

DEVIATIONS FROM STANDARDS	
NONE.	

SEWER IMPROVEMENTS		
DESCRIPTION	PUBLIC	PRIVATE
8-INCH SEWER	33 LF	598 LF
SEWER MANHOLE UNDER 6 FEET	1 EA	6 EA
WATER AND FIRE IMPROVEMENTS		
DESCRIPTION	PUBLIC	PRIVATE
8" WATER MAIN	348 LF	LF
1.5" CU WATER LATERAL	140 LF	LF
1" CU WATER LATERAL	35 LF	LF
8" WATER LATERAL	57 LF	LF
8" RPDA	2 EA	EA
WATER MAIN TAP	7 EA	LF
WATER SERVICE TO LOTS	4 EA	EA
LANDSCAPE WATER SERVICE	1 EA	EA
FIRE HYDRANT	EA	3 EA

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA (NEVADA)", LATEST EDITION, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA (NEVADA)", LATEST EDITION, THE "UNIFORM STANDARD IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE WORK BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS DEVIATIONS FROM STANDARDS.
2. THE EXISTING AND LOCATED UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM GLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITIES ARE NOT TO BE DELETED OR REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LOSS OF TIME IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND THE CITY OF LAS VEGAS.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. THE CITY SEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 500' IN EXTRUDED-TYPE CURB
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 23.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. THE CONTRACTOR SHALL PROVIDE APPROPRIATE TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE GRADING TO BE AS SHOWN ON PLANS.
12. ALL TRANSITION WORK SHALL CONFORM TO THE SLOPS REPORT AS PREPARED BY THE NOVA GEOTECHNICAL AND INSPECTION SERVICE. THE SLOPS REPORT HAS, DATE, TIME, AND LOCATION, BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS, ANY MONUMENTS DESTROYED OR DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S AVAILABLE REPAIRS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY ADJACENT TO DRIVEWAYS, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER, MAP NOTES.
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL, AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. MATERIALS SHALL ADJUST ALL NEW AND EXISTING LINES, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLED TO THE CONCERNING FACILITIES THAT REQUIRE UNDERGROUND LOCATIONS SUCH AS SEWER LATERALS LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OBTAIN SITE INSPECTION AND TESTING CERTIFIED THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE GLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY GLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CATCH BASIN AND CONNECTION TO THE SEWER MAIN, AND SANITARY SEWER LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SEWER LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. (WAY) USED ONLY ON PROJECTS ASSOCIATED WITH A TENTATIVE MAP CONTAINING 5 LOTS OR MORE)
SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY MAPS. THE LOCATION 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 CATCH BASIN AND CONNECTION TO THE SEWER MAIN, AND SANITARY SEWER LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SEWER LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE INFORMATION SHALL BE DECIMAL DEGREE COORDINATES WHICH SHALL BE BASED ON THE 1983 NORTH AMERICAN DATUM. THE CONTRACTOR SHALL PROVIDE A DEDICATED DROPPED RIGHT-OF-WAY, SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAIN CITY VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION OF THE PROJECT. A COLLECTION SYSTEMS LATEST EDITION.
24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

CITY OF LAS VEGAS STREETLIGHT NOTES

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

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT-ON-SITE SUPERVISION OF AN IWSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES, THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREETLIGHTS 1-702-229-6331
FAST 1-702-432-4300

3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I & II, ADOPTED BY THE BOARD OF SUPERVISORS, JANUARY 1988. SEE SUBSEQUENT REVISIONS, BRACKETED MODIFICATIONS (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELEVATION AS SHOWN IN STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENERALLCAP SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4. MORE THAN TWO SIGNAL HEADS.

4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.

5. LINE SIDE OF METER TO BE WIRED WITH THREE #5/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG (2 BLACK, 2 WHITE) AND ONE #8 AWG THW GROUND WIRE.

