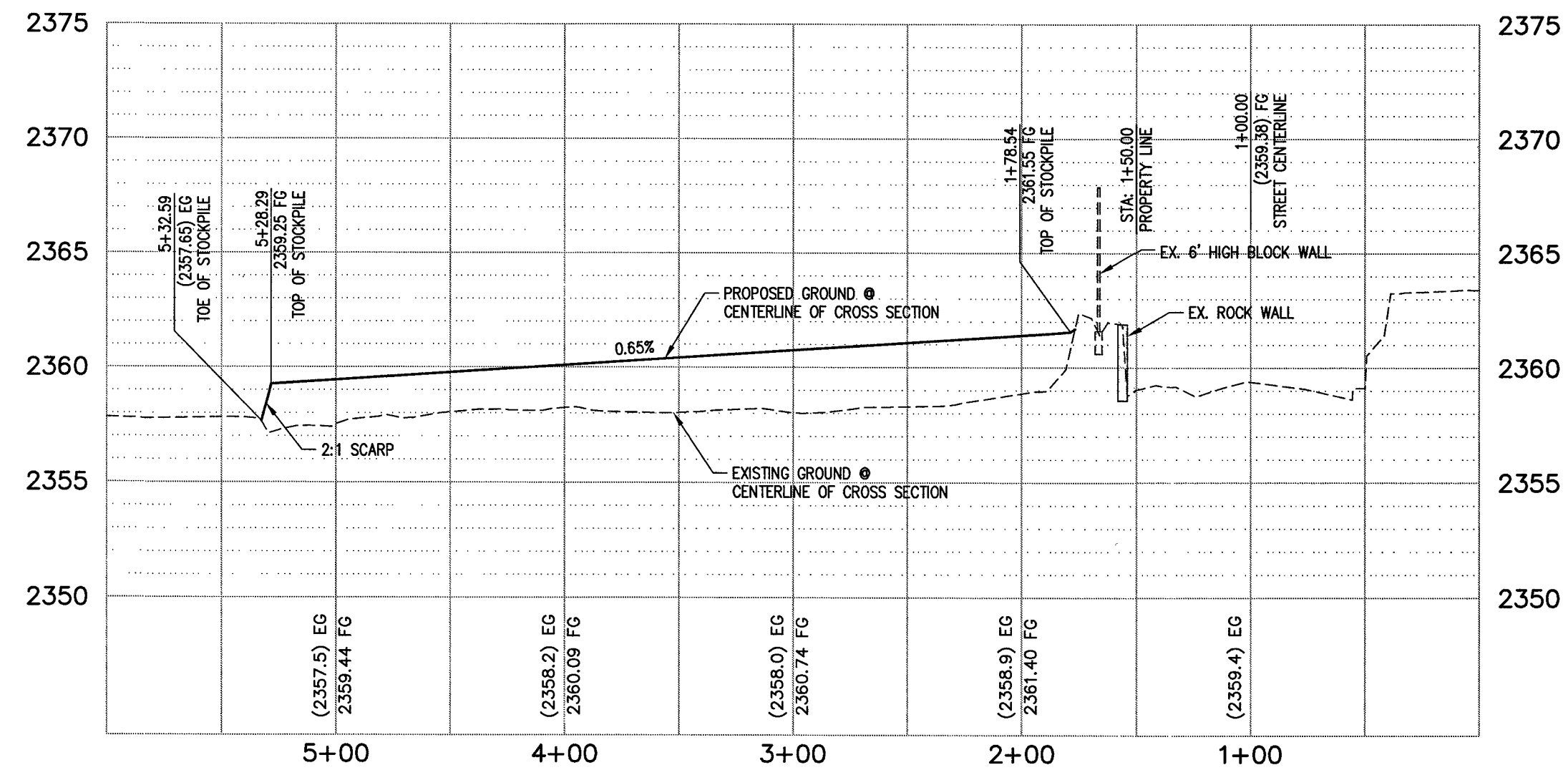


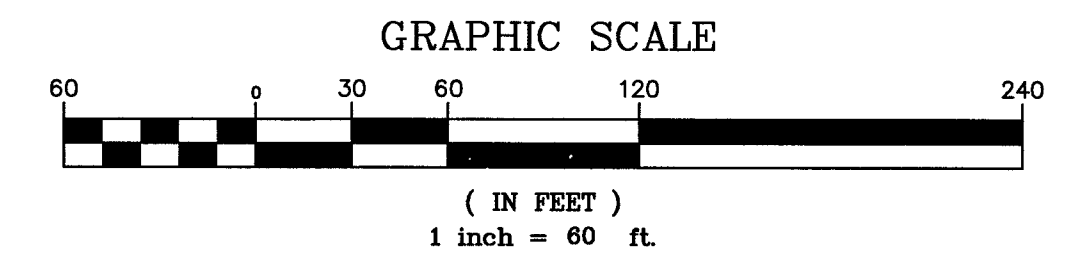
CROSS SECTION A PROFILE

SCALE: HORIZ. 1" = 60'
VERT. 1" = 6'



CROSS SECTION B PROFILE

SCALE: HORIZ. 1" = 60'
VERT. 1" = 6'



