

CITY OF LAS VEGAS GENERAL NOTES

- 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 SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA," LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE STANDARDS, SPECIFICATIONS, ORDINANCES, AND LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS SHALL BE RESEARCHED BY THE CONTRACTOR. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR PLANNING CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE SURFACE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN EXPOSURE, 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.
- 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.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- 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 APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
- AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GROUTES.
- CURB AND GUTTER FLOW TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
- 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.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION, EXISTING SURFACES TO PROVIDE FOR PROPER HIGHWAYS AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY GeoTech, PROJECT: 13735-LV DATED: October 10, 2017, APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER. GRADING ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
- 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. 843-300 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
- 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 ANY AND THE CITY ENGINEER.
- 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.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
- 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.
- MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
- 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 ANY CONSTRUCTION.
- SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ADJUSTMENT, INCLUDING DEFLECTION OF THE STORM DRAIN MAIN, AND THE LOCATION OF COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINIES OF 0.009 METERS (+ 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COORDINATE LIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- CITY VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CITY VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

CITY OF LAS VEGAS TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- 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 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.
- WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFY 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VPI CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
- 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.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ON 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.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMAA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE 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.
- 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.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFICE IMMEDIATELY PRIOR TO INITIATING PAVING OR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION 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.

CITY OF LAS VEGAS HYDRANT AND ACCESS GENERAL NOTES

- 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.
- ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICTS - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
- 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 FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
- 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
- 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 § 507.7.3
- 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
- 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
- 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
- PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
- PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507
- FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102
* RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
* COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
- 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
- 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.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10
- 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
- A 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
- THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
- 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
- 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
- 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
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS IFC § 503.2.4
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
- FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO 10 FT FROM THE CURB. NO PARKING SHALL BE PERMITTED TO ONE SIDE OF THE ROAD MEASURED TO FACE OF CURB. NO LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NO LESS THAN 24 FT. IFC § 503.2.1.1
- 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 WATER ACCESS. IFC § 503.1.1
- 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
- ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION
- 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 LANE. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED TO BE LESS THAN 10 FT FROM THE SIDE OF THE ROAD OR THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. IFC § 503.6
- 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

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 CAVING 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 EROSION CONTROL 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 0.5" +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 WORK.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND UNIMPAIRED CONDITION THROUGHOUT THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE KEPT IN A CLEAN, SAFE AND UNIMPAIRED CONDITION THROUGHOUT THE CONSTRUCTION.
- 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.

STORMWATER RUNOFF MANAGEMENT

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

- THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO OR ACCUMULATE IN THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS 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.
 - 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 COMPLY WITH THE PERMITS REQUIRED FOR CONSTRUCTION OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
 - 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 SECTION OF THE SITE IS INSTALLED OR PERMANENTLY COMPLETED. IN CONNECTION WITH THIS PERMIT, THE CONTRACTOR REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.5.
 - AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT, AND AREAS EXPOSED TO EROSION, TO IDENTIFY ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.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 EXCEEDED BY 50 PERCENT OR MORE.
- ### SOUTHWEST GAS CONSTRUCTION NOTES
- #### SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES
- IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
 - MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER. CLEARANCES SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR.
 - ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.
 - FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
 - IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.
 - SOUTHWEST GAS CORPORATION STAND BY CONTACT NUMBER 702-400-1789.

Chris Boncho
SOUTHWEST GAS CORPORATION

8/22/19

DATE

CITY OF LAS VEGAS SEWER NOTES

- 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.
- 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.
- CHOISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- 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.
- 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 "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
- 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.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF THE SPAN 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.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 136573
(REVISED 08/01/2017)

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2000 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
- 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.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.2.2 OF THE 2000 EDITION OF THE UDACS.
- ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 702-258-3152 OR 702-258-3800. TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
- THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON STREET SURFACE.
- ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE OR REPAIR THE DECORATIVE SURFACE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
- NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136573 FIRST APPROVED DATE: 8/15/19

CITY OF LAS VEGAS STREETLIGHT NOTES

- ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE CITY ENGINEER.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATION DURING CONSTRUCTION.
- ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
- ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
- AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARED ENGINEER.
- SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
- IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
- WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
- THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
- THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZATION, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS DESIGN WILL BE IN CONNECTION WITH THIS PROJECT'S COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

DISCLAIMER NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.
811
Call before you Dig
Underground
1-800-227-2600

Call before you Dig
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
Call before you Dig
Underground
1-702-432-5300

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

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		ROW OR PROPERTY LINE
		EASEMENT LINE
		CENTERLINE
		CURB
		VALLEY GUTTER
		EDGE OF PAVEMENT
		SIDEWALK
		SIDEWALK RAMP
		DRIVEWAY
		SAWCUT LINE
		RETAINING WALL
		FLOOD WALL
		WROUGHT IRON VEHICULAR GATES
		WROUGHT IRON PEDESTRIAN GATES
		INDEX CONTOURS
		INTERMEDIATE CONTOURS
		ROUGH GRADE INDEX CONTOURS
		ROUGH GRADE INTERMEDIATE CONTOURS
		CUT OR FILL SLOPE
		LOT NUMBER
		FF AND PAD ELEVATION
		GRADE SLOPE
		SPOT ELEVATION
		SWALE LINE
		LOT DIMENSION
		SIGHT VISIBILITY ZONE
		WATERLINE MAIN AND SIZE
		FIRE HYDRANT
		WATER METER AND SERVICE LATERAL
		WATER VALVE
		WATER FITTINGS
		WATER LINE REDUCER
		WATER CAP WITH WATER BLOW OFF ASSEMBLY
		IRRIGATION SLEEVE
		PRESSURE REDUCING VALVE
		REDUC

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Call
811

OR
1-800-227-2600

Call
before you
UnderGround

1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

CITY OF LAS VEGAS BENCHMARK CLVBM No. 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
DR. NAVD 88 DATUM 3318.31 (FEET) NAVD 88 DATUM
1011.422 (METERS)

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135 PAGE 71 OF PLATS.

ALL STRUCTURES SHOWN OR INDICATED ON THIS SUBMITTAL WITHIN THE PROPERTY REQUIRE A BUILDING PERMIT. APPLICATION AND SUBMITTAL THIS INCLUDES BUILDINGS, ABOVE GROUND TANKS, SIGNS, RETAINING WALLS, FENCES, TRASH ENCLOSURES, SHADE STRUCTURES, STAIRWAYS, RAMPS, LIGHT POLES, LIGHT BOLLARDS, ETC. THIS DOES NOT INCLUDE ANY FLOOD CONTROL STRUCTURE SUCH AS PIPES, CULVERTS, ARCH CULVERTS, HEADWALLS, ETC. THIS DOES NOT INCLUDE ANY WORK ON THE PUBLIC STREET RIGHT-OF-WAY. THIS DOES NOT INCLUDE PRIVATE STREETS. THE REVIEW OF CIVIL IMPROVEMENT AND/OR GRADING PLANS DOES NOT INCLUDE ANY REVIEW OF ANY STRUCTURE THAT REQUIRES A BUILDING PERMIT APPLICATION."

ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBERS 32003C2125E AND 32003C2150E DATED SEPTEMBER 27, 2002, THE SITE IS LOCATED IN A ZONE "X".

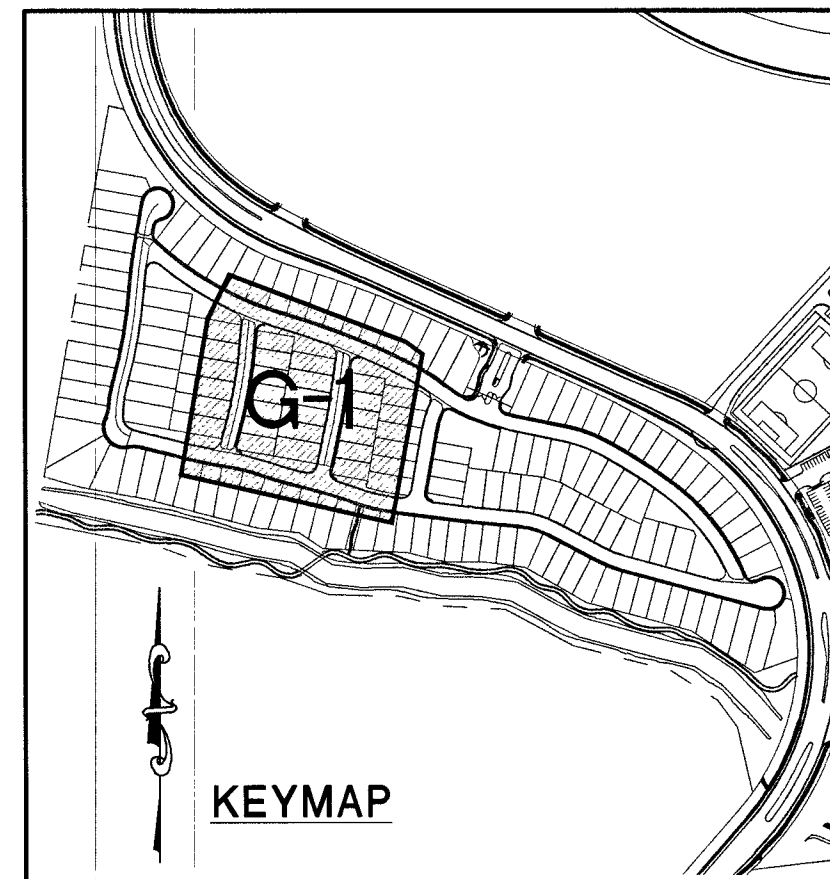
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS
REQUIRED BY CITY OF LAS VEGAS AND CLARK COUNTY UNIFORM
STANDARD DRAWING NUMBER 243. OWNER IS ALSO RESPONSIBLE TO
REPLACE ALL SURVEY MONUMENTATION DAMAGED, DESTROYED, OR
OBSCURED DURING CONSTRUCTION.

NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

1. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
2. SEE DETAIL SHEET FOR ON-SITE PAVEMENT SECTIONS. CONTRACTOR TO VERIFY WITH SOILS REPORT.
3. SEE FINAL MAP FOR EXACT PROPERTY LINE DIMENSIONS.
4. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
5. THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNING AGENCIES.
6. ALL GRADING SHALL CONFORM TO SOILS REPORT RECOMMENDATIONS.
7. DURING CONSTRUCTION, SURVEYORS AND CONTRACTORS MUST VERIFY THAT ALL STREET CORNERS HAVE POSITIVE DRAINAGE. SAME MUST UTILIZE AT LEAST THREE GRADES ON VERTICAL TANGENTS TO VERIFY SLOPES.
8. SOIL REPORT NOTE:
GRADING SHALL BE IN ACCORDANCE
WITH SOILS REPORT PREPARED BY:
ENGINEER: GEOFAX
PROJECT NO. 15755-LV
DATED: October 10, 2017
UPDATED: November 15, 2018
9. CUT/FILL ESTIMATES
EXISTING TO FINISH GRADE ELEVATIONS
NET CUT: 1.48 CY
NET FILL: 1.146 CY
10. SEE DETAIL 15/D-1 FOR TYPICAL LOT DRAINAGE
11. FOR STORMWATER RUNOFF MANAGEMENT NOTES REFER TO SHEET N-1

- 1 CONSTRUCT AC PAVEMENT PER DETAIL 1 ON SHEET D-1
- 2 CONSTRUCT 30" ROLL CURB PER SUMMERLIN IMPROVEMENT
- 3 STD DWG #S-48
- 3 CONSTRUCT 4' SIDEWALK PER CCAUSD #234
- 4 (6-INCH THICK WHEN CONTIGUOUS TO ROLL CURB)
- 4 EXISTING SIDEWALK RAMP PER BIXBY CREEK UNIT 1
- 5 EXISTING CROSS GUTTER PER BIXBY CREEK UNIT 1
- 6 REMOVE EXISTING RIP RAP
- 7 EXISTING SIDEWALK PER BIXBY CREEK UNIT 1

ALL PRIVATE STREETS ARE P.O.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.



REV	DESCRIPTION	BY	APPD	DATE
	DATE: July 15, 2019			
	HORIZ. SCALE: 1"=50'			
	VERT. SCALE: N/A			
	WM			
	DRAWN BY:			
	CEL			
	CHECKED BY:			
	CEL			
	CSE			
	APPROVED BY:			
	4320-0098			

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RCI *Engineering*
500 S. Rancho Drive, Suite 17, Las Vegas, NV 89106

IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24
BIXBY CREEK UNIT 3 (PARCEL K)
GRADING PLAN

PROFESSIONAL ENGINEER
CHRISTOPHER R. ZRINYI
Exp. 6/30/2020
CIVIL
No. 13976 YORK

DATE: **7-15-19**

DRAWING

G-1

SHT **3** OF **9**

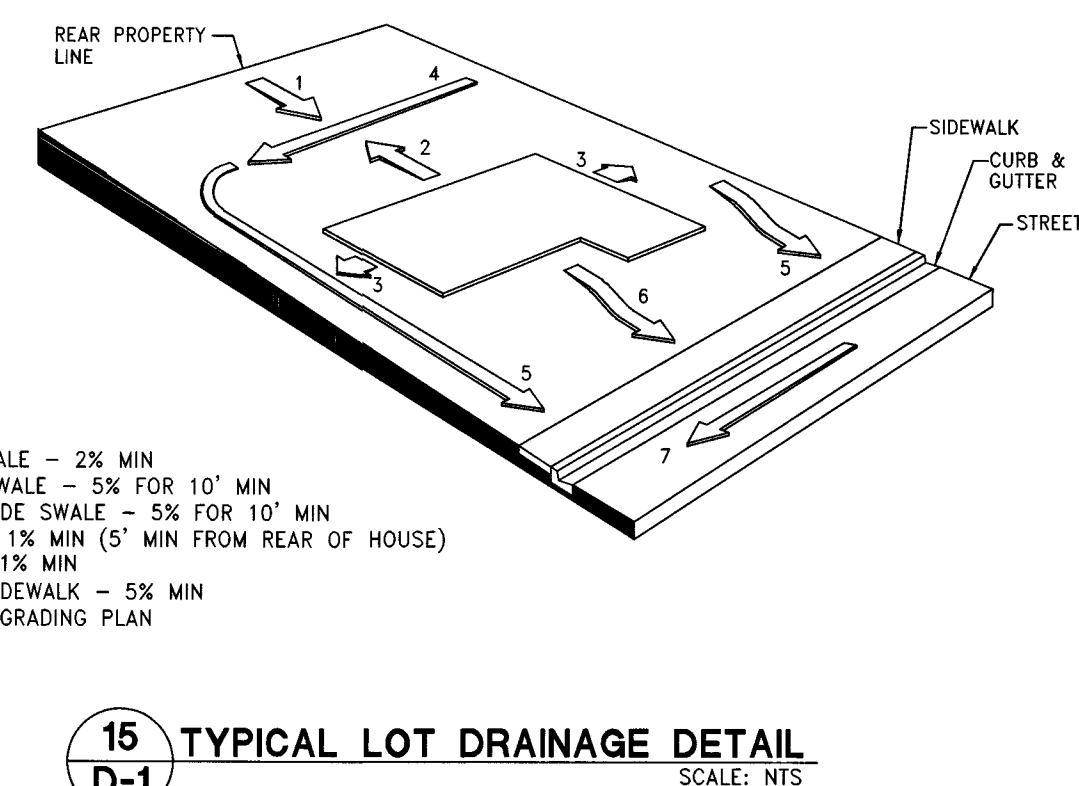
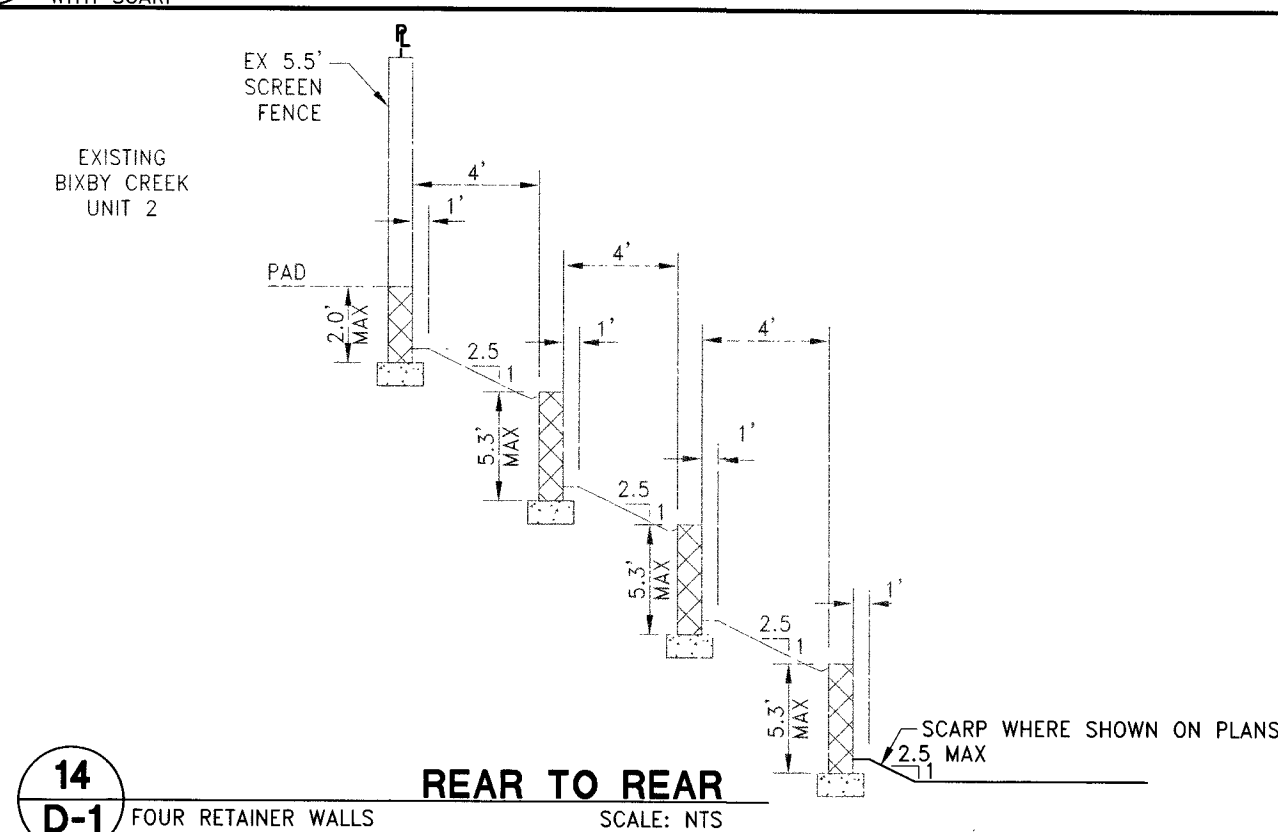
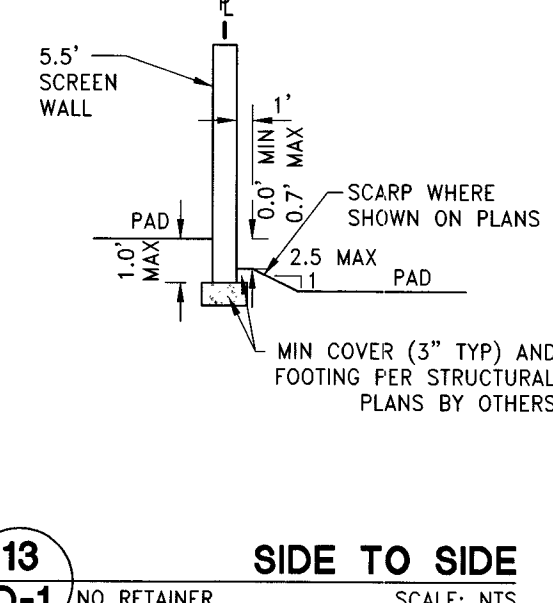
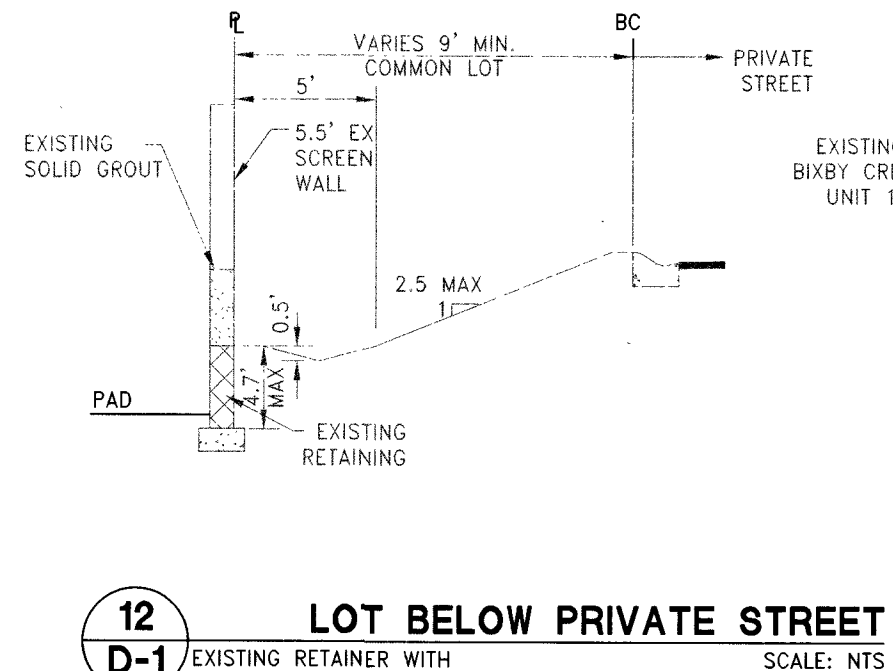
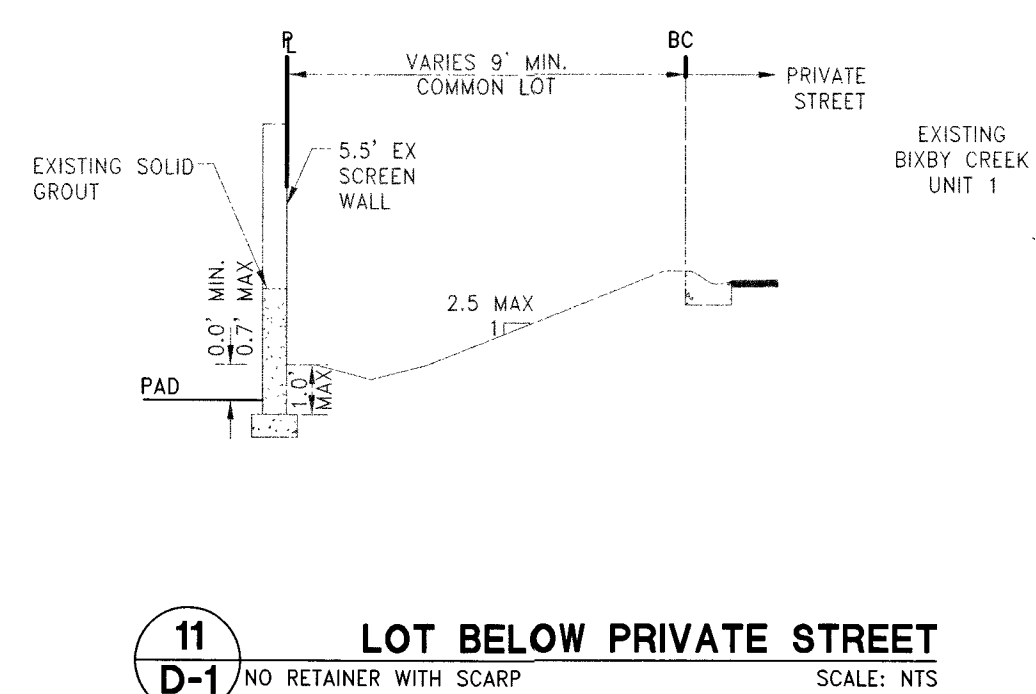
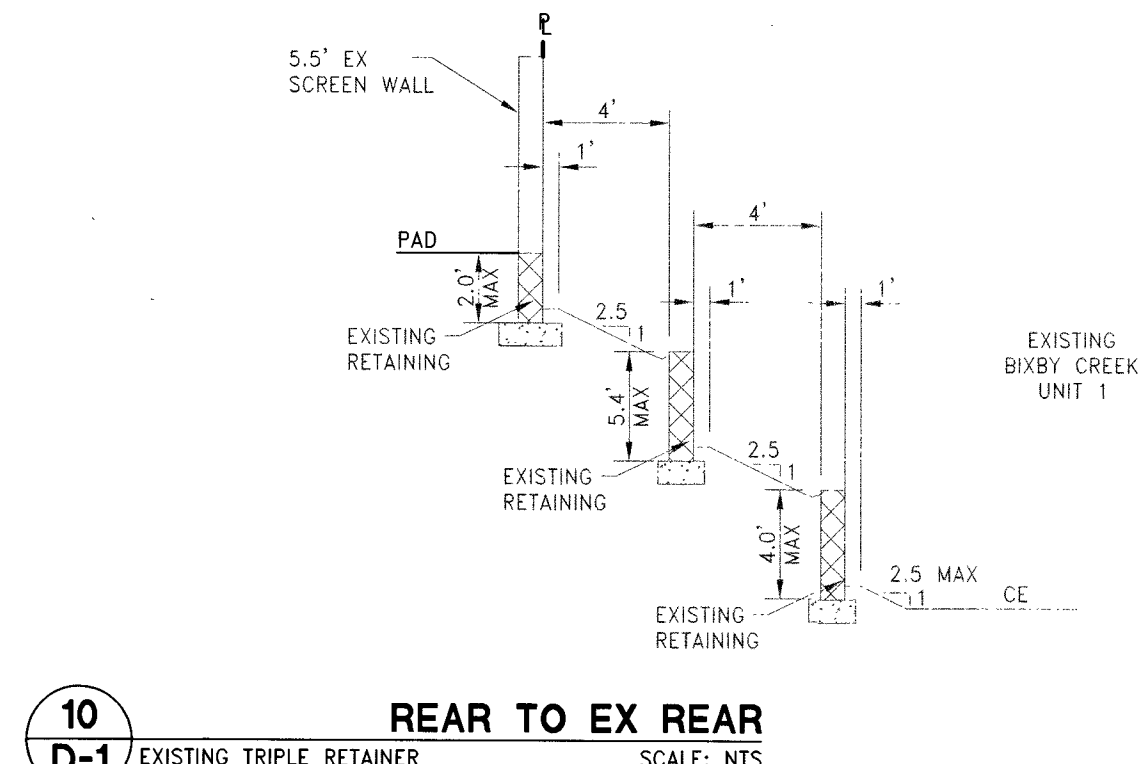
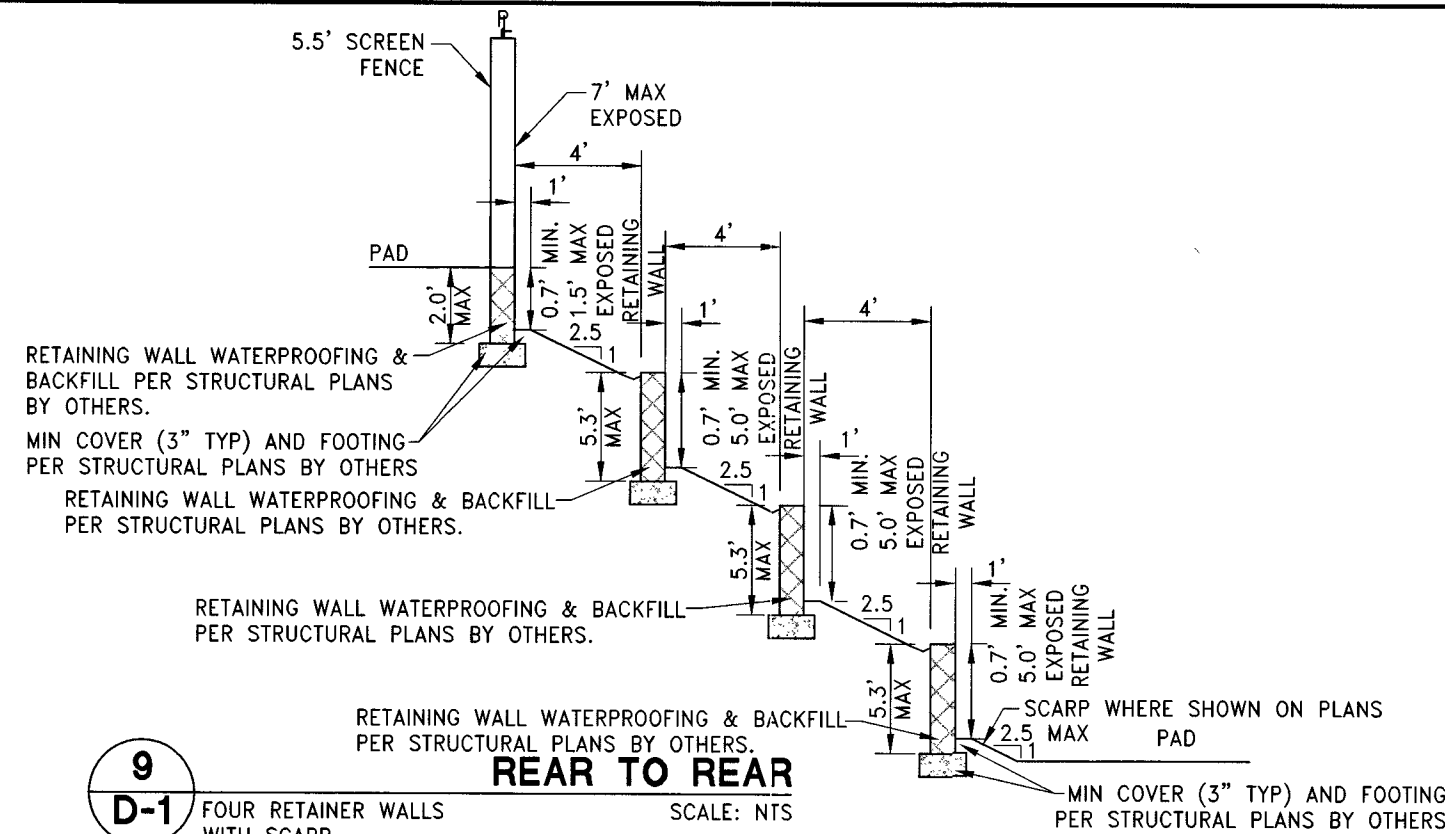
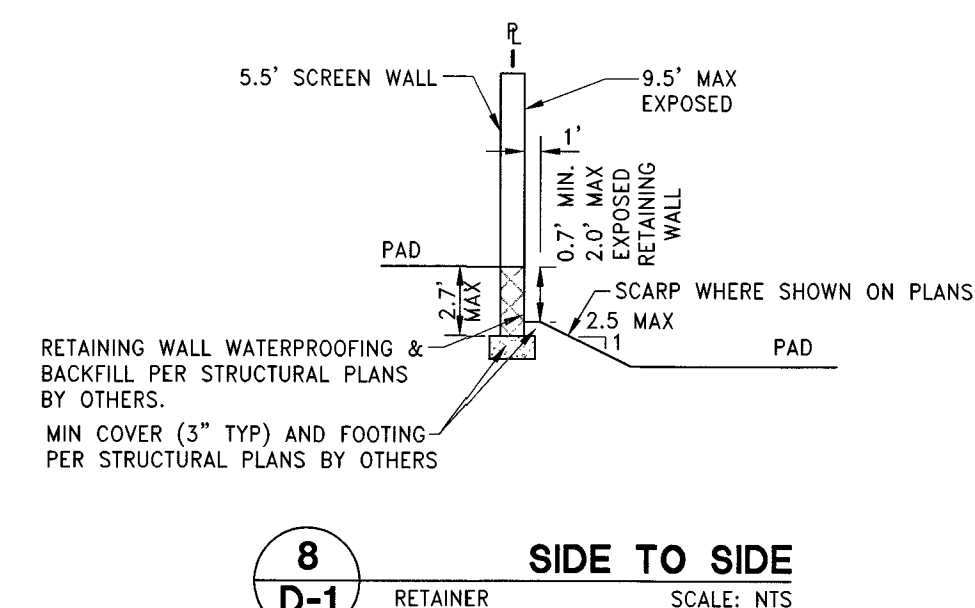
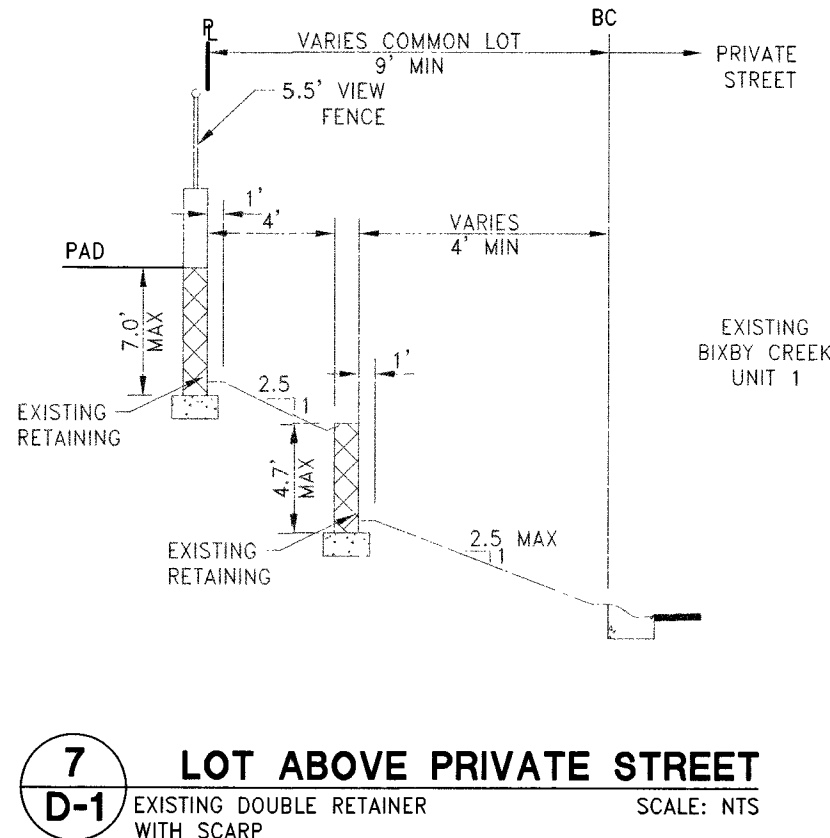
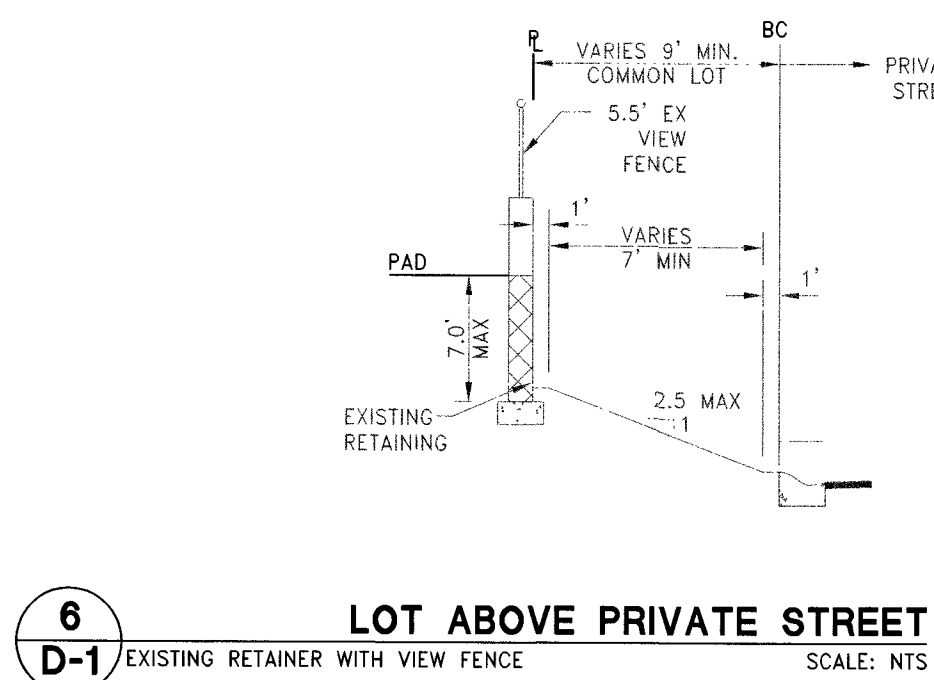
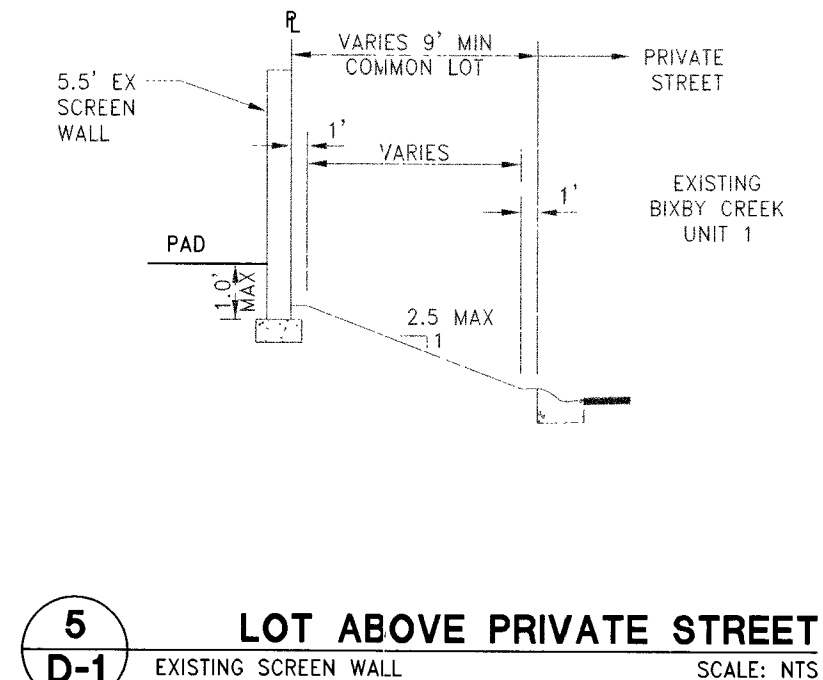
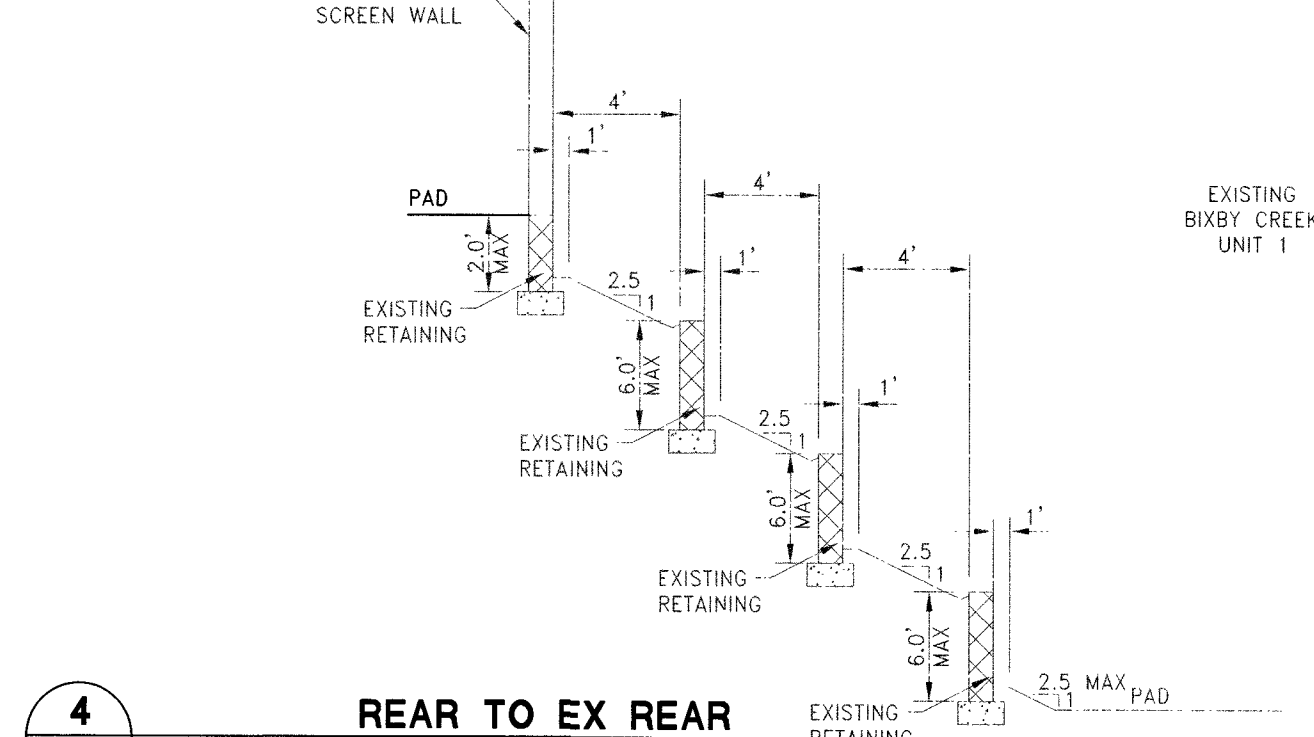
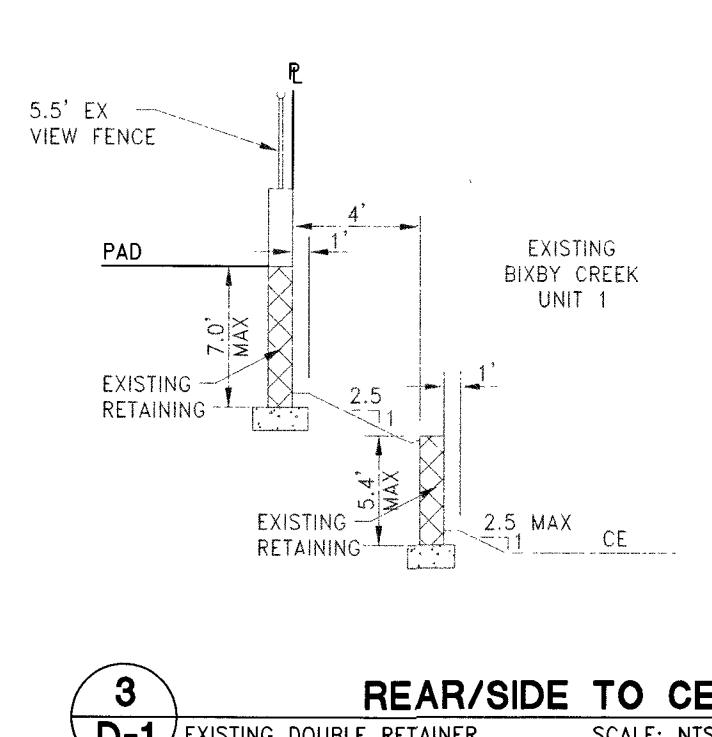
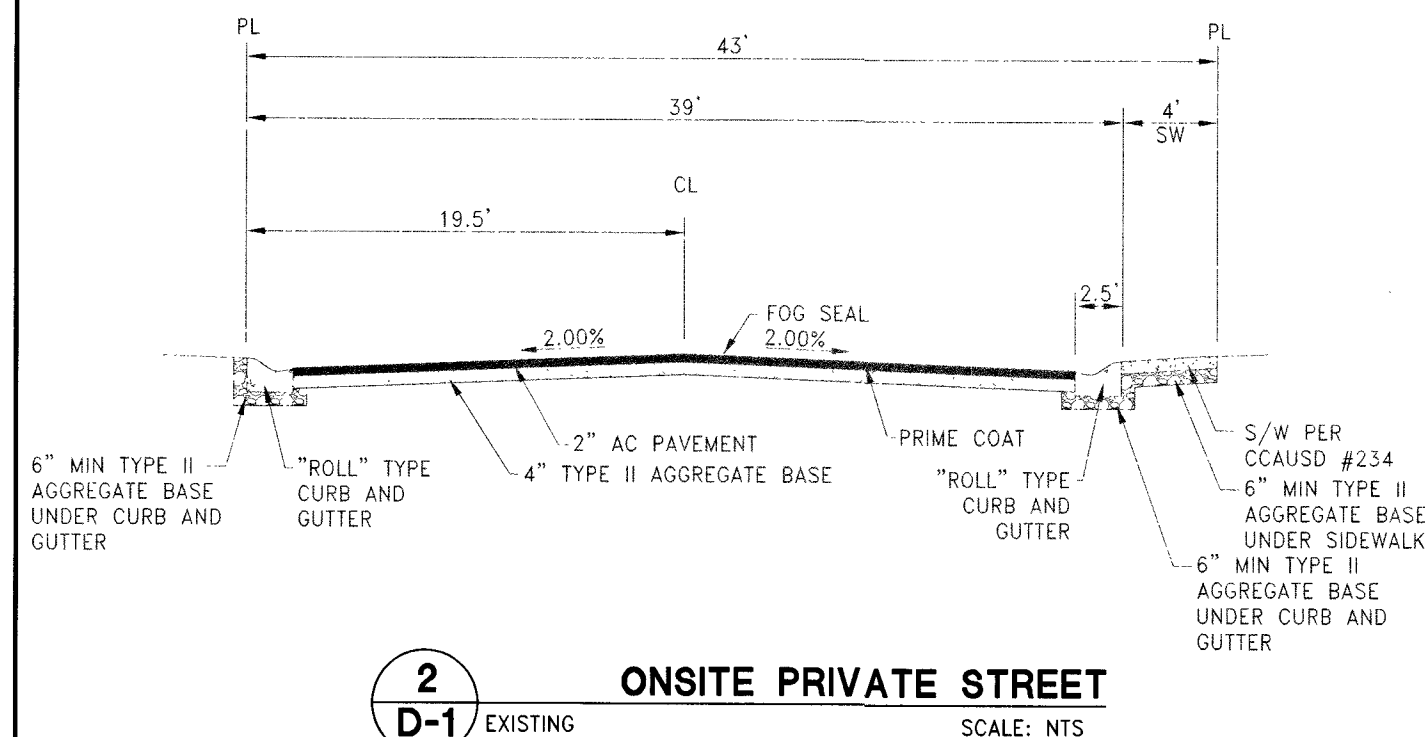
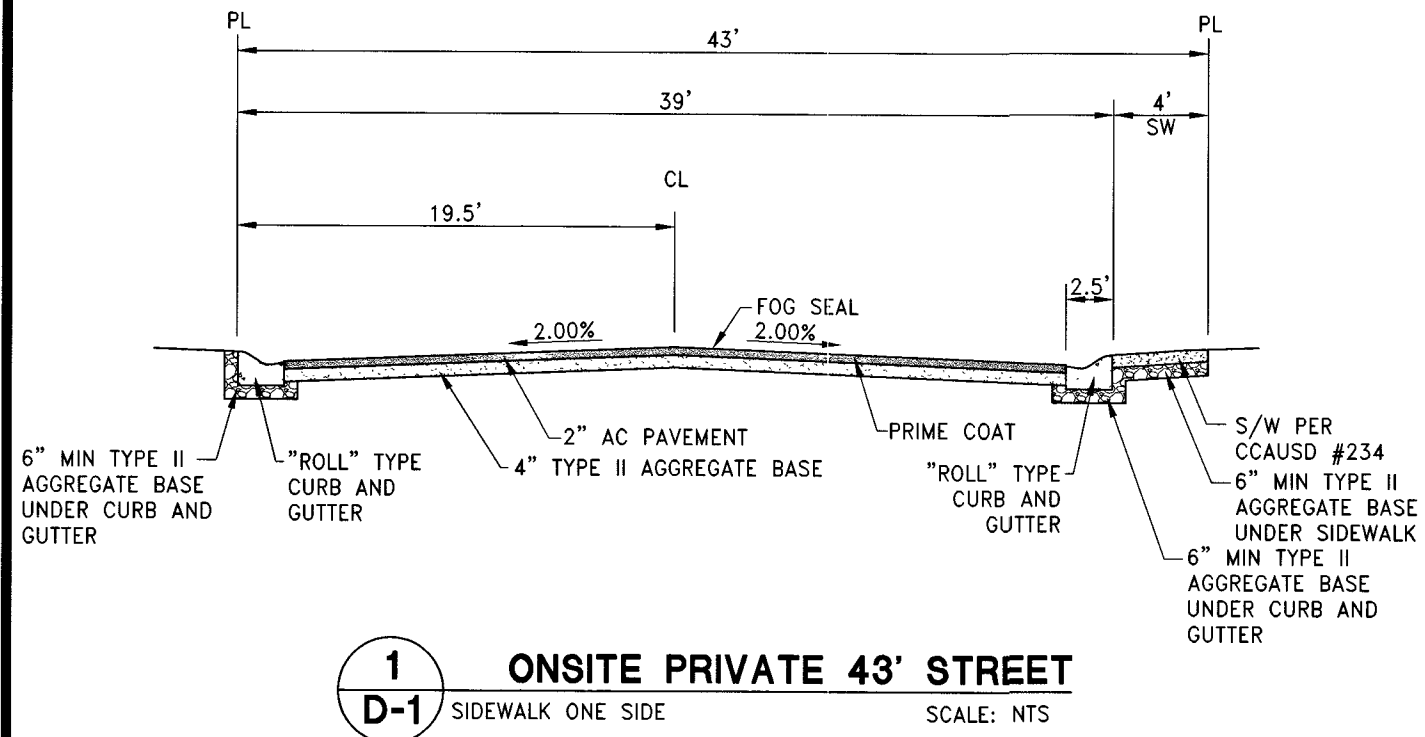
CLY DRAWING NUMBER
1075076-3

