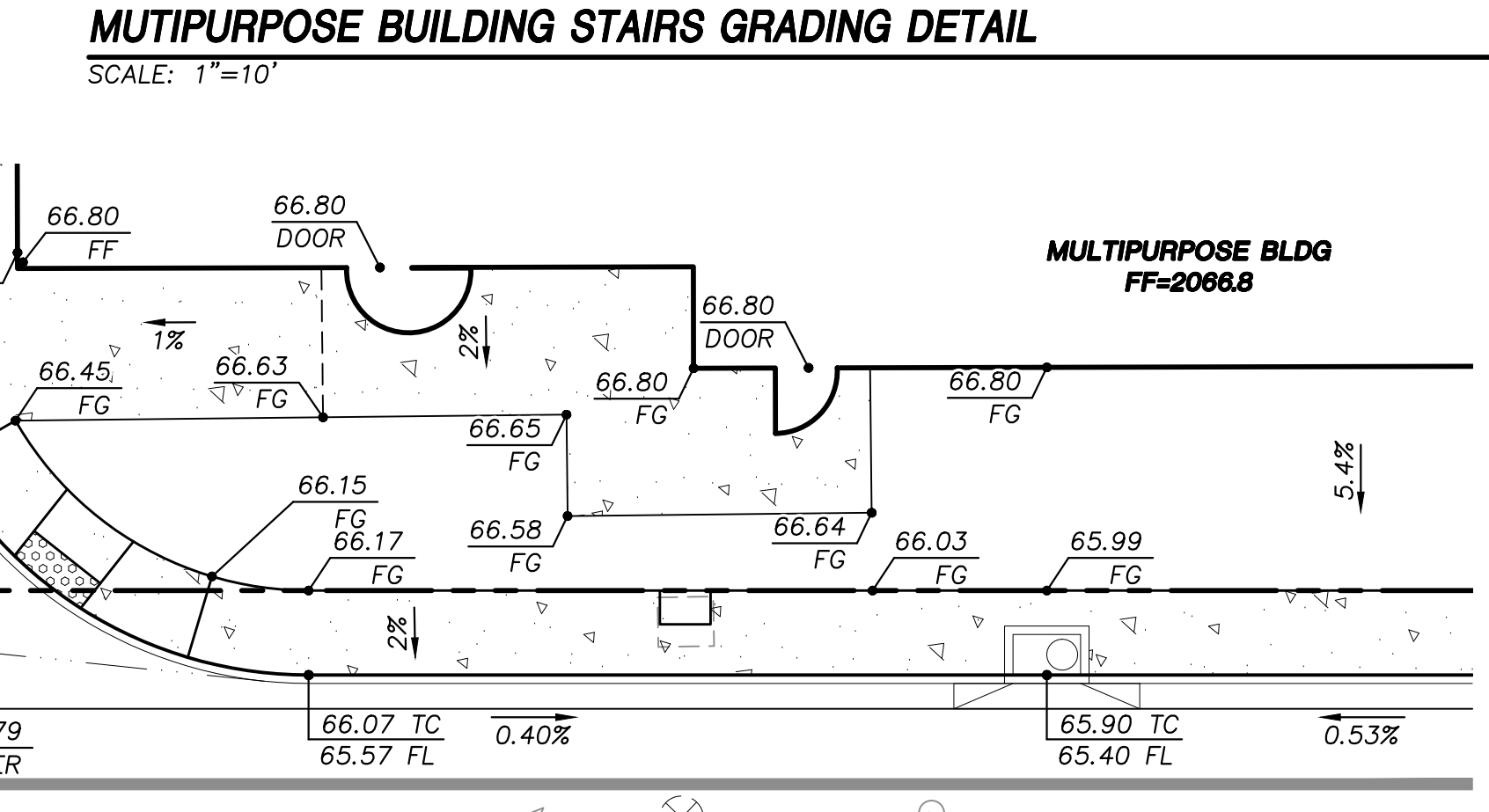
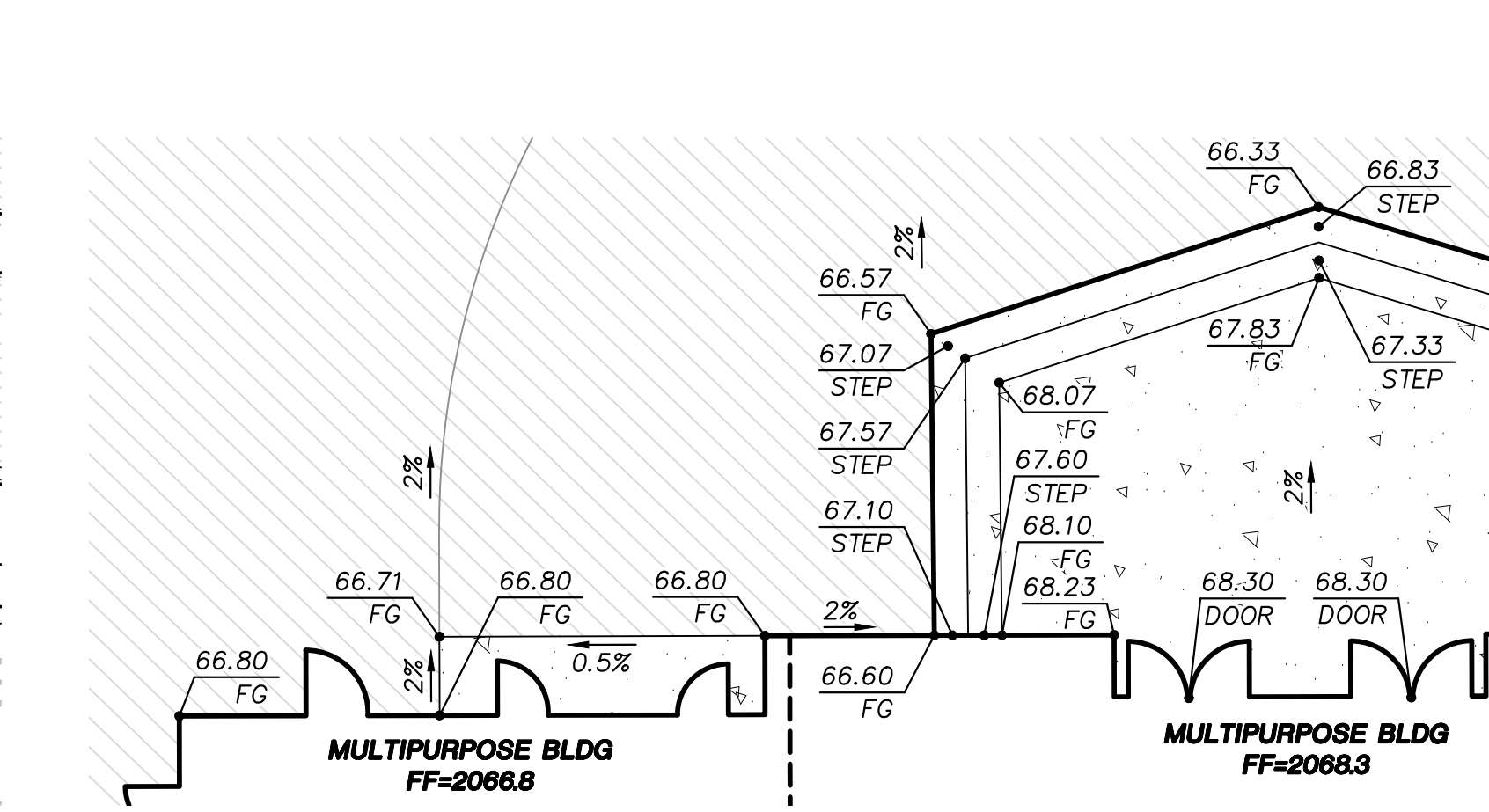
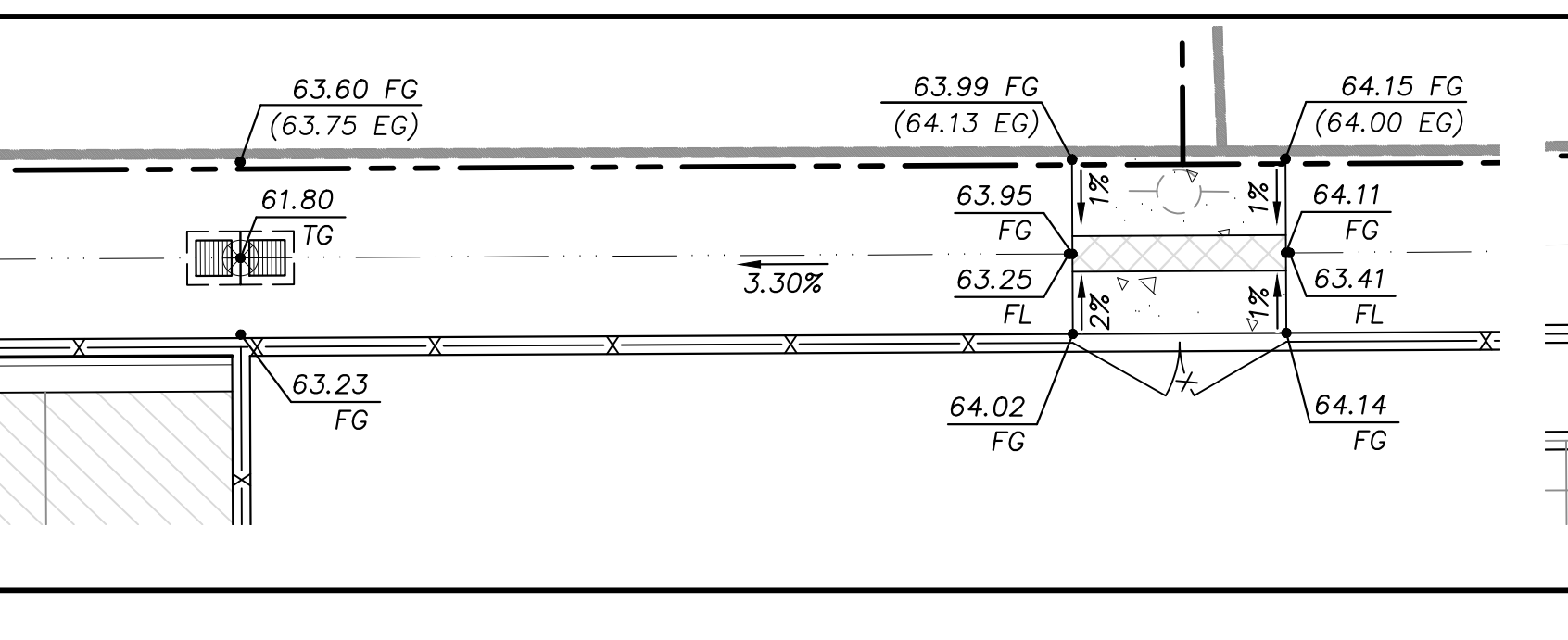
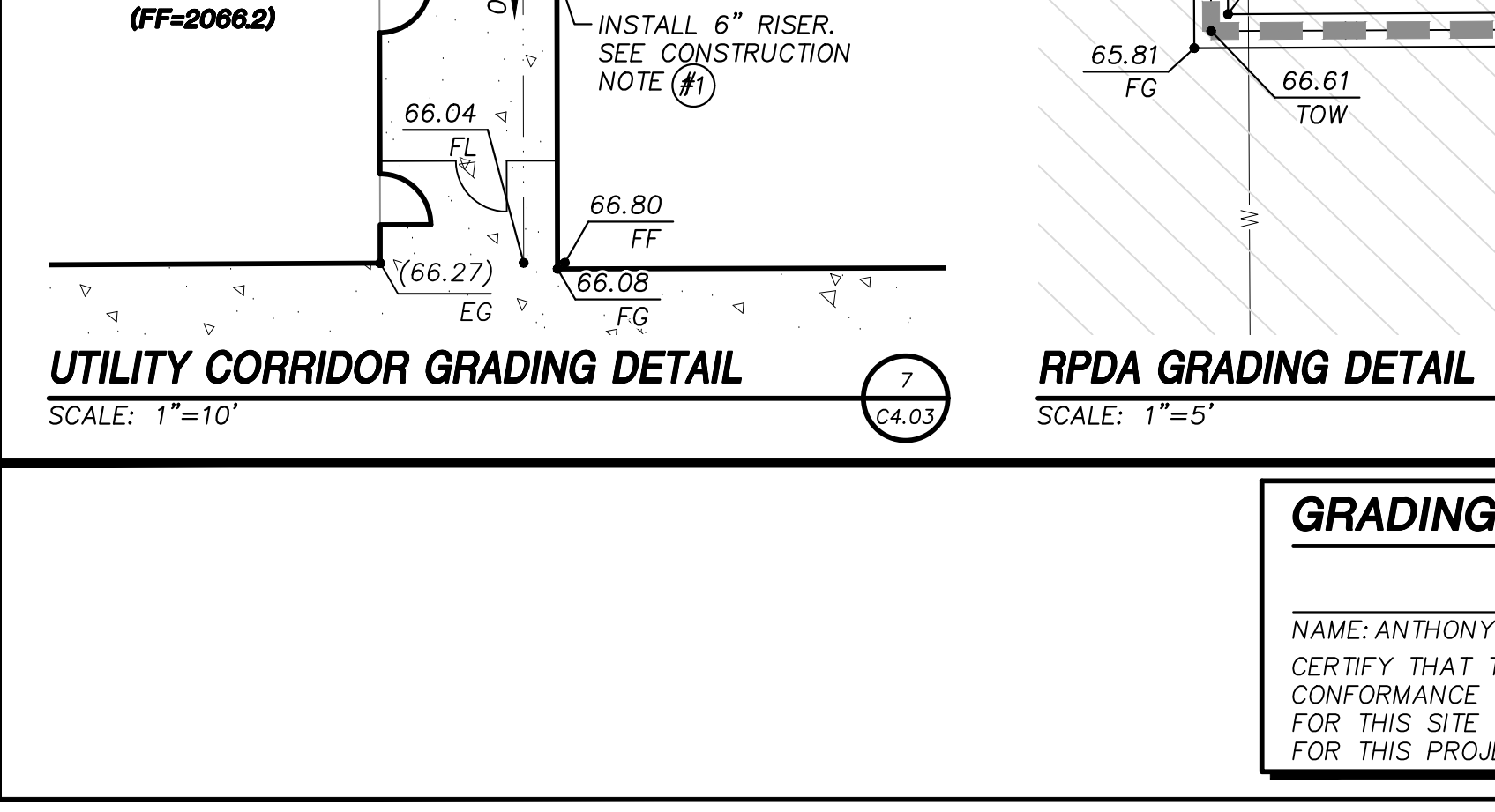
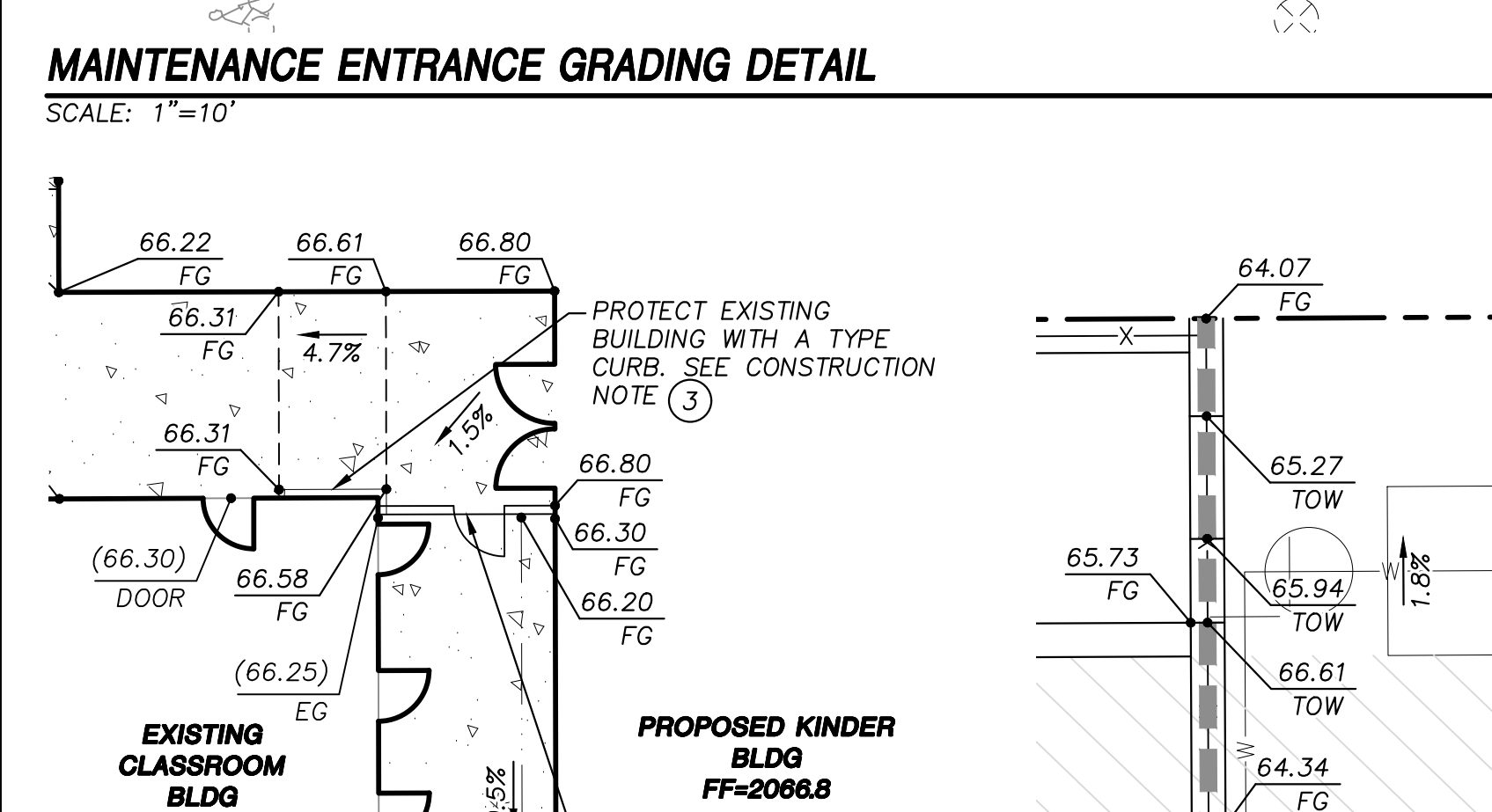