6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE LED. AS PROVIDED BY THE CITY OF LAS VEGAS (CLV), DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER GLV WEBSITE. UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS, INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.3.S. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL TAPABLE P.O.E. CONTROL. FOR LUMINAIRES THAT SHALL BE 2(TWO) #1 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET, IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICING BETWEEN THE CABINET AND LUMINAIRE FIXTURES.

7. THE INTERNALLY MINIMATED STRATEGIC NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW CONDUCTOR. STRATEGIC NAME SIGNS SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TYPE(S) SIGNAL, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW LUMINATED STRATEGIC NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623.7.0.2.16 OF THE SPECIAL PROVISIONS.

8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.

9. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NOS. 705, N. 706, AND N. 707.

10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IWSA SPEC. N. 10.

11. PEDESTRIAN PUSH BUTTONS SHALL BE ADJUSTABLE TABLE "POLARA NAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH 2N PUSH BUTTON, 2 OPTIONS AND SHELF-MOUNT BIO CONTROL UNIT WITH SOLID CABLE) OR CAMPBELL COMPANY WAPP'S WRLESS P™. PEDESTRIAN PUSHBUTTON SYSTEM WITH APC IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623.7.0.2.4 U.S. PUSH BUTTON SIGNS SHALL BE R10-36 PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS SHOWN IN THE MANUFACTURER'S LITERATURE. THE SIGN SHALL BE 10' HIGH. THE SIGN SHALL BE 10' HIGH. THE SIGN SHALL BE MOUNTED 42" ABOVE THE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10'. SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. NO. 235-K (LATEST EDITION). WHEN AN EXISTING SIGNAL WITH EXISTING ADJUSTABLE-TABLE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE OF THE ORIGINAL. ANY CHANGES TO THE EXISTING SIGNAL SHALL BE APPROVED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARDWARE, TO PROVIDE A FULLY FUNCTIONING SYSTEM.

12. THE ROUTING AND TERMINATION OF POLES AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLAN. ANY CHANGES SHALL BE APPROVED BY THE PROJECT ENGINEER.

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF WILL NEED TO PASS 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.
5. IF THE IMPROVEMENTS REQUIRE THE CULBERTATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH WHITE MATERIALS TO THE NEW STANDARD OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE RETROREFLECTIVE SHEETING IN ACCORDANCE WITH GOSSARD R70 AND T16 AND SIGNS SHALL HAVE AN ANTI-GLARE PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL 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.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC INTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED UNDER HEREON, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL 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 IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT BUSINESS OWNERS AND TRAFFIC.
12. 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.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE CITIZENS 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 EVENTS.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE PAVEMENT MARKINGS AND SIGNAGE THAT MAY BE REQUIRED. ADDITIONAL MARKING AND SIGNING SHALL BE PROVIDED TO MATCH THE TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

LAS VEGAS FIRE & RESCUE FIRE PREVENTION FIRE HYDRANT AND ACCESS GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #3325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S-APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S WATER LINE TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE THE COMMENCEMENT OF WORK.
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS.
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTION BEFORE COVERING LINES. CENTER LINE IS ACCEPTABLE FOR THE HYDRO TEST WITH PRIOR FIRE PREVENTION APPROVAL.
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U/L LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE.
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF SITE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL OF LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION.
9. PRIVATE HYDRANTS SHALL BE PAINTED RED.
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS:
 - RESIDENTIAL-500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
 - COMMERCIAL-300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A

[illegible]

INDEPENDENT ESTIMATIONS.

SOUTHWEST GAS CONSTRUCTION NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. 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 AS DICTATED BY LOCAL CODES AND STANDARDS
 - a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

CAUTION: HIGH PRESSURE GAS

CALL SOUTHWEST GAS AT 702-400-0789 FOR STANDBY WHEN EXCAVATING OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

James J. Stewart
SOUTHWEST GAS APPROVAL

2/21/15
DATE

STORMWATER MANAGEMENT NOTES

GENERAL STORMWATER NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORMWATER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED BY THE OWNER OR HIS/HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR OTHER UNUSUAL CIRCUMSTANCES. SUCH BEST MANAGEMENT PRACTICES ARE RESPECTED BY THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STATEMENT OF GENERAL INTENT FOR CONSTRUCTION ACTIVITY PERMITS AND U.S. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO EROSION OR VEHICLE TRAFFIC, AND AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUPPRESSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STATEMENT OF GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR000000, SECTION II.A.12.
4. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT # 136089 REVISED 08/01/2017