I HEREBY CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS #4942 ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

  7.15.19

CHRISTOPHER R. BRINLY, PE NO. 13976 DATE

ALL PRIVATE STREETS ARE PUE, PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.



GEOTECHNICAL NOTE:
A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE EXPLORATION AND TESTING.

WALL & SCARP NOTE:
1. CONTRACTOR TO CONSTRUCT ALL SCARP AND MAINTAIN PROPER COVER OVER AND FROM ALL WALL FOOTINGS PER THE SOILS REPORT REFERRED TO ON THE GRADING PLANS. REPORT ANY PROBLEMS IN DOING SO TO THE DEVELOPER AND THE ENGINEER IMMEDIATELY.
2. SCARP LESS THAN 1' VERTICAL NOT SHOWN ON PLANS.
3. ALL WALL ALIGNMENTS SHALL FOLLOW SIGHT VISIBILITY ZONE ALIGNMENT AND REMAIN OUTSIDE OF SIGHT VISIBILITY ZONE.

REV	DESCRIPTION	DATE
1	BY	DATE
2	BY	DATE
3	BY	DATE
4	BY	DATE
5	BY	DATE
6	BY	DATE
7	BY	DATE
8	BY	DATE
9	BY	DATE
10	BY	DATE
11	BY	DATE
12	BY	DATE
13	BY	DATE
14	BY	DATE
15	BY	DATE

DATE: JUL 15, 2019
HORIZ. SCALE: N/A
VERT. SCALE: N/A
DRAWN BY: WW
CHECKED BY: CRZ
DESIGNED BY: CRZ
APPROVED BY: CRZ
PROJECT #: 4320.0008

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RCI Engineering
500 S. Rancho Drive, Suite 17, Las Vegas, NV 89106
PH#702.452.0800 FAX#702.452.0801

NEVADA

IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24
BIXBY CREEK UNIT 3 (PARCEL K)

GRADING DETAILS

CITY OF LAS VEGAS
C:\4320-Woodside\0008_V24_PARCEL K_CIVIL_IPS\UNIT 3\0004_D-1.dwg aurbach 7/15/19 10:02am

PROFESSIONAL SEAL
CHRISTOPHER R. ZIRINTI
Exp. 6/30/2020
CIVIL
No. 13976

DATE: 7-15-19
DRAWING
D-1
SHT 4 OF 9
CLV DRAWING NUMBER
10775076-3
CLV PROJECT #L19-01015

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Call
811

FAST



Call
before you

UnderGround
1-702-432-5300

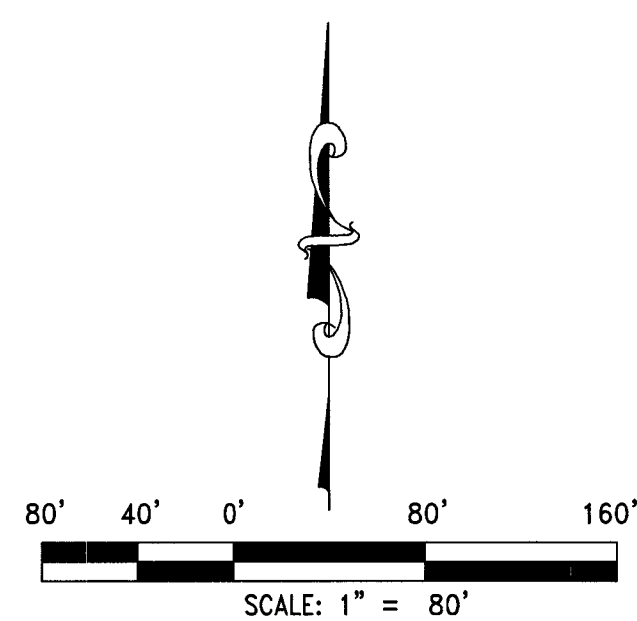
**FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION**

1-702-227-2929

CITY OF LAS VEGAS BENCHMARK CLVBM No. 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
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DR. NAVD 88 DATUM 3318.31 (FEET) NAVD 88 DATUM
1011.422 (METERS)

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SEWER MANHOLE TABLE						
MH #	STATION & OFFSET	RIM	INV IN	INV OUT	NORTHING	EASTING
32	10+36.64, 11.03' R	3537.5±		3531.60	516046.03	561626.11
33	13+48.50, 9.14' R	3534.3±	3520.78	(3520.58)	516354.19	561678.74
34	10+36.17, 9.68' R	3520.5±		3514.10	515979.86	561873.93
35	13+18.68, 4.76' R	3516.6±	3505.67	(3505.47)	516258.72	561918.84



SOUTHWEST GAS CORPORATION	
	8/22/19
SOUTHWEST GAS CORPORATION	DATE

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: Val [Signature] DATE: 7/16/19

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR
ANY APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE
OR COUNTY LAWS.

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO
OBTAINING FINAL APPROVAL FROM THE LVVMD.

FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136573 FIRST APPROVED DATE: 8/15/19

LVWMD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

NOTE:
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

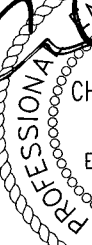
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IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24
BIXBY CREEK UNIT 3 (PARCEL K)

MASTER UTILITY PLAN



DATE: 7-15-19

DRAWING

MU-1

SHT **5** OF **9**

CLV DRAWING NUMBER
 107Y5076-3

CLV PROJECT #119-01015

Q:\4320_Woodside\0008_V24_PARCEL K\CIVIL\IPS\UNIT 3\300005_MU-1.dwg durbach 7/15/19 10:17am

O:\4320_Woodside\0008_V24 PARCEL PROJ#:136573A QS:137-33-NE

DISCLAIMER NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Call before you Dig
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OR
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1-702-432-5300
FREIGHTWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD
1-702-227-2929

BENCHMARK

CITY OF LAS VEGAS BENCHMARK CLVBM No. 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON DR. AND SKY VISTA
DR. NAVD 88 DATUM 3318.31 (FEET) NAVD 88 DATUM
1011.422 (METERS)

BASIS OF BEARINGS

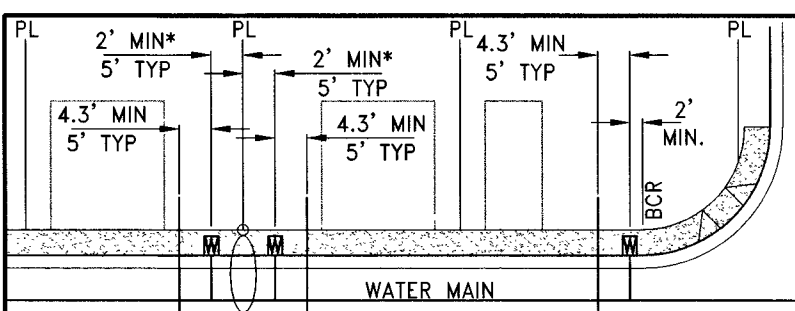
NORTH 05°50'55" WEST, BEING THE BEARING OF THE
WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE
59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY,
NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE
CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135
PAGE 71 OF PLATS.

BACKWATER VALVE

ALL LOTS WITH THIS SYMBOL REQUIRE
A BACKWATER VALVE

WASTEWATER FLOW CALCULATION

UNIT 1 CALCULATIONS:
102 ERU (102 LOTS) * 250 GPD = 0.0255 MGD
= 0.0255 * 3.5 = 0.08925 MGD PEAK
DESIGN FLOW (25% WET WEATHER ALLOWANCE)
DESIGN FLOW 0.08925 + 25% = 0.1116 MGD
UNIT 2 CALCULATIONS:
24 ERU (24 LOTS) * 250 GPD = 0.006 MGD
= 0.006 * 3.5 = 0.021 MGD PEAK
DESIGN FLOW (25% WET WEATHER ALLOWANCE)
DESIGN FLOW 0.021 + 25% = 0.0263 MGD
UNIT 3 CALCULATIONS:
25 ERU (25 LOTS) * 250 GPD = 0.00625 MGD
= 0.00625 * 3.5 = 0.021875 MGD PEAK
DESIGN FLOW (25% WET WEATHER ALLOWANCE)
DESIGN FLOW 0.021875 + 25% = 0.0273 MGD
TOTAL UNITS 1, 2 AND 3 = 0.1652 MGD



TYPICAL WATER AND SEWER LATERAL LOCATIONS

*MINIMUM SEPARATION OF 5-FOOT REQUIRED FROM STREET LIGHT CENTER TO WATER METER BOX CENTER

UTILITY LATERAL NOTE:

WATER AND SEWER LATERAL
STATIONS SHOWN ON THIS PLAN
SET ARE CALCULATED AT THE BACK
OF CURB

NOTE:

ALL ABOVE GROUND UTILITY
APPEARANCES SHALL CONFORM
TO THE REQUIREMENTS OF TITLE
19.06 AND 19.08.

NOTE:
LVVWD CANNOT GUARANTEE A WATER TIGHT SHUTDOWN WHERE CONNECTIONS
OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL
ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING
WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR
TO ANY TRIAL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER
SHUTDOWN IN THE EVENT NO OTHER APPEARANCES ARE AVAILABLE.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
- MAINTAIN MINIMUM 3" PARALLEL SEPARATION.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OR COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

EXISTING UTILITY NOTE:

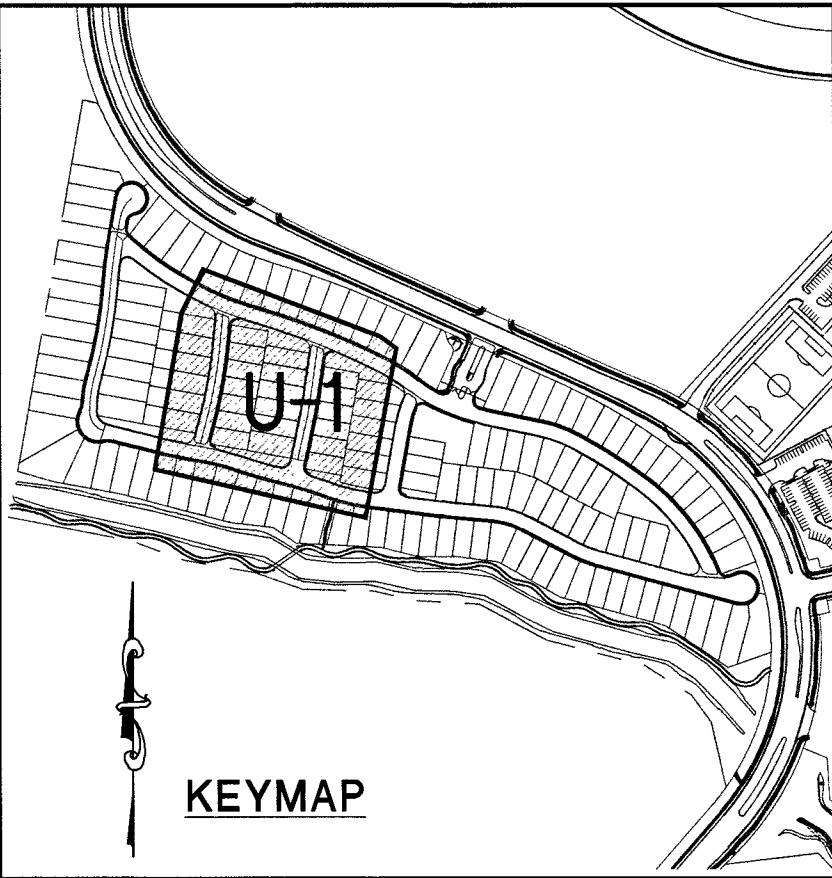
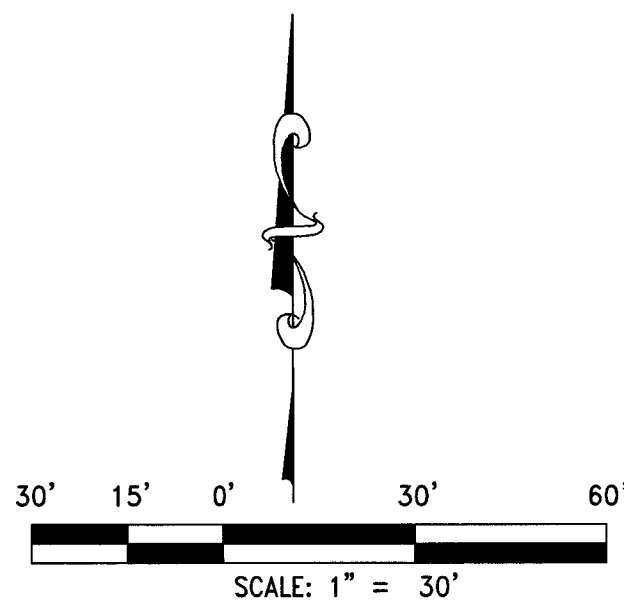
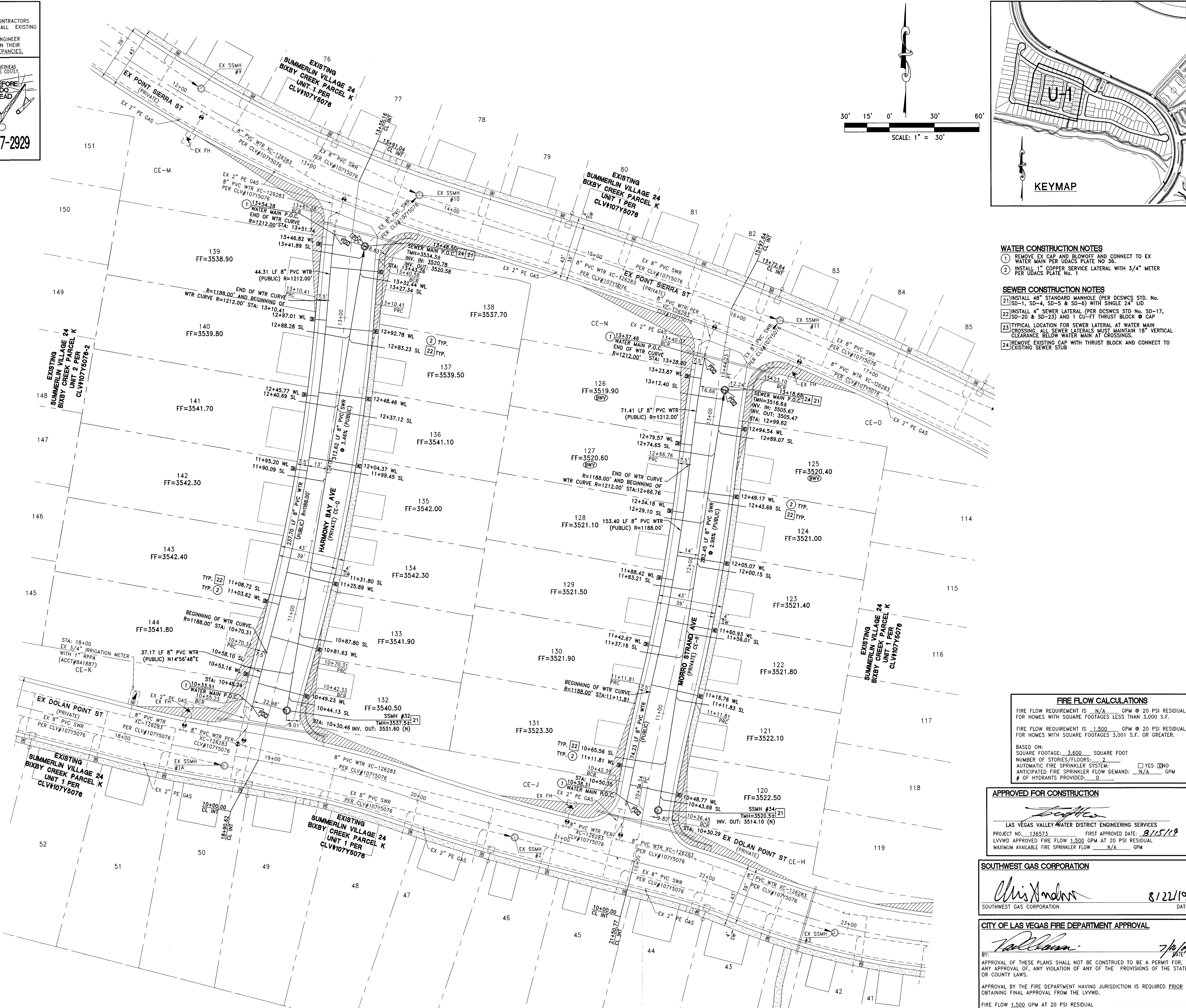
1. EXISTING UTILITIES AS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY BOTH VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN INCORRECTLY OR OTHERWISE NOT SHOWN.