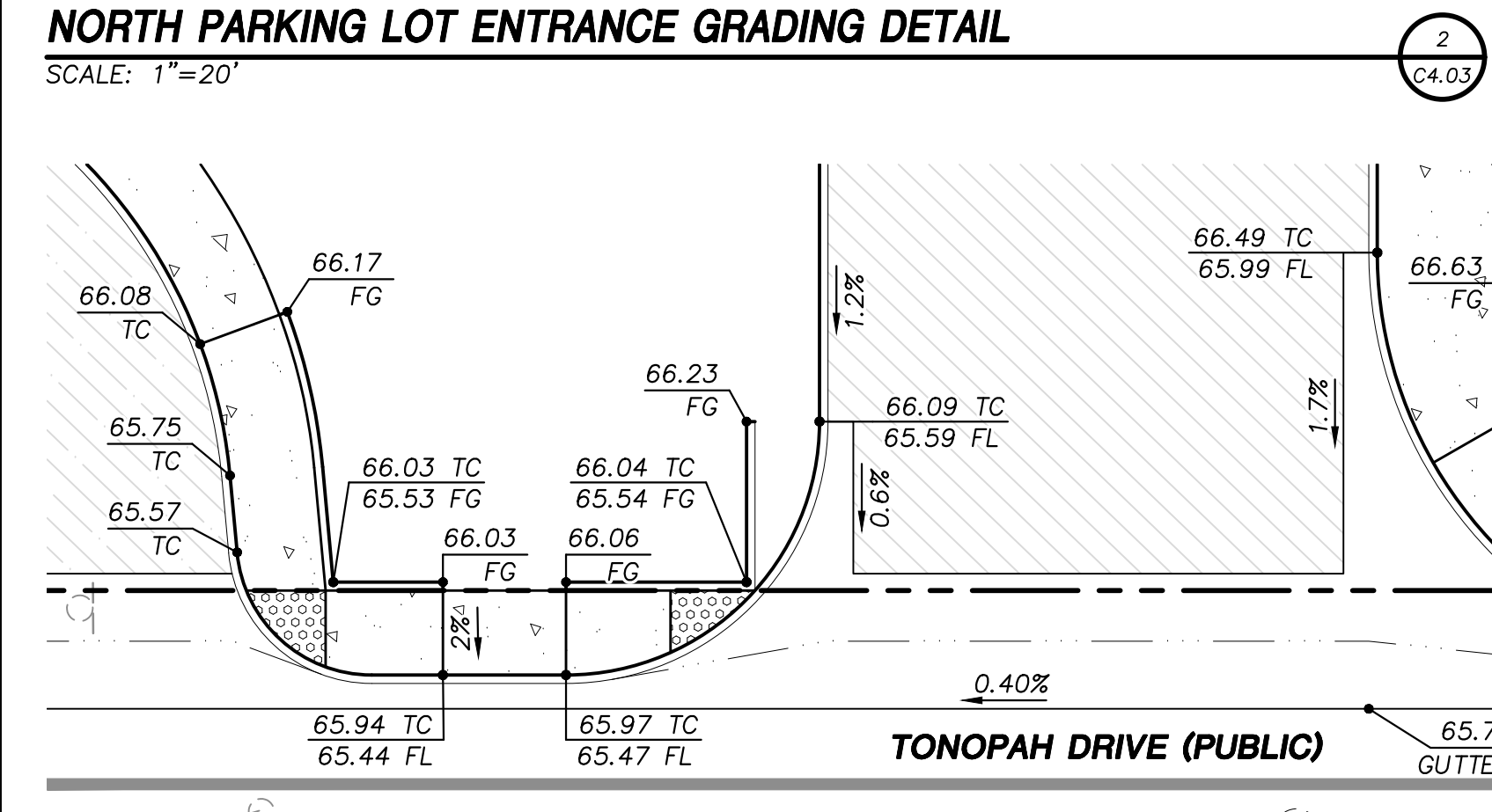
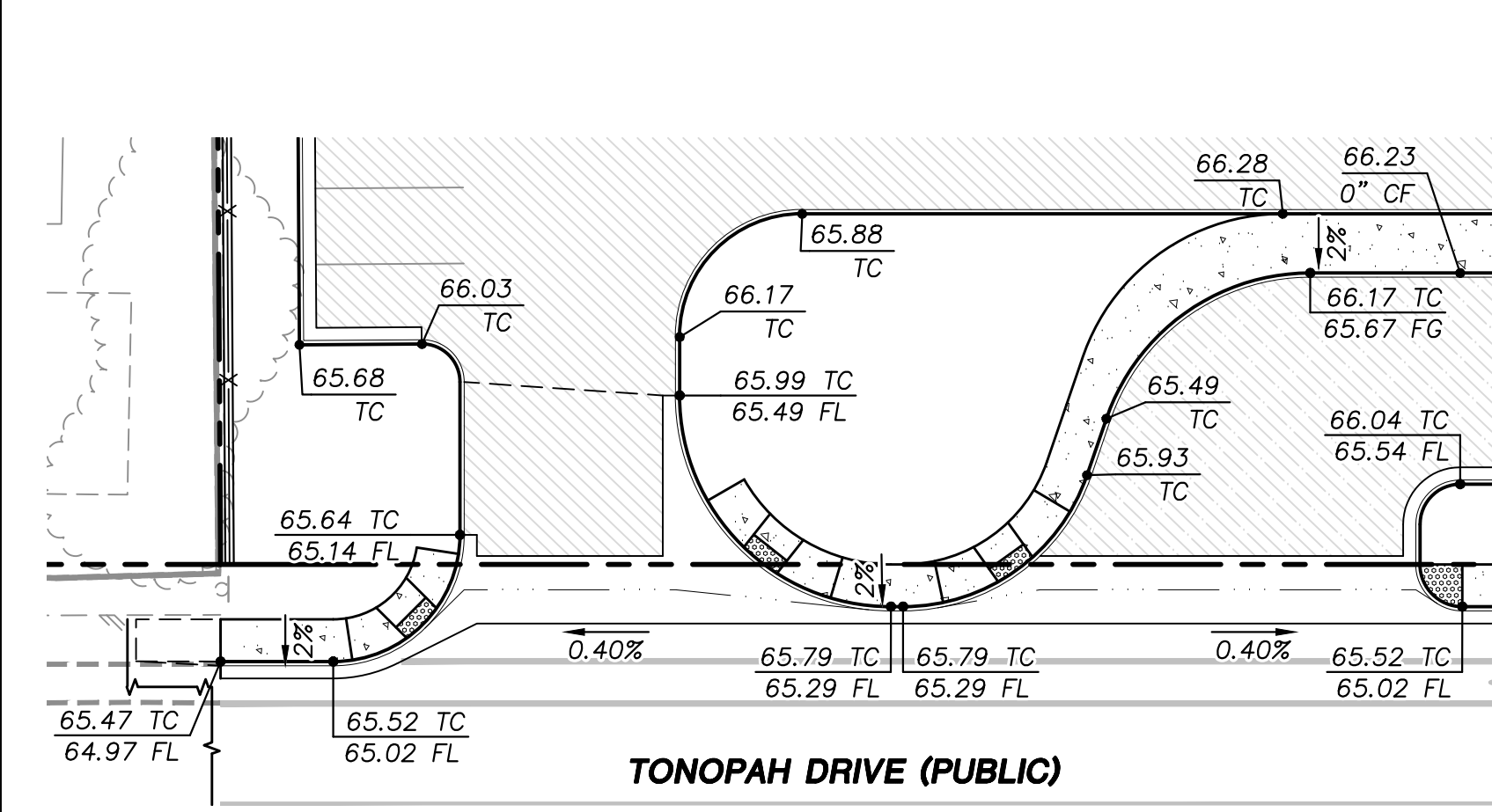
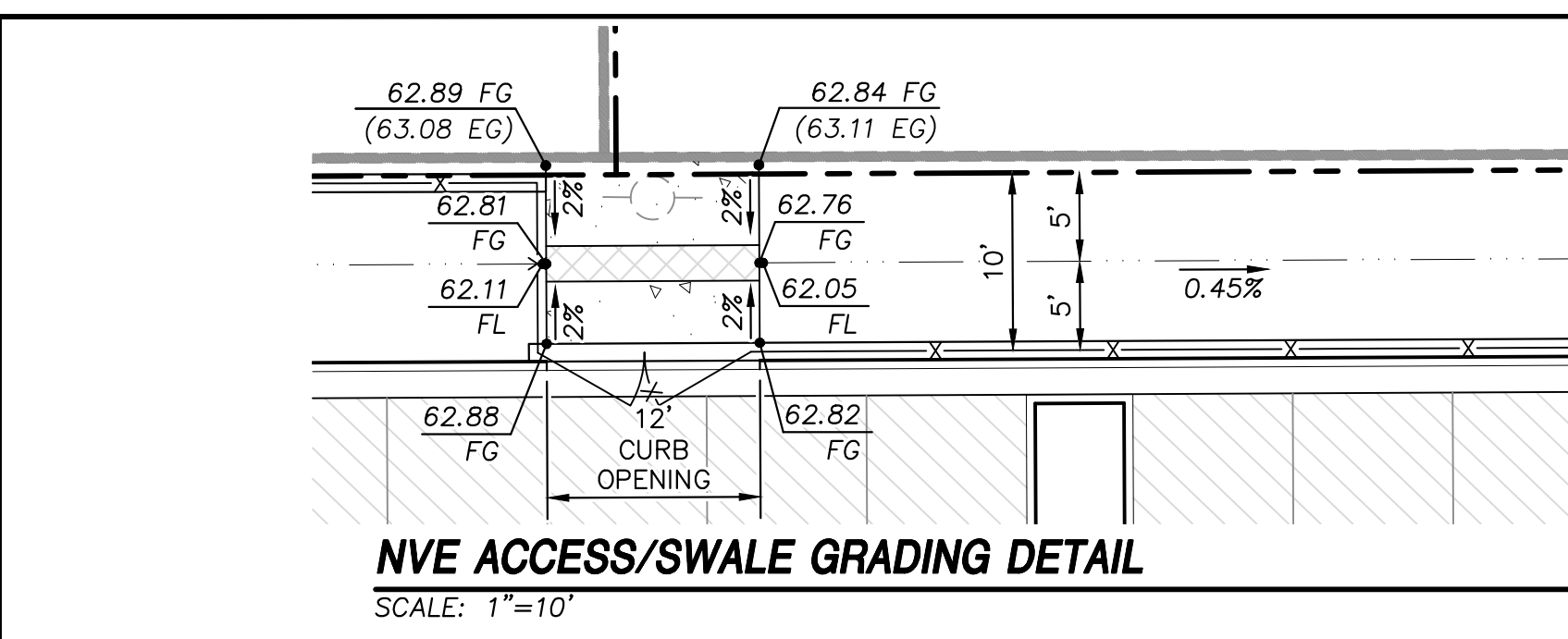
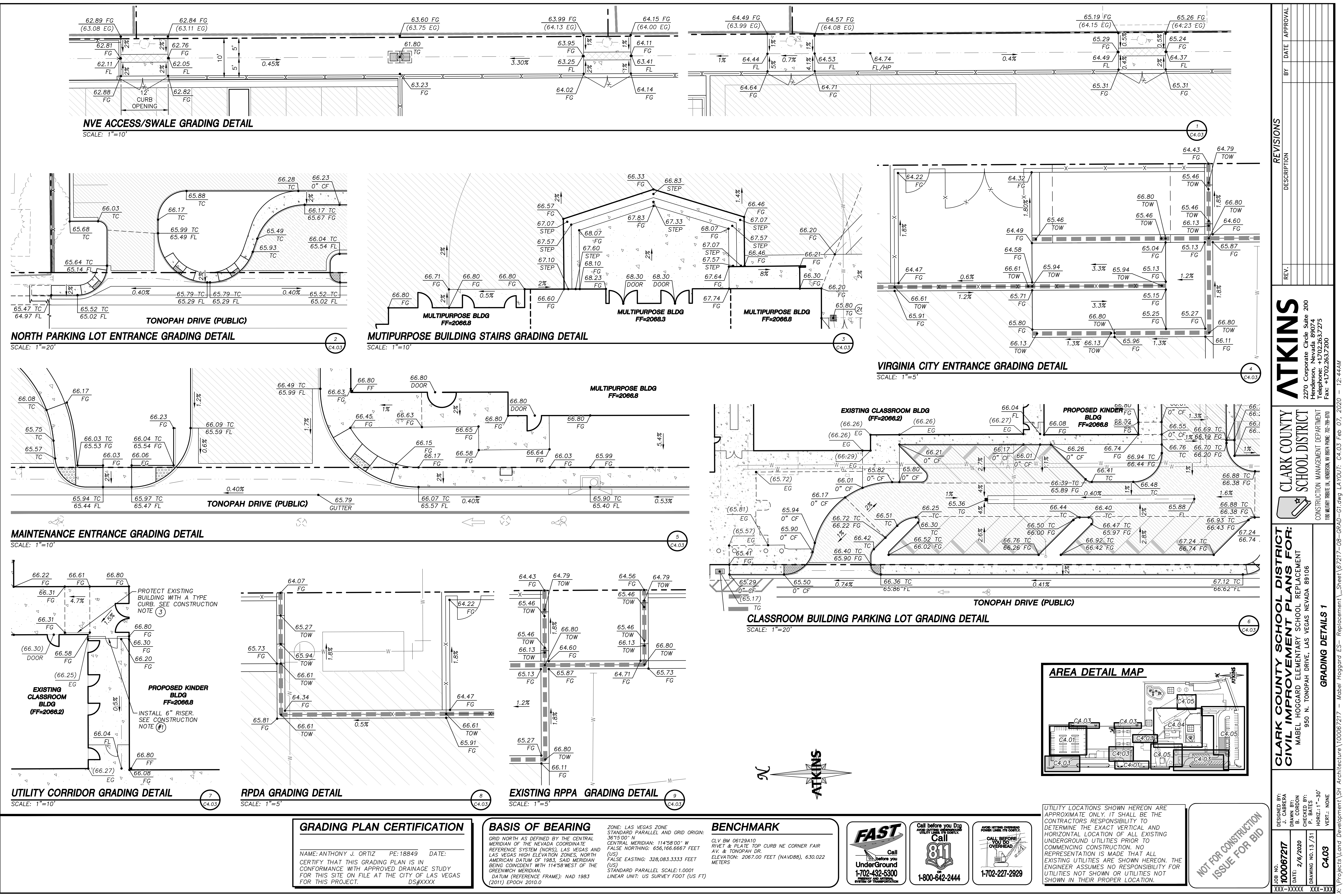