ABBREVIATIONS

| | | |
|-----------------------------------|--|--|
| ABAN - ABANDON | IN - INCH | S - SOUTH/SLOPE |
| AC - ASPHALTIC CONCRETE | INST - INSTALL | S/C - SAW CUT |
| AGGR - AGGREGATE | INT - INTERIOR | SCCP - STEEL CYLINDER CONCRETE PIPE |
| & - AND | INV - INVERT | SD - STORM DRAIN |
| APN - ASSESSOR PARCEL NUMBER | IRR - IRRIGATION | SDMH - STORM DRAIN MANHOLE |
| APPROX - APPROXIMATE | LB OR # - POUND | SDWK - SIDEWALK |
| ASSY - ASSEMBLY | LEN OR L - LENGTH OF CURVATURE | SE - SECTION/SECOND |
| AVE - AVENUE | LF - LINEAR FOOT | SEG - SEGMENT |
| BC - BACK OF CURB | LG - LONG | SHDR - SHOULDER |
| BOR - BACK OF CURVE RETURN | LN - LANE | SHT - SHEET |
| BK - BOOK/BACK | LT - LEFT/LIGHT | SID - SPECIAL IMPROVEMENT DISTRICT |
| BLDG - BUILDING | LWWD - LAS VEGAS VALLEY WATER DISTRICT | SIG - SIGNAL |
| BLK - BLOCK | LMR - LOWER | SL - SLOPE |
| BLM - BUREAU OF LAND MANAGEMENT | M - METER | SLV - SLEEVE |
| BLVD - BOULEVARD | MATL - MATERIAL | SNWA - SOUTHERN NEVADA WATER AUTHORITY |
| BM - BENCHMARK | MAX - MAXIMUM | SPEC(S) - SPECIFICATION(S) |
| BO - BLOW OFF ASSEMBLY | MECH - MECHANICAL | SQ - SQUARE |
| BOC - BACK OF CURB | MFR - MANUFACTURER | SQ FT - SQUARE FOOT/FEET |
| BOT - BOTTOM | MG - MILLION GALLONS | SO YD - SQUARE YARD |
| BOW - BACK OF WALK | MED - MILLION GALLONS PER DAY | SS - SANITARY SEWER |
| BRG - BEARING | MH - MANHOLE | ST - STREET |
| BVC - BEGIN VERTICAL CURVE | MIN - MINIMUM | STA - STATION |
| BW - BACK OF WALK | MISC - MISCELLANEOUS | STD - STANDARD |
| BWV - BACK WATER VALVE | MJ - MECHANICAL JOINT | STL - STEEL |
| C/C - CENTER TO CENTER | MKR - MARKER | STLT - STREET LIGHT |
| C&G - CURB & GUTTER | ML - MORTAR LINED & COATED | SUR - SURVEY |
| CC - CLARK COUNTY | MVC - MIDDLE OF VERTICAL CURVE | SW - SIDEWALK OR SOUTHWEST |
| CE - COMMON ELEMENT | N - NORTH | SY - SQUARE YARD |
| CI - CAST IRON | N/A - NOT APPLICABLE | SYM - SYMBOL |
| CP - CAST IRON PIPE/CAST IN PLACE | NAP - NOT A PART | SYS - SYSTEM |
| CR - ORICLE | NDOT - NEVADA DEPARTMENT OF TRANSPORTATION | |
| CL OR C - CENTERLINE | NE - NORTHEAST | |
| CLV - CITY OF LAS VEGAS | NF - NORTH FACE | |
| CLV - CITY OF NOTRA LAS VEGAS | NG - NATURAL GROUND | |
| CO - COUNTY | NO. OR # - NUMBER | |
| COH - CITY OF HENDERSON | NTS - NOT TO SCALE | |
| CONC - CONCRETE | NW - NORTHWEST | |
| CONT - CONTINUOUS | O/O - OUT TO OUT | |
| COORD - COORDINATE | OC - ON CENTER | |
| CR - CENTER | OD - OUTSIDE DIAMETER | |
| CTR - CENTER | OF - OUTSIDE FACE | |
| CV - CONTROL VALVE | OH - OVER HEAD POWER | |
| Δ - DELTA ANGLE | OHTEL - OVER HEAD TELEPHONE | |
| D/W OR DWY - DRIVEWAY | ORIG - ORIGINAL | |