NOTES:

1. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
2. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
3. ALL WATER PIPE DIMENSIONS SHOWN ARE GIVEN FROM FITTING TO FITTING AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSION PRIOR TO CONSTRUCTION.
4. HORIZONTAL OFFSET DIMENSIONS SHOWN ARE BASED ON WATER MAIN CENTERLINE TO STORM DRAIN AND OR SEWER OUTSIDE EDGE OF PIPE AND OR MANHOLE.

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

NOTE:
INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15



WATER CONSTRUCTION NOTES

1. REMOVE EX CAP AND BLOWOFF AND CONNECT TO EX WATER MAIN PER UDACS PLATE NO. 36.
2. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE NO. 1.

SEWER CONSTRUCTION NOTES

1. INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1, SD-4, SD-5 & SD-6) WITH SINGLE 24" LID.
2. INSTALL 4" SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-20 & SD-23) AND 1" CU-FT THRUST BLOCK @ CAP.
3. TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 18" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
4. REMOVE EXISTING CAP WITH THRUST BLOCK AND CONNECT TO EXISTING SEWER STUB.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS N/A GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES LESS THAN 3,000 S.F.
FIRE FLOW REQUIREMENT IS 1,500 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES 3,001 S.F. OR GREATER.
BASED ON:
SQUARE FOOTAGE: 3,600 SQUARE FOOT
NUMBER OF STORIES/FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: N/A GPM
OF HYDRANTS PROVIDED: 0

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136573 FIRST APPROVED DATE: 8/15/19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

SOUTHWEST GAS CORPORATION

Chris Anderson
SOUTHWEST GAS CORPORATION
DATE: 8/22/19

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

Vallejos
DATE: 7/16/19
BY: Vallejos
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR ANY APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

DATE: JUL 15, 2019 TIME: 11:50
HORIZ. SCALE: N/A
VERT. SCALE: N/A
DRAWN BY: WW
DESIGNED BY: CR
CHECKED BY: CRZ
APPROVED BY: 4320.0008
PROJECT #:

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RCI Engineering
500 S. Rancho Drive, Suite 17, Las Vegas, NV 89106
PHF702.453.0800 FAX702.453.0801

IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24
BIXBY CREEK UNIT 3 (PARCEL K)
UTILITY PLAN

CITY OF LAS VEGAS
PHF702.453.0800 J-1.dwg durbach 7/15/19 10:18am
CITY OF LAS VEGAS
PHF702.453.0800 J-1.dwg durbach 7/15/19 10:18am

DATE: 7-15-19
DRAWING
U-1
SHEET 6 OF 9
CLV DRAWING NUMBER
107Y5076-3
CLV PROJECT # L19-01015

PROJ# 136573A QS-137-33-NE

DISCLAIMER NOTE:

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OR

1-800-227-2600

Call before you UnderGround

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Call 1-702-432-5300

1-702-227-2929

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

NOTE:
INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15

BENCHMARK

CITY OF LAS VEGAS BENCHMARK CLVBM NO. 7LV09 345W6 RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR. NAVD 88 DATUM 3318.31 (FEET) NAVD 88 DATUM 1011.422 (METERS)

BASIS OF BEARINGS

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135 PAGE 71 OF PLATS.

DEPTH OF COVER DURING CONSTRUCTION

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

CONSTRUCTION NOTES

1. CONSTRUCT AC PAVEMENT PER DETAIL 1 ON SHEET D-1
2. CONSTRUCT 30" ROLL CURB PER SUMMERLIN IMPROVEMENT SD-10 & SD-11
3. CONSTRUCT 4" SIDEWALK PER CCAUSD #234 (6-INCH THICK WHEN CONTIGUOUS TO ROLL CURB)
4. EXISTING SIDEWALK RAMP PER BIXBY CREEK UNIT 1
5. EXISTING CROSS GUTTER PER BIXBY CREEK UNIT 1
6. REMOVE EXISTING RIP RAP
7. EXISTING SIDEWALK PER BIXBY CREEK UNIT 1

SEWER CONSTRUCTION NOTES

21. INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1, SD-4, SD-5 & SD-6) WITH SINGLE 24" LID
22. INSTALL 4" SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-20 & SD-23) AND 1 CU-FT THRUST BLOCK @ CAP
23. TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 18" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
24. REMOVE EXISTING CAP WITH THRUST BLOCK AND CONNECT TO EXISTING SEWER STUB

CURVE TABLE					
CURVE #	DELTA	RADIUS	LENGTH	TANGENT	"A" "B"
C15	1°03'14"	1219.50'	22.43'	11.22'	- -
C16	2°25'38"	1180.50'	50.01'	25.01'	- -
C17	1°58'24"	1219.50'	42.00'	21.00'	- -
C18	1°26'25"	1180.50'	29.68'	14.84'	- -
C19	1°27'50"	1219.50'	244.00'	122.41'	- -
C20	1°20'09"	1180.50'	27.52'	13.76'	- -

SOUTHWEST GAS CORPORATION

Chris Anderson 8/22/19

SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136573 FIRST APPROVED DATE: 8/15/19

DATE: JULY 15, 2019

HORIZ. SCALE: 1"=30'

VERT. SCALE: 1"=5'

DRAWN BY: WW

DESIGNED BY: CR

CHECKED BY: CRZ

APPROVED BY: CRZ

PROJECT #: 4320.008

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IMPROVEMENT PLANS FOR

SUMMERLIN VILLAGE 24

BIXBY CREEK UNIT 3 (PARCEL K)

PLAN AND PROFILE

HARMONY BAY AVE STA: 9+50.00 - 14+50.00

CITY OF LAS VEGAS

DATE: 7-15-19

DRAWING

P-1

SHT 7 OF 9

CLV DRAWING NUMBER

1075076-3

CLV PROJECT #119-01015

PROJ#136573A QS:137-33-NE

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CITY OF LAS VEGAS BENCHMARK CLVBM No. 7LV09 34SW6
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DR. NAVD 88 DATUM 3318.31 (FEET) NAVD 88 DATUM
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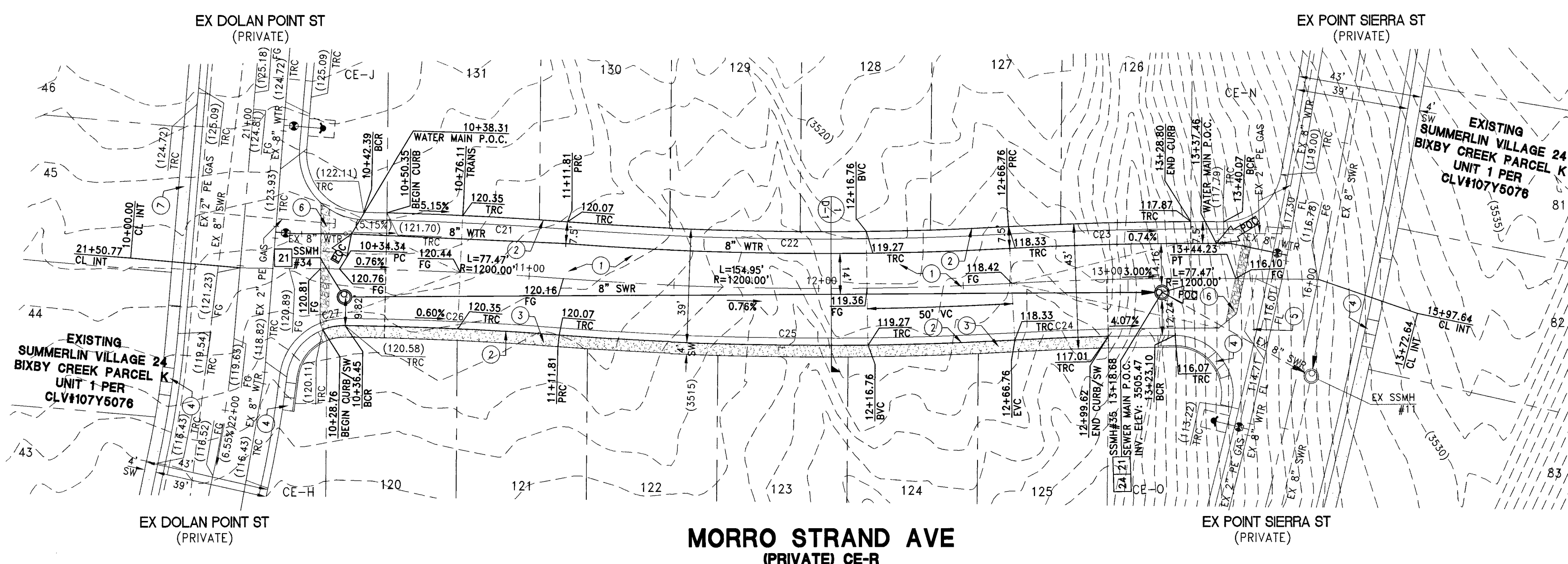
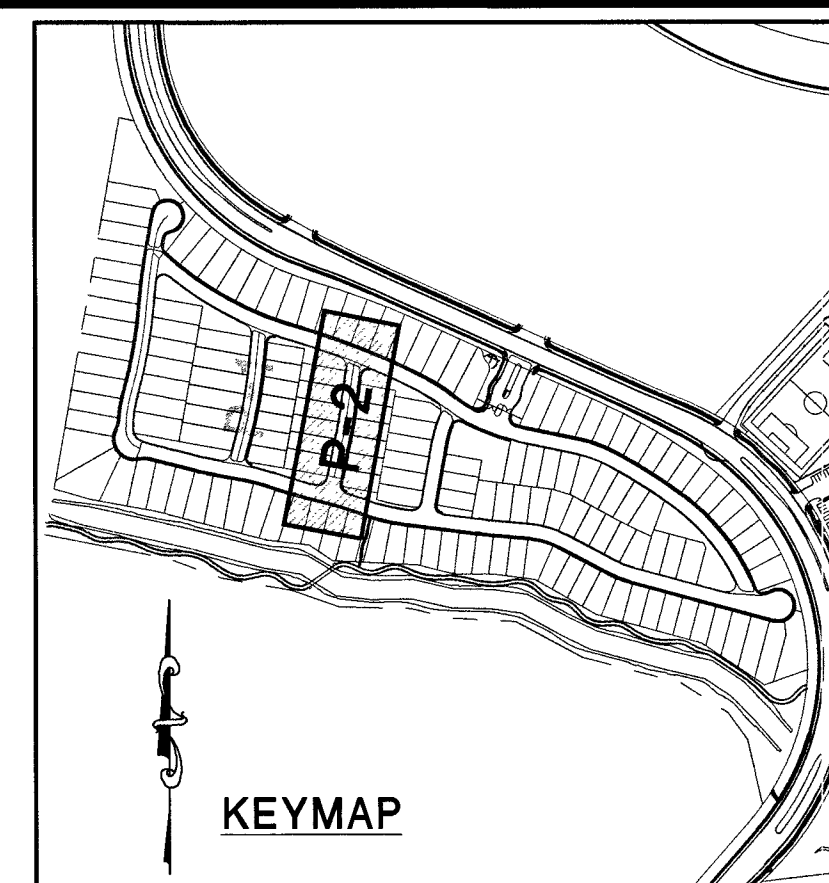
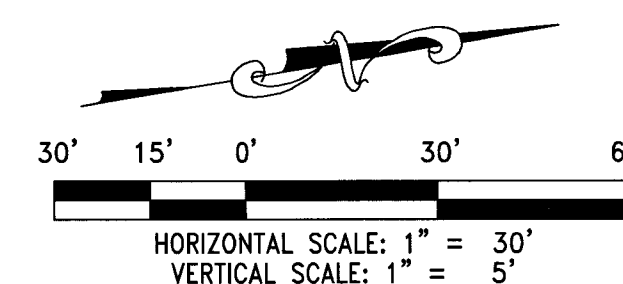
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- ① CONSTRUCT AC PAVEMENT PER DETAIL 1 ON SHEET D-1
- ② CONSTRUCT 30" ROLL CURB PER SUMMERLIN IMPROVEMENT STD DWG #S-48
- ③ CONSTRUCT 4' SIDEWALK PER CCAUSD #234 (6-INCH THICK WHEN CONTIGUOUS TO ROLL CURB)
- ④ EXISTING SIDEWALK RAMP PER BIXBY CREEK UNIT 1
- ⑤ EXISTING CROSS GUTTER PER BIXBY CREEK UNIT 1
- ⑥ REMOVE EXISTING RIP RAP
- ⑦ EXISTING SIDEWALK PER BIXBY CREEK UNIT 1

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CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	TANGENT	"A"	"B"
C21	2°28'44"	1219.50'	52.76'	26.38'	-	-
C22	2°11'04"	1180.50'	45.01'	22.51'	-	-
C23	2°06'55"	1219.50'	45.02'	22.51'	-	-
C24	1°34'09"	1180.50'	32.33'	16.16'	-	-
C25	7°23'53"	1180.50'	157.46'	78.84'	-	-
C26	3°36'40"	1219.50'	74.40'	37.21'	-	-



Chris Anderson
SOUTHWEST GAS CORPORATION

8/22/11

PROJECT NO. 136573

SERVICES
E: 8/15/14

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IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24

BIXBY CREEK UNIT 3 (PARCEL K)

MORRO STRAND AVE STA: 9+50.00 -14+50.00
F LAS VEGAS NEVADA
dwg durbach 7/15/19 10:21am

DATE: 7-15-19

DRAWING
P-2

SHT 8 OF 9
CLV DRAWING NUMBER
107Y5076-3
CLV PROJECT #119-0101

GET PROVED! 2000-2001

Q:\4320_Woodside\0008_V24_PARCEL K\CIVIL\IPS\UNIT 3\50007_P-2.dwg durbach 7/15/19 10:21am

PROJ#:136573A QS:137-33-NE

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FAST

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FREeway and ARTERIAL

BENCHMARK

CITY OF LAS VEGAS BENCHMARK CLVBM No. 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
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SIGNS

1 - INSTALL 1-30" R1-1 STOP SIGN AND 2-9" STREET NAME SIGNS PER CCAUSD No. 250
NOTE: PRIVATE STREET SIGNS SHALL BE BROWN BACKGROUND WITH WHITE LETTERS AND
ADDITIONAL LETTERING STATING "PRIVATELY MAINTAINED" IN LOWER RIGHT HAND
CORNER OF SIGN

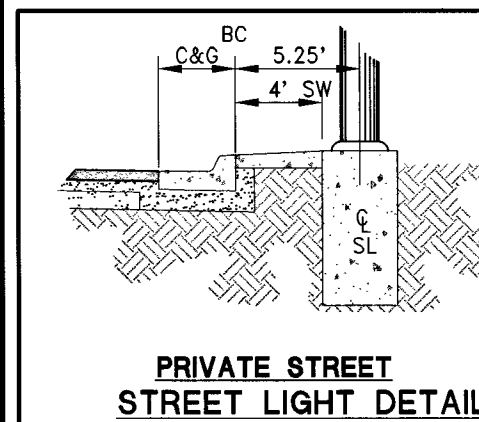
2 - REMOVE TYPE IIIA END OF ROAD BARRICADES PER CCAUSD No. 601 (2 OF 2)

30	- INSTALL TYPE 3B STREET LIGHT PER SUMMERLIN IMPROVEMENT STD. #E-1 AND E-2
31	- INSTALL 1-1/4" PVC STREETLIGHT CONDUIT WITH 2-NO. 4 AND 1-NO. 8 GND THW
32	- REMOVE 1 1/4" PVC STREET LIGHT CONDUIT CAP AND CONNECT TO EXISTING CONDUIT
33	- EXISTING STREET LIGHT
34	- EXISTING 1 1/4" PVC STREET LIGHT CONDUIT

STOP
R1-1

N Main ST 400
12" (MAJOR STREETS)

N Main ST 400
9" (MINOR STREETS)



STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR PRIVATE CIRCUIT "A"			
CAPACITY CALCULATIONS			
1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	33	AMPS
4	AVAILABLE (2 MINUS 3)	15	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:			
5	4 NUMBER OF 55 WATT STLT'S @ 1.0 AMPS/EA	4	AMPS
6	0 NUMBER OF 150 WATT STLT'S @ 1.25 AMPS/EA	0	AMPS
7	0 NUMBER OF 250 WATT STLT'S @ 1.5 AMPS/EA	0	AMPS
8	TOTAL PROPOSED ADDITIONAL LOAD (5+6+7)	4	AMPS
REMAINING AVAILABLE LA LOAD (4 MINUS 8)		11	AMPS

BY: *[Signature]* DATE: 7/6/19

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR
PROTECTION FROM, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE
OR COUNTY LAWS.

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO
OBTAINING FINAL APPROVAL FROM THE LVVWD.

FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

SIGHT VISIBILITY ZONE & LINE TABLE		
LINE #	BEARING	LENGTH
L1	S88°35'18"E	55.80'
L2	N57°04'23"E	3.80'
L3	N22°07'13"E	80.89'
L4	N80°04'13"W	6.71'
L5	N75°30'16"W	2.18'
L6	S5°48'23"W	60.09'
L7	S31°40'48"E	8.03'
L8	S62°22'16"E	77.39'
L9	N70°56'19"W	2.50'
L10	N75°30'16"W	12.09'
L11	S84°12'43"E	60.84'
L12	N57°29'12"E	8.07'
L13	N19°13'00"E	76.66'
L14	S1°44'23"W	60.43'
L15	S31°45'22"E	3.83'
L16	S63°47'00"E	81.55'
L17	S16°31'56"W	60.84'
L18	N75°47'28"W	53.47'
L19	S60°59'51"W	12.50'
L20	N62°32'00"W	74.06'
L21	N0°31'24"E	70.31'
L22	N29°53'27"W	1.32'
L23	S72°37'33"E	41.44'
L24	N80°59'54"W	58.63'
L25	S57°01'52"W	12.06'
L26	S13°16'04"W	66.18'
L27	N5°14'37"W	85.82'
L28	N21°10'54"W	72.65'

SIGHT VISIBILITY ZONE CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C1	1°54'10"	1180.50'	39.21'	19.62'
C2	1°36'32"	1219.50'	34.25'	17.10'
C3	85°42'48"	20.00'	29.92'	18.56'
C4	4°33'57"	500.00'	39.84'	19.93'
C5	1°14'23"	1219.50'	26.39'	13.19'
C6	0°25'39"	1150.00'	8.58'	4.29'
C7	6°54'38"	500.00'	60.31'	30.83'
C8	9°22'01"	500.00'	32.23'	20.63'
C9	1°20'09"	1180.50'	27.52'	13.76'
C10	3°18'59"	1219.50'	70.59'	35.30'
C11	94°01'04"	20.00'	32.82'	21.45'
C12	0°16'36"	1189.00'	5.75'	2.88'
C13	1°50'48"	1150.00'	37.07'	18.54'
C14	4°21'58"	465.25'	35.49'	17.75'
C15	5°59'59"	369.50'	38.69'	19.36'
C16	83°54'02"	20.00'	29.29'	17.88'
C17	2°34'26"	1180.50'	53.03'	26.52'
C18	0°02'21"	1219.50'	0.83'	0.42'
C19	2°14'24"	1180.50'	55.42'	27.72'
C20	103°49'36"	20.00'	36.24'	25.52'
C21	1°33'20"	1809.50'	49.13'	24.57'
C22	2°05'02"	1809.50'	65.81'	32.91'
C23	79°34'16"	20.00'	27.78'	16.65'
C24	2°55'50"	1219.50'	62.37'	31.19'
C25	102°27'32"	20.00'	35.76'	24.30'
C26	0°53'12"	818.50'	12.66'	6.33'
C27	1°29'12"	1219.50'	31.64'	15.82'
C28	1°26'25"	1180.50'	29.68'	14.84'
C29	3°27'29"	891.50'	53.81'	26.91'
C30	1°38'45"	818.50'	23.51'	11.76'
C31	72°57'01"	20.00'	25.46'	14.79'
C32	2°26'02"	1219.50'	51.80'	25.90'
C33	0°36'13"	1180.50'	12.44'	6.22'

[illegible]

DATE: <u>July 15, 2019</u>
HORIZ. SCALE: <u>1"=30'</u>
VERT. SCALE: <u>N/A</u>
DRAWN BY: <u>WW</u>
DESIGNED BY: <u>CR</u>
CHECKED BY: <u>CRZ</u>
APPROVED BY: <u>CRZ</u>
PROJECT #: <u>4320.0008</u>

 **Woodside Homes®**
BETTER BY DESIGN

RCI *Engineering*

500 S. Rancho Drive, Suite 17, Las Vegas, NV 89106
PH:702.453.0800 FAX:702.453.0801

IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24
 BY CREEK UNIT 3 (PARCEL K)
 SIGNAGE AND STRIPING PLAN

CITY OF LAS VEGAS
BIX



 CHRISTOPHER R.

 ZIRINYI

 Exp. 6/30/2020

 CIVIL

 No. 13976

 STATE OF NEW YORK

 DEPARTMENT OF TRANSPORTATION

DATE: **7-15-19**

DRAWING

S-1

SHT **9** OF **9**

CLV DRAWING NUMBER

 1075076-3

 CLV PROJECT NO. 18-01015

01-4320 Woodside\0008 V2A PARCEL K CIVIL IPS UNIT 3\S00008 S-1.dwg durbach 7/15/19 10:22am
C:\I\T\EA3 VL0A3

MATCHLINE A - SEE SHEET 2



LEGEND	
1	INSTALL B-36 PULL BOX (24"x36"x24")
2	EXISTING B-36 PULL BOX (24"x36"x24")
3	INSTALL B-50 PULL BOX (13"x24"x24")
4	EXISTING B-50 PULL BOX (13"x24"x24")
5	INSTALL B-100 PULL BOX (24"x36"x24")
6	EXISTING B-100 PULL BOX (24"x36"x24")
7	INSTALL T-200 CATV VAULT (30"x48"x36")
8	EXISTING T-200 CATV VAULT (30"x48"x36")
9	INSTALL T-400 CATV VAULT (36"x60"x36")
10	EXISTING T-400 CATV VAULT (36"x60"x36")
11	INSTALL T-600 CATV VAULT (48"x72"x36")
12	EXISTING T-600 CATV VAULT (48"x72"x36")
13	INSTALL NEW CATV PEDESTAL
14	EXISTING CATV PEDESTAL
15	R&R S/W SLAB(S)
16	POTHOLE
17	SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18	ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19	PROPOSED BORE WITH FIBER/COAX PULL
20	EXISTING CATV CONDUIT(S)
21	PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22	EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23	U.G. FIBER/COAX PULL THROUGH EXISTING CONDUIT
24	RIGHT OF WAY LINE
25	LOT/PROPERTY LINE
26	EDGE OF PAVEMENT/ SIDEWALK/CONCRETE
27	EXISTING NVE PULL BOX
28	EXISTING TELCO PULL BOX
29	EXISTING COMMUNICATION MANHOLE
30	EXISTING TELCO POLE
31	EXISTING NVE POLE
32	EXISTING NVE TRANSMISSION POLE
33	EXISTING JOINT POLE
34	EXISTING JOINT POLE WITH TRANSFORMER
35	POLE ANCHOR
36	EXISTING NVE TRANSFORMER TRANSFORMER PAD
37	SNWA TEST STATION
38	COX POWER SUPPLY (49"x24"x52")
39	CABINET (RHINO,ODN,OLM)
40	RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41	RAILROAD
42	EXISTING MANHOLE (SS),(SD)...ECT
43	1in CONDUIT LATERAL
44	STORMWATER ASSETS

DISCLAIMER NOTE

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

BEFORE YOU DIG

OR 1-800-227-2600

UNDERGROUND SERVICE (USA)

CALL BEFORE YOU OVERHEAD

1-702-227-2629

NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

AVOID OVERHEAD POWER LINE CONTACT

BEFORE YOU UNDERGROUND

1-702-453-7611

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-453-8300

LAS VEGAS AREA COMPUTERIZED SYSTEM

BEFORE YOU UNDERGROUND

1-702-453-7611

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-453-8300

LAS VEGAS AREA COMPUTERIZED SYSTEM

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

T20S R59E SEC33

W LAKE MEAD BLVD

SUMMIT PKWY

W CHARLESTON BLVD

W SAHARA AVE

VICINITY MAP

REVISIONS			
REV	DESCRIPTION	DATE	BY

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; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

APPROVED FOR CONSTRUCTION

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APPROVAL: *Shawn Butts* DATE: 9/12/19

PERMIT #	RB-1261
DRAWN BY:	WTB
DATE:	7/25/2019
SCALE:	1" = 30'
MODE:	N/A
PROJECT #:	405051800000RB12611
TECH #	N/A
APPROVED BY:	JASON COLLINS

COX

BRINGING US CLOSER

1700 VEGAS DRIVE

LAS VEGAS, NEVADA 89106

PHONE: (702) 545-1006

FAX: (702) 545-2606

CITY OF LAS VEGAS

333 N. RANCHO DRIVE

LAS VEGAS, NEVADA 89106

(702) 229-6885

PROJECT LOCATION:

SV24 BIXBY CREEK UNIT 2 & 3

SUB-CONTRACTOR:

CROSSBRIDGE DR & BIXBY BRIDGE AVE

DBA: COX COMMUNICATIONS

ENTITY NOTES: NONE

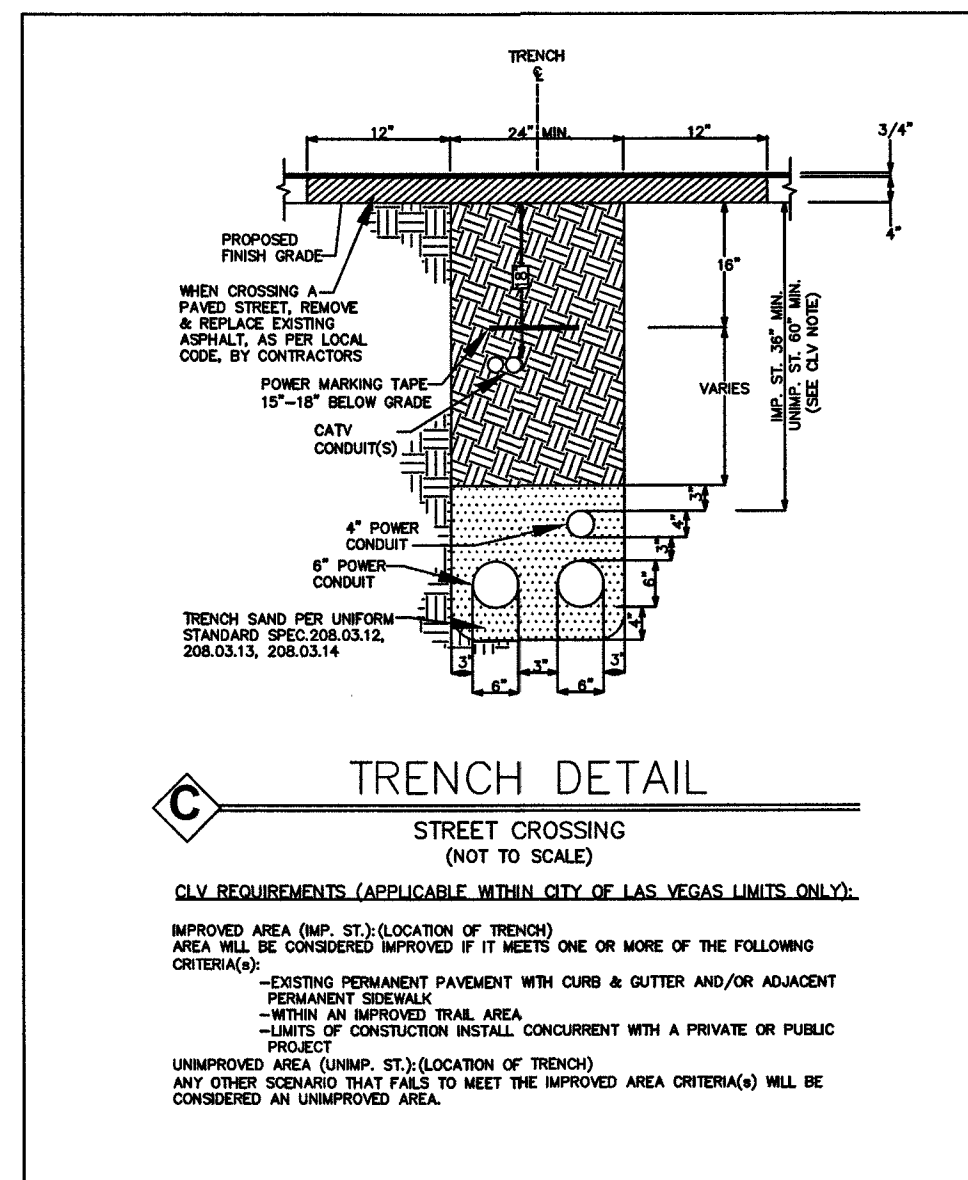
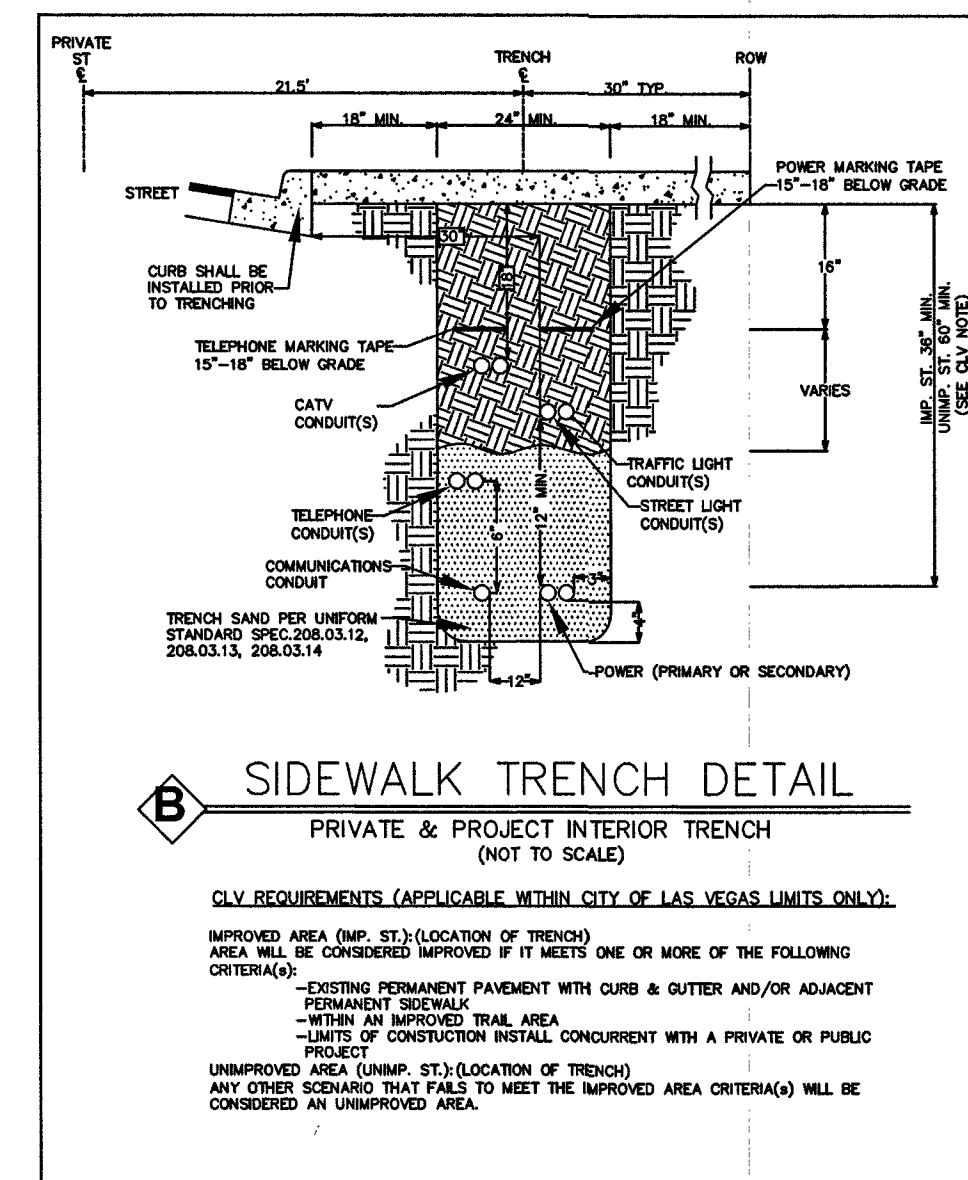
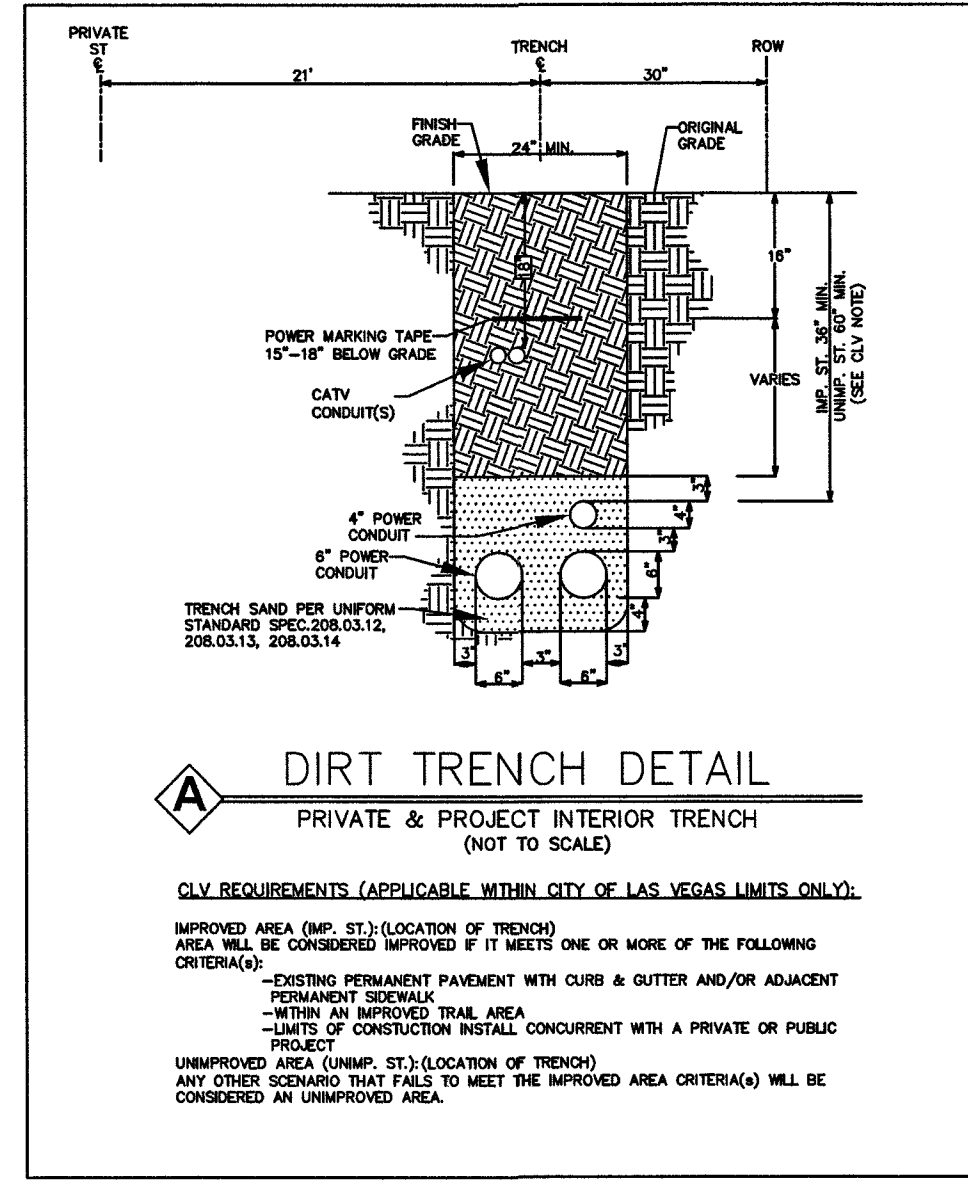
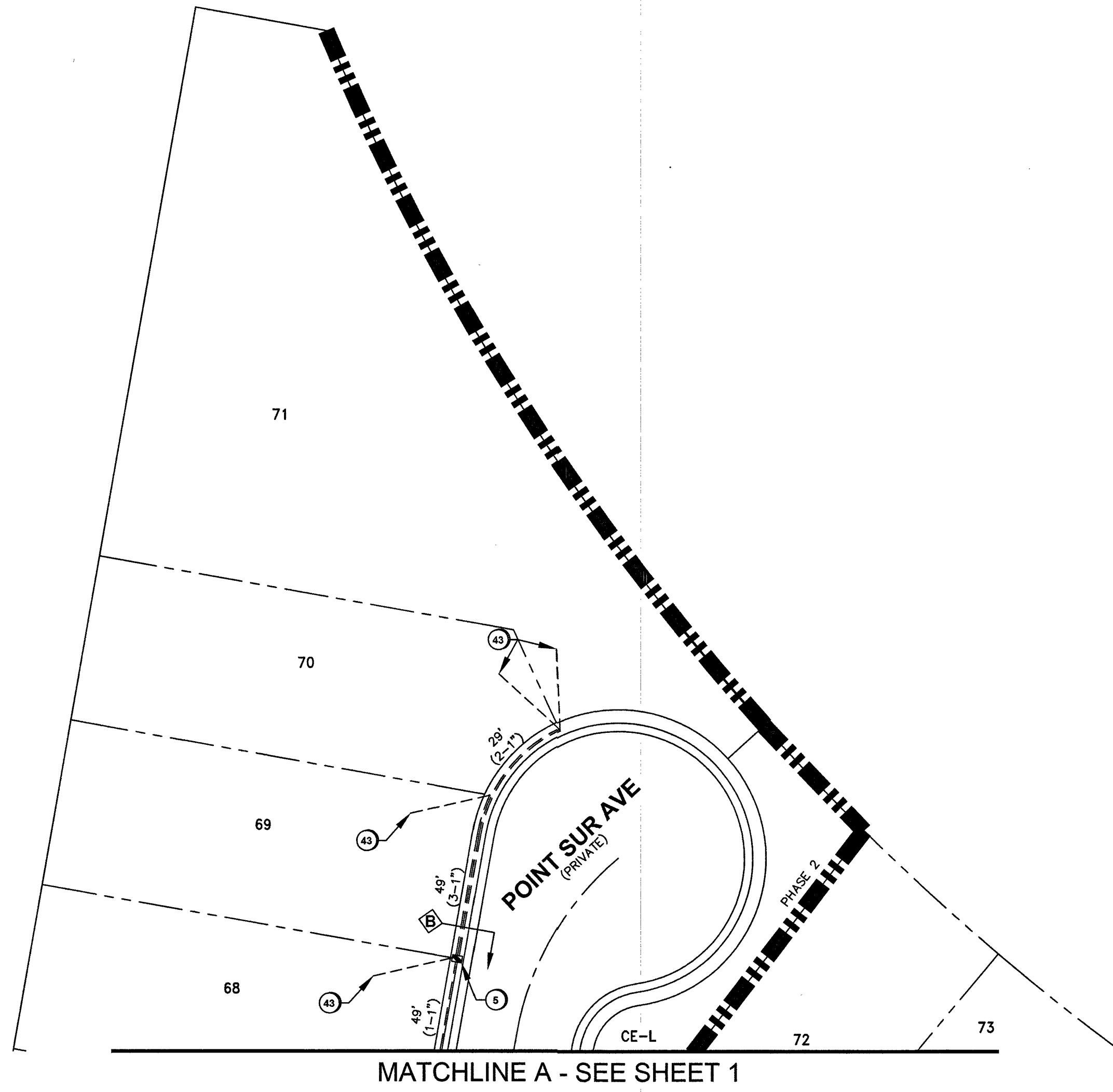
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Sheet 1 of 2

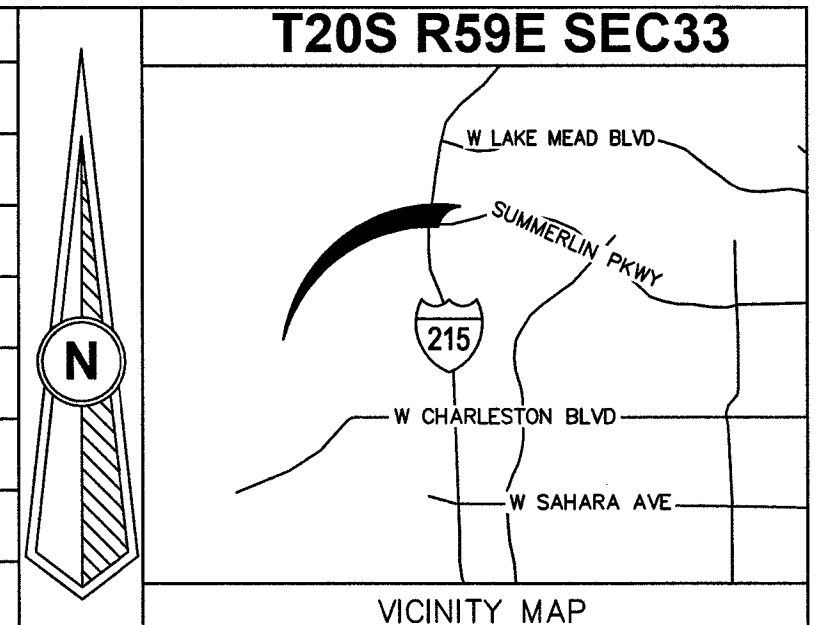
16745076-3

119-61015

TrueNet# 14361



LEGEND	
1	INSTALL B-36 PULL BOX (24"x36"x24")
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41	EXISTING MANHOLE (SS),(SD), ECT
42	1in CONDUIT LATERAL
43	STORMWATER ASSETS
44	
45	



REVISIONS			
REV	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

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APPROVED FOR CONSTRUCTION
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APPROVAL: *Jason Collins* DATE: 9/12/19

PERMIT #	RB-1261
DRAWN BY:	WTB
DATE:	7/25/2019
SCALE:	1" = 30'
NOTE:	
LVAFT	
PROJECT #	40505180000RB12611
TECH #	N/A
APPROVED BY:	JASON COLLINS

BRINGING US CLOSER
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

PROJECT LOCATION:
SV24 BIXBY CREEK UNIT 2 & 3
CROSSBRIDGE DR & BIXBY BRIDGE AVE

SUB-CONTRACTOR:
DBA: COX COMMUNICATIONS

ENTITY NOTES:
NONE

DISCLAIMER NOTE

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CALL BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT

CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
SIDEWALK REMOVAL/REPAIR	0
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

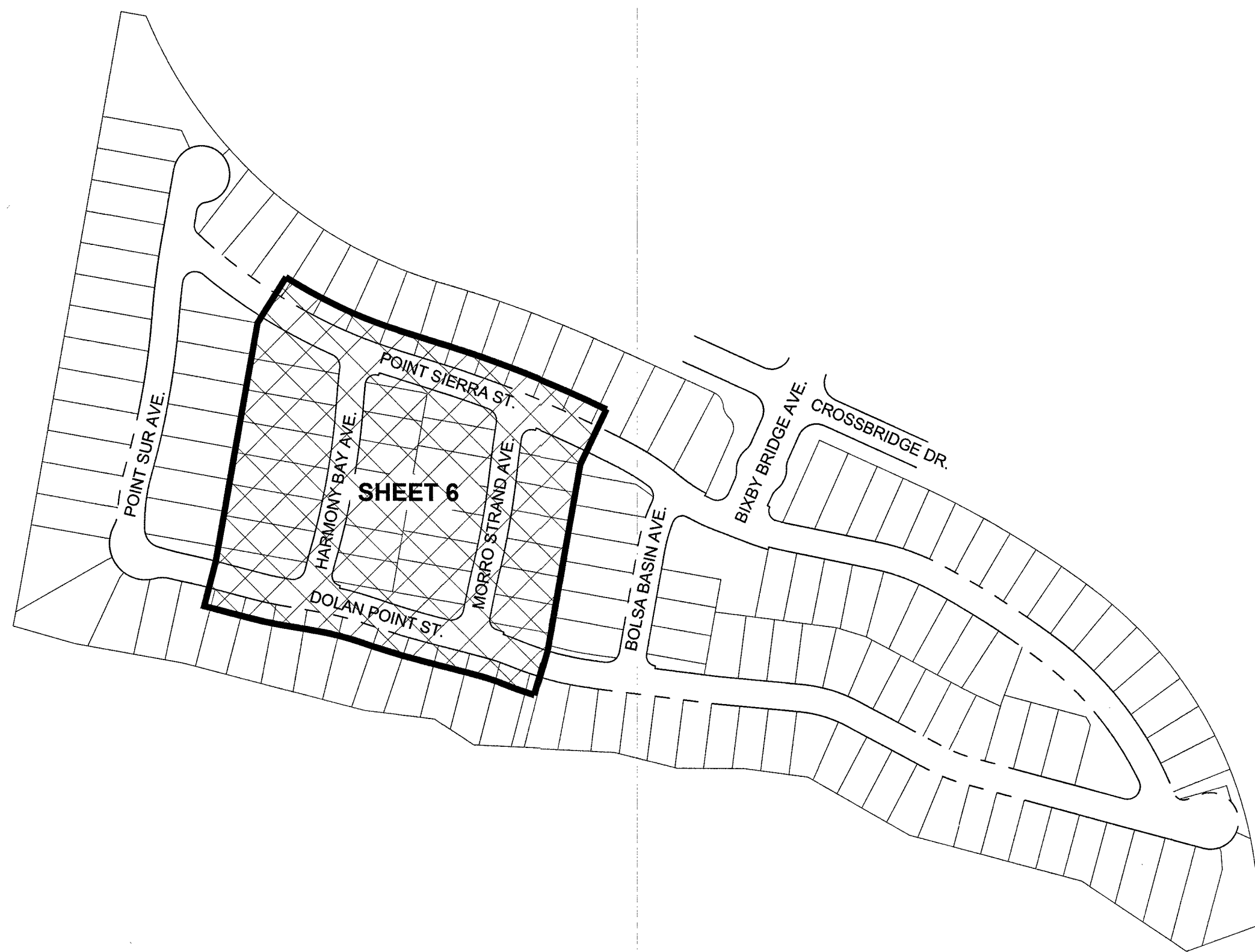
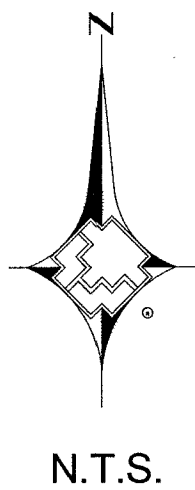
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

SHEET NO: **2**

Sheet 2 of 2

LEGEND

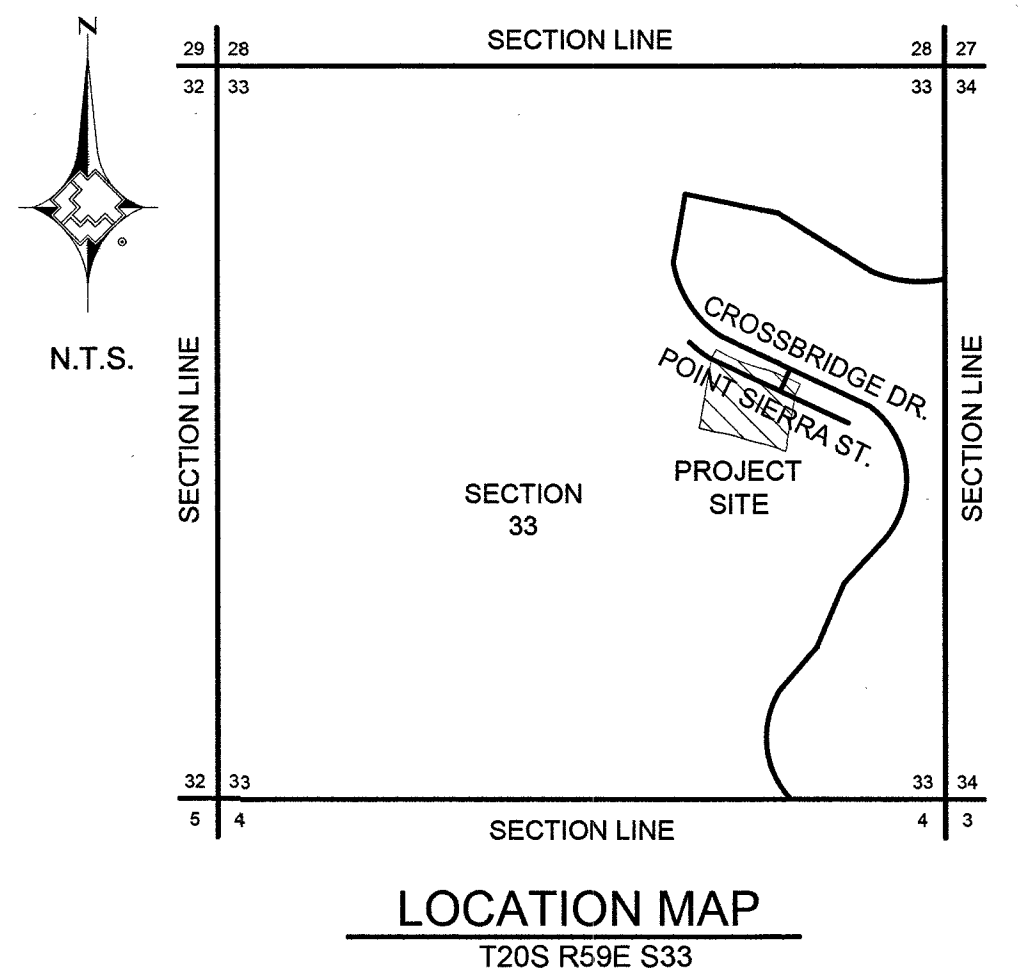
- EXISTING GAS MAIN
- EXISTING GAS SERVICE
- GAS LINE TO BE ABANDONED
- STEEL RISER
- ANODELESS RISER
- GASLIGHT
- GAS VALVE
- EXCESS FLOW VALVE
- RELIEF VALVE
- COUPLINGS
- BOND OVER
- TEST POINT
- INSULATOR
- REGULATOR STATION
- RECTIFIER
- ANODE
- SCADA
- METER SET ASSEMBLY
- PURGE POINT
- BRANCH,CVT,LINE STOPPER
- PROPOSED GAS MAIN
- PROPOSED GAS SERVICE
- EXISTING EASEMENT
- ROW LINE
- PROPERTY LINE
- STREET CENTERLINE
- EDGE OF PAVEMENT
- CABLE LINE - UNDERGROUND
- ELECTRIC - OVERHEAD
- ELECTRIC - UNDERGROUND
- FIBER OPTIC - UNDERGROUND
- PHONE - OVERHEAD
- PHONE - UNDERGROUND
- RECLAIMED WATER
- SEWER
- STORMWATER
- WATER
- UTILITY PEDESTALS
- FIRE HYDRANT
- MANHOLE
- WATER VALVE
- SURVEY MONUMENT
- POWER POLE
- GAS FLOW ARROW



SHEET INDEX MAP

SHEET INDEX

- 1 COVER SHEET
- 2 SIGNATURE SHEET
- 3-5 NOTES AND STANDARD DETAILS
- 6 PLAN SHEET



City of Las Vegas

Total footage located in Public ROW 0'

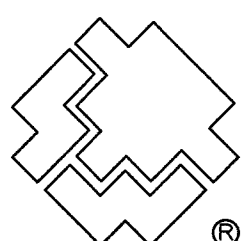
APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY
IS THE RESPONSIBILITY OF THE UTILITY.

Approval Shawn Batt Date 9/12/19

CUSTOMERS 25



Know what's below.
Call before you dig.



SOUTHWEST GAS CORPORATION

Southwest Gas Corporation Confidential and Proprietary Information

For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C.

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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD.

PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE
CITY OF LAS VEGAS TAX CODE: 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	x558y516, x561y516, x581y514

D_W_VALLEY

SYSTEM MAOP:	60
SYSTEM MOP:	55
SYS NAME 2	
SYSTEM MAOP:	N/A
SYSTEM MOP:	N/A

JOB TYPE

HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.

3875875
RELATED WR NO.S
N/A

ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
ACCOUNT REP.	ANDY CARLSON	PHONE: (702) 364-3399
PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 376-0527
SHEET NO. 1 OF 6	SCALE N.T.S.	DATE 07/26/2019
DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ

BIXBY CREEK PHASE-3

1074 5076-3

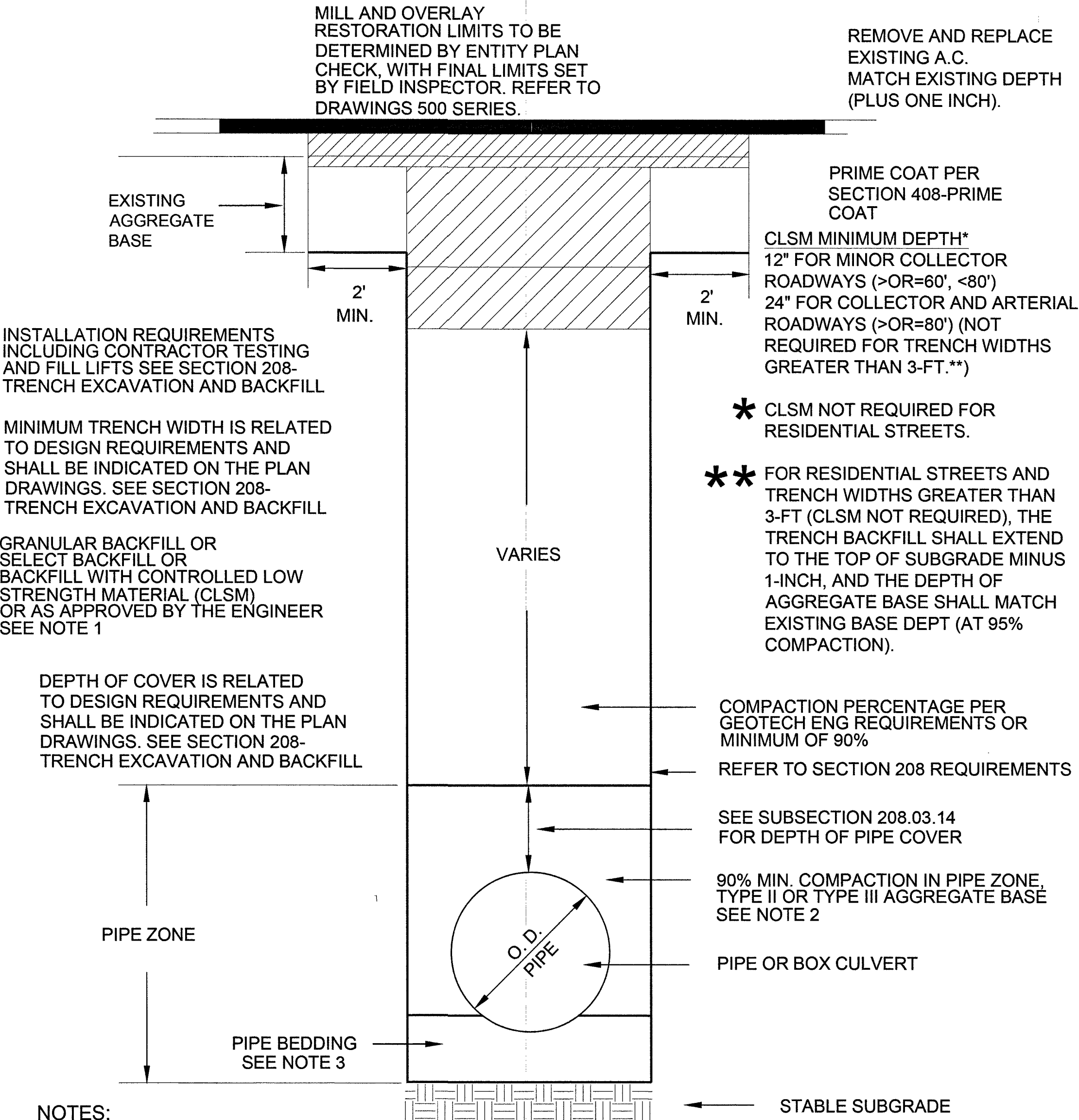
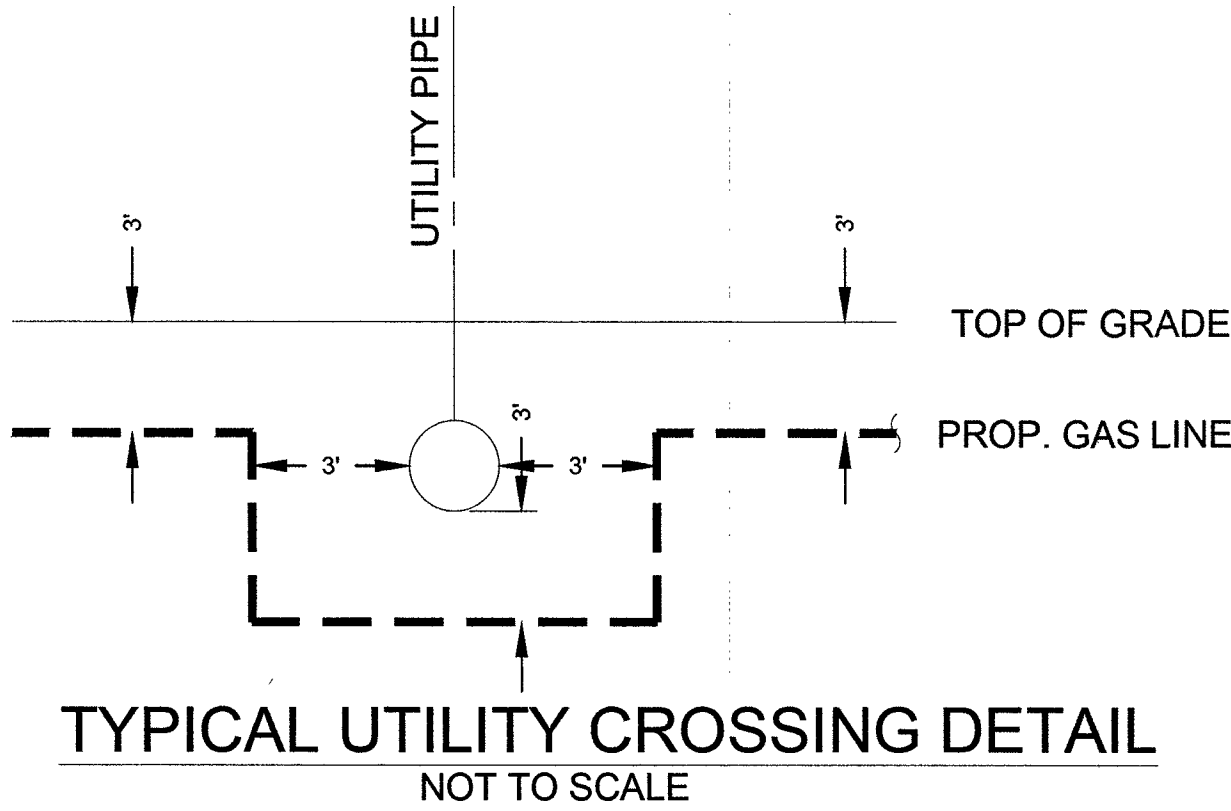
49-01015

CONSTRUCTION	
INSPECTOR _____	PJQ# _____
FOREMAN _____	PJQ# _____
REVIEWED BY _____	PJQ# _____

 Know what's below. Call before you dig.	 SOUTHWEST GAS CORPORATION	Southwest Gas Corporation Confidential and Proprietary Information For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C. This document may not be copied, distributed, or shared to any other person or entity in any manner or form without prior written consent of Southwest Gas Corporation.	REVISIONS				D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN AMANDA HENDERSON PHONE: (702) 365-2152 ACCOUNT REP. ANDY CARLSON PHONE: (702) 364-3399 PROJECT CONTACT DAVE WAGNER PHONE: (702) 376-0527 SHEET NO. 2 OF 6 SCALE N.T.S. DATE 07/26/2019 DWN. BY SEI CHKD. BY AH APPVD. BY BWJ			
			NO.	DESCRIPTION	BY	DATE	APPVD	SYSTEM MAOP:	80		HP SERVICE	☐	3875875			
							SYSTEM MOP:	55			DISTRIBUTION	☒	RELATED WR NO.S			
			PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	SYS NAME 2		FEEDER		☐	N/A			
			CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x558y516, x561y516, x561y514	SYSTEM MAOP: N/A SYSTEM MOP: N/A			TRANS. BY DEF	☐	BIXBY CREEK PHASE-3			
										TRANS > 20%		☐	10745076-3 119-01015			

- GENERAL NOTES:
- SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
 - ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
 - DO NOT SCALE THIS DRAWING.
 - CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 - GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
 - ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
 - TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
 - CONTACT ENGINEERING FOR BYPASS INFORMATION.
 - ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
 - ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
 - REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
 - TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503 AND UNIFORM STANDARD SPEC SECTION 208.
 - MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60PSIG ARE:
 - MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
 - ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
 - CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.