## GRADING PLAN 2

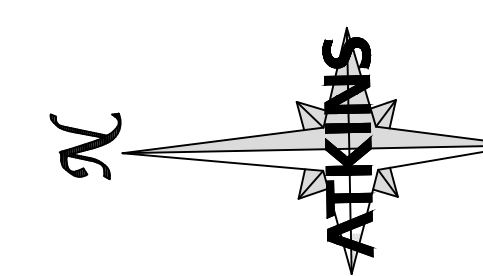
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|-----------------------------|---------------------------------|
| JOB NO.<br><b>100067217</b> | DESIGNED BY:<br>J. CABRERA      |
| DATE: <b>2/6/2020</b>       | DRAWN BY:<br>B. CORDON          |
| DRAWING NO. 14 / 31         | CHECKED BY:<br>P. BATES         |
| <b>C4.02</b>                | HORIZ.: 1" = 30'<br>VERT.: NONE |

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[illegible]

**CLARK COUNTY  
SCHOOL DISTRICT**

 CONSTRUCTION MANAGEMENT DEPARTMENT  
180 MILITARY TROUBLE LN., HENDERSON, NV 89004 PHONE: 702-795-8710

## GRADING DETAILS 2

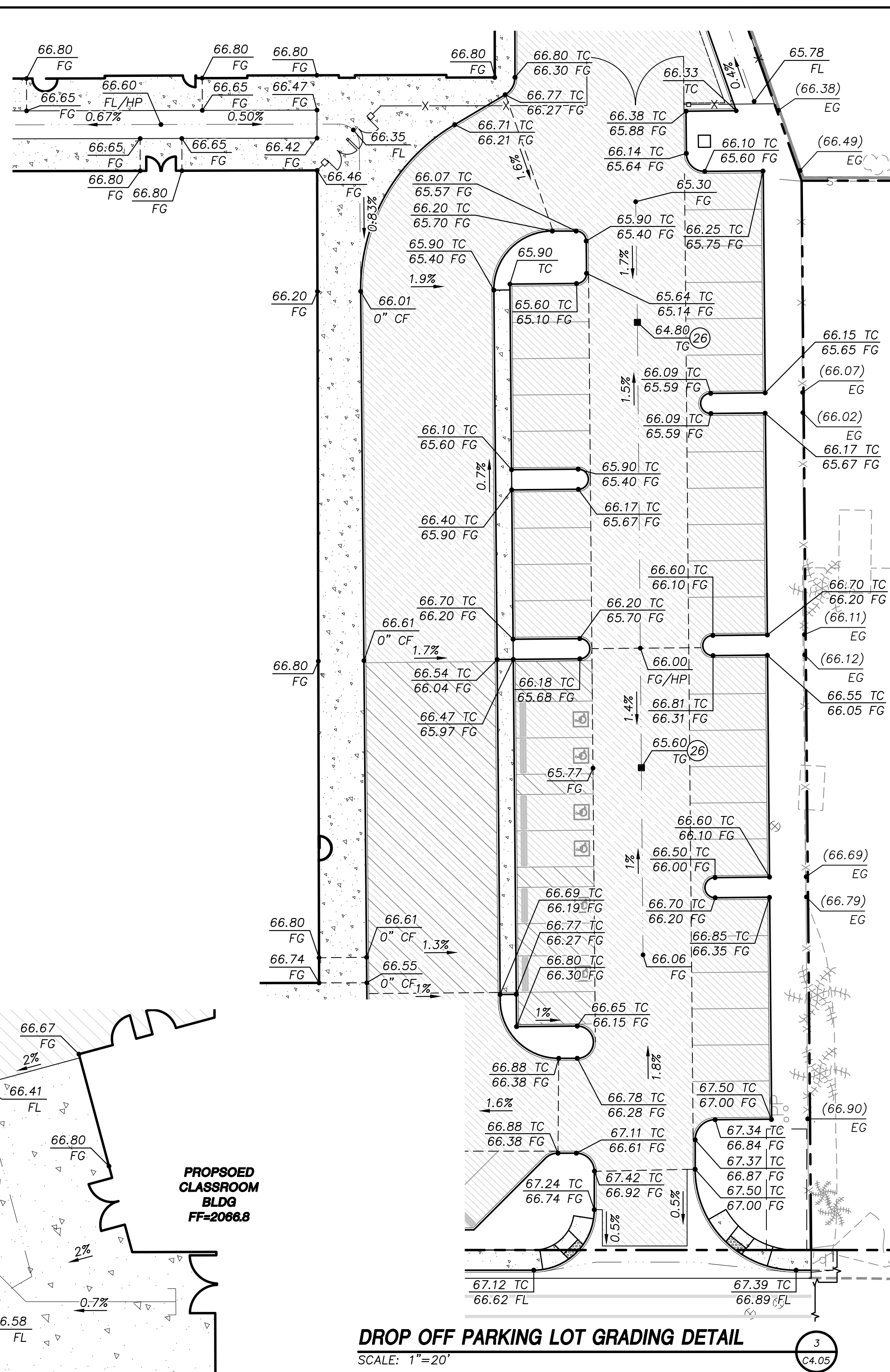
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|-----------------------------|---------------------------------|
| JOB NO.<br><b>100067217</b> | DESIGNED BY:<br>J. CABRERA      |
| DATE: <b>2/6/2020</b>       | DRAWN BY:<br>B. CORDON          |
| DRAWING NO. 16 / 31         | CHECKED BY:<br>P. BATES         |
| <b>C4.04</b>                | HORIZ.: 1" = 30'<br>VERT.: NONE |

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**COURT YARD/ZOO GRADING DETAIL**  
SCALE: 1"=10'

NOT FOR CONSTRUCTION  
ISSUE FOR BID





**TONOPAH DRIVE (PUBLIC)** (2066)

**MULTIPURPOSE/ADMIN CORRIDOR GRADING DETAIL**

SCALE: 1"=10'

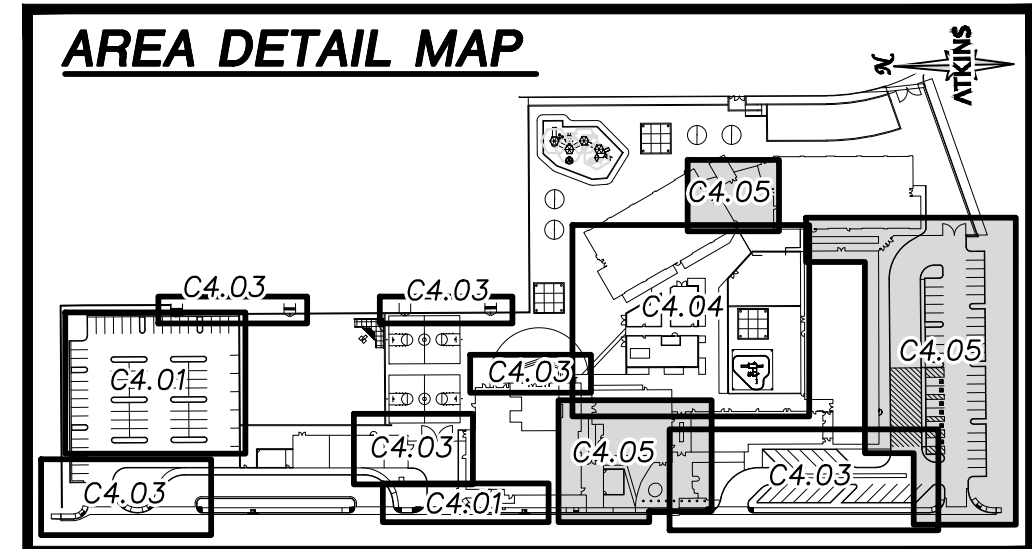
**STAIR ENCLOSURE**  
FF=2066.8

**PROPOSED CLASSROOM BLDG**  
FF=2066.8

**PROPOSED CLASSROOM BLDG**  
FF=2066.8

**STAIR ENCLOSURE AREA GRADING DETAIL**

SCALE: 1"=10'

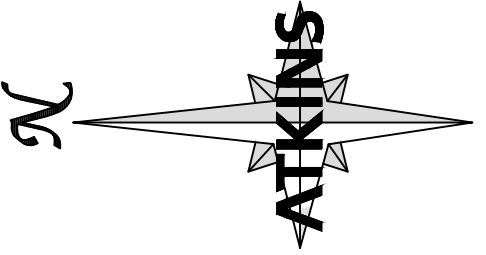


UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER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