| DEPT - DEPARTMENT | OVFL - OVERFLOW | |
| DET - DETAIL | O/O - OUT TO OUT | |
| DEV - DEVELOPMENT | OC - ON CENTER | |
| DI - DESIGN GRADE | OD - OUTSIDE DIAMETER | |
| DI - DROP INLET/DUCTILE IRON | OF - OUTSIDE FACE | |
| DIA OR # - DIAMETER | OH - OVER HEAD POWER | |
| DM - DIMENSION | OHTEL - OVER HEAD TELEPHONE | |
| DIP - DUCTILE IRON PIPE | ORIG - ORIGINAL | |
| DIR - DIRECTION | OVFL - OVERFLOW | |
| DIST - DISTANCE | PL OR P - PROPERTY LINE | |
| DMH - DROP MANHOLE | PA - PAYMENT | |
| DN - DOWN | PB - PULL BOX | |
| DR - DRIVE | PC - POINT OF CURVE | |
| DWG - DRAWING | PC - POINT OF COMPOUND CURVE | |
| E - EAST/EDGE | PE - POLYETHYLENE | |
| EA - EACH | PE - PEDESTAL | |
| EG - EXISTING GROUND | PERM - PERMANENT | |
| ELEV - ELEVATION | PERP - PERPENDICULAR | |
| EDG - EDGE OF PAVEMENT | PH - PHASE | |
| EGS - EDGE OF SHOULDER | PI - POINT OF INTERSECTION | |
| EQ - EQUAL OR EQUATION | PKG - PACKAGE | |
| EQ SP - EQUALLY SPACED | PKWY - PARKWAY | |
| ESMT - EASEMENT | PL - PLACE/PLATE/PARCEL LINE | |
| EST - ESTIMATE | PLT - PLATE (DRAWING) | |
| EVC - END OF VERTICAL CURVE | POLY - POLYETHYLENE | |
| EW - EACH WAY | PP - POWER POLE | |
| EXIST - EXISTING | PR - PAIR | |
| F/F - FACE TO FACE | PRC - POINT OF REVERSE CURVE/PRECAST REINFORCED CONCRETE | |
| FC - FACE OF CURB | PROP - PROPOSED | |
| FF - FINISHED FLOOR | PRV - PRESSURE REGULATING VALVE | |
| FG - FINISHED GRADE | PS - PUMP STATION | |
| FL - FIRE HYDRANT | PSF - POUNDS PER SQUARE FOOT | |
| FIG - FIGURE | PSI - POUNDS PER SQUARE INCH | |
| FL OR F - FLOW LINE | PT - POINT/POINT OF TANGENT | |
| FLR - FLOOR | PUE - PUBLIC UTILITY EASEMENT | |
| FN - FENCE | PVI - POINT OF VERTICAL INTERSECTION | |
| FND - FOUND | PVC - POLYVINYL CHLORIDE PIPE | |
| FOC - FACE OF CURB | QTR - QUARTER | |
| FOW - FACE OF WALL | QTY - QUANTITY | |
| FPM - FEET PER MINUTE | R - RADIUS | |
| FPS - FEET PER SECOND | R/R - RADIAL | |
| FT - FOOT OR FEET | R/W - RIGHT OF WAY | |
| FTG - FOOTING | RCB - REINFORCED CONCRETE BOX | |
| FUT - FUTURE | RCP - REINFORCED CONCRETE PIPE | |
| G/B - GRADE BREAK | RD - ROAD | |
| GALV - GALVANIZED | RED - REDUCER | |
| GB - GRADE BREAK | REQD - REQUIRED | |
| GND - GROUND | RET - RETURN | |
| GPD - GALLONS PER DAY | REV - REVISION OR REVERSE | |
| GPH - GALLONS PER HOUR | R/W - RIGHT OF WAY | |
| GPM - GALLONS PER MINUTE | RPPA - REDUCED PRESSURE PRINCIPLE ASSEMBLY | |
| GRD - GRADE | RR - RAILROAD | |
| GRT - GRATE | RT - RIGHT | |
| GV - GATE VALVE | | |
| HORIZ - HORIZONTAL | | |
| HP - HIGH POINT | | |
| HPC - HIGH PRESSURE GAS | | |
| HT - HEIGHT | | |
| HWY - HIGHWAY | | |