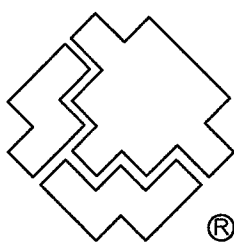
DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
643'	2" PE8100
534'	1" PE8100



- NOTES:
- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
 - TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
 - CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
 - LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:		NTS	NOT TO SCALE
AA	ALDYL-A PIPE	OC	ON CENTER
ABND	ABANDONED	OD	OUTSIDE DIAMETER
AC	ASPHALTIC CONCRETE	OH	OVERHEAD
AC#	ACCELERATED CONSTRUCTION	OHE	OVERHEAD ELECTRIC
ACP	ASBESTOS CEMENT PIPE	P	POWER
APN	ASSESSOR PARCEL NUMBER	PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BLVD	BOULEVARD	PCC	PORTLAND CEMENT CONCRETE
BM	BENCHMARK	PE	POLYETHYLENE PIPE
BO	BLOW OFF	PH	POT HOLE
BTU	BRITISH THERMAL UNIT	PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
CIP	CAST IRON PIPE	PL	PROPERTY LINE
CL	CENTERLINE	PIC	POTENTIAL IMPACT CIRCLE
CMP	CORRUGATED METAL PIPE	PLS	PRESSURE LIMITING STATION
CP	CATHODIC PROTECTION	P.O.B	POINT OF BEGINNING
D	INSIDE DIAMETER	PP	POWER POLE
DDCA	DESIGN DATA COLLECTION APPLICATION	PROP	PROPOSED
DET	DETAIL	PQF	PREQUALIFIED FITTING
DIP	DUCTICLE IRON PIPE	PSIG	POUNDS PER SQUARE INCH (GAUGE)
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM	PUE	PUBLIC UTILITY EASEMENT
DP	DESIGN PRESSURE	RC	REINFORCED CONCRETE
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
EFV	EXCESS FLOW VALVE	ROW	RIGHT OF WAY
EG	EXISTING GRADE	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
ELEC	ELECTRICAL	SD	STORM DRAIN
ELEV	ELEVATION	SDMH	STORM DRAIN MANHOLE
EMS	ELECTRONIC MARKING SYSTEM	SDR	STANDARD DIMENSION RATIO
E.P	END POINT	SF	SQUARE FOOT
EPR	ELECTRONIC PRESSURE RECORDERS	SHT	SHEET
ESMT	EASEMENT	SLSV	SERVICE LINE SHUT-OFF VALVE
EX	EXISTING	SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
FERC	FEDERAL ENERGY REGULATORY COMMISSION	SS	SANITARY SEWER
FH	FIRE HYDRANT	SST	STAINLESS STEEL
GIR	GAS INFRASTRUCTURE REPLACEMENT	ST	STREET
GPR	GAS PRESSURE REGULATOR	STA	STATION
HCA	HIGH CONSEQUENCE AREA	STL	STEEL
HDD	HEATING DEGREE DAY	SWG	SOUTHWEST GAS
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TDS	TEST DATA SHEET
HP	HIGH PRESSURE	TEL	TELEPHONE
HOP	HISTORIC OPERATING PRESSURE	TB	THRUST BLOCK
HVTT	HIGH VOLUME TAPPING TEE	TOP	TOP OF PIPE
IN	INCH(ES)	TP	TEST POINT
IPS	IRON PIPE SIZE	TS	TECHNICAL SERVICE NOTE
JT	JOINT TRENCH	TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE	TYP	TYPICAL
M&C	MEASUREMENTS & CONTROL	U.E.	UTILITY EASEMENT
MCFH	THOUSAND CUBIC FEET PER HOUR	UGE	UNDERGROUND ELECTRIC
MH	MANHOLE	UOC	UNUSUAL OPERATING CONDITION
MOP	MAXIMUM OPERATING PRESSURE	USD	UNIFORM STANDARD DRAWING
MP	MANUFACTURER'S PRESSURE RATING	UGT	UNDERGROUND TELEPHONE
MSA	METER SET ASSEMBLY	VCP	VITRIFIED CLAY PIPE
MVP	MAPPING VERIFICATION PROCEDURE	VERT	VERTICAL
NAP	NOT A PART	VG	VALLEY GUTTER
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD	VSP	VINTAGE STEEL PIPE
		W	WATER
		WMS	WORK MANAGEMENT SYSTEM
		WR	WORK REQUEST
		WT	WALL THICKNESS
		WV	WATER VALVE
		YD	YARD(S)



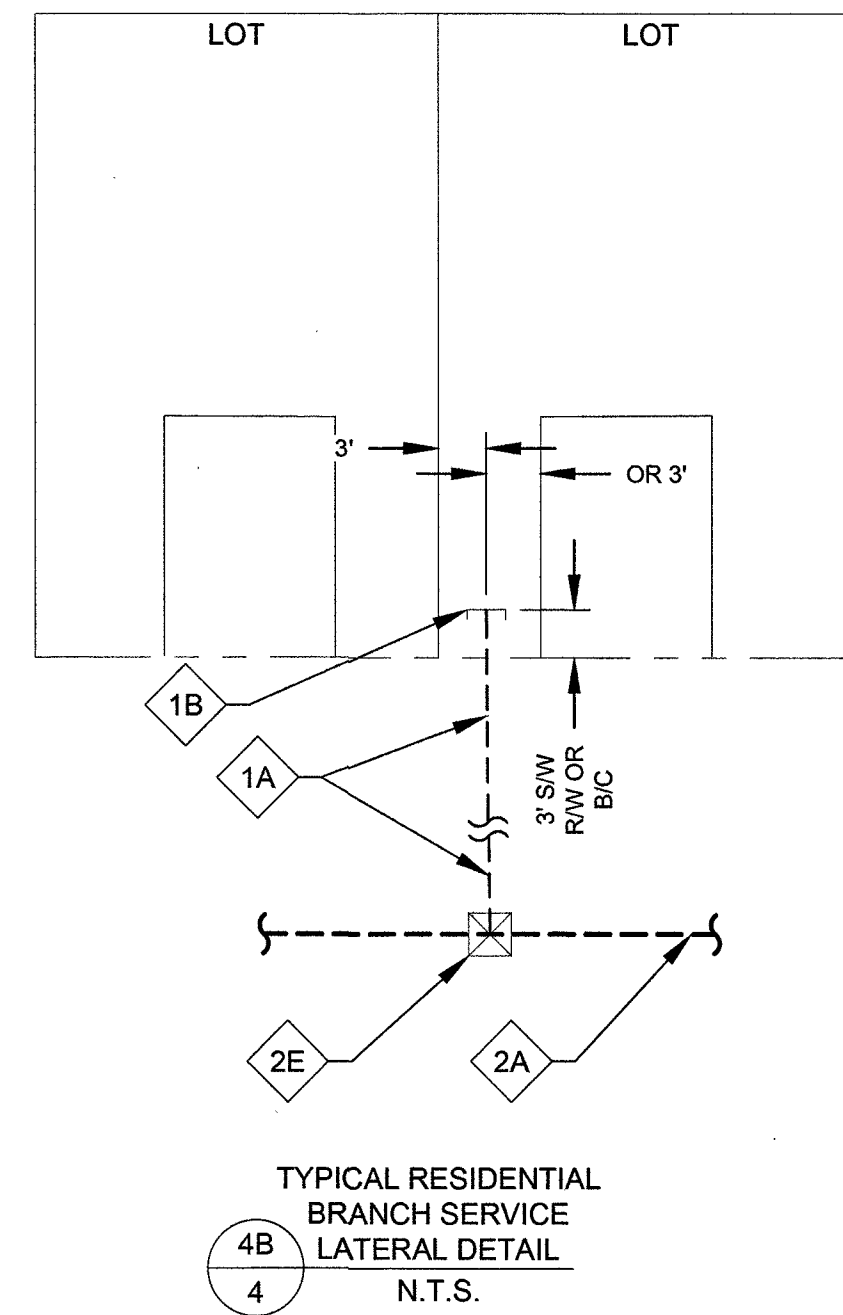
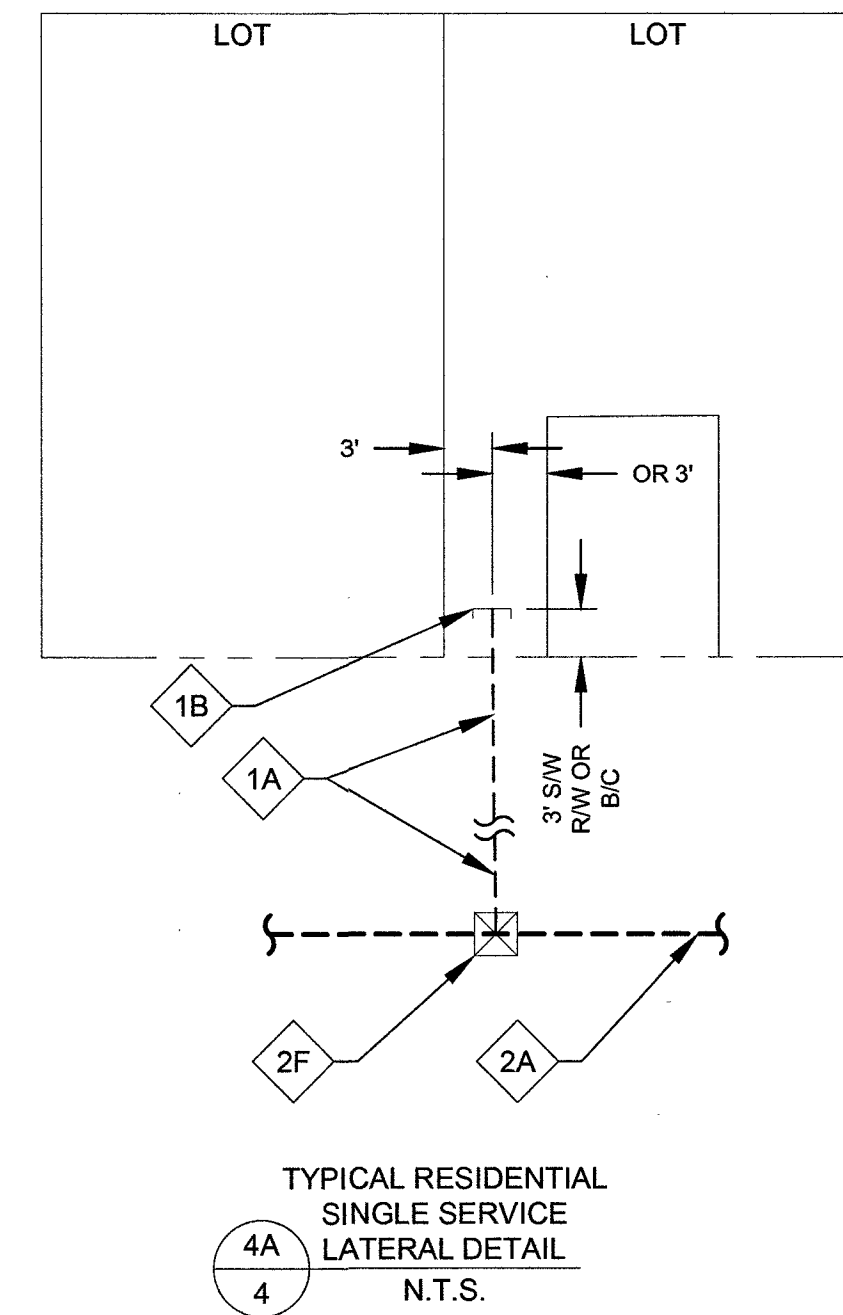
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REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPVD.
1	PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE
2	CITY OF LAS VEGAS TAX CODE: 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	x558y516, x561y516, x561y514

D_W_VALLEY		JOB TYPE		WR NO.	
SYSTEM MAOP:	60	HP SERVICE	☐	3875875	RELATED WR NO.S
SYSTEM MOP:	55	DISTRIBUTION	☒		
SYS NAME 2		FEEDER	☐	N/A	
SYSTEM MAOP:	N/A	TRANS. BY DEF	☐		
SYSTEM MOP:	N/A	TRANS > 20%	☐		

ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
ACCOUNT REP.	ANDY CARLSON	PHONE: (702) 384-3399
PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 376-0527
SHEET NO. 3 OF 6	SCALE N.T.S.	DATE 07/26/2019
DWN. BY SEI	CHKD. BY AH	APPVD. BY BWJ
BIXBY CREEK PHASE-3		
101 Y 5076-3		
119-01015		

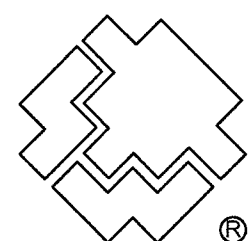


2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2E	4	0'	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2F	17	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	534'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	21	0'	850-8773	1" PE CAP	N/A	N/A



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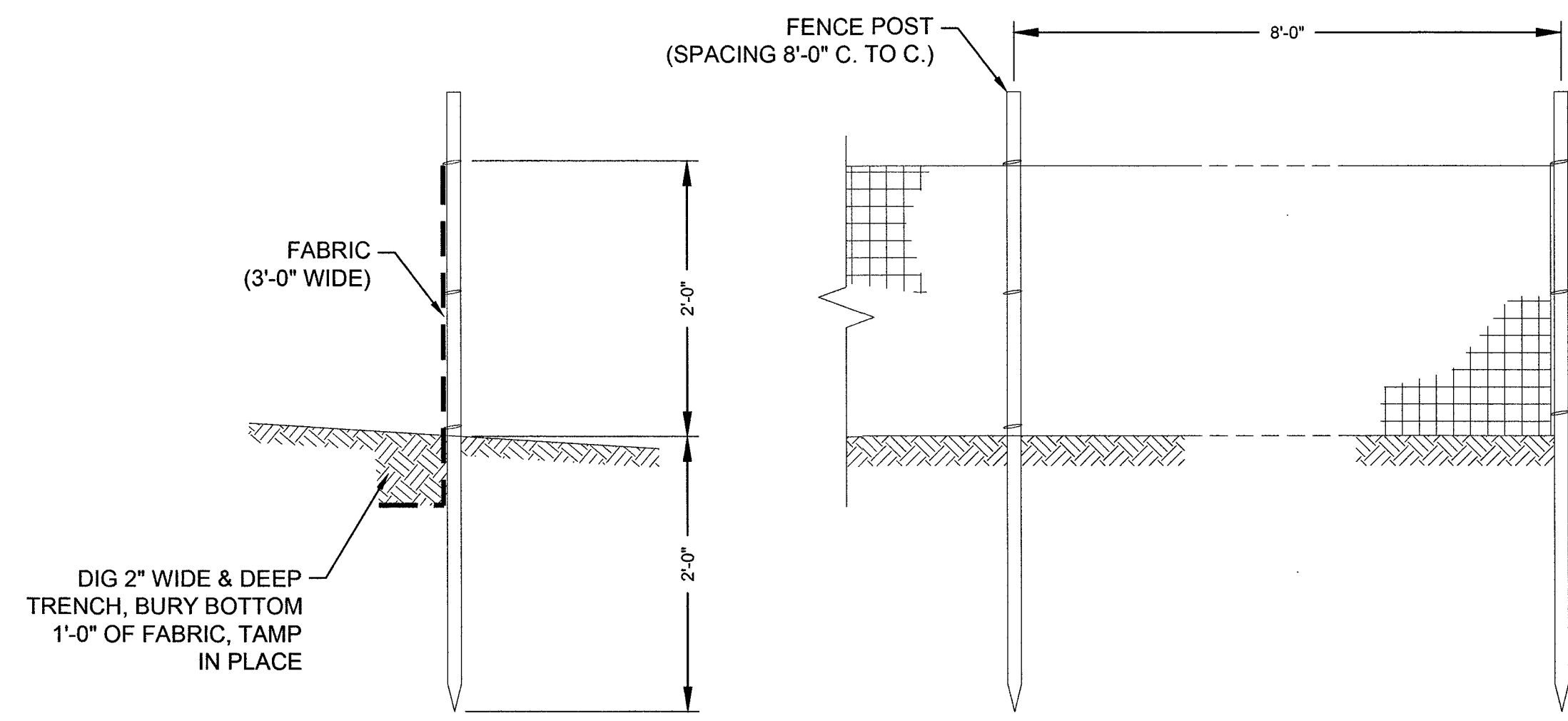
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REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152
					SYSTEM MAOP:	60	HP SERVICE	3875875	ACCOUNT REP.	ANDY CARLSON	PHONE: (702) 364-3399
					SYSTEM MOP:	55	DISTRIBUTION		PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 376-0527
NO.	DESCRIPTION	BY	DATE	APPVD.	SYS NAME 2		FEEDER	RELATED WR NO.S	SHEET NO.	4 OF 6	SCALE N.T.S.
PERMIT INFORMATION					CITY OF LAS VEGAS		TRANS. BY DEF	N/A	DATE		
TAX CODE: 02-0200					ISO_21_DIST_323		TRANS > 20%		07/26/2019		
LOCATION					T20S R59E S33 M.D.M.				CHKD. BY		
ATLAS OR TILE					x558y516, x561y516, x561y514				APPVD. BY		
SYS NAME 2					SYSTEM MAOP: N/A				BIXBY CREEK PHASE-3		
SYSTEM MOP: N/A									10145076-3		

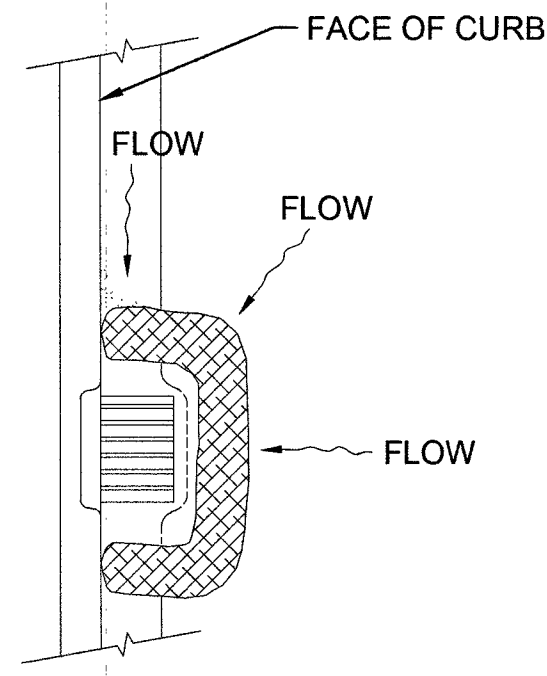
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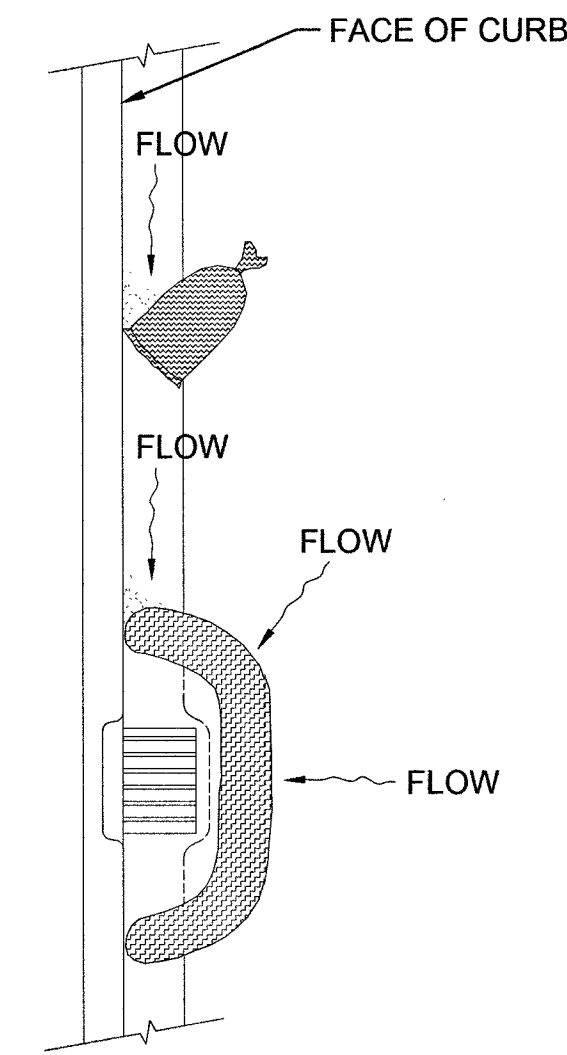
TYPICAL SWPPP BMP DETAILS



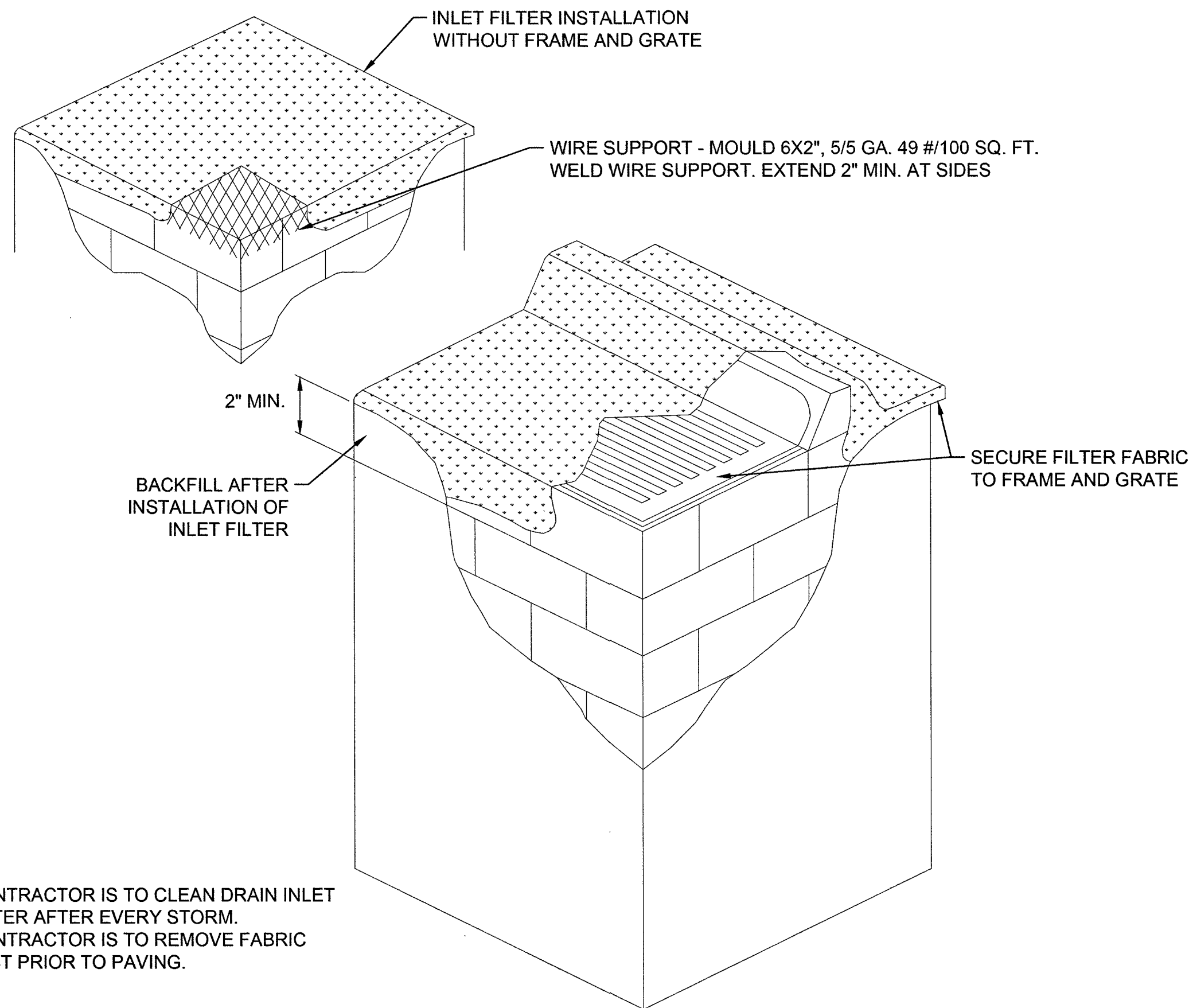
1 SILT FENCE
- N.T.S.



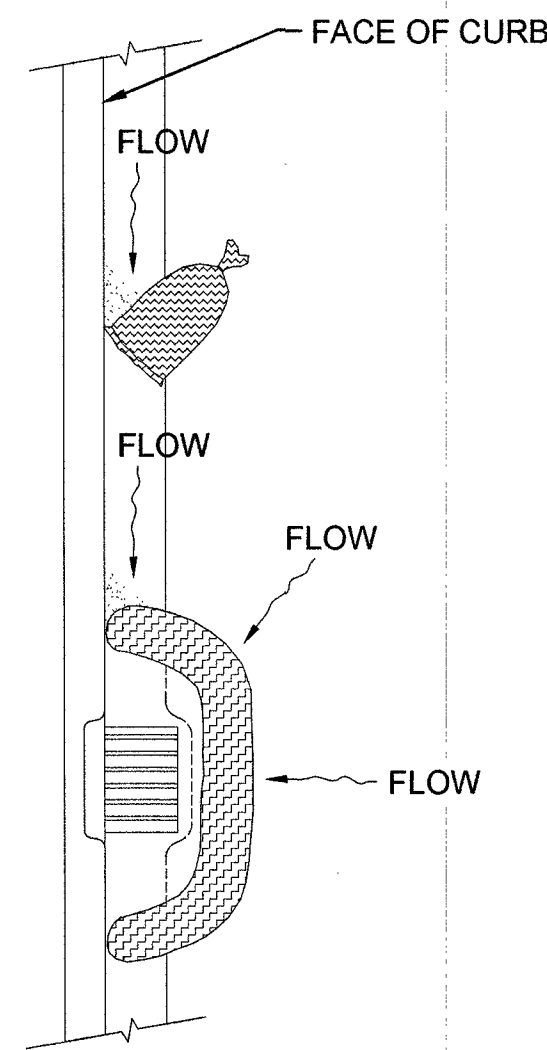
2 FIBER ROLL
- N.T.S.



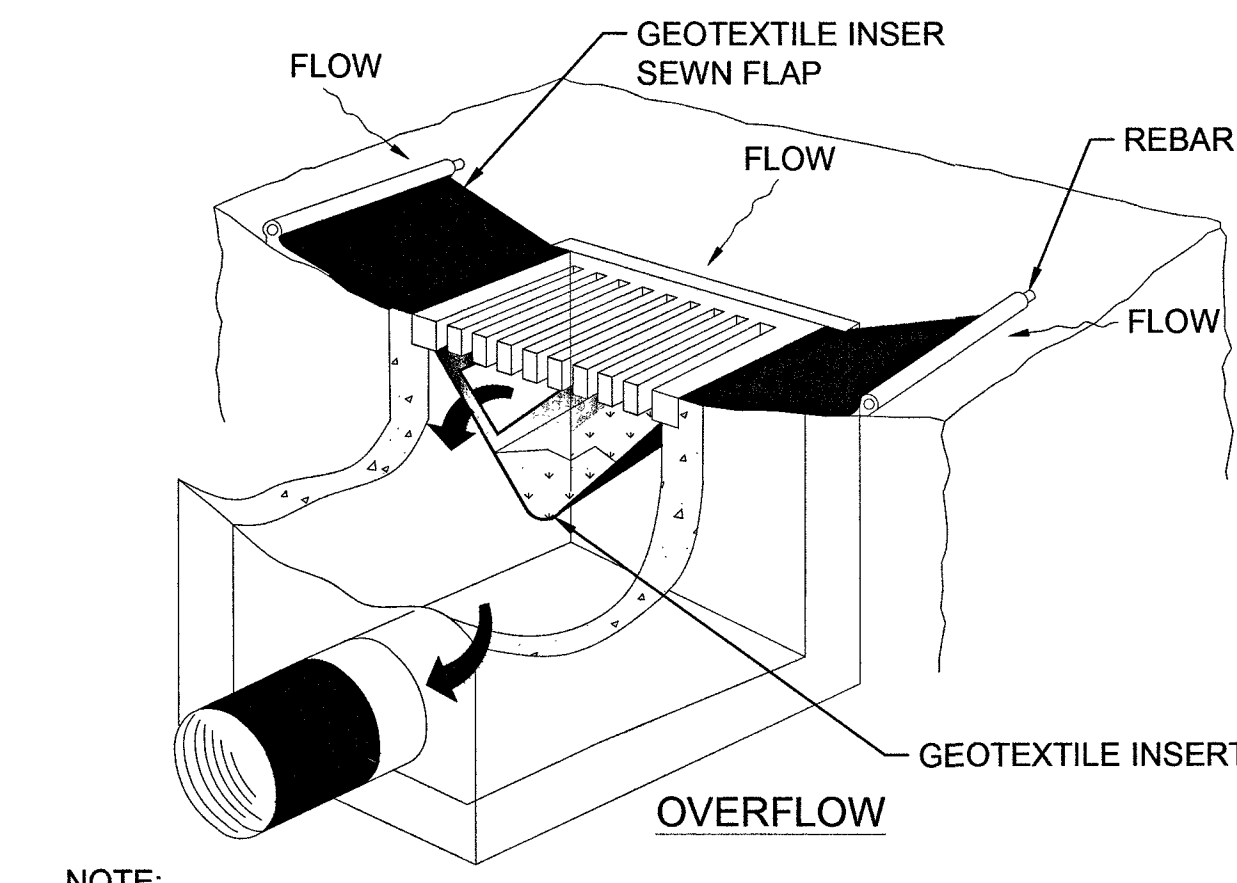
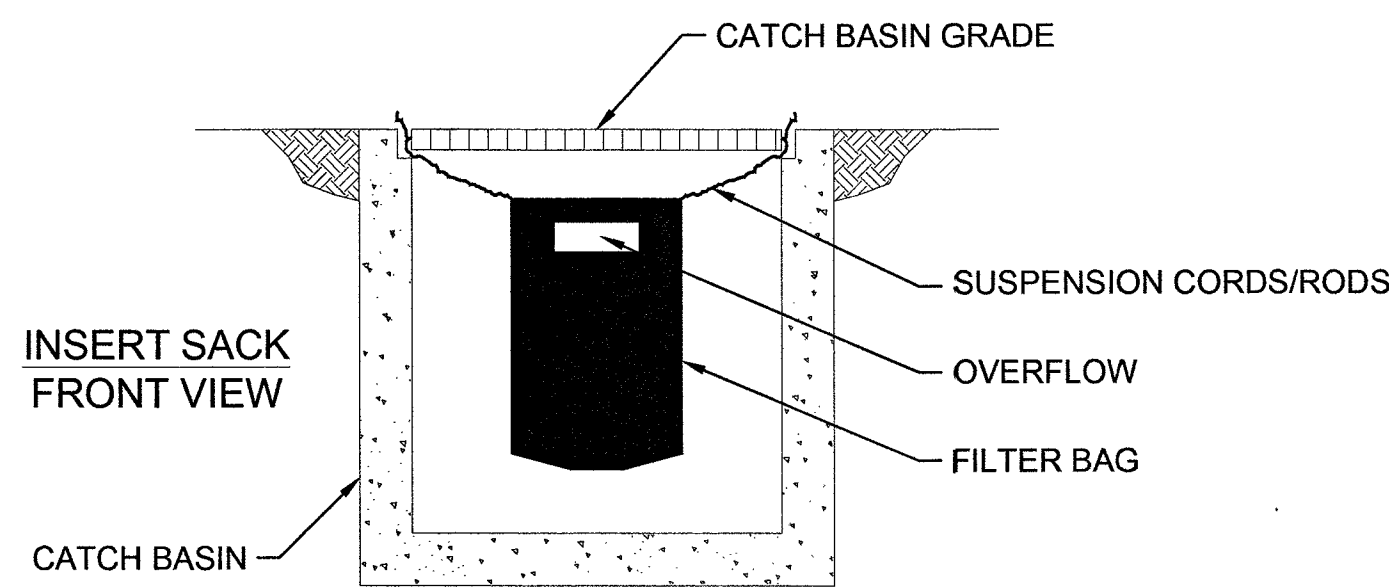
3 SAND BAG/ ROLL
- N.T.S.