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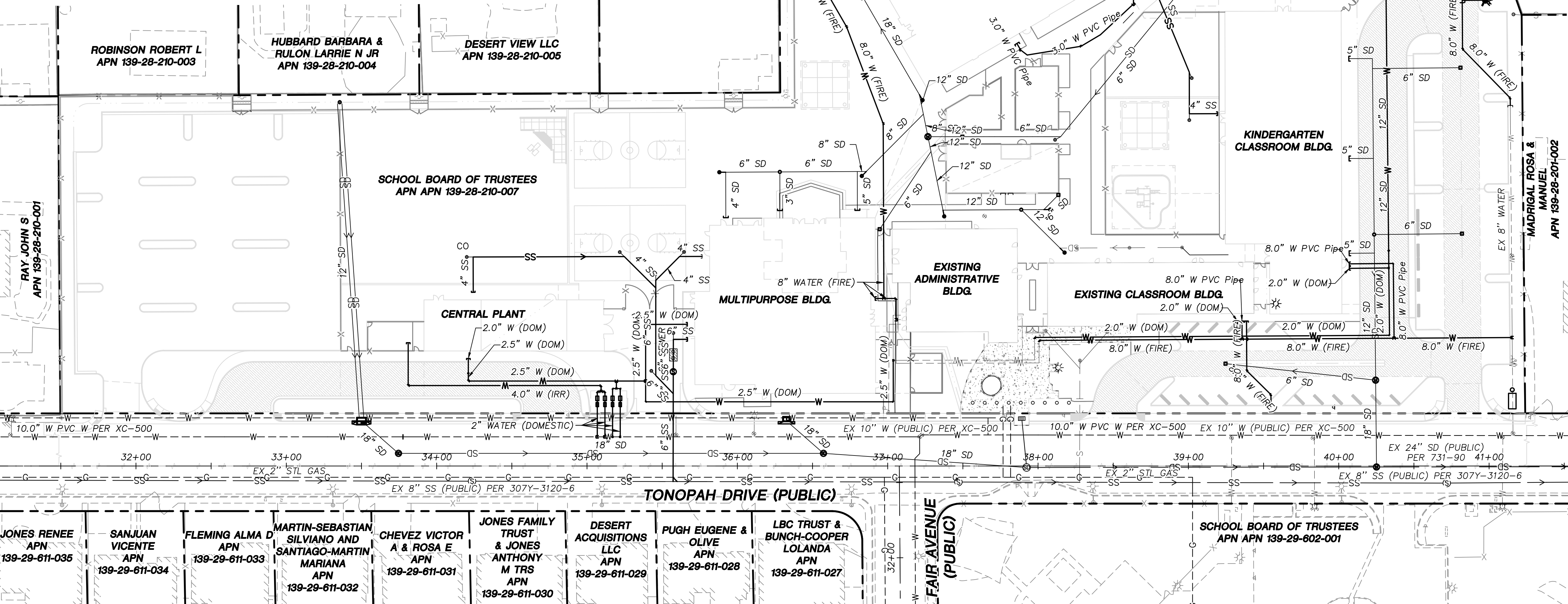
|                                                                                                |  |                                                                                     |  |                                                                                                                |  |                                   |  |
|------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|
| CLARK COUNTY SCHOOL DISTRICT<br>CIVIL IMPROVEMENT PLANS FOR:                                   |  | CLARK COUNTY<br>SCHOOL DISTRICT                                                     |  | ATKINS                                                                                                         |  | REVISIONS                         |  |
| MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT<br>950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106    |  |  |  | 2270 Corporate Circle Suite 200<br>Henderson, Nevada 89074<br>Telephone: +1702.263.7275<br>Fax: +1702.263.7200 |  | REV. DESCRIPTION BY DATE APPROVAL |  |
| DESIGNED BY:<br>J. CABRERA<br>DATE: 2/6/2020<br>CHECKED BY:<br>P. BATES<br>DRAWING NO. 17 / 31 |  | C405                                                                                |  |                                                                                                                |  |                                   |  |
| HORIZ.: 1" = 30'<br>VERT.: NONE                                                                |  | GRADING DETAILS 3                                                                   |  |                                                                                                                |  |                                   |  |





### FIRE FLOW CALCULATIONS

| BASED ON:                                       | CLASSROOM BLDG | MULTI-PURPOSE BLDG | KINDERGARTEN CLASSROOM |
|-------------------------------------------------|----------------|--------------------|------------------------|
| SQUARE FOOTAGE:                                 | 56,719         | 12,990             | 12,345                 |
| LARGEST AREA BETWEEN SEPARATION WALL:           | N/A            | N/A                | N/A                    |
| BUILDING HEIGHT:                                | 41'            | 29'                | 29'                    |
| NUMBER OF STORIES:                              | 2              | 1                  | 1                      |
| TYPE OF CONSTRUCTION:                           | II-B           | II-B               | II-B                   |
| EXPOSURES:                                      | N/A            | N/A                | N/A                    |
| SPRINKLER SYSTEM:                               | YES            | YES                | YES                    |
| OCCUPANCY:                                      | E              | E                  | E                      |
| ROOF CONSTRUCTION:                              | CLASS A        | CLASS A            | CLASS A                |
| FLOW REQUIRED @ 20 PSI RESIDUAL:                | 2,500 GPM      | 2,500 GPM          | 2,500 GPM              |
| MAX STORAGE HEIGHT:                             | N/A            | N/A                | N/A                    |
| EX. STATIC WATER PRESSURE IS 45± PSI IN STREET. |                |                    |                        |



| SUMMARY OF QUANTITIES              |          |         |
|------------------------------------|----------|---------|
| DESCRIPTION                        | QUANTITY |         |
|                                    | PUBLIC   | PRIVATE |
| WATER                              |          |         |
| 2" C-900 PVC WATER (DOMESTIC) PIPE |          | LF      |
| 4" C-900 PVC WATER (DOMESTIC) PIPE |          | LF      |
| 6" C-900 PVC WATER (FIRE) PIPE     |          | LF      |
| 6" DIP WATER (FIRE) PIPE           |          | LF      |
| 8" C-900 PVC WATER (FIRE) PIPE     |          | LF      |
| 8" DIP WATER (FIRE) PIPE           |          | LF      |
| 8" RPDA                            |          | EA      |
| 2" METER                           |          | EA      |
| 2" RPPA                            |          | EA      |
| 4" GATE VALVES                     |          | EA      |
| 8" GATE VALVES                     |          | EA      |
| FIRE HYDRANTS                      |          | EA      |
| SEWER                              |          |         |
| 4" C-900 PVC SANITARY SEWER PIPE   |          | LF      |
| 6" C-900 PVC SANITARY SEWER PIPE   |          | LF      |
| 8" C-900 PVC SANITARY SEWER PIPE   |          | LF      |
| SANITARY SEWER MAN HOLE            |          | EA      |
| CLEAN OUT                          |          | EA      |
| 2" COPPER WATER PIPE               |          | LF      |
| 2" BRASS WATER PIPE                |          | LF      |

### FIRE APPROVAL

TOTAL FIRE FLOW: XXXX GPM @ 20 P.S.I. RESIDUAL  
CONCURRENT REVIEW BY LOCAL FIRE DEPARTMENT

SIGNATURE \_\_\_\_\_ AGENCY \_\_\_\_\_ DATE \_\_\_\_\_

### STATE FIRE MARSHAL APPROVAL:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SFM PROJECT NO: \_\_\_\_\_  
NO CORRECTIVE ACTION REQUIRED  
CORRECTIVE ACTION REQUIRED - SEE ATTACHED

### CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUCTED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. TOTAL FIRE FLOW = 2500 GPM AT 20 PSI RESIDUAL.

**LVVWD SURVEY NOTE:**  
CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED/EXISTING LVVWD EASEMENT WITHIN THE PROJECT SITE. THESE STAKES SHALL BE CONTINUOUSLY MAINTAINED DURING THE CONSTRUCTION OF THE PROJECT. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVVWD INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PROPOSED INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LVVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFORTS WITHIN THE PROPOSED/EXISTING LVVWD EASEMENT.

### NOTES:

- SEE SHEET C4.00 FOR STORM DRAIN INFORMATION
- SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.

### WATER NOTES:

- THE STATIC PRESSURE FOR THIS PROJECT IS IN EXCESS OF 80 PSI. REFER TO THE PLUMBING PLANS FOR PRESSURE REDUCING VALVE INFORMATION.
- DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

### WASTEWATER FLOW CALCULATIONS

FACILITY TYPE: SCHOOL  
TOTAL STUDENTS AND STAFF:  
TOTAL FIXTURES: 171  
AVERAGE FLOW:  $171 \times 0.65 \text{ FRU'S} \times 0.00025 \text{ MGD} = 0.0277875 \text{ MGD}$   
FIXTURES  
AVERAGE FLOW:  $3.4 \times \text{AVERAGE FLOW} = 3.4 \times 0.0484250 \text{ MGD} = 0.0944775 \text{ MGD}$   
PEAK FACTOR:  
PEAK WET:  $0.165 \times 1.25 = 0.124 \text{ MGD}$

### BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983  
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ZONE: LAS VEGAS ZONE  
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FALSE EASTING: 328,083.3333 FEET (US)  
STANDARD PARALLEL SCALE: 1.0001  
LINEAR UNIT: US SURVEY FOOT (US FT)

### BENCHMARK

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

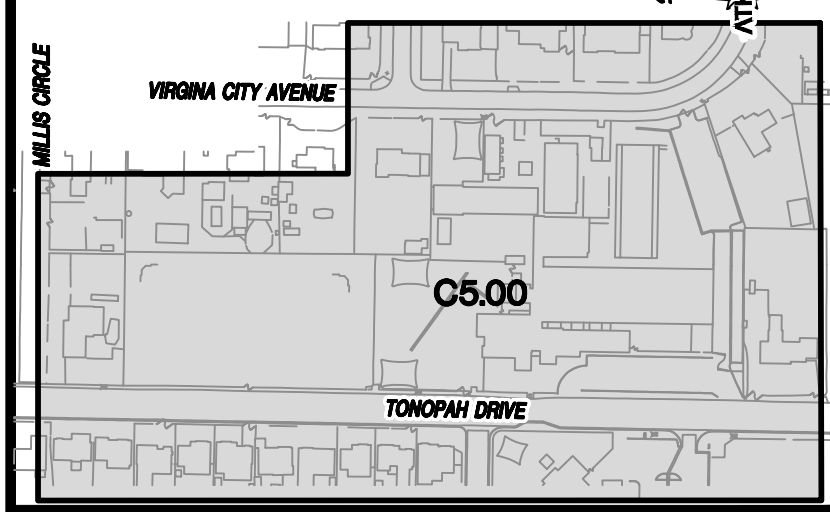
### MASTER PLAN NOTE

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### APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT  
PROJECT NO. XXXXXX FIRST APPROVED DATE: \_\_\_\_\_

### KEYMAP



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ISSUE FOR BID

**ATKINS**  
2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7275  
Fax: 702.263.7200

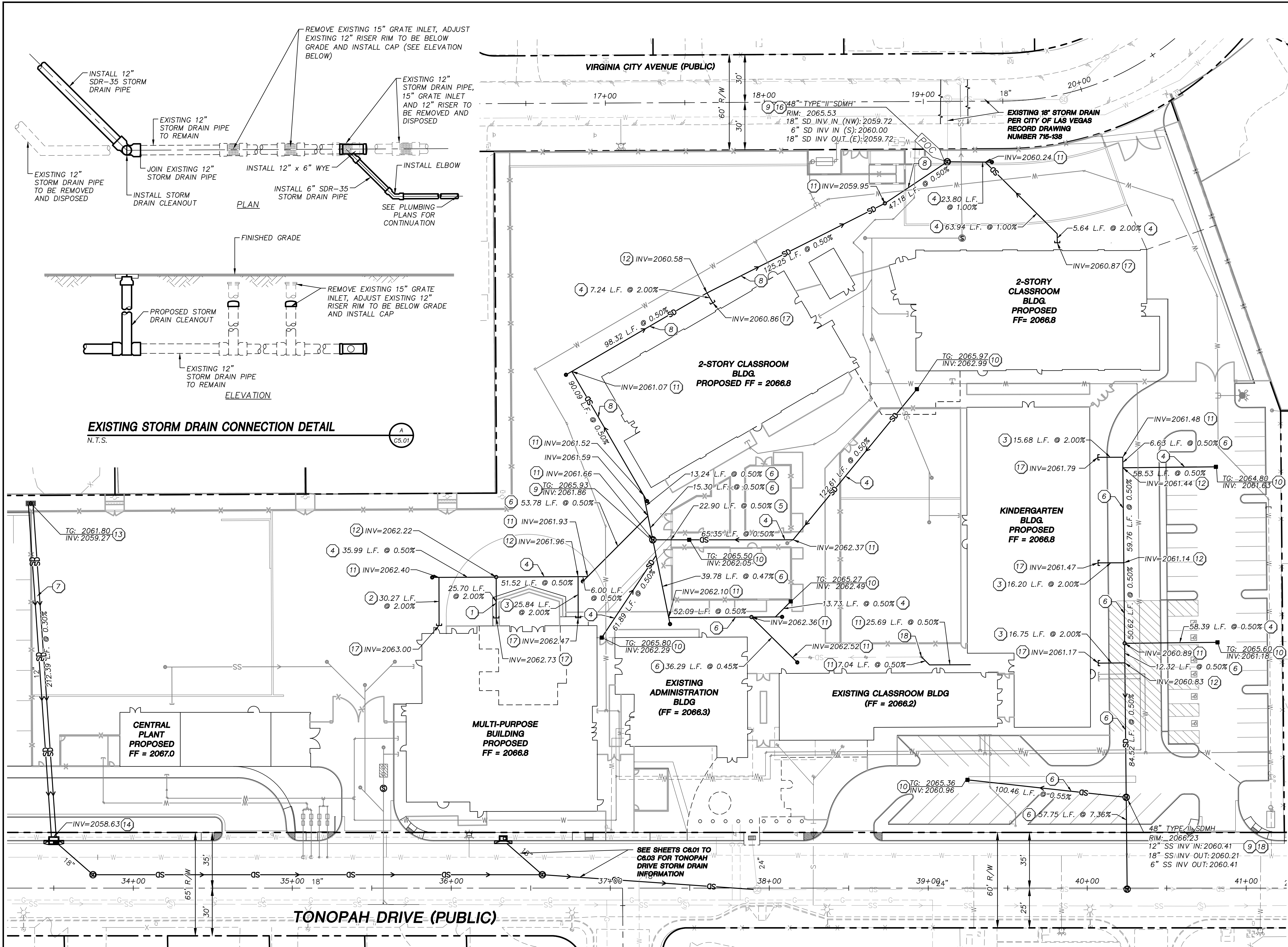
**CLARK COUNTY  
SCHOOL DISTRICT**  
CONSTRUCTION MANAGEMENT DEPARTMENT  
1800 MILITARY ROAD IN HENDERSON, NV 89011  
PHONE: 702-795-0701

**CLARK COUNTY SCHOOL DISTRICT FOR:  
CIVIL IMPROVEMENT PLANS FOR:**  
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106  
**MASTER UTILITY PLAN**

DESIGNED BY: J. CABRERA  
DRAWN BY: J. CABRERA  
CHECKED BY: T. ORTIZ  
HORIZ: 1"=40'  
VERT: NONE  
JOB NO: 100067217  
DATE: 2/6/2020  
DRAWING NO: 18 / 31  
C500  
XXX-XXXX XXX-XXX