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB OUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3602, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER 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.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. 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 STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
- ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJACENT 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 PLAN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

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

APPROVED FOR CONSTRUCTION

Jane York

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136089 FIRST APPROVED DATE: 3-6-19

LVVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ONSITE 2,750 GPM

[illegible]

13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT. OF THE PERIMETER OF THE RADIUS OF A CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT. OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [FC § C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [FC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [FC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC § C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS A 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [FC § C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT POINT TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC § 503.2.2]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [FC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 IN. [FC § 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT. FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LINES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [FC § 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [FC § 503.11]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [FC § 503.2.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [FC § 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. 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. [FC § 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE FC § 503.6 AND FC APPENDIX M.

CITY OF LAS VEGAS SEWER NOTES

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

STATION: 2558.08 (US SURVEY FEET) 779.704
(METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988
(NAVD 88).

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO
No. 12732 CIVIL STRUCTURAL
Exp. 12/31/19

02/05/2019

LEGEND

CL OR SECTION LINE	_____	_____
PROPERTY LINE	=====	=====
RIGHT OF WAY LINE	=====	=====
EASEMENT LINE	=====	=====
SAWCUT LINE	_____	_____
HEAVY AC PAVEMENT		
CONCRETE PAVEMENT		

	EXISTING	PROPOSED
EDGE OF PAVEMENT	— / — / — / — / —	— / — / — / — / —
"A" TYPE CURB	— — — — —	— — — — —
"L" TYPE CURB	— — — — —	— — — — —
WALLS	=====	=====
FENCE	— X — X — X —	— X — X —
SIGN		
CONTOUR	— (2210) —	— 2210 —
SPOT ELEVATION		
MANHOLE - SEE DESCRIPTION BELOW		
100W HPS STL.		
150W HPS STL.		
200W HPS STL.		
250W HPS STL.		
400W HPS STL.		
FIRE HYDRANT		
GATE VALVE		
REDUCER		
CLEAN OUT		
UTILITY BOX/ VAULT		

S=SANITARY SEWER, D=STORM DRAIN, E=ELECTRICAL, T=TELEPHONE

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

Call before you Dig
IT'S COSTLY.

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call before you Dig
IT'S COSTLY.

Call before you Dig
Before You Overhead

1-702-432-5300
FREENET A NATIONAL SYSTEM OF INTEROPERABLE [PDS]

811

OR

1-800-227-2600

PROJECT: DURANGO BELTWAY PLAZA
CITY OF LAS VEGAS
SVC OF ROME BLVD. AND RILEY ST.