4 DRAIN
INLET FILTER
- N.T.S.



5 GRAVEL
BAG/ ROLL
- N.T.S.



NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

6 SEDIMENT
FILTER BAG
- N.T.S.

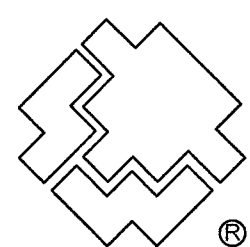
SWPPP NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMP'S FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S 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, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMP'S ON THIS SHEET DOT NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

- NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.



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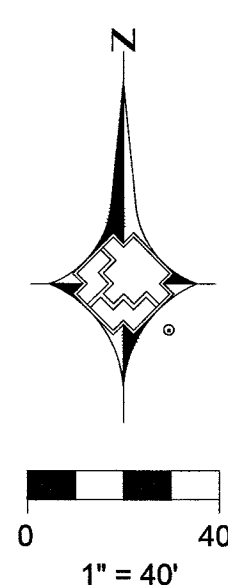
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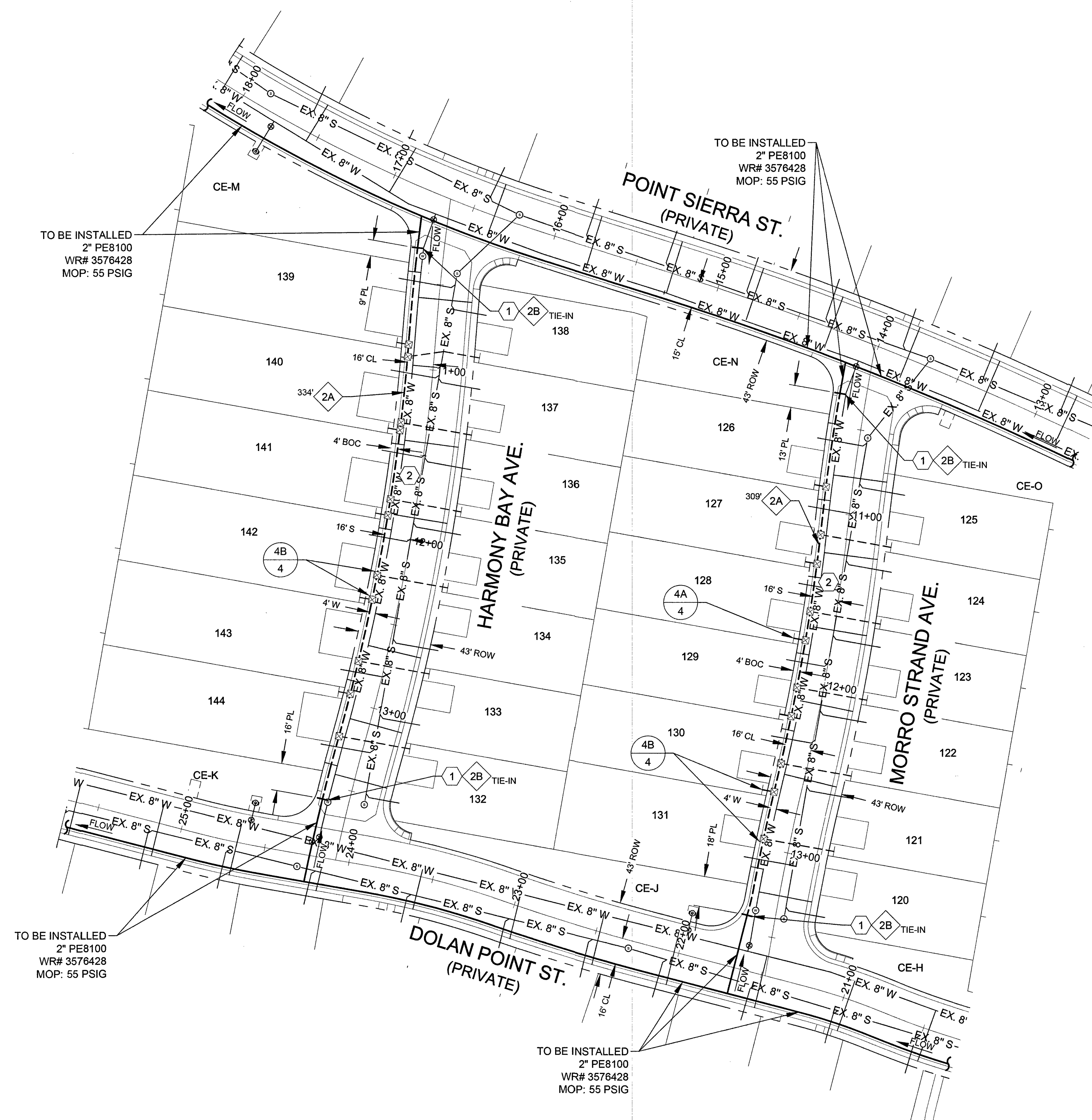
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REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	AMANDA HENDERSON	PHONE: (702) 365-2152	
						SYSTEM MAOP: 60	HP SERVICE ☐	3875875	ACCOUNT REP.	ANDY CARLSON	PHONE: (702) 364-3399	
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 376-0527	
									SHEET NO. 5 OF 6	SCALE N.T.S.	DATE 07/26/2019	
NO.		DESCRIPTION			BY	DATE	APPVD.		DWN. BY	SEI	CHKD. BY AH	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	SYS NAME 2		FEEDER ☐	RELATED WR NO.S	BIXBY CREEK PHASE-3			
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x558y516, x561y516, x561y514	SYSTEM MAOP: N/A	SYSTEM MOP: N/A	TRANS. BY DEF ☐	N/A				
							TRANS > 20% ☐					
10745076-3												L19-01015

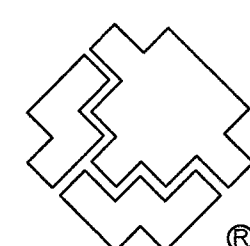


2" PE DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	643'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2B	4	0	140-3532	2" PE COUPLING	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 2" PE8100
2	RTC 503



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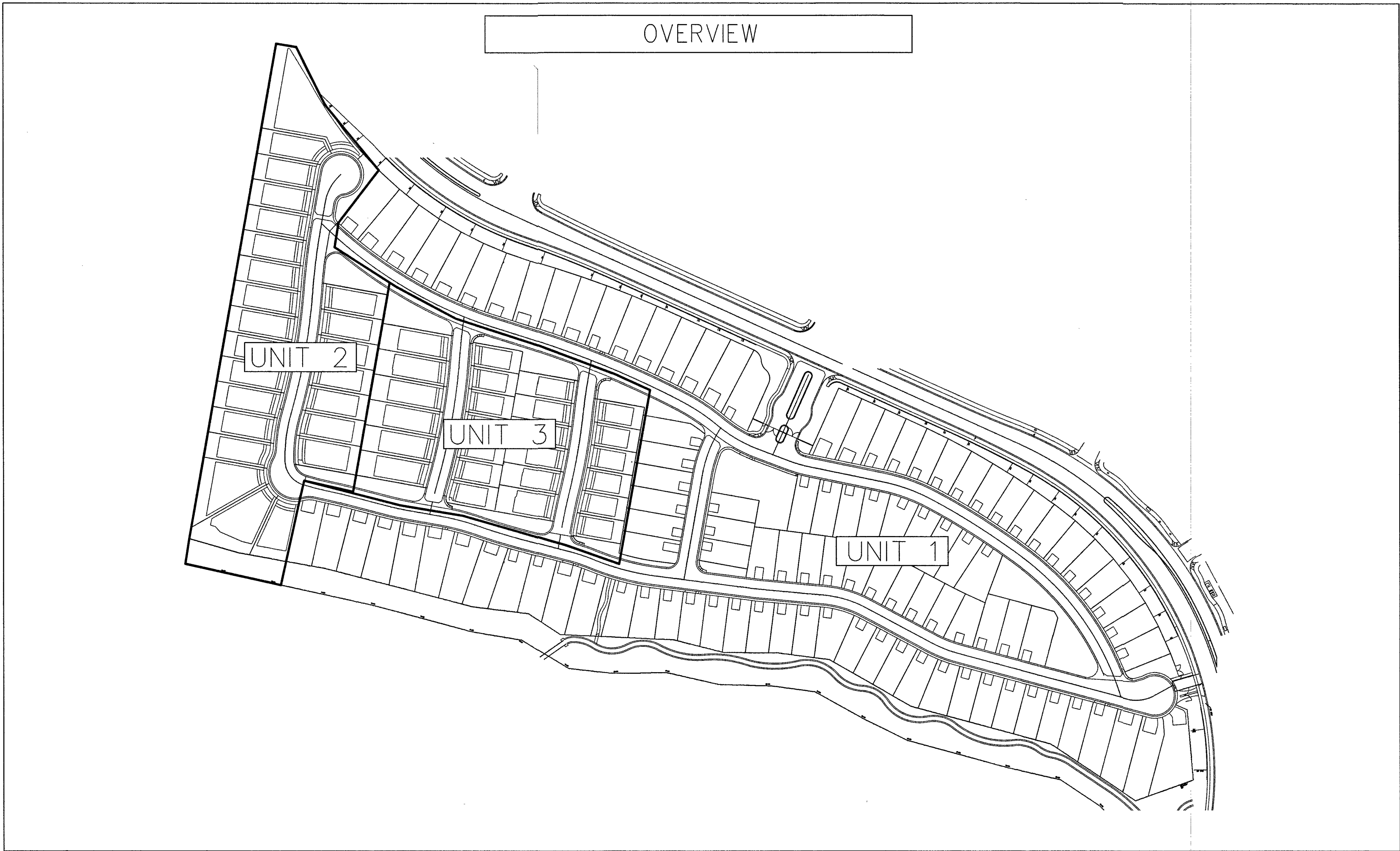
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REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN AMANDA HENDERSON PHONE: (702) 365-2152				
						SYSTEM MAOP: 60	HP SERVICE ☐	3875875	ACCOUNT REP. ANDY CARLSON PHONE: (702) 364-339		PHONE: (702) 376-0522				
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT DAVE WAGNER PHONE: (702) 376-0522		DATE 07/26/2019				
NO.	DESCRIPTION			BY	DATE	APPVD.			SHEET NO. 6 OF 6 SCALE 1" = 40'		DWN. BY SEI CHKD. BY AH APPVD. BY BWJ				
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		SYS NAME 2		FEEDER ☐		RELATED WR NO.S					
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	x558y516, x561y516, x561y514		SYSTEM MAOP: N/A	N/A	TRANS. BY DEF ☐		BIXBY CREEK PHASE-3					
						SYSTEM MOP: N/A	N/A	TRANS > 20% ☐							
												107-Y-5076-3		L19-01015	

107-45076-3

L19-01015

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T&S LEGEND (HEXATRONIC)

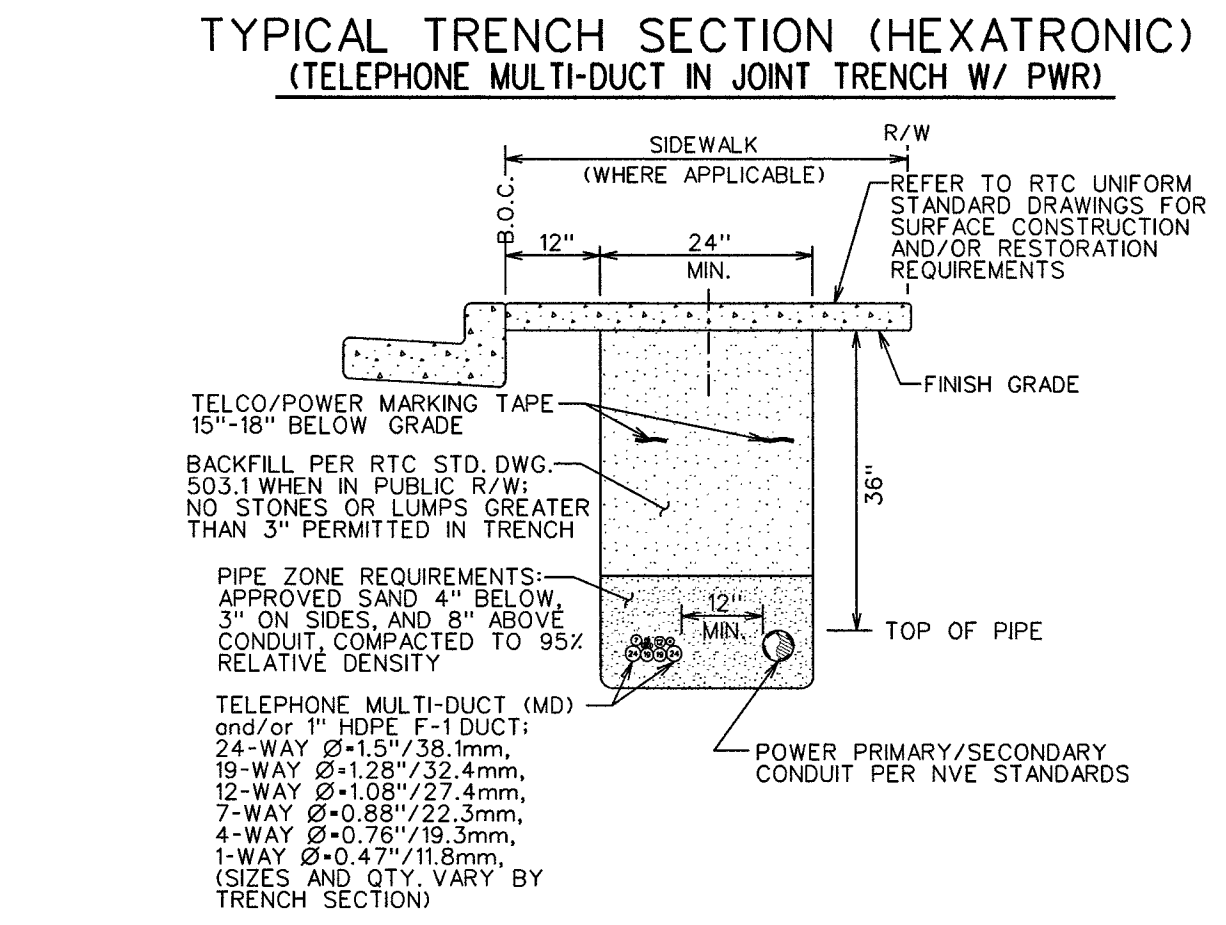
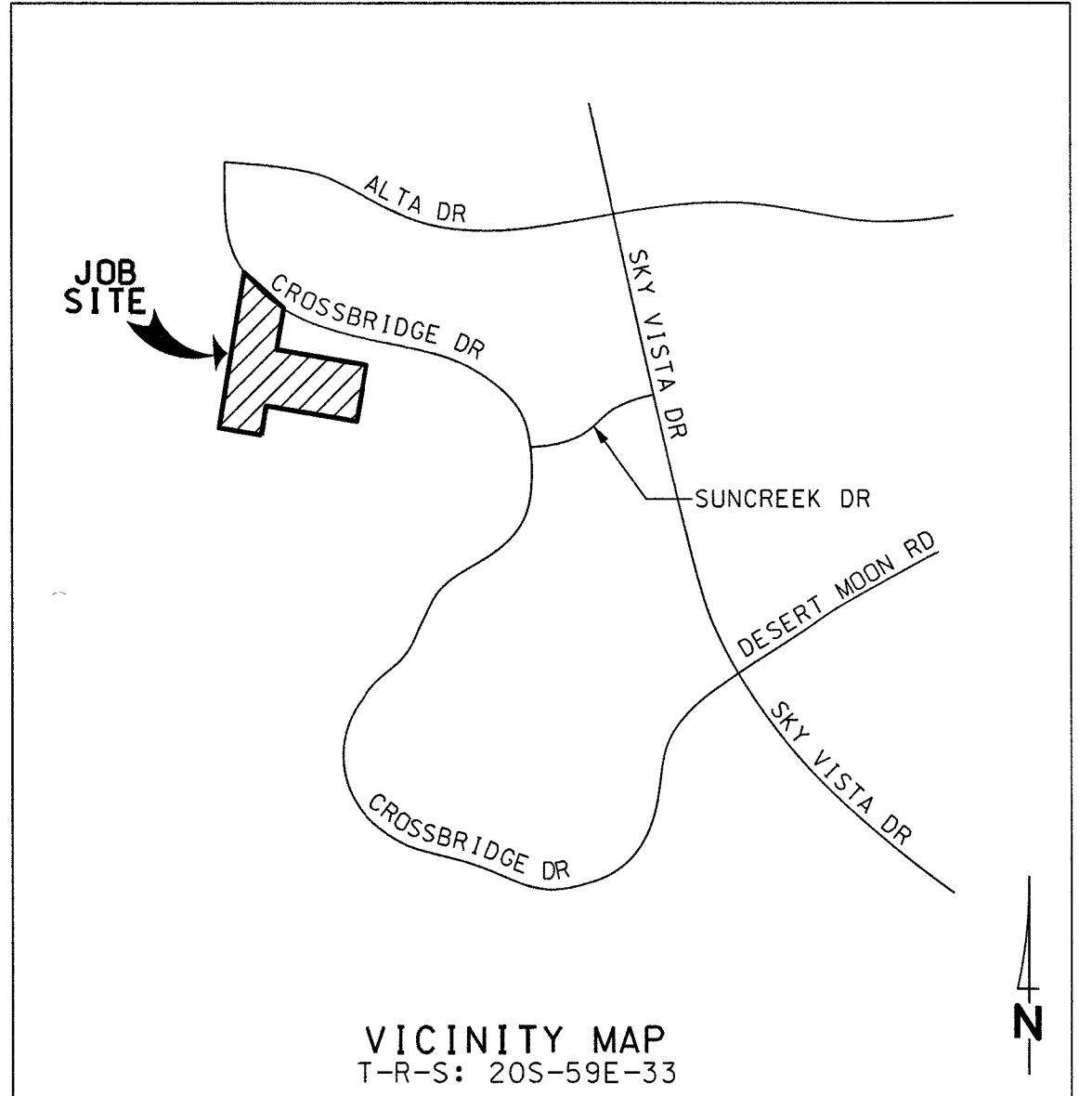
24WMD-A	= 24-WAY - MULTI-DUCT (MD) - Ø=1.57/38.1mm (LETTER INDICATES DUCT IDENTIFIER: i.e. A)
19WMD-B	= 19-WAY - MULTI-DUCT (MD) - Ø=1.28/32.4mm (LETTER INDICATES DUCT IDENTIFIER: i.e. B)
12WMD-C	= 12-WAY - MULTI-DUCT (MD) - Ø=1.08/27.4mm (LETTER INDICATES DUCT IDENTIFIER: i.e. C)
7WMD-D	= 7-WAY - MULTI-DUCT (MD) - Ø=0.88/22.3mm (LETTER INDICATES DUCT IDENTIFIER: i.e. D)
4WMD-E	= 4-WAY - MULTI-DUCT (MD) - Ø=0.76/19.3mm (LETTER INDICATES DUCT IDENTIFIER: i.e. E)
2WMD-F	= 2-WAY - MULTI-DUCT (MD) - Ø=0.61/15.5mm (LETTER INDICATES DUCT IDENTIFIER: i.e. F)
SD(4)	= 1-WAY - SINGLE-DUCT (SD) - Ø=0.47/11.8mm (NMBR IN PARENTHESIS INDICATES QUANTITY OF SINGLE-DUCT IN EACH TRENCH SECTION)
DJC	= DUCT JOINT CLOSURE (DJC) ATTACH A LOCATOR BALL AT EACH DJC LOCATION.

GATE SERVICE CABINET (24" x 24" x 8") W/ 110V OUTLET:
UL APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SIDE-HINGED DOOR, EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD (1" SMALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 6 GROUND WIRE CONNECTED TO AN APPROVED GROUNDING SOURCE. MOUNT CABINET AT EYE LEVEL A MINIMUM OF 36" ABOVE FINISH GRADE. INCLUDE 1" SLEEVE FROM BOTTOM OF CABINET TO BELOW GRADE FOR INCOMING SERVICE AND ONE (1) DEDICATED 110V/20A, NON GFI, DUPLEX RECEPTACLE WIRED TO MAIN GATE POWER.

EXISTING: 100 PULL BOX (24" x 36" x 36" I.D.) - POLYMER CONCRETE TYPE PULL BOX. 100 PULL BOXES TO BE PROVIDED BY AND DELIVERED TO THE JOB SITE BY CENTURYLINK.
FDH PAD & GND. - REFER TO HEXATRONIC INSTALL GUIDE AND 4'x4'x6" FDH PAD DETAILS ON PLAN SHEETS

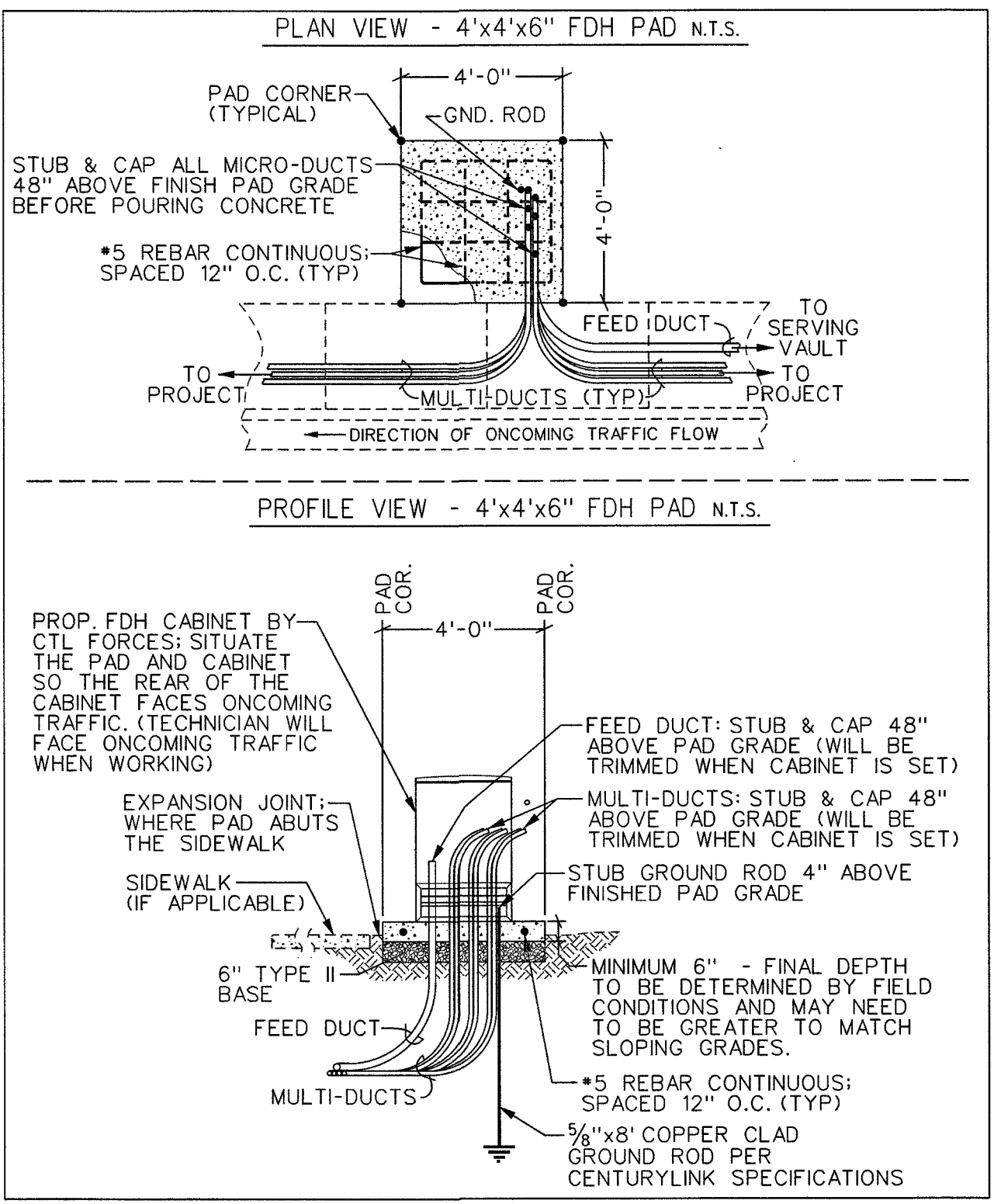
STANDARD LEGEND

PROPOSED CONDUIT	P.V.C. - D.B. (DIRECT BURIAL) GRADE: 0.8.60 FOR 1", 2" & 3" 0.8.100 FOR 4" 0.8.111 FOR 1.00"
EXISTING CONDUIT	HDPE - SDR-11 FOR 1.00"
45°/90° RADIAL BENDS	- FACTORY FORMED SCHEDULE 40 PVC. 24" RADIUS FOR 1" / 36" RADIUS FOR 2" / 48" RADIUS FOR 4"
EXISTING CONDUIT STUB	SEE PLAN FOR SIZE/QTY.
EXISTING MANHOLE	- REFER TO DRAWING FOR SIZE/TYPE.
EXISTING 400 PULL BOX	(3'0" x 5'0" x 4'0" I.D.)
EXISTING 200 PULL BOX	(3'0" x 4'8" x 3'6" I.D.)
EXISTING 100 PULL BOX	(2'4" x 3'6" x 3'6" I.D.)
EXISTING 30 PULL BOX	(1'7" x 3'0" x 3'0" I.D.)
EXISTING POWER/TELEPHONE POLE	
EXISTING TELEPHONE ANCHOR	
EXISTING OVERHEAD POWER AND TELEPHONE CABLE(S)	
TELEPHONE TERMINAL CABINET (T.T.C.) AND GROUND	REFER TO DRAWING FOR SIZE/TYPE
TELEPHONE TERMINAL BACKBOARD (T.T.B.) AND GROUND	REFER TO DRAWING FOR SIZE/TYPE
Right-Of-Way or Property Line	
Centerline	



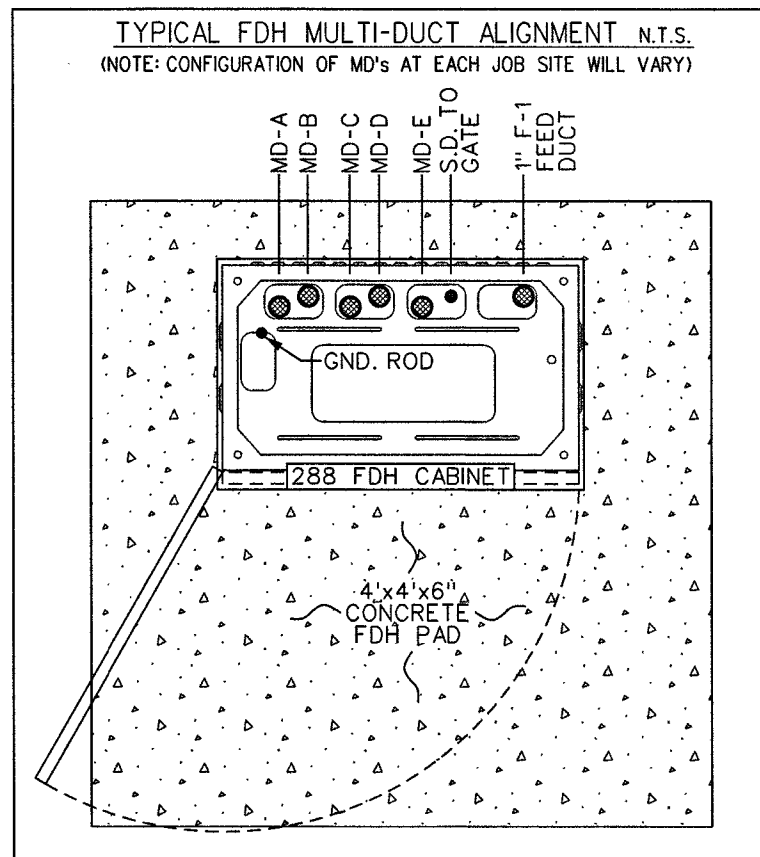
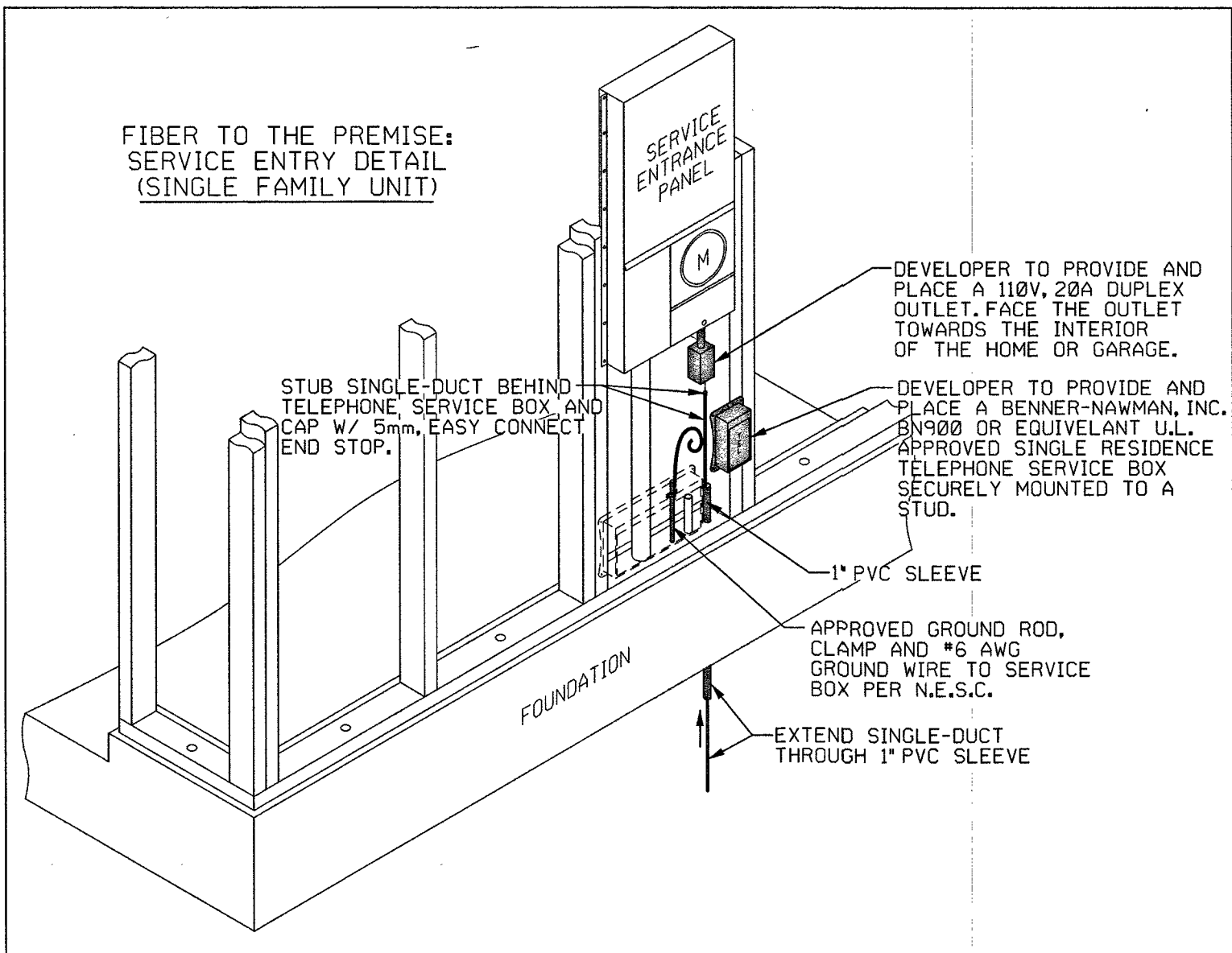
DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