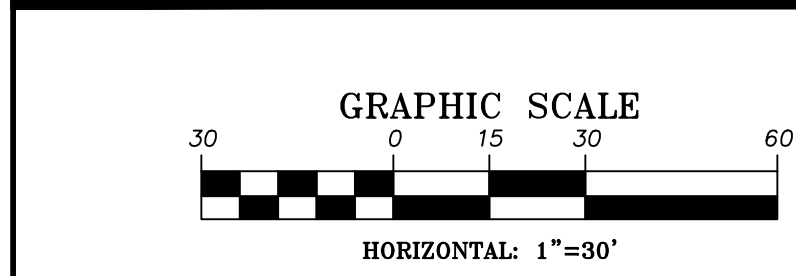
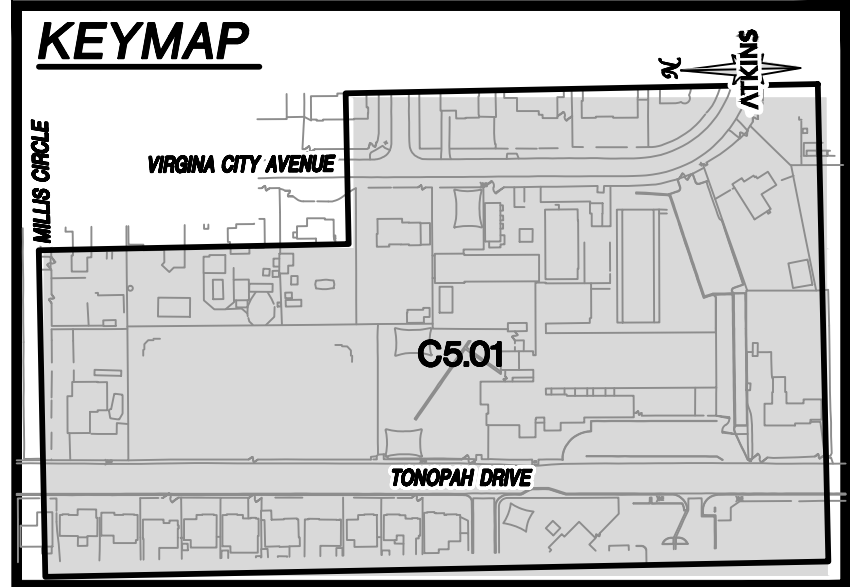
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| STORM DRAIN CONSTRUCTION NOTES |                                                                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1                              | INSTALL 3" SCHEDULE 80 PVC STORM DRAIN PIPE.                                                                                            |
| 2                              | INSTALL 4" C900 PVC STORM DRAIN PIPE.                                                                                                   |
| 3                              | INSTALL 5" C900 PVC STORM DRAIN PIPE.                                                                                                   |
| 4                              | INSTALL 6" SDR-35 STORM DRAIN PIPE.                                                                                                     |
| 5                              | INSTALL 8" SDR-35 STORM DRAIN PIPE.                                                                                                     |
| 6                              | INSTALL 12" SDR-35 STORM DRAIN PIPE.                                                                                                    |
| 7                              | INSTALL DUAL 12" SDR-35 STORM DRAIN PIPE                                                                                                |
| 8                              | INSTALL 18" SDR-35 STORM DRAIN PIPE.                                                                                                    |
| 9                              | INSTALL 48" TYPE II SDMH PER CCAUSD #405.2                                                                                              |
| 10                             | INSTALL DROP INLET PER DETAILS ON SHEET C8.01                                                                                           |
| 11                             | INSTALL STORM DRAIN CLEAN OUT                                                                                                           |
| 12                             | INSTALL STORM DRAIN WYE                                                                                                                 |
| 13                             | INSTALL 2'-2' x 2' NDOT TYPE 2 DROP INLET WITH MEEHAW R-4345 SQUARE BEEHIVE GRATE OR EQUIVALENT.                                        |
| 14                             | CONNECT TO TYPE "C" DROP INLET PER DETAIL-X ON SHEET C8.03. SEE SHEETS C8.01 TO C8.03 FOR TONOPAH DRIVE STORM DRAIN SYSTEM INFORMATION. |
| 15                             | CONNECT TO 18" STORM DRAIN PIPE. SEE SHEETS C8.01 TO C8.03 FOR TONOPAH DRIVE STORM DRAIN SYSTEM INFORMATION.                            |
| 16                             | CONNECT TO EXISTING 18" STORM DRAIN PIPE                                                                                                |
| 17                             | SEE PLUMBING PLANS FOR CONTINUATION INSIDE BUILDING.                                                                                    |
| 18                             | CONNECT EXISTING TO PROPOSED STORM DRAIN SYSTEM AND CAP EXISTING DROP INLETS. SEE DETAIL-A, THIS SHEET.                                 |

- NOTES:**
- SEE SHEETS C4.00, C4.01, AND C4.02 FOR GRADING.
  - SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
  - SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
  - SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEET C8.02 AND C8.03 FOR SECTION DETAILS.



**GRADING PLAN CERTIFICATION**

NAME: ANTHONY J. ORTIZ PE:18849 DATE: 2/6/2020

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#XXXX

**BASIS OF BEARING**

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

**BENCHMARK**

CLV BM 06129A10 RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR. ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

Call before you Dig  
1-702-432-5300

Call before you Dig  
1-800-642-2444

Call before you Dig  
1-702-227-2929

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

**NOT FOR CONSTRUCTION**  
**ISSUE FOR BID**

**ATKINS**  
2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7275  
Fax: 702.263.7200

**CLARK COUNTY SCHOOL DISTRICT**  
CONSTRUCTION MANAGEMENT DEPARTMENT  
1800 MILITARY AVENUE IN HENDERSON, NV 89011  
TEL: 702-395-0700

**CLARK COUNTY SCHOOL DISTRICT FOR: CIVIL IMPROVEMENT PLANS FOR: MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT**  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

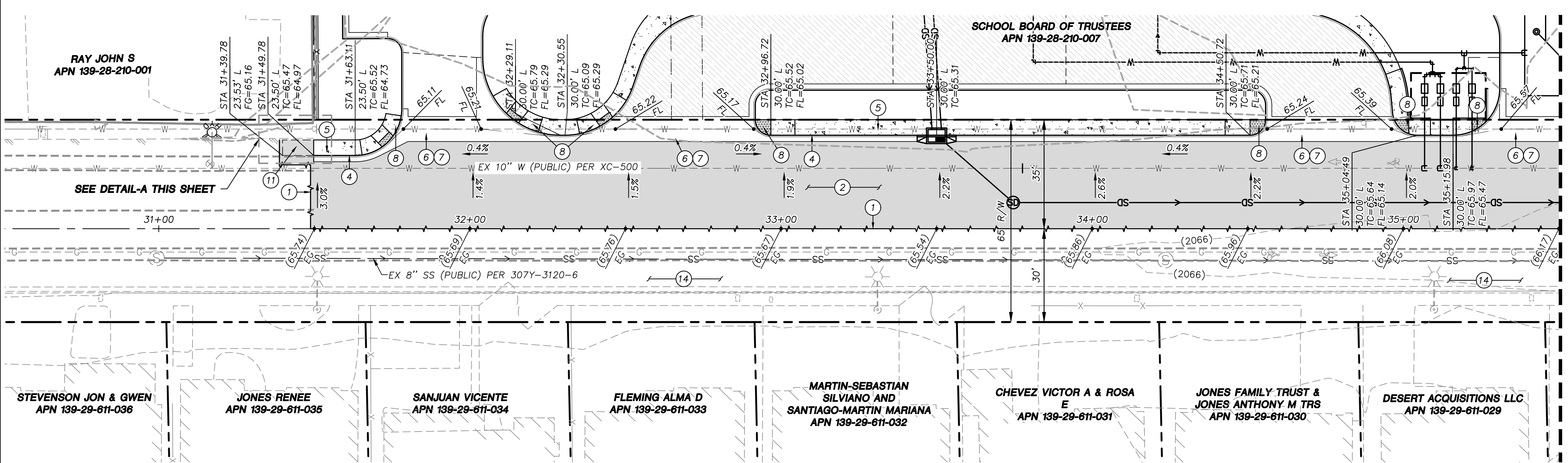
**STORM DRAIN PLAN**

DESIGNED BY: J. CABRERA  
DRAWN BY: J. ORTIZ  
CHECKED BY: T. ORTIZ  
DATE: 2/6/2020  
DRAWING NO. 13/31  
HORIZ: 1" = 30'  
VERT: NONE

PROJECT NO. 100067217  
DATE: 2/6/2020  
DRAWING NO. 13/31  
HORIZ: 1" = 30'  
VERT: NONE

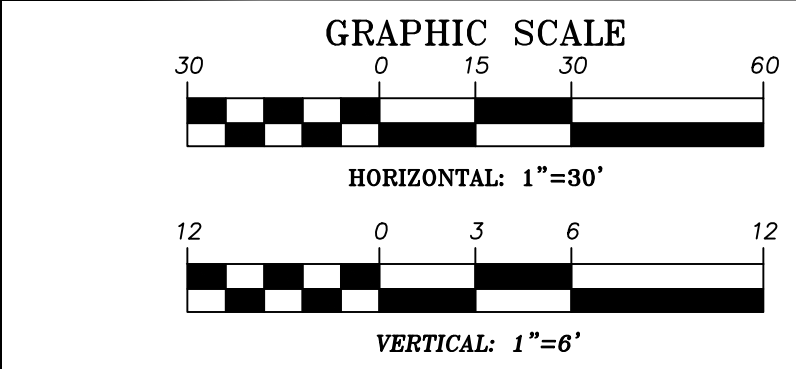
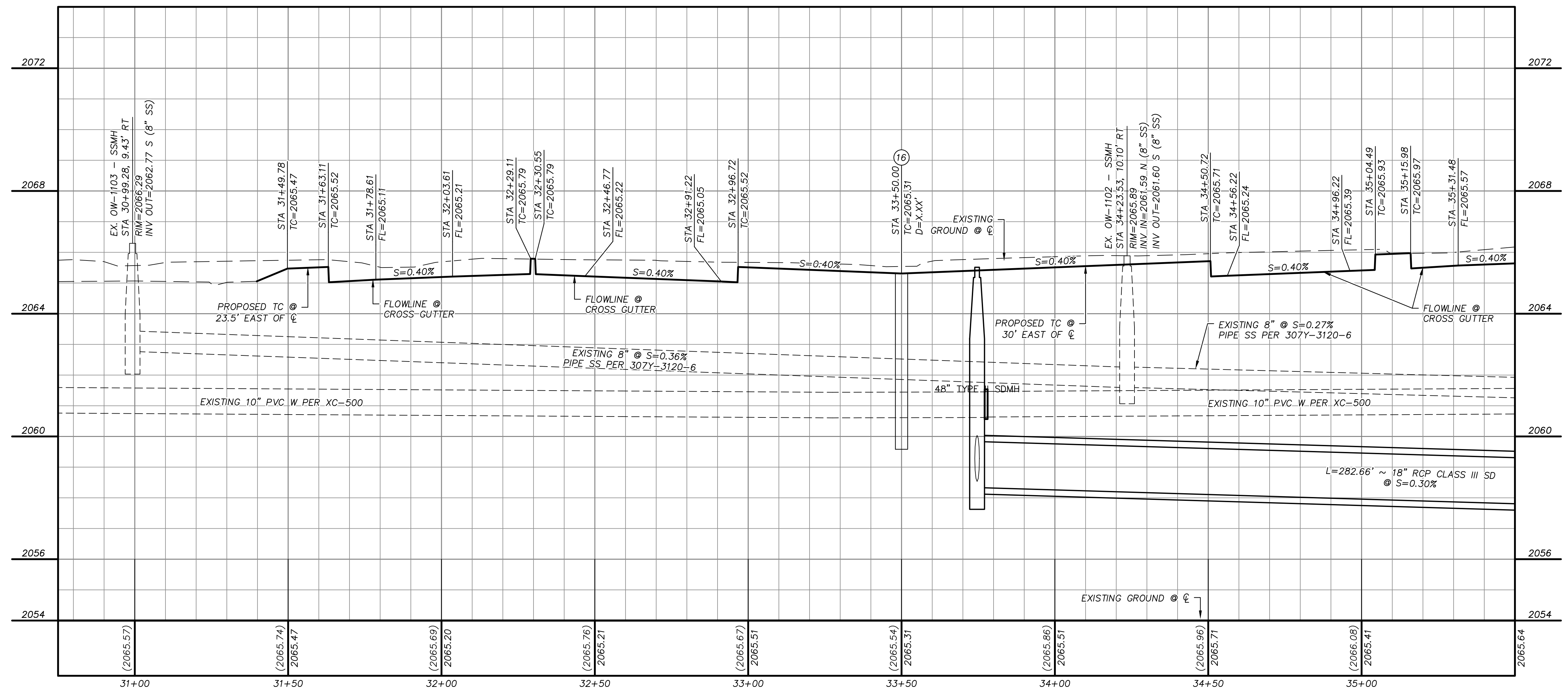
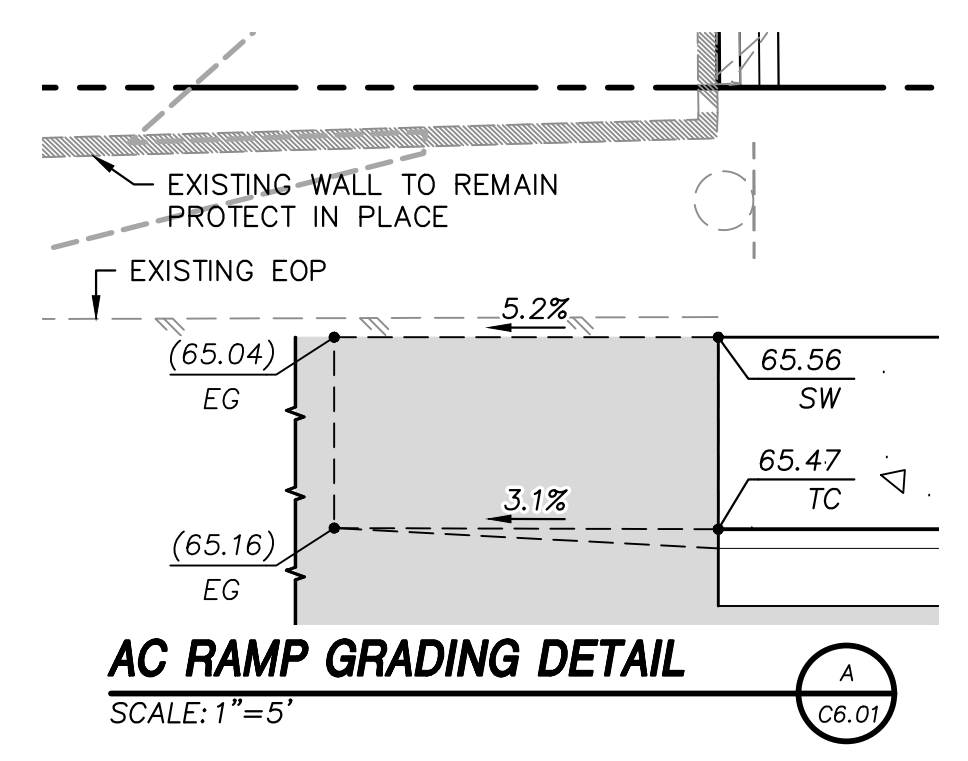
PROJECTS (Land Development) \SH Architecture\100067217-08-GRAD-S01.dwg LAYOUT: C5.01 Feb 07, 2020 - 12:48AM