NOTES + QUANTITIES

SHEET: C-2

2 OF 13

02/05/2019

DATE

103109

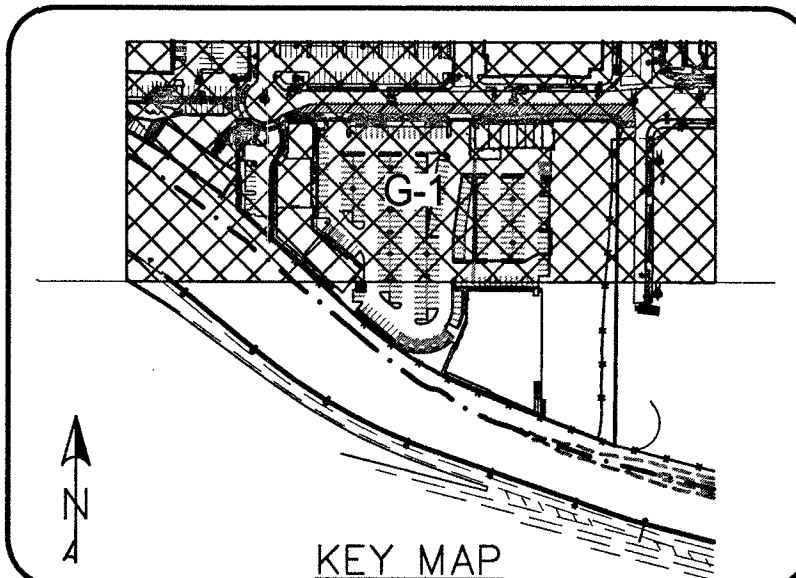
PROJECT NUMBER

RM

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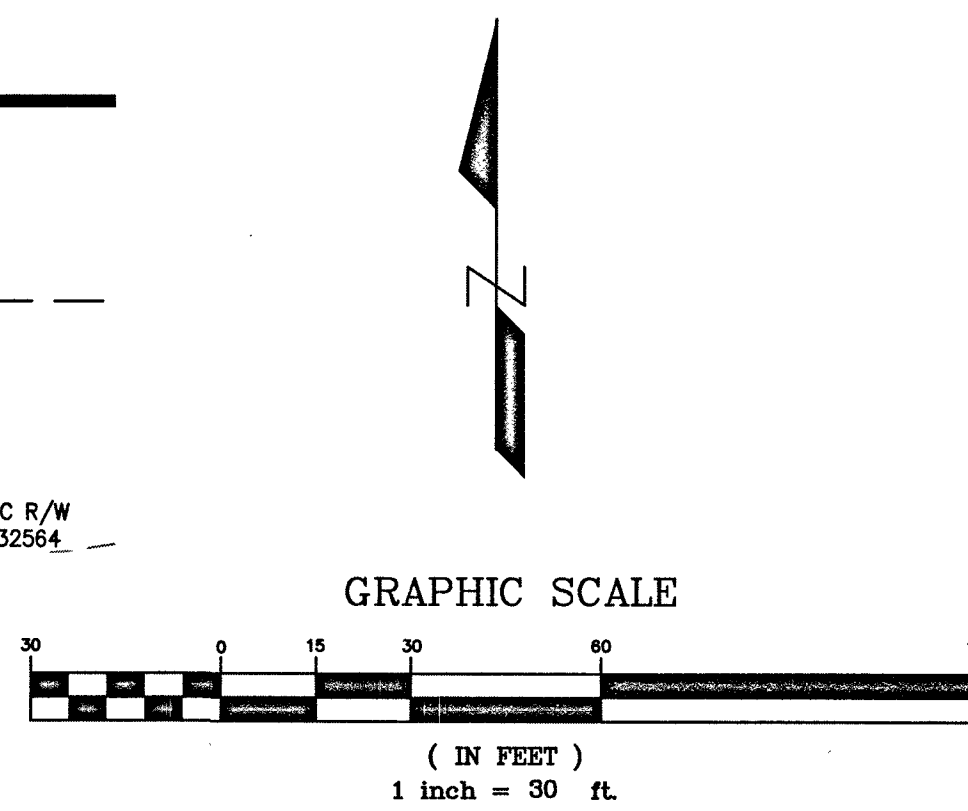
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- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS" (CCAUSD) LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.