DEVELOPER: WOODSIDE HOMES OF NEVADA, LLC
CONTACT: DAVE WAGNER
CONTACT #: 702-376-0526
NMBR OF LOTS: 49 TOTAL
UNIT 2: 24
UNIT 3: 25
NMBR OF GATE SVC'S: 0
NMBR OF POOL SVC'S: 0



- GENERAL NOTES FOR T&S (HEXATRONIC)**
- ALL CONSTRUCTION SHALL CONFORM TO THE NEVADA DIVISION OF CENTURYLINK SPECIFICATIONS. SEE LATEST ISSUE FOR THE INSTALLATION OF UNDERGROUND RESIDENTIAL DISTRIBUTION TELEPHONE SYSTEM.
 - TRENCHING, BACKFILLING AND RESTORATION WORK ARE TO BE PROVIDED BY THE DEVELOPER AND SHALL CONFORM TO THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) UNIFORM STANDARD DRAWINGS.
 - ANY CONDUIT PLACED FOR DEVELOPER'S CONVENIENCE (I.E. STREET CROSSING, STUB-OUTS FOR FUTURE UNITS) WILL BE PLACED AT DEVELOPER'S EXPENSE.
 - TELEPHONE BOXES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE AND SITUATED TO AVOID DRIVEWAYS AND HANDICAP RAMPS (UNLESS SHOWN OR NOTED OTHERWISE). ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 36" COVER FROM FINAL GRADES TO TOP OF PIPE (EXCEPT WHEN ENTERING TELEPHONE BOXES). MAINTAIN 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. BOXES WILL BE ESTABLISHED TO FINISH GRADE.
 - TRENCH AND SUBSTRUCTURE TO A RESIDENCE MUST BE 18" FROM THE SIDE LOT LINE WITH A MINIMUM DEPTH TO MAINTAIN 30" COVER FROM FINISH GRADE AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES.
 - CABLE RACKS WILL BE INSTALLED IN ALL 2'-0" X 3'-0" X 3'-0" PULL BOXES AND LARGER PER CENTURYLINK SPECIFICATIONS.
 - ALL TELEPHONE BOXES NOT IN SIDEWALK AREAS WILL BE REQUIRED TO HAVE A PROTECTIVE CONCRETE COLLAR, REINFORCED WITH REBAR, POURED AROUND THE TOP PORTION OF THE BOX PER CENTURYLINK SPECIFICATIONS.
 - WHEN JOINING EXISTING STUB-OUTS, THE LOCATION AND VALIDITY OF THE STUB-OUTS ARE ASSUMED AND BASED OFF RECORDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING CONDUIT STUB-OUT. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROVE AND PLACE PULL STRING IN THE EXISTING CONDUIT AS PART OF CONNECTING TO THE STUB FOR EXTENSION TO THIS PROJECT. IF THE CONDUIT CANNOT BE PROVED OR IS IDENTIFIED AS BEING DAMAGED THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE DUCTS WHERE DAMAGED OR INSTALL NEW CONDUIT BACK TO THE EXISTING TRUE POINT OF RE-ENFORCEABLE SERVICE (I.E. MANHOLE OR PULL BOX) AT THE DEVELOPER'S EXPENSE.
 - THE CONTRACTOR SHALL PROVE AND MANDEL ALL PVC CONDUIT AFTER BACKFILLING WHILE A CENTURYLINK INSPECTOR IS PRESENT. MANDEL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF WATER PROOF, 400 POUND TENSILE STRENGTH, MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCT OF ALL PVC CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE PVC DUCT SYSTEM WILL HAVE A 3/32" JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH (APPLIES TO PVC PIPE ONLY).
 - A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL PVC CONDUIT WHERE TERMINATED OR STUBBED.
 - CAP AND LABEL ALL SINGLE-DUCT'S (SD'S) AT THE LOT LINES, AS SHOWN ON THE PLANS, UNTIL SIDE-LOT TRENCHES ARE OPEN. LEAVE 18" OF SD ON TRANSFORMER LOTS AND 8' OF SD ON NON-TRANSFORMER LOTS FOR FUTURE EXTENSION.
 - BOND ALL MULTI-DUCT AND SINGLE-DUCT AS REQUIRED.
 - THE DEVELOPER SHALL PROVIDE A # 6 COPPER GROUND WIRE FROM EACH TERMINAL CABINET, BACKBOARD AND/OR NETWORK INTERFACE DEVICE (NID) FOR A SINGLE FAMILY UNIT TO A COMMON GROUND WITH NV ENERGY PER THE NATIONAL ELECTRIC SAFETY CODE SPECIFICATIONS. ALL TERMINAL CABINETS WILL HAVE A 2" METAL RISER.
 - IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THIS TRENCH AND SUBSTRUCTURE DESIGN NOT BE CHANGED WITHOUT CENTURYLINK OUTSIDE PLANT ENGINEERING APPROVAL.
 - CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

- RTC SOUTHERN NEVADA NOTES:**
- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
 - FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
 - FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
 - FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
 - SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS



THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

Shawn Butts
APPROVAL
9/12/19
DATE

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; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC	Engineering Contact: Name: Lori Johnson Phone Number: 702-244-7899	REVISIONS	
Project #: N.441779	WC CLLI: LSVGNVXX	7/23/19	Revision 1: SPLIT UNIT 2 INTO UNITS 2 & 3
Community Name: SUMMERLIN VILLAGE 24 PARCEL K UNITS 2 & 3	Construction Coordinator: Name: Stacie Booth Phone Number: 702-244-7830	-	Revision 2:
Exchange Key: WEST WEST	Remote Switch Exchange Key: N/A	-	Revision 3:

CONFIDENTIAL- Disclose and Distribute Solely to CTL Employees Having Need to Know.

Sheet: 1 Issue Date: 7/23/19

F-2: HEXATRONIC LAYOUT

SINGLE-DUCT (S.D.) NOTE:

- 1) CONTRACTOR TO COIL, TEST AND END CAP THE SINGLE-DUCT (S.D.) AT EACH LOT LINE WHERE DESIGNATED ON THE DRAWINGS.
- 2) LABEL EACH S.D. WITH THE LOT NUMBER.
- 3) LEAVE SUFFICIENT AMOUNT OF SINGLE-DUCT COILED AT THE SIDE LOT TRENCH TO REACH THE ENTRY POINT OF EACH HOME. NOTE THAT LENGTHS VARY TO EACH HOME DUE TO VARYING SETBACKS AT EACH LOT.
- 4) S.D. WILL BE EXTENDED TO EACH HOME AT A LATER DATE WHEN THE SIDE LOT TRENCHES ARE OPENED.

RTC SOUTHERN NEVADA NOTES:

- FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4 AND 500.5
- FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
- FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS, SEE RTC UNIFORM STANDARD DRAWINGS 501 AND 501.1
- FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
- SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW)

CUSTOMER OWNED PREMISE WIRE (COPW) SHALL CONSIST OF ONE SEPARATE CAT-5E/CAT6 FOR VOICE AND ONE SEPARATE CAT-5E/CAT6 FOR VIDEO/DATA. COPW SHALL BE RUN FROM THE OUTDOOR TELEPHONE SERVICE BOX TO EACH RJ11 (VOICE) AND RJ45 (DATA) JACK AS DESIGNATED BY THE BUILDER.

CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET.

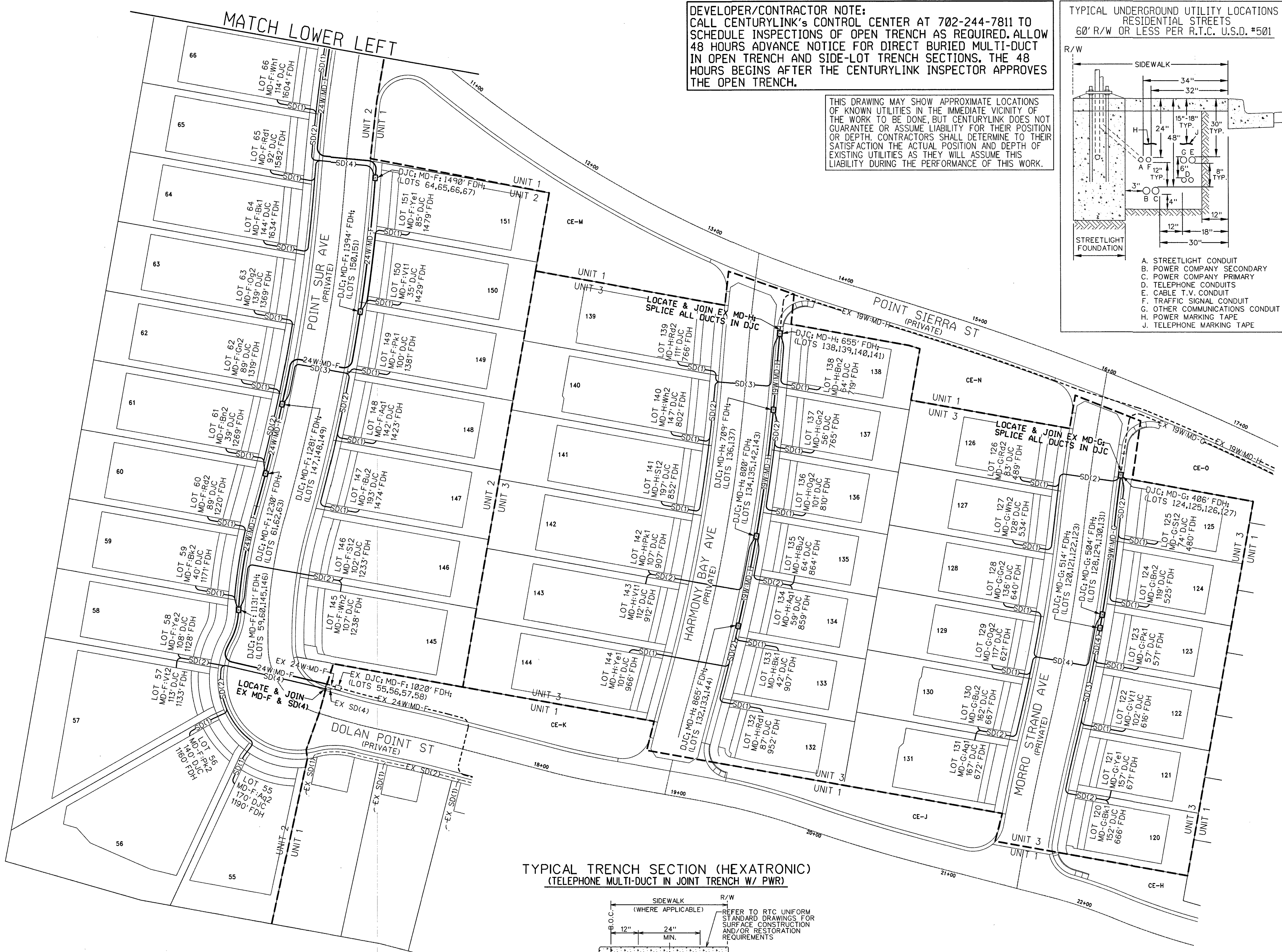
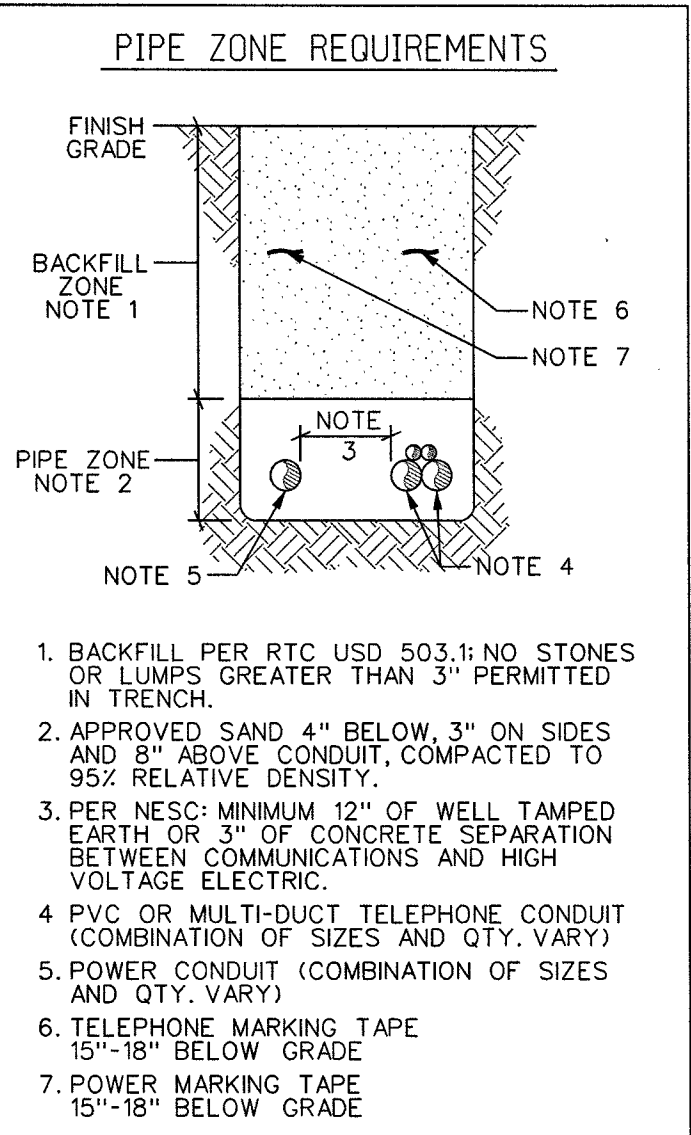
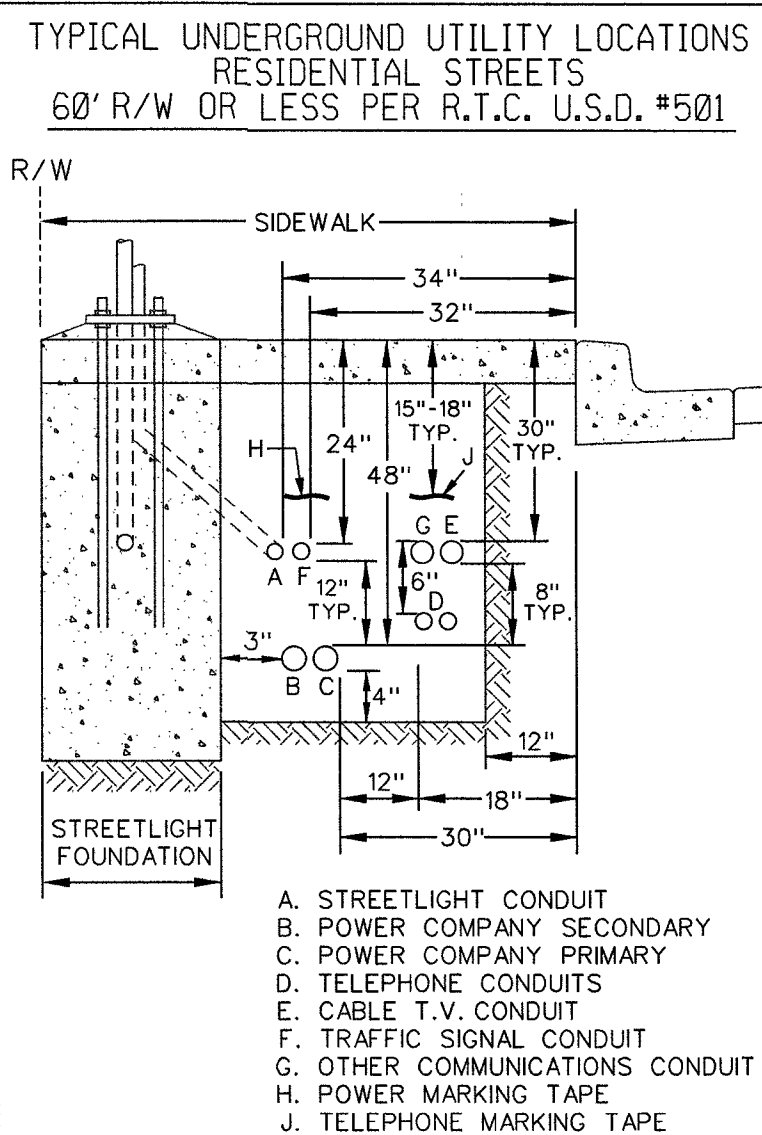
CONTACT THE CENTURYLINK ENGINEER FOR ADDITIONAL INFORMATION REGARDING CENTURYLINK'S FIBER TO THE PREMISE DEPLOYMENTS FOR SINGLE FAMILY HOMES.

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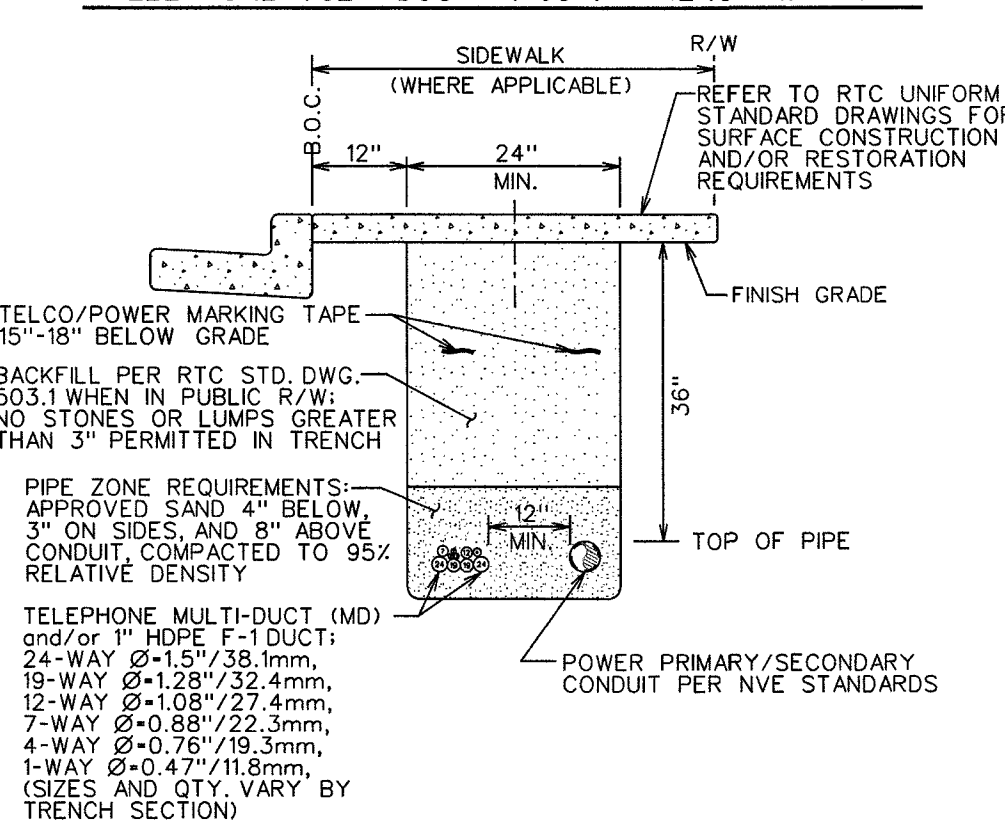
THIS PROJECT HAS BEEN DESIGNED AS JOINT TRENCH WITH NV ENERGY PER THE LATEST NV ENERGY PLAN. NOTIFY THE CENTURYLINK ENGINEER IMMEDIATELY IF REVISIONS OCCUR.

DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

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TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



APPROVED FOR CONSTRUCTION

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APPROVAL: *Shane Butts* DATE: 9/2/19

CITY OF LAS VEGAS PERMIT REQUIRED *

DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY

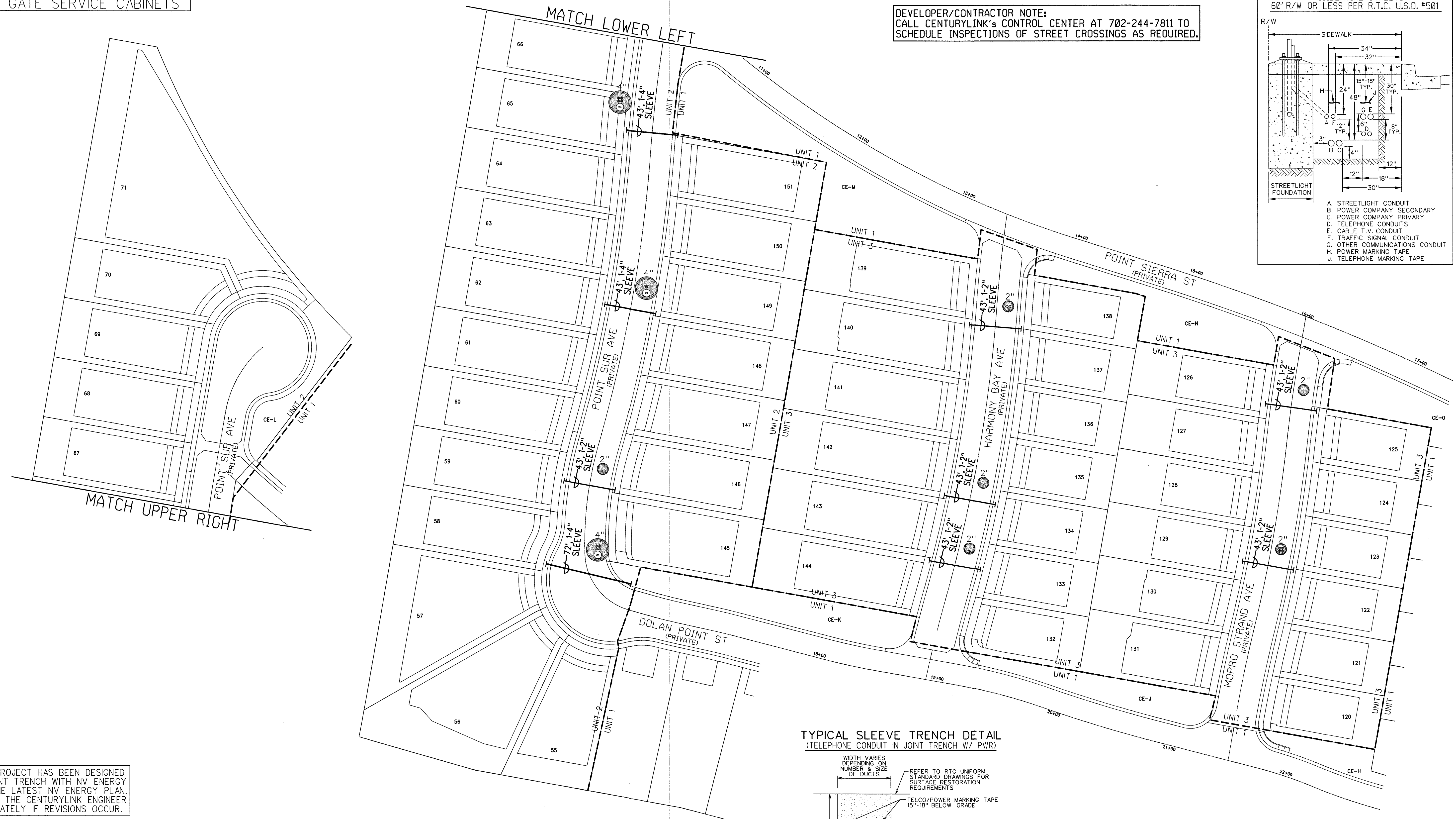
*CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY

INSPECTOR: _____ DATE: _____

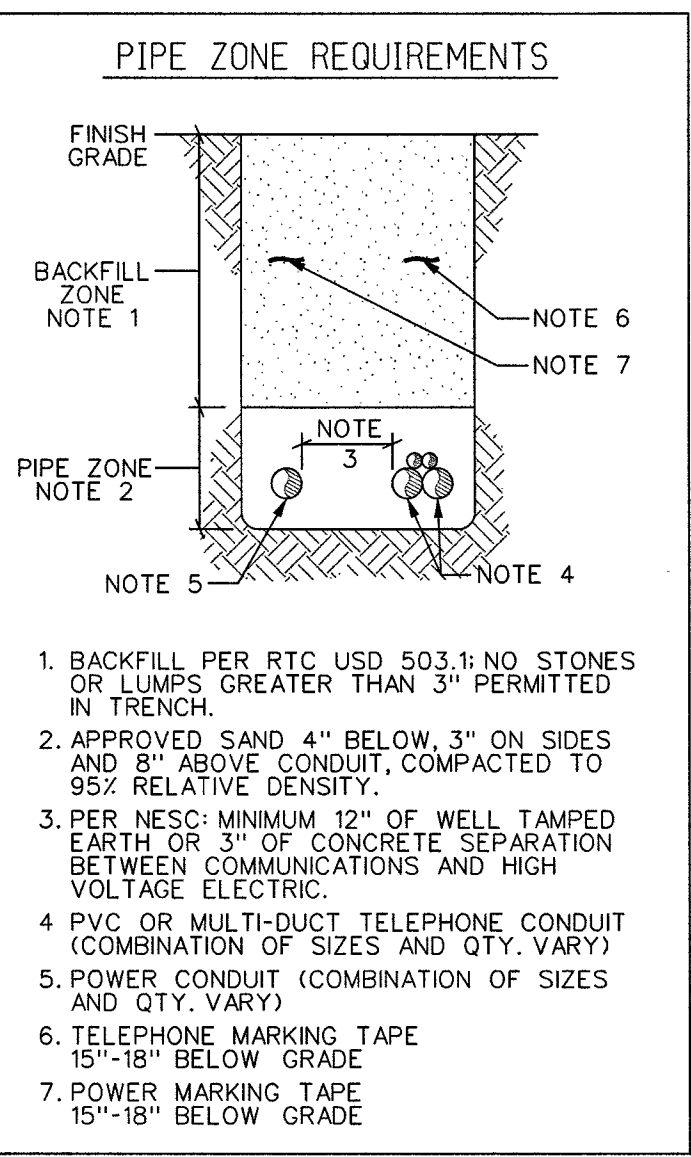
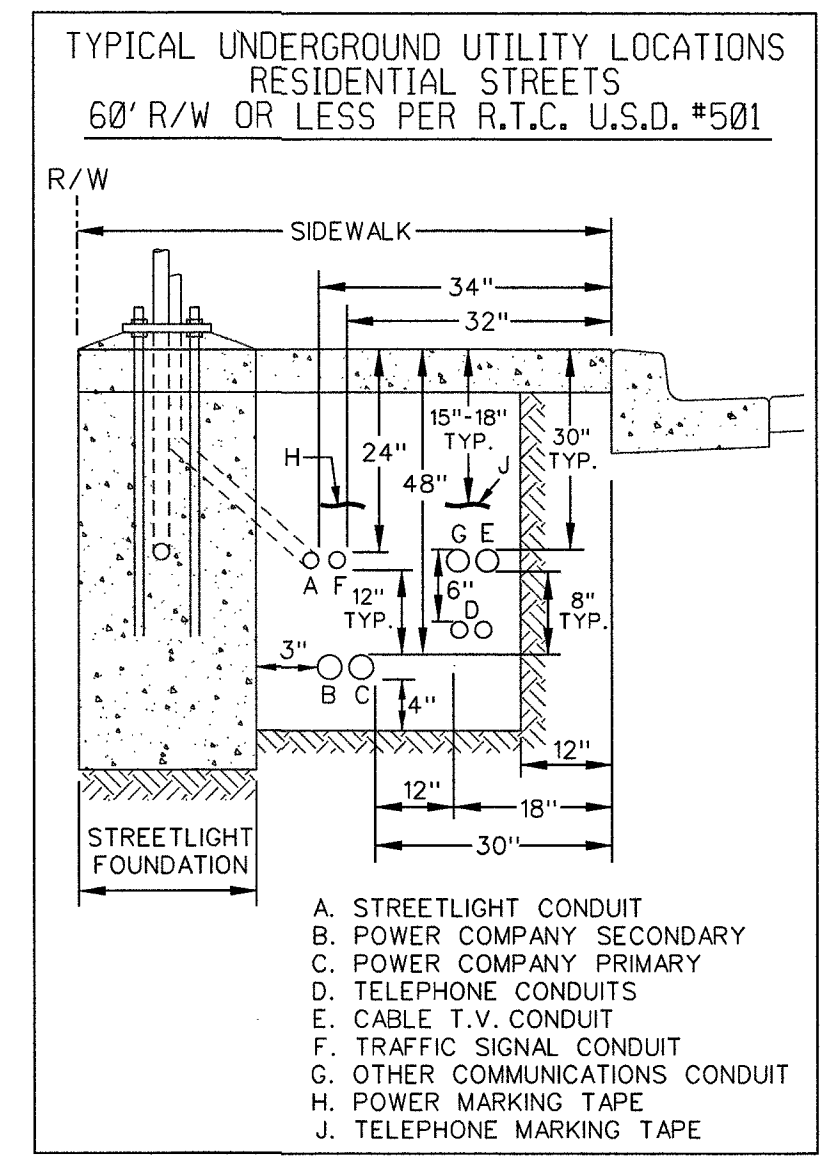
OR 1-800-227-2600

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC		Engineering Contact	Name: Lori Johnson	REVISIONS	
Project # N.441779	WC CLLI: LSVGNVXW	Contract Engineer	Name: Kyle Cummings		
Community Name: SUMMERLIN VILLAGE 24 PARCEL K UNITS 2 & 3		Construction Coordinator	Name: Stacie Booth		
Exchange Key: WEST WEST	Remote Switch Exchange Key: N/A		Phone Number: 702-244-7830	7/23/19	Revision 1: SPLIT UNIT 2 INTO UNITS 2 & 3
				-	Revision 2:
				-	Revision 3:

STREET CROSSINGS - SLEEVES
and GATE SERVICE CABINETS



DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK'S CONTROL CENTER AT 702-244-7811 TO
SCHEDULE INSPECTIONS OF STREET CROSSINGS AS REQUIRED.

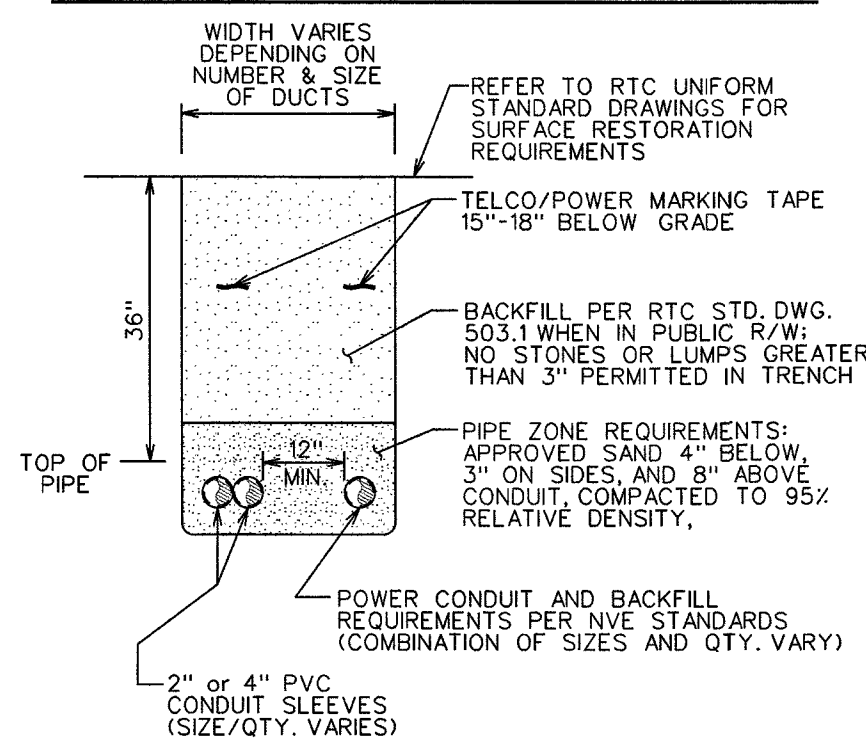


THIS PROJECT HAS BEEN DESIGNED
AS JOINT TRENCH WITH NV ENERGY
PER THE LATEST NV ENERGY PLAN.
NOTIFY THE CENTURYLINK ENGINEER
IMMEDIATELY IF REVISIONS OCCUR.