- CONSTRUCTION NOTES

  - MATCH EXISTING ELEVATION
  - CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02.
  - CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02.
  - CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216.
  - CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS.
  - CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225.
  - CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228.
  - CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02.
  - CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
  - CONSTRUCT DROP INLET PER CCAUSD NO. 411. L=4'; T=6"; D= PER PLAN
  - CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03.
  - CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216.
  - CONSTRUCT 6" TO 0" CURB FACE TRANSITION.
  - PROTECT EXISTING IMPROVEMENTS IN PLACE
  - CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235
  - CONSTRUCT DROP INLET PER CCAUSD NO. 412.1 L=5.5'; D= PER PLAN



SOUTHWEST GAS CORPORATION DATE

**BASIS OF BEARING**  
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NORS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N  
CENTRAL MERIDIAN: 114°58'00" W  
FALSE NORTHING: 656,166.6667 FEET (US)  
FALSE EASTING: 328,083.3333 FEET (US)  
STANDARD PARALLEL SCALE: 1.0001  
LINEAR UNIT: US SURVEY FOOT (US FT)

**BENCHMARK**  
CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

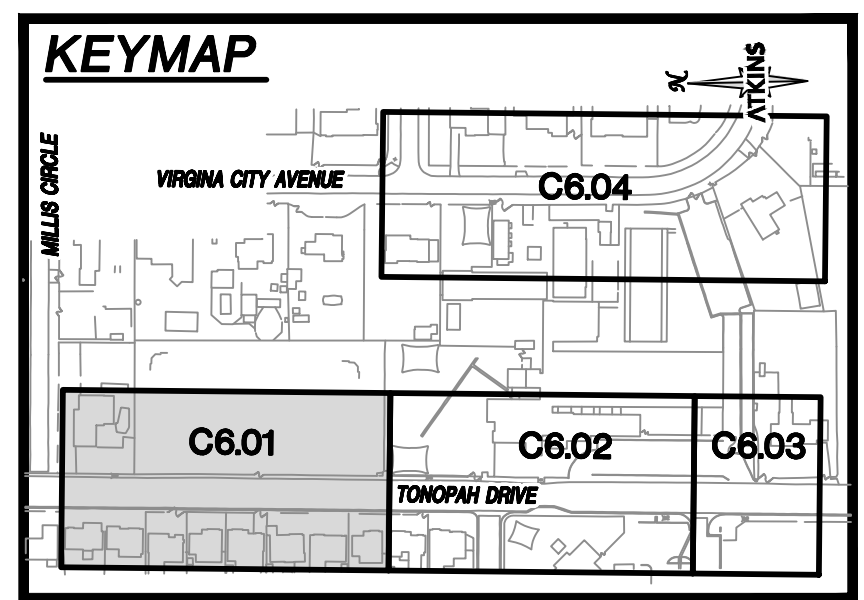
**FAST**  
Call before you Dig  
UnderGround  
1-702-432-5300  
800-442-5300

Call before you Dig  
Call  
811  
1-800-642-2444

CALL BEFORE YOU DIG  
1-702-227-2929

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT  
PROJECT NO. XXXXXX FIRST APPROVED DATE: \_\_\_\_\_



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

**NOT FOR CONSTRUCTION**  
ISSUE FOR BID  
1/31/2020

**ATKINS**  
2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7275  
Fax: 702.263.7200

**CLARK COUNTY SCHOOL DISTRICT**  
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106  
**PLAN AND PROFILE 1**  
**TONOPAH DRIVE STA 31+00 TO 37+50**

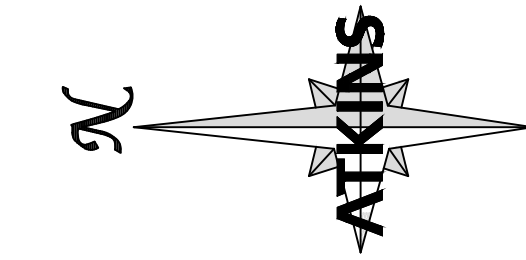
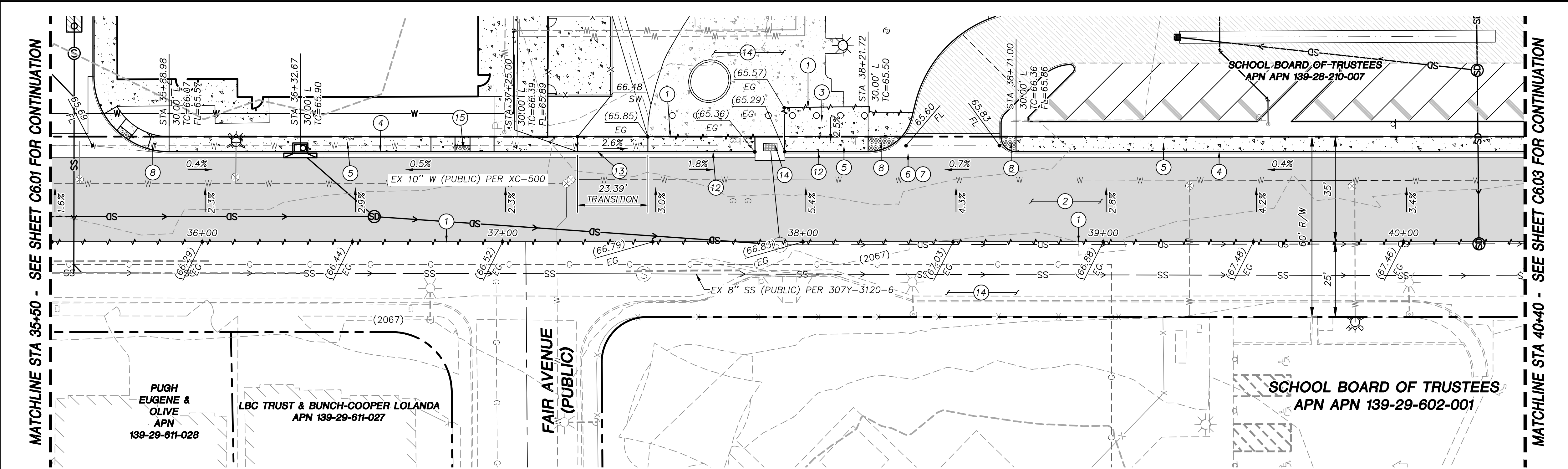
DESIGNED BY: J. CABRERA  
DRAWN BY: J. CABRERA  
CHECKED BY: T. ORTIZ  
DATE: 2/6/2020  
DRAWING NO. 23 / 31

PROJECT NO. 100067217  
DATE: 2/6/2020  
DRAWING NO. 23 / 31

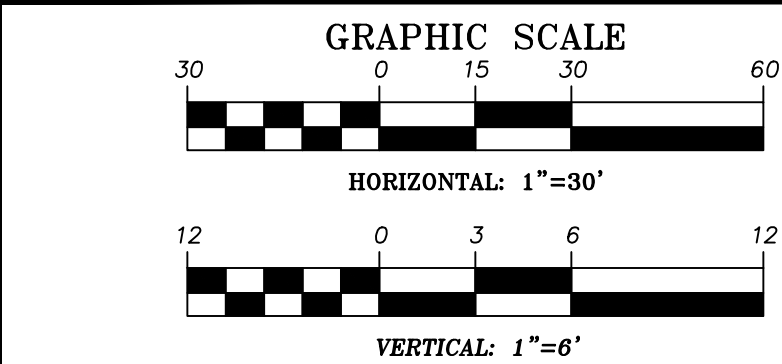
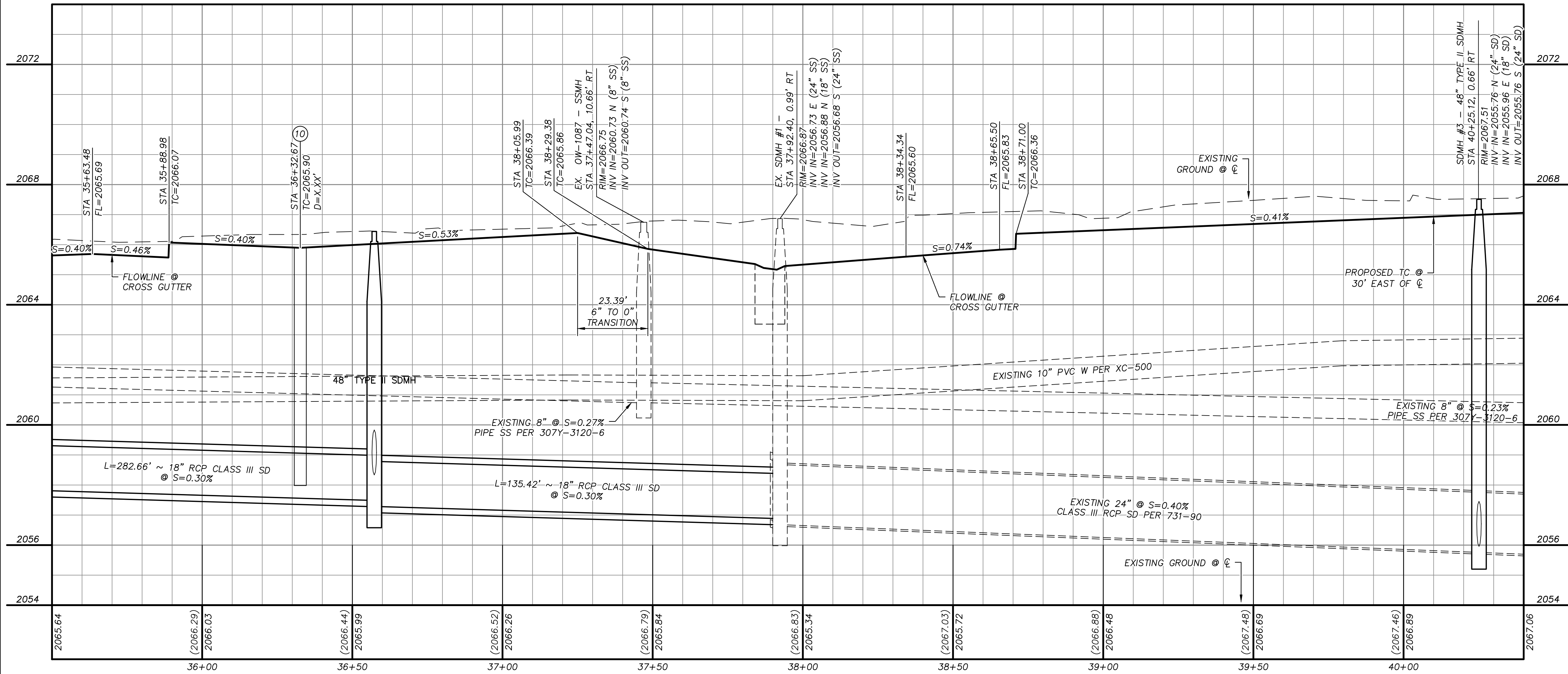
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BY DATE APPROVAL  
DESCRIPTION  
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PROJECTS (Land Development) \SH Architecture\100067217 - Mabel Hoggard ES- Replacement\Sheet\67217-09-PLAN-PI.dwg LAYOUT: C6.01 Feb 07, 2020 - 12:50AM





| CONSTRUCTION NOTES |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| ①                  | MATCH EXISTING ELEVATION                                                                           |
| ②                  | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02.                |
| ③                  | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02.                                           |
| ④                  | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216.                                                        |
| ⑤                  | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| ⑥                  | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225.                                                  |
| ⑦                  | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228.                                                        |
| ⑧                  | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02.                                             |
| ⑨                  | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.                                                  |
| ⑩                  | CONSTRUCT DROP INLET PER CCAUSD NO. 411. L=4'; I=6"; D= PER PLAN                                   |
| ⑪                  | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03.                                   |
| ⑫                  | CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216.                                                     |
| ⑬                  | CONSTRUCT 6" TO 0" CURB FACE TRANSITION.                                                           |
| ⑭                  | PROTECT EXISTING IMPROVEMENTS IN PLACE                                                             |
| ⑮                  | CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235                                                |
| ⑯                  | CONSTRUCT DROP INLET PER CCAUSD NO. 412.1 L=5.5'; D= PER PLAN                                      |



SOUTHWEST GAS CORPORATION DATE

#### BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NORS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983  
(2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
STANDARD PARALLEL AND GRID ORIGIN:  
36°15'00" N  
CENTRAL MERIDIAN: 114°58'00" W  
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FALSE EASTING: 328,083.3333 FEET (US)  
STANDARD PARALLEL SCALE: 1.0001  
LINEAR UNIT: US SURVEY FOOT (US FT)

#### BENCHMARK

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS



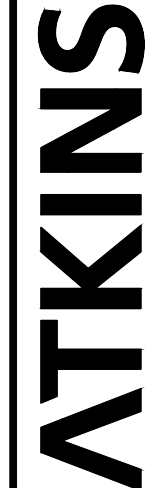
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ISSUE FOR BID  
1/31/2020