- (1) CONSTRUCT LIGHT ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- (2) CONSTRUCT HEAVY ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- (3) SAWCUT AND MATCH EXISTING ASPHALT AT LIMITS SHOWN.
- (4) CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216.
- (5) CONSTRUCT "A" TYPE CURB PER DETAIL 2 ON SHEET D-2
- (6) CONSTRUCT 5" CONC. SIDEWALK PER CCAUSD NO. 234.
- (7) CONSTRUCT SIDEWALK DRAIN PER DETAIL 8, SHEET D-2
- (8) CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235. CASE 1. SEE SIDEWALK TABLE ON SHEET G-1 FOR "A" AND "D" DIMENSIONS.
- (9) CONSTRUCT CONC. VALLEY GUTTER PER DETAIL 4 ON SHEET D-2.
- (10) CONSTRUCT 6" CROSS GUTTER PER CCAUSD NO. 228.
- (11) TRASH ENCLOSURE W/ GATES. REFER TO ARCH. PLANS FOR DETAILS.
- (12) LANDSCAPE. REFER TO LANDSCAPE ARCH. PLANS FOR DETAILS.
- (13) CONSTRUCT STEPS. REFER TO ARCH. PLANS FOR SPECIFICATIONS.
- (14) INSTALL NYLOPLAST DRAIN INLET OR APPROVED EQUAL.
- (15) INSTALL 12" SDR-35 PVC STORM DRAIN
- (16) CONSTRUCT HANDICAP STALL CURB, SEE DETAIL 3 ON SHEET D-2
- (17) CONSTRUCT 3" CURB OPENING, SEE DETAIL 6 ON SHEET D-2
- (18) CONSTRUCT CONCRETE SIDEWALK, SIZE PER PLAN.
- (19) INSTALL RIRRAP, D50=3", THICKNESS=6"
- (20) INSTALL 2" SIDEWALK UNDERDRAIN, PER CCAUSD NO 236
- (21) CONSTRUCT SIDEWALK RAMP, SEE DETAIL 5 ON SHEET D-2
- (22) CONSTRUCT DEPRESSURED CURB TRANSITION, SEE DETAIL 9 ON SHEET D-2
- (23) INSTALL CONCRETE WHEEL STOP

SEE SHEET C-2 FOR CITY OF LAS VEGAS STORMWATER MANAGEMENT NOTES.



SOUTH 007°33'37" WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 NORTH, RANGE 80 EAST, U.M.B., CLARK COUNTY, NEVADA, AS SHOWN IN FILE NO. 206 OF SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BEACHMARK:

CITY OF LAS VEGAS BEACHMARK "SLV902056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.

ELEVATION: 2558.08 (US SURVEY FEET)
779.704 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE
APPROVED FLOOD STUDY DS# DSS018D ON FILE AT THE CITY OF LAS
VEGAS FOR THE SUBJECT PROJECT.

Moe Momeni

MOE MOMENI, P.E. #12732

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.	 AVOID HITTING	Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL
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Call Before You Overhead
1-702-227-2620

UNDERGROUND TRAFFIC
SIGNAL AND STREET
LIGHT SYSTEM CONSULTANTS
IT'S COSTLY! Call before you
UnderGround
1-702-432-5300

FREE A NEWMAN SYSTEM OF TRANSPORTATION (P&T)

811 OR
1-800-227-2600

102	227	2929		
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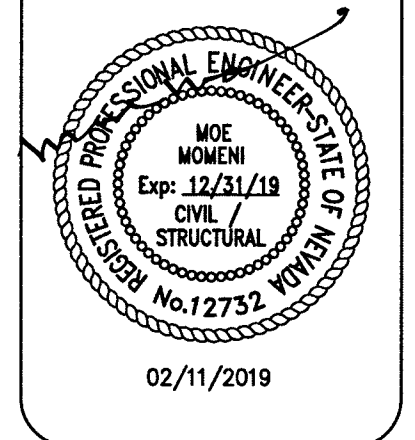
REVISIONS			
BY	DATE	DESCRIPTION	APPROVAL

moment ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING

3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117

TEL: (702) 902-2444 | FAX: (702) 248-8495 | MOE@HHENGINEERS.COM



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

PROJECT: **DURANGO BELTWAY PLAZA**
CITY OF LAS VEGAS
SWC OF ROME BLVD. AND RILEY ST.

GRADING PLAN I

SHEET:
G-1
3 OF 13
CLV 118-02031

EARTHWORK QUANTITIES:
CUT = 3,684 C.Y.
FILL = 7,329 C.Y.

A. THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SHRINKAGE.
B. ALL ONSITE GRADING SHALL COMPLY WITH THE CONDITIONS SET FORTH IN THE PROJECT GEOTECHNICAL REPORT.