- RTC SOUTHERN NEVADA NOTES:
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TYPICAL SLEEVE TRENCH DETAIL
(TELEPHONE CONDUIT IN JOINT TRENCH W/ PWR)



APPROVED FOR CONSTRUCTION

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R/W OR CLV EASEMENTS ONLY.
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OR EASEMENTS FOR WORK SHOWN ON
PRIVATE PROPERTY IS THE RESPONSIBILITY
OF THE UTILITY.

APPROVAL: *Sham Butts* DATE: 9/12/19

CITY OF LAS VEGAS PERMIT REQUIRED *		AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY		
* CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY		
INSPECTOR:	DATE:	

Project Description: RESIDENTIAL FIBER TO THE PREMISE (FTTP) T&S - HEXATRONIC	
Project # N.441779	WC CLLI: LSVGNVXW
Community Name: SUMMERLIN VILLAGE 24 PARCEL K UNITS 2 & 3	
Exchange Key: WEST WEST	Remote Switch Exchange Key: N/A

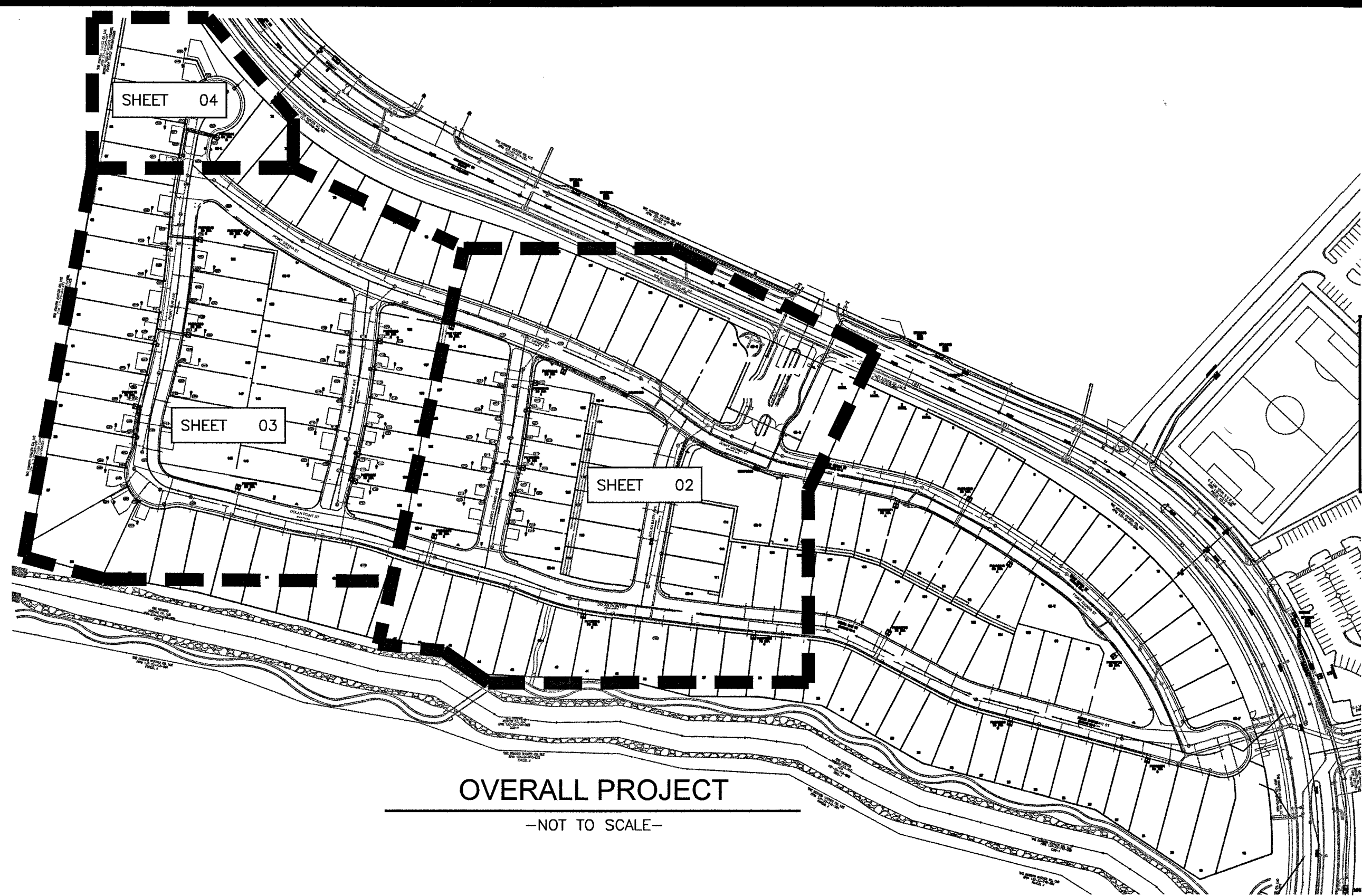
Engineering Contact Contract Engineer	Name: Lori Johnson Phone Number: 702-244-7899 Name: Kyle Cummings
Construction Coordinator	Name: Stacie Booth Phone Number: 702-244-7830

REVISIONS			
7/23/19	Revision 1: SPLIT UNIT 2 INTO UNITS 2 & 3		
-	Revision 2:		
-	Revision 3:		

CenturyLink

CONFIDENTIAL - Disclose and Distribute
Solely to CTL Employees Having a
Need to Know.

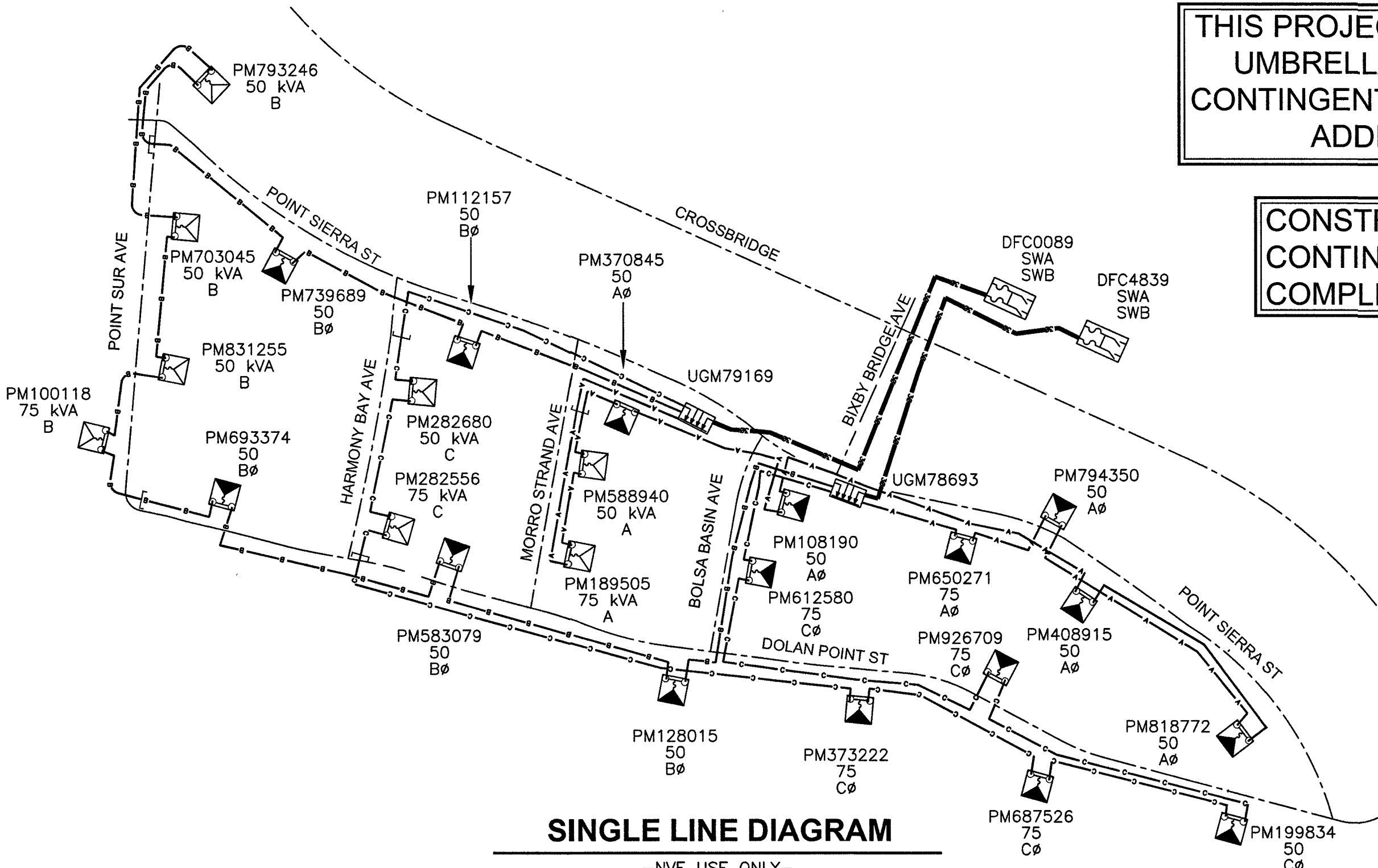
Sheet: 24 Issue Date: 7/23/19



FIRE HYDRANT CLEARANCE:
6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS-5

THIS PROJECT IS PART OF MASTER PLAN UMBRELLA ID# 3000725849 AND IS CONTINGENT UPON THE COMPLETION OF ADDENDUM 3001571944

CONSTRUCTION OF THIS JOB IS CONTINGENT UPON THE COMPLETION OF WR#3002373635



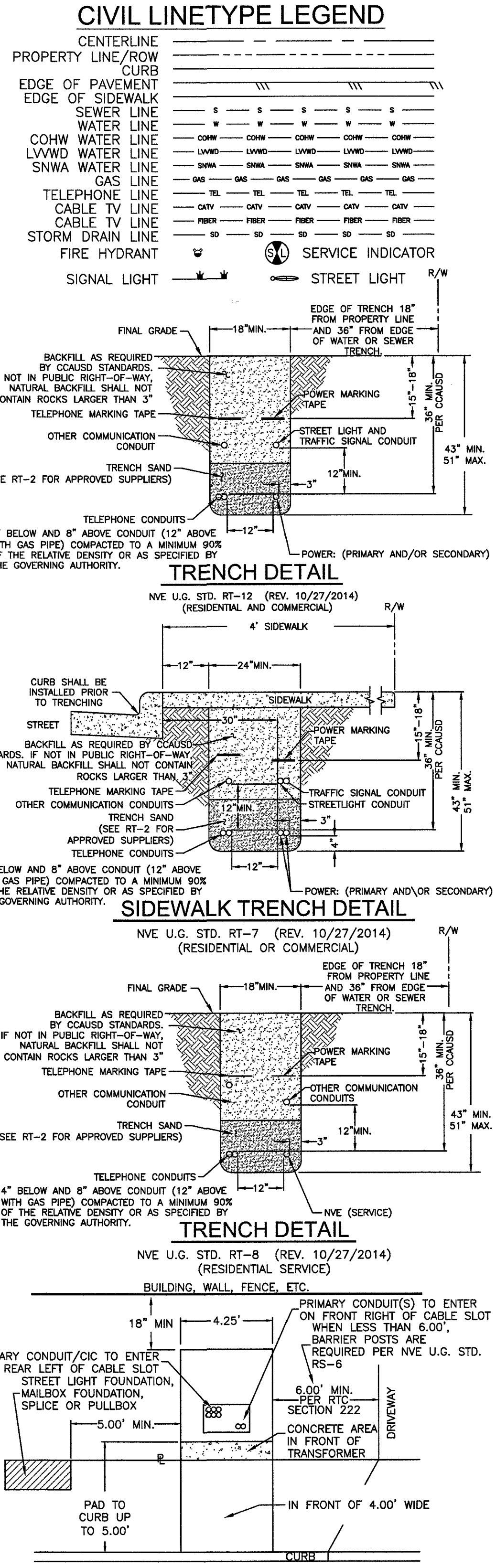
SOURCE	PROJECT CONNECTED LOAD (3ø)				LOOP
FC OR RESER	PH.	EX: KVA	ADDED KVA	TOTAL KVA	FC OR RESER
DFC0089	A	325	125	450	DFC4839
UGM79169	B	250	225	475	UGM78693
BLT1218	C	350	125	475	BLT1218

RTC NOTES:	
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS	
1	500.1 0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
2	500.2 0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
3	500.3 OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
4	500.4 OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
5	500.5 OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
6	501 TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W
7	501.1 TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W
8	503 METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
9	503.1 METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
10	BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
11	234 SIDEWALK
12	506 UTILITY POTHOLE REPAIR
13	216 "L" TYPE CURB AND GUTTER

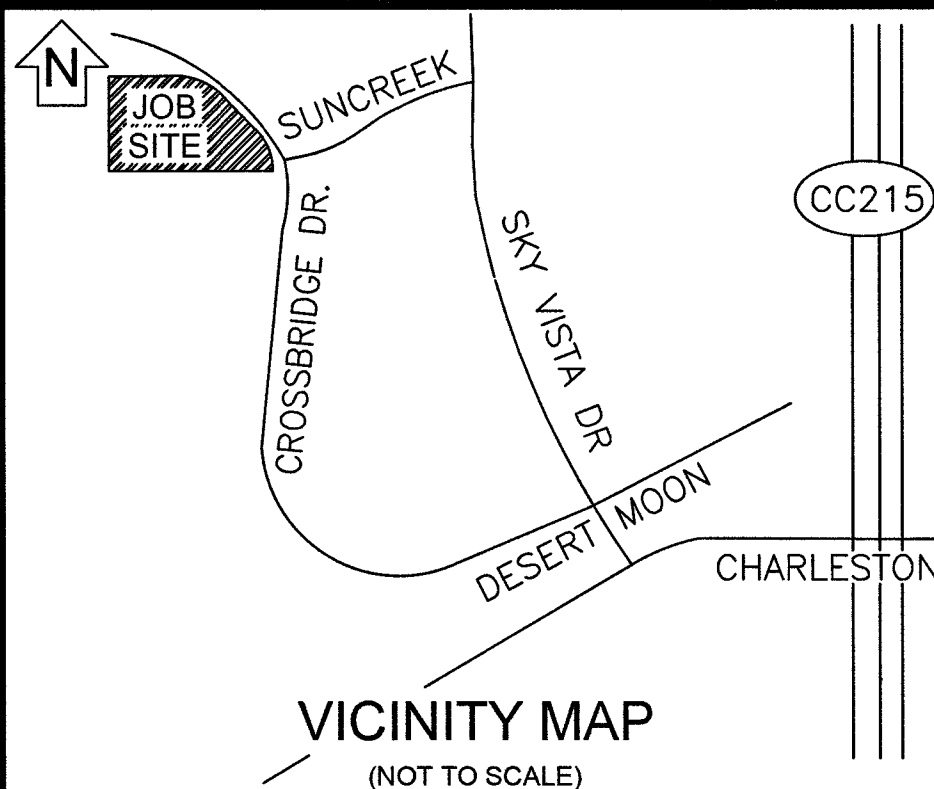
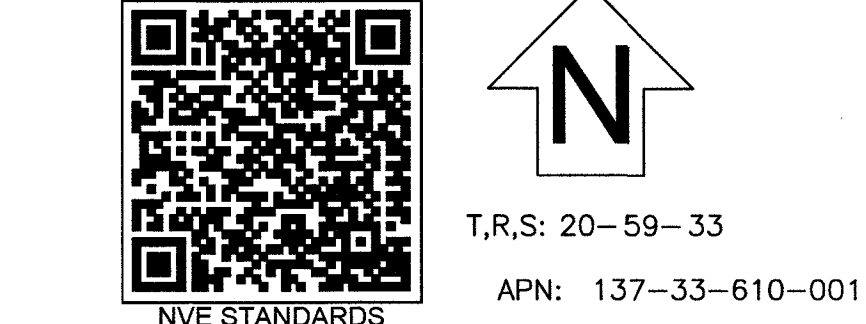
NV ENERGY SCHEDULING NOTE: DAY (NO LANE BLOCKS)
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME WITH NO TRAFFIC CONTROL REQUIRED.
GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

CONSTRUCTION / INSPECTION REQUIREMENTS
WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstruction/standardsandstandards.htm
NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:
1. BOTTOM SAND AND CONDUIT INSTALLED
2. TOP SAND INSTALLED
3. BACKFILL INSTALLED
CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).
NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.
NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.
METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
• [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
• APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
• THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
• METERING INSTALLATION IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS, ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).
TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstruction/developerdashboard.htm

METER LOCATION & ACCESS REQUIREMENTS
(NV ENERGY STANDARDS RPI-2 & RPI-G)
MIN. 3'x3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.
SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).
A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN FROM DRIVEWAY OR OTHER TRAFFIC AREA.
BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.
VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.



GENERAL NOTES:
ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.
REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.
THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.
ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.
SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.
THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.
USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.
CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.
ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.
APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.
ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.
ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETE 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-6G.
2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')
3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')
6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')
WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.
DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.
EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.
PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.
WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRING AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.
NO COVERED PARKING IN FRONT OF EQUIPMENT.
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; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.



AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
CALL 1-702-402-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811
OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-8000

NO.	DESCRIPTION	DATE	REV BY
1	UPDATE TITLE TO "BIXBY CREEK UNIT 2 AND 3". ADD LINE SHOWING SEPARATION BETWEEN PHASES 1/2/3, PER CUST REQUEST, SHEETS 2/3/4	5/25/2019	LM AS
2			
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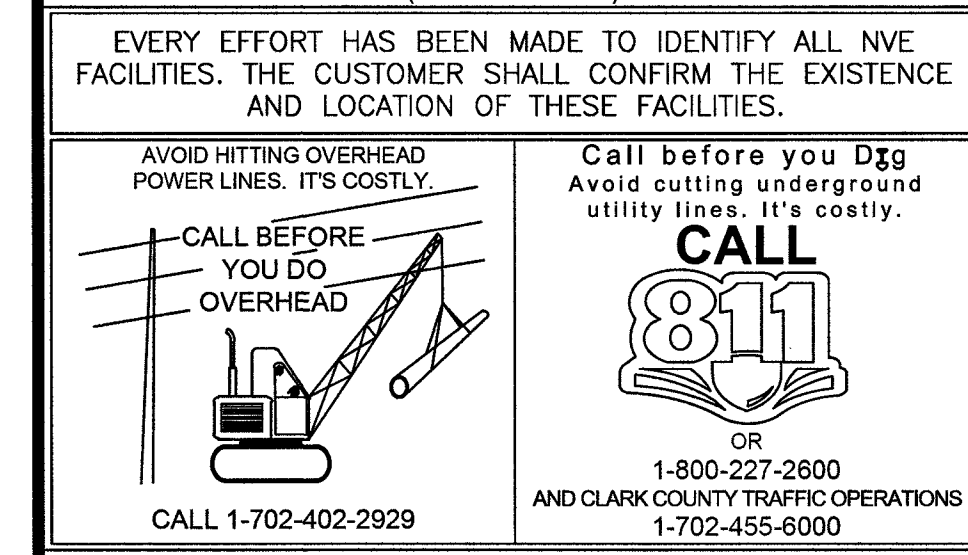
STANDARD DCA
PROJECT PURPOSE:
SERVE RESIDENTIAL SUBDIVISION WITHIN THE MASTER PLAN COMMUNITY OF 3000725849-SUMMERLIN V24 PHASE 2 AND 3 OF PARCEL K- BIXBY CREEK (49) HOMES, 320A 120/240V PANELS

EXHIBIT 'A'
NVEnergy INFORMATION:
COORDINATOR: SHAWHAN, ANTHONY
PHONE: (702)402-6032 D.F. LOWELL, KEN
DESIGNER: MONTOYA, LUIS
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: WOODSIDE HOMES OF NEVADA, LLC
ENGINEER: RCI ENGINEERING
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 10/8/2018
GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: N/A

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

NVEnergy.
BIXBY CREEK UNIT 2 AND 3
CROSSBRIDGE DRIVE / SUNCREEK DRIVE
PROJ #3002690382 SCALE: 1"=30'
SHEET # 1 OF 4 DATE: 8/9/2018



STANDARD DCA

PROJECT PURPOSE:

SERVE RESIDENTIAL SUBDIVISION WITHIN THE
MASTER PLAN COMMUNITY OF
3000725849—SUMMERLIN V24
PHASE 2 AND 3 OF PARCEL K— BIXBY CREEK
(49) HOMES, 320A 120/240V PANELS

NVEnergy INFORMATION:

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PHONE: (702)402-6032 D.F. LOWELL, KEN

DESIGNER: MONTOYA, LUIS

DCA: 285-8182, 219-5761

INSPECTOR: 702-402-3008 OR UGI@NVEnergy.COM

STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118

DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:

JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:

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BIXBY CREEK UNIT 2 AND 3

CROSSBRIDGE DRIVE / SUNCREEK
DRIVE

PROJ #3002690382	SCALE: 1"=30'
SHEET # 2 OF 4	DATE: 8/9/2018

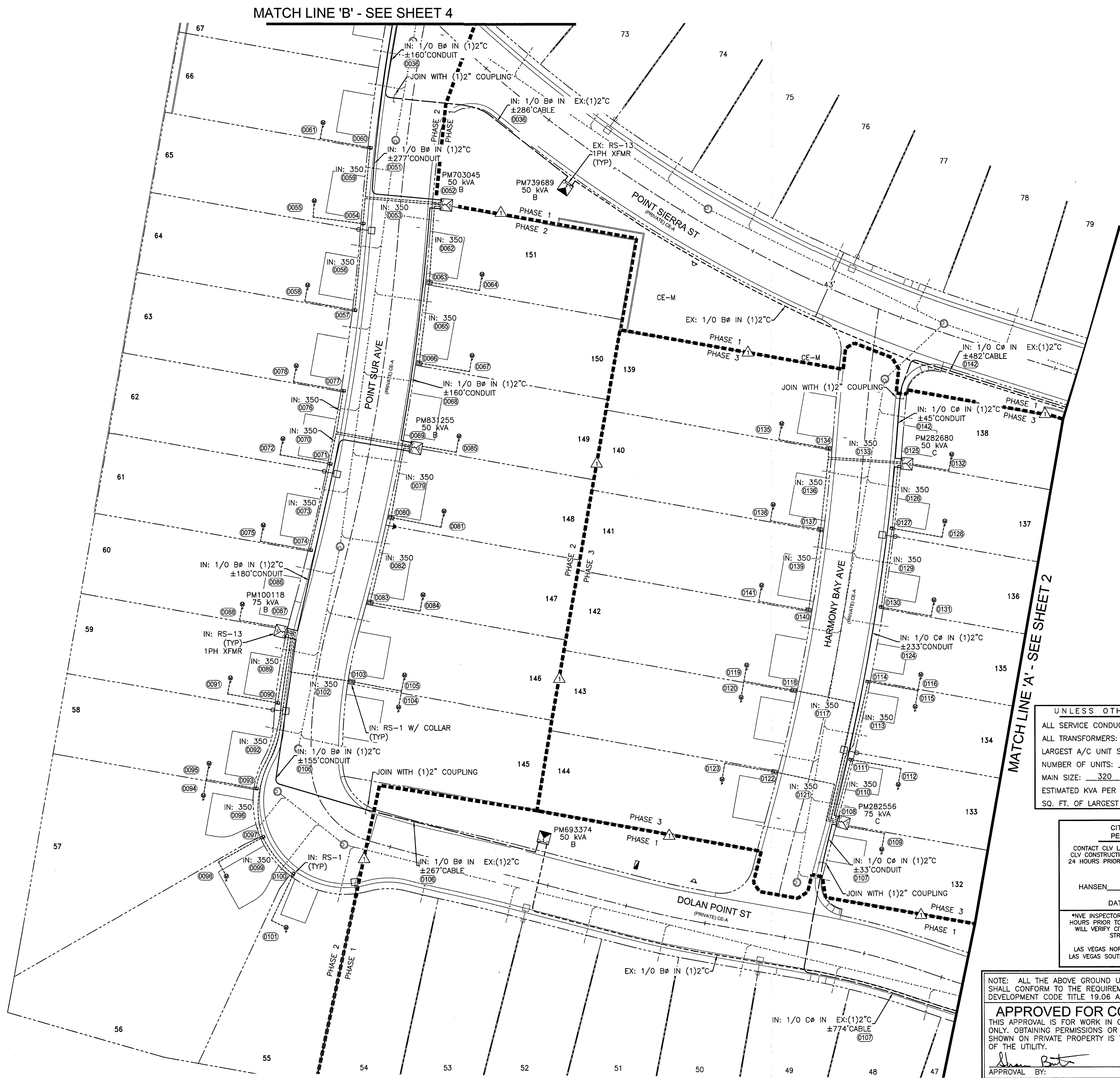
CITY OF LAS VEGAS PERMIT REQUIRED* CONTACT CLV LAND DEVELOPMENT (229-6371) CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337) HANSEN _____ DATE _____ *NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK. FAX PERMIT TO: LAS VEGAS NORTH (RYAN CENTER): 402-4354 LAS VEGAS SOUTH (BELLEVUE CENTER): 402-8864

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

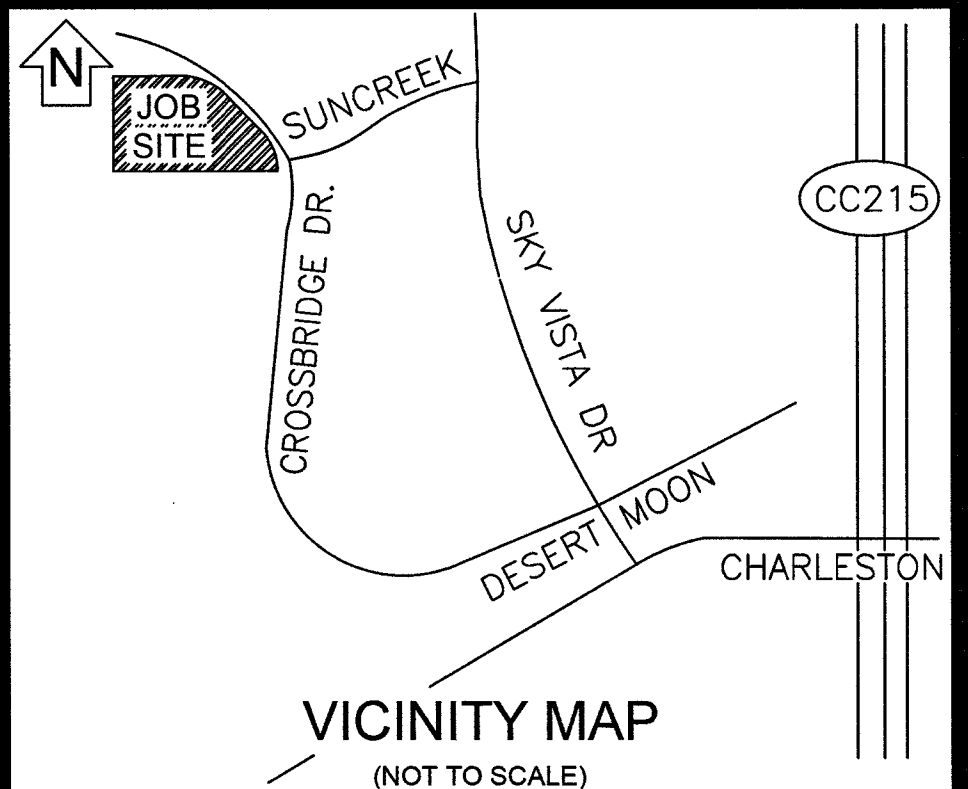
APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.


APPROVAL BY: _____ DATE: 9/12/19



T,R,S: 20-59-33
APN: 137-33-610-001



EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

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OR
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1-702-455-6000

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY
1	UPDATE TITLE TO "BIXBY CREEK UNIT 2 AND 3". ADD LINE SHOWING SEPARATION BETWEEN PHASES 1/2/3, PER CUST REQUEST. SHEETS 2/3/4	5/25/2019	LM AS

STANDARD DCA

PROJECT PURPOSE:

SERVE RESIDENTIAL SUBDIVISION WITHIN THE MASTER PLAN COMMUNITY OF 3000725849-SUMMERLIN V24 PHASE 2 AND 3 OF PARCEL K- BIXBY CREEK (49) HOMES, 320A 120/240V PANELS

EXHIBIT 'A'

NVEnergy INFORMATION:

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PHONE: (702)402-6032 D.F. LOWELL, KEN
DESIGNER: MONTOYA, LUIS
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:

JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:

APPLICANT: WOODSIDE HOMES OF NEVADA, LLC
ENGINEER: RCI ENGINEERING
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 10/8/2018

GOVERNMENT INFORMATION:

AGENCY: CLV
APPROVAL DATE: N/A

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 4/0 AL. TRI.
ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
LARGEST A/C UNIT SIZE: 5 TONS
NUMBER OF UNITS: 49
MAIN SIZE: 320 AMPS
ESTIMATED KVA PER UNIT: 8.3 KVA
SQ. FT. OF LARGEST UNIT: 2,589 FT²

CITY OF LAS VEGAS
PERMIT REQUIRED*

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN
DATE

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

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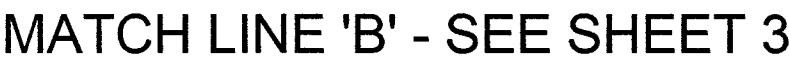
APPROVAL BY: *[Signature]* DATE: 8/2/19

BIXBY CREEK UNIT 2 AND 3

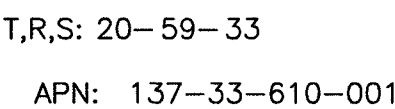
CROSSBRIDGE DRIVE / SUNCREEK DRIVE

PROJ #3002690382 SCALE: 1"=30'

SHEET # 3 OF 4 DATE: 8/9/2018



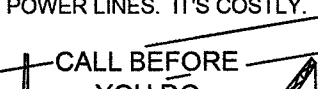
THE HOWARD HUGHES CO. LLC
APN: 137-22-000-017
INTERIM WESTERN BORDER CHANNEL
FUTURE STREET IMPROVEMENTS



VICINITY MAP
(NOT TO SCALE)

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[illegible]

PROJECT PURPOSE:

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PHASE 2 AND 3 OF PARCEL K- BIXBY CREEK
(49) HOMES, 320A 120/240V PANELS

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DESIGNER: MONTOYA, LUIS

DCA: 285-8182, 219-5761

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ENGINEER: RCI ENGINEERING

CONTACT: WAGNER, DAVE ** 702-376-0526

APPROVAL DATE: 10/8/2018

GOVERNMENT INFORMATION:

AGENCY: CLV

APPROVAL DATE: N/A

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PROJ #3002690382	SCALE: 1"=30'
SHEET # 4 OF 4	DATE: 8/9/2018

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APPROVAL BY: Shane Benth DATE 9/12/19