CITY OF LAS VEGAS GRADING NOTES

- 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.
- 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.
- 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 PAVING OF THE EXCAVATION.
- 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.
- 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.
- CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

| | | |
|---------------------------------|----------------|------------------|
| HORIZONTAL | VERTICAL | COMPACTION |
| A. PAVEMENT AREA SUBGRADE 0.1'+ | +0.0' TO -0.1' | SEE SOILS REPORT |
| B. ENGINEERED FILL | +0.1' TO -0.1' | SEE SOILS REPORT |
- COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- 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.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- 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.

REVISED 04/15/10

BASIS OF BEARING

NORTH 00°56'37" EAST, BEING THE BEARING OF THE WEST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 22, TOWNSHIP 19 SOUTH, RANGE 80 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 163, PAGE 26 OF SURVEYS.

BENCHMARK

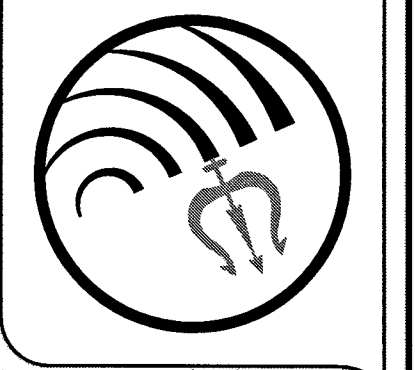
CLARK COUNTY BENCHMARK STATION: 6LV90 15S56
RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF RIO VISTA AND ELKHORN ROAD.
ELEVATION = 717.800 METERS (NAVD'88 V.2003)
ELEVATION = 2354.98 US SURVEY FEET (NAVD'88 V.2003)

FLOOD ZONE NOTE

THIS SITE IS LOCATED COMPLETELY WITHIN ZONE X PER FEMA MAP #32003C1765F, PANEL 1765F, DATED NOVEMBER 16, 2011. ZONE X IS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN.

| | |
|-------------|------------|
| DATE | 02/28/2017 |
| PM | J. PEARCE |
| DRAWN BY | |
| DESIGNED BY | |
| CHECKED BY | |
| ADA CHECKED | 007.108 |
| JOB NO. | |
| SCALE | AS NOTED |

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DR HORTON
ELKHORN 40
GRADING NOTES AND SECTIONS