#### CLARK COUNTY SCHOOL DISTRICT CIVIL IMPROVEMENT PLANS FOR:

MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

PLAN AND PROFILE 2  
TONOPAH DRIVE 95+87 TO 40+75



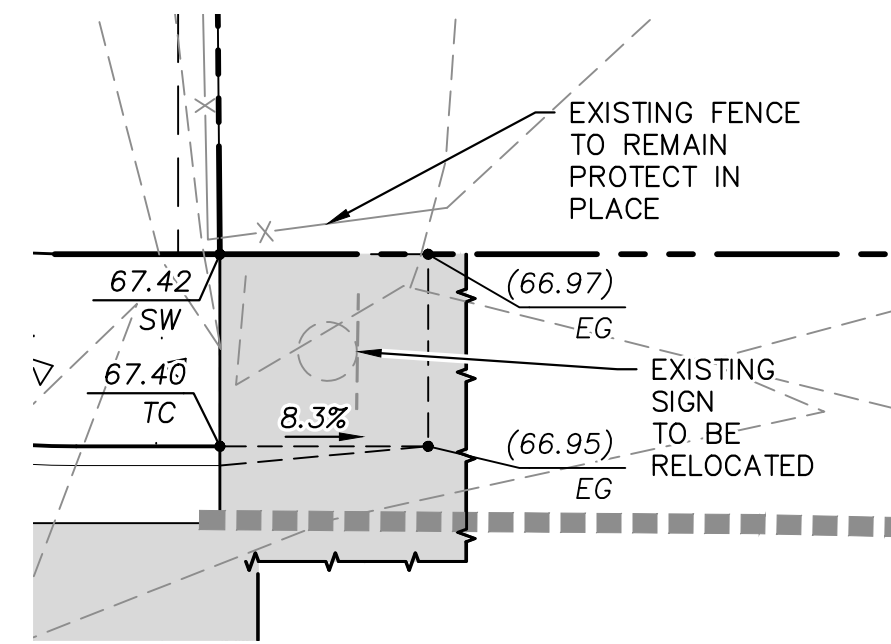
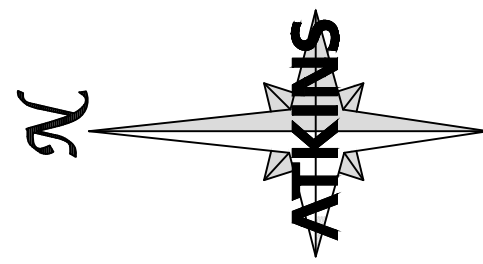
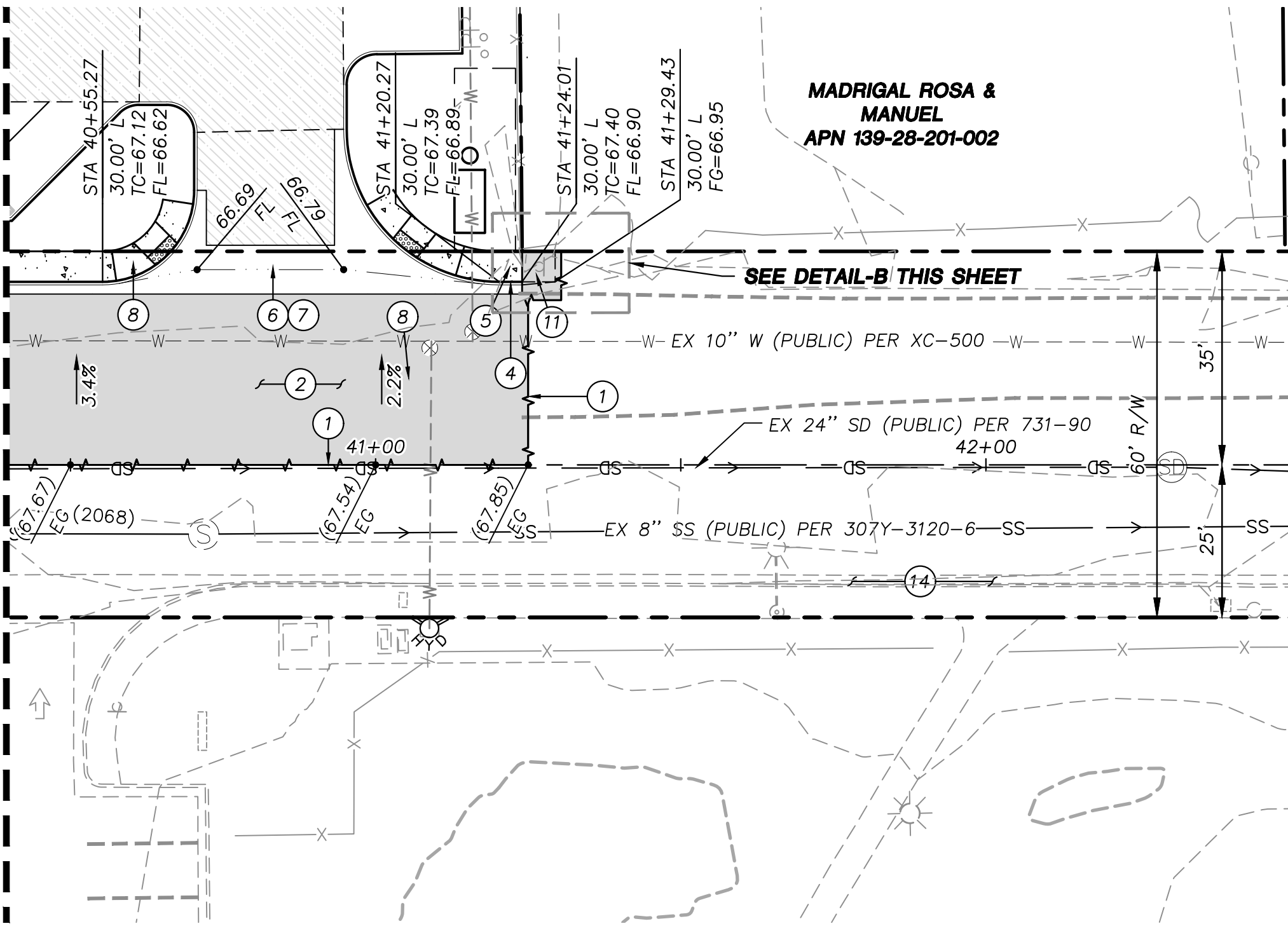
2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7275  
Fax: 702.263.7200

#### REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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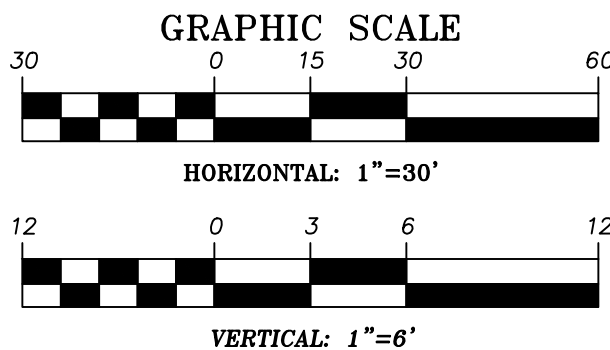
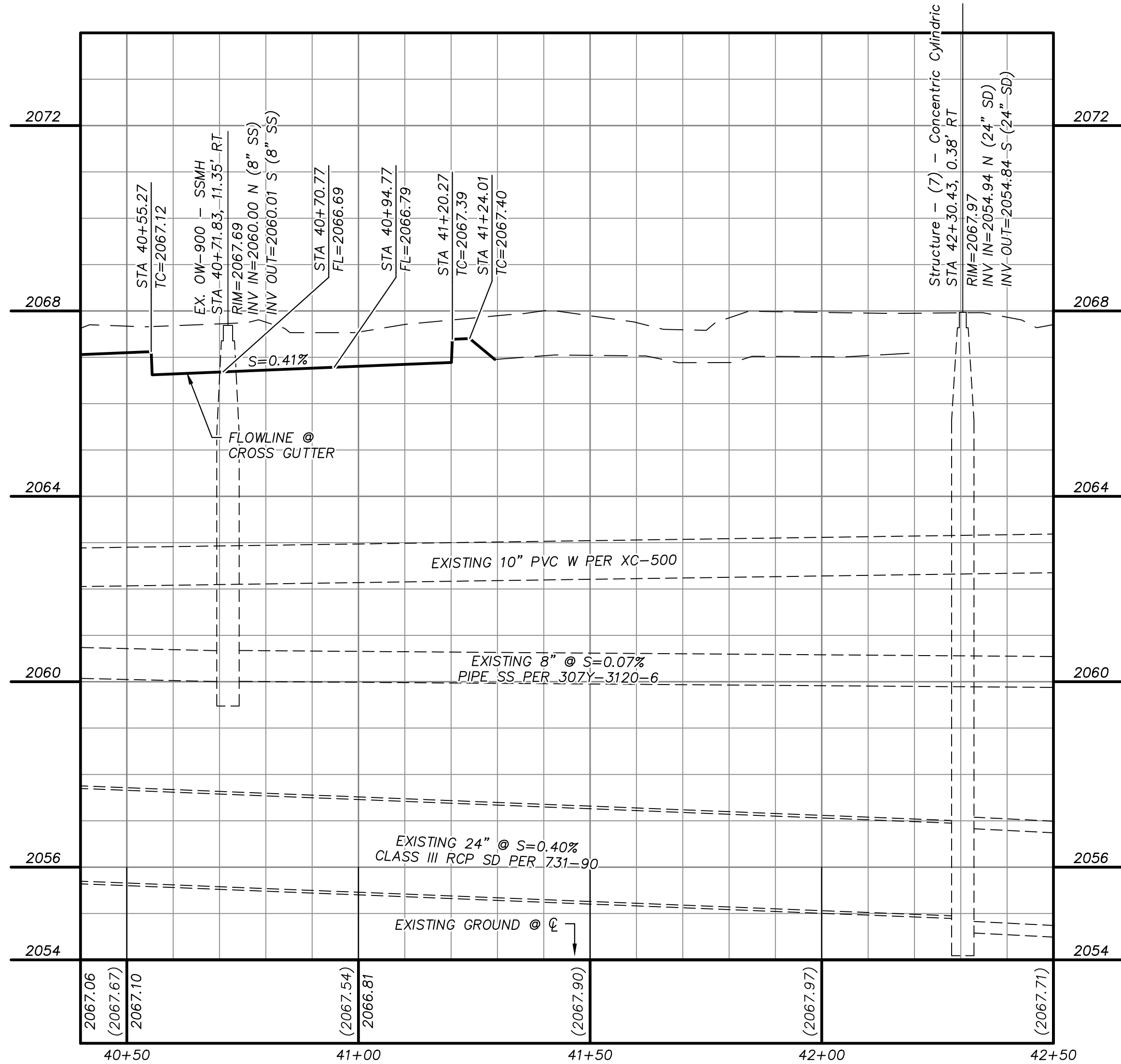
MATCHLINE STA 40+40 - SEE SHEET C8.02 FOR CONTINUATION



AC RAMP GRADING DETAIL

SCALE: 1"=5'

B  
C6.03



SOUTHWEST GAS CORPORATION

DATE

#### BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983  
(2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
STANDARD PARALLEL AND GRID ORIGIN:  
36°15'00\"/>

#### BENCHMARK

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS



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NOT FOR CONSTRUCTION  
ISSUE FOR BID  
1/31/2020

| CONSTRUCTION NOTES |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| ①                  | MATCH EXISTING ELEVATION                                                                           |
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| ⑥                  | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225.                                                  |
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| ⑯                  | CONSTRUCT DROP INLET PER CCAUSD NO. 412.1 L=5.5'; D= PER PLAN                                      |

#### CLARK COUNTY SCHOOL DISTRICT CIVIL IMPROVEMENT PLANS FOR:

MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

PLAN AND PROFILE 3  
TONOPAH DRIVE 40+75 TO 42+50



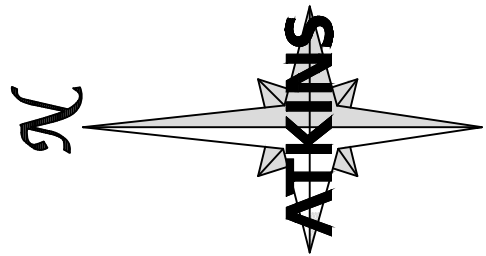
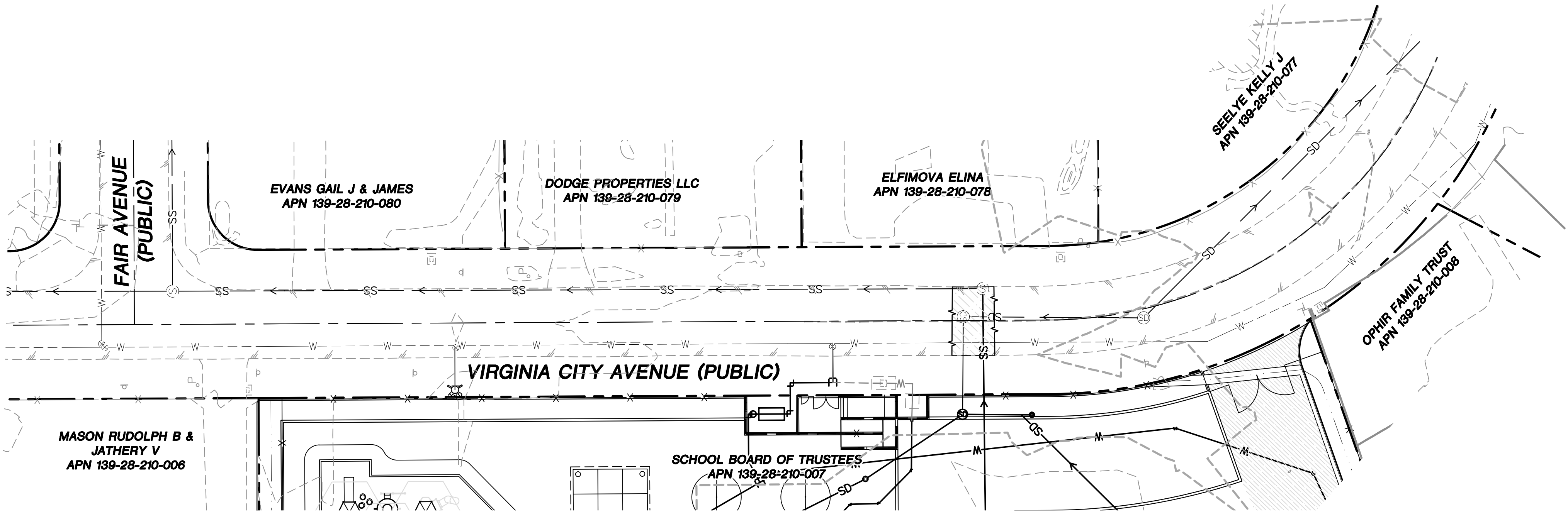
#### ATKINS

2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7275  
Fax: 702.263.7200

#### REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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| CONSTRUCTION NOTES |                                                                                                    |
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| ②                  | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02.                |
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**ATKINS**  
2270 Corporate Circle, Suite 200  
Henderson, NV 89014  
Tel: 702.263.7272  
Fax: 702.263.7200

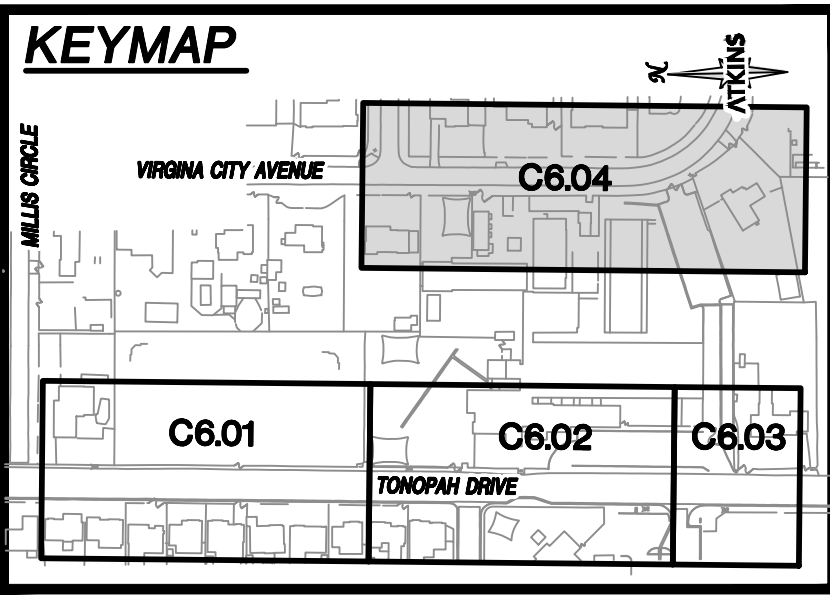
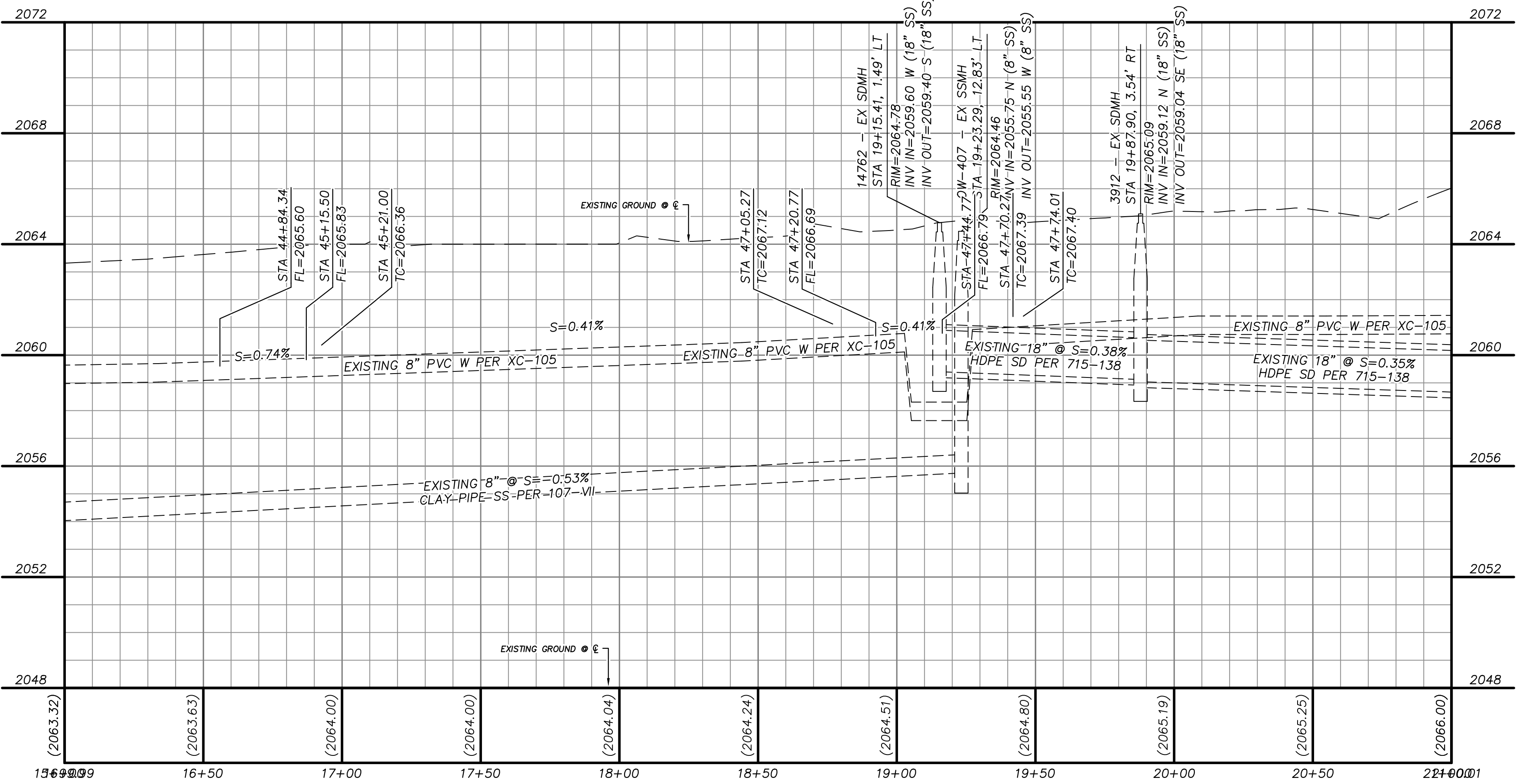
**CLARK COUNTY SCHOOL DISTRICT**  
CONSTRUCTION MANAGEMENT DEPARTMENT  
1000 MILLS DRIVE, SUITE 100, HENDERSON, NV 89014  
Tel: 702.263.7272  
Fax: 702.263.7200

**CLARK COUNTY SCHOOL DISTRICT FOR: CIVIL IMPROVEMENT PLANS FOR:**  
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT  
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106  
**PLAN AND PROFILE 4**  
**VIRGINIA CITY DRIVE 15+50 TO 21+00**

DESIGNED BY: J. CABRERA  
DRAWN BY: J. CABRERA  
CHECKED BY: T. ORTIZ  
DATE: 2/16/2020  
DRAWING NO: 25 / 31  
HORIZ.: 1"=30'  
VERT.: 1"=4'

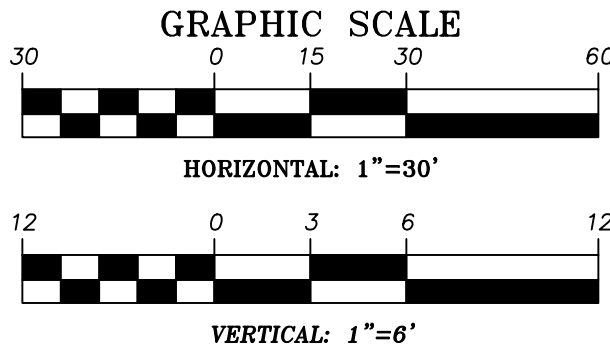
XXX-XXXX XXX-XXX

X:\Projects\Land Development\SH Architecture\100067217 - Replacement\67217-09-PLAN-P1.dwg LAYOUT: C6.04 Feb 07, 2020 - 12:52AM



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

**NOT FOR CONSTRUCTION**  
**ISSUE FOR BID**  
1/31/2020



SOUTHWEST GAS CORPORATION DATE

#### BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

#### BENCHMARK

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS  
STANDARD PARALLEL SCALE: 1:0001  
LINEAR UNIT: US SURVEY FOOT (US FT)



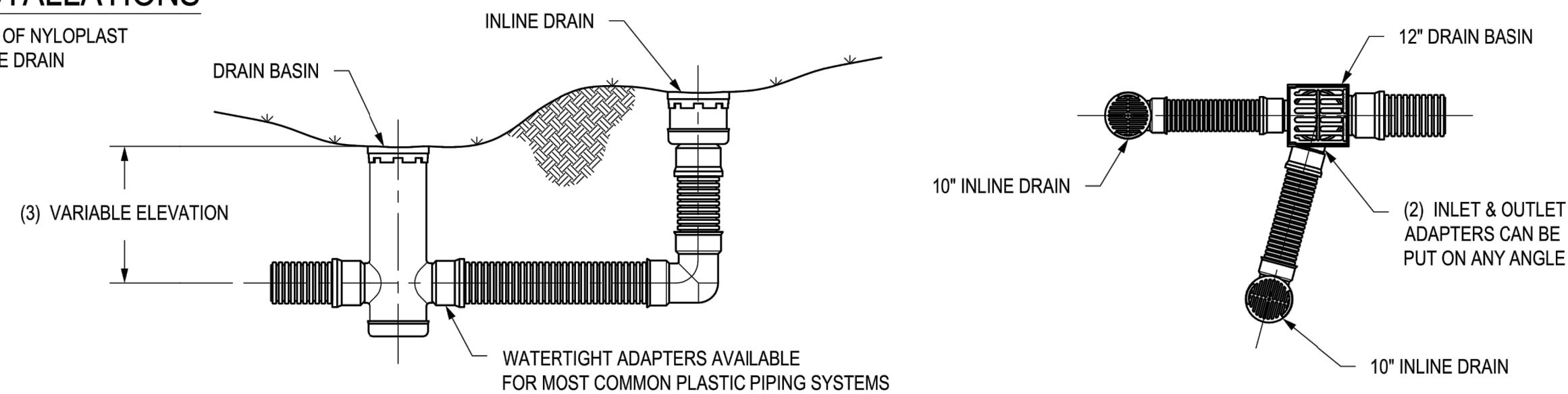




- 2708AG \_\_ X  
2710AG \_\_ X  
2712AG \_\_ X  
2715AG \_\_ X  
2718AG \_\_ X  
2724AG \_\_ X  
2730AG \_\_ X

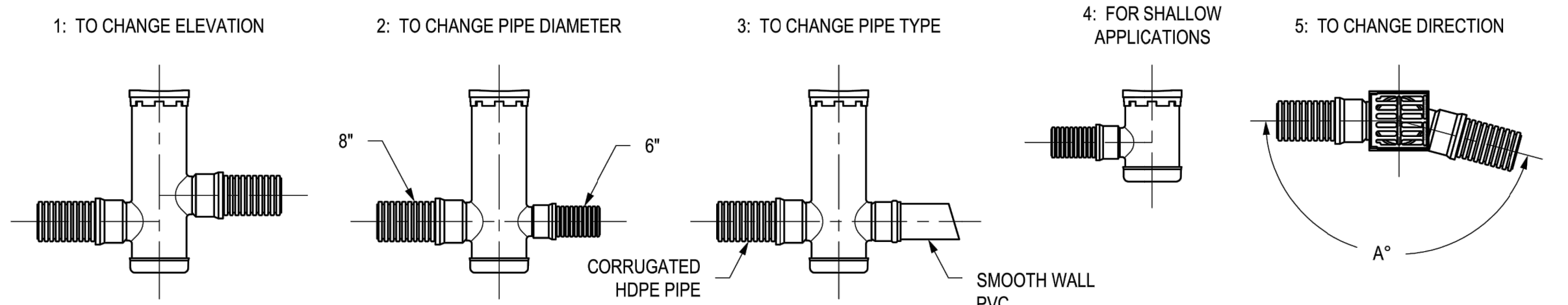
## TYPICAL INSTALLATIONS

### TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN



## WHEN ARE DRAIN BASINS USED?

- 2808AG \_\_ X  
2810AG \_\_ X  
2812AG \_\_ X  
2815AG \_\_ X  
2818AG \_\_ X  
2824AG \_\_ X  
2830AG \_\_ X  
2836AG \_\_ X



- 1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
- 2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- 4 - REDUCING CONES DOWN TO 30" DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.

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|            |         |                  |
|------------|---------|------------------|
| DRAWN BY   | AWA     | MATERIAL         |
| DATE       | 8-10-00 |                  |
| REVISED BY | NMH     | PROJECT NO./NAME |
| DATE       | 11-2-18 |                  |
| DWG SIZE   | A       | SCALE 1:40       |

**Nyloplast**  
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 BUFORD, GA 30518  
 PHN (770) 932-2443  
 FAX (770) 932-2490  
[www.nyloplast-us.com](http://www.nyloplast-us.com)

**TITLE**  
 8 IN - 36 IN TYPICAL INSTALLATION OPTIONS

DWG NO. 7001-110-042 REV E

### 8 IN - 36 IN TYPICAL INSTALLATION OPTIONS

## REVISIONS

[illegible]

# ATKINS

2270 Corporate Circle Suite 200  
Henderson, Nevada 89074  
Telephone: +1.702.263.7275  
Fax: +1.702.263.7200

CLARK COUNTY  
SCHOOL DISTRICT

**SCHOOL DISTRICT**  
CONSTRUCTION MANAGEMENT DEPARTMENT  
1180 MILITARY TRIBUTE LN., HENDERSON, NV 89074 PHONE: 702-799-8710

**CLARK COUNTY SCHOOL DISTRICT  
CIVIL IMPROVEMENT PLANS FOR:  
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT**

950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

---

## TYPICAL SECTIONS

|             |                  |                             |
|-------------|------------------|-----------------------------|
| JOB NO.     | <b>100067217</b> | DESIGNED BY:<br>J. CABBRA   |
| DATE:       | <b>2/6/2020</b>  | DRAWN BY:<br>B. CORDON      |
| DRAWING NO. | <b>28 / 31</b>   | CHECKED BY:<br>T. ORTIZ     |
|             | <b>C8.01</b>     | HORIZ.: NONE<br>VERT.: NONE |

XXX-XXXXX    XXX-XXX

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GRID NORTH AS DEFINED BY THE CENTRAL  
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LAS VEGAS HIGH ELEVATION ZONES, NORTH  
AMERICAN DATUM OF 1983, SAID MERIDIAN  
BEING COINCIDENT WITH 114°58' WEST OF THE  
GREENWICH MERIDIAN.  
DATUM (REFERENCE FRAME): NAD 1983  
(2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE  
 STANDARD PARALLEL AND GRID ORIGIN:  
 36°15'00" N  
 CENTRAL MERIDIAN: 114°58'00" W  
 FALSE NORTHING: 656,166.6667 FEET  
 (US)  
 FALSE EASTING: 328,083.3333 FEET  
 (US)  
 STANDARD PARALLEL SCALE: 1.0001  
 LINEAR UNIT: US SURVEY FOOT (US FT)

CLV BM 06129A10  
RIVET & PLATE TOP CURB NE CORNER FAIR  
AV. & TONOPAH DR.  
ELEVATION: 2067.00 FEET (NAVD88), 630.022  
METERS



Call before you Dig  
AVOID CUTTING UNDERGROUND  
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