	PUBLIC QUANTITY	PRIVATE QUANTITY	
2-INCH ASPHALTIC CONCRETE PAVING		98,704	SY
3-INCH ASPHALTIC CONCRETE PAVING		1,722	SY
4-INCH ASPHALTIC CONCRETE PAVING	10,656		SY
RIP RAP D50=3" T=6"		345	SF
TYPE II GRAVEL	130	1,228	CY
CONCRETE VALLEY GUTTER		261	LF
CURB & GUTTER "L" TYPE	424	431	LF

ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

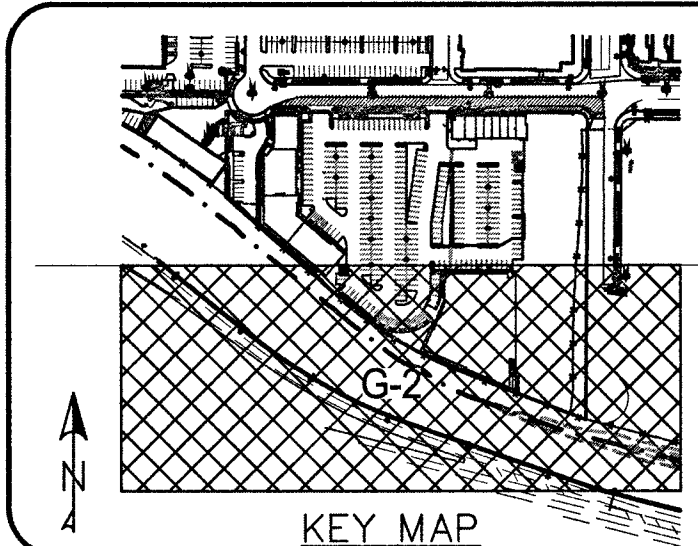
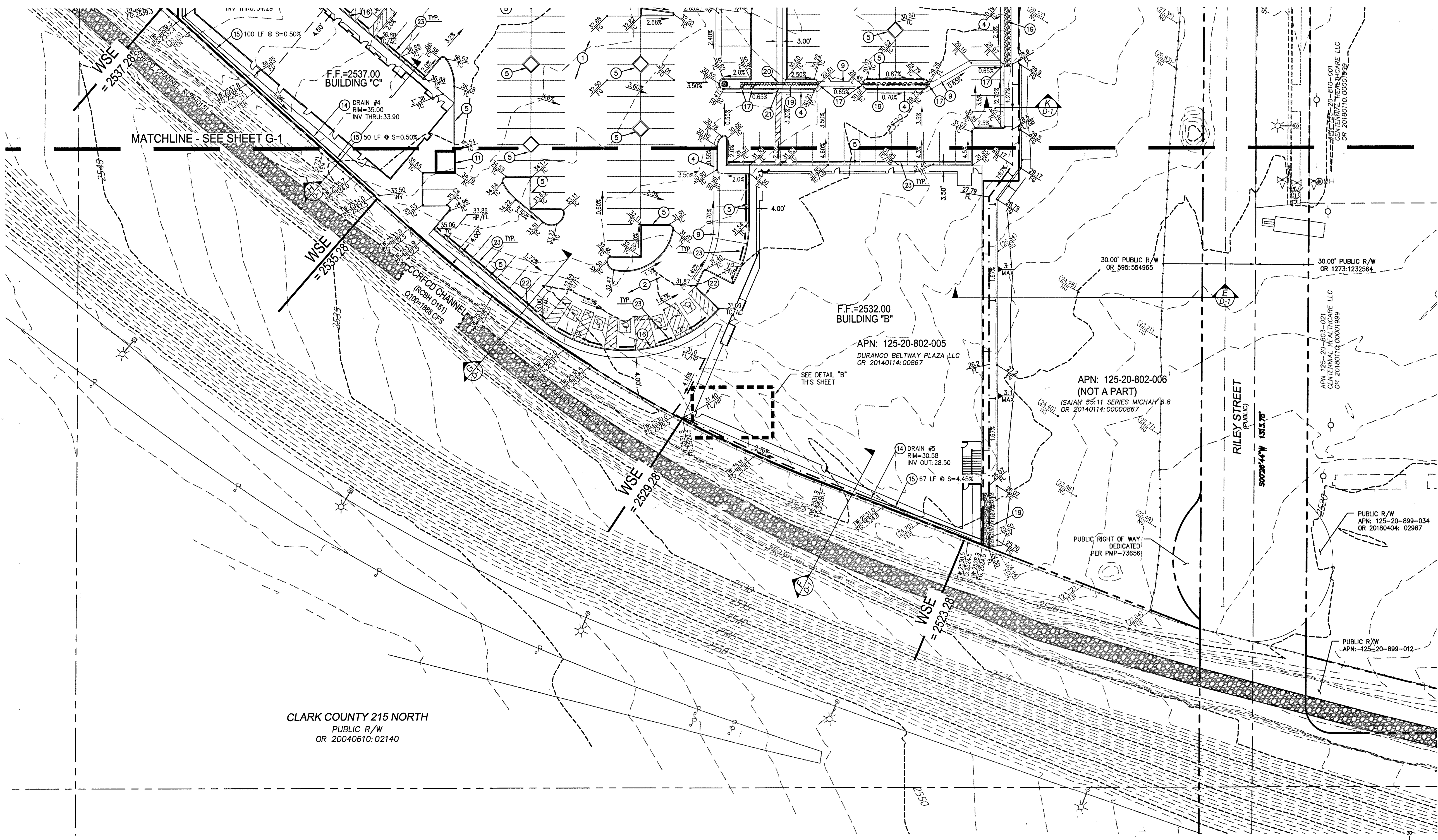
FLOOD ZONE NOTE:
THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE
MAP (FIRM) PANEL No. 32003C1745F
EFFECTIVE DATE: NOVEMBER 27, 2002. THE SITE IS LOCATED
WITHIN FEMA DESIGNATED ZONE X (UNSHADED), A ZONE X
(UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE

PREPARED BY: NOVA GEOTECHNICAL
4480 WEST HACIENDA AVE
SUITE 104
PHONE: (702) 873-3478
PROJECT G-18-045
DATED: 4/5/18

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS JURISDICTION, THAT ARE DAMAGED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO THE CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET THE CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.01.02.
3. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS DIRECTLY TO SCHEDULE STAFF TO LOCATE UNDERGROUND STREET LIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HRS NOTICE IS REQUIRED PRIOR TO LOCATES.

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES INCLUDING LOCATION, ELEVATION, AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO WOMENI ENGINEERS PRIOR TO CONSTRUCTION.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION DURING CONSTRUCTION THROUGH THE USE OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
3. ADD 2500 TO PLAIN GRADES WITH THE EXCEPTION OF FINISHED FLOORS UNLESS NOTED OTHERWISE.
4. CONTRACTOR TO VERIFY ALL HANDICAP ACCESSIBLE ROUTES AND PARKING STALLS ARE IN CONFORMANCE WITH A.D.A. ACCESSIBILITY GUIDELINES AND NOT TO EXCEED THE MAXIMUM SLOPES IN ACCORDANCE TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. WOMENI ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATION AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING ARE FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO THE WATER, GAS, CABLE, AND TELEPHONE LINES. FOR POWER, GAS, AND IRRIGATION LINES ALL EXISTING UTILITIES ARE SHOWN HEREON. CONTRACTOR ASSUMES RESPONSIBILITY FOR VERIFYING THE LOCATION OF ALL UTILITIES. IF CONFLICTS EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, AND THE PROJECT ENGINEER IMMEDIATELY.
6. NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHTS, MAY BE LOCATED WITHIN THE RIGHT-OF-WAY OF ANY ADJACENT PROPERTY UNLESS, SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 42 INCHES MEASURED FROM THE FINISHED GRADE OF THE ADJACENT STREET SURFACE. THE RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE.
7. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CLARK COUNTY BUILDING DEPARTMENT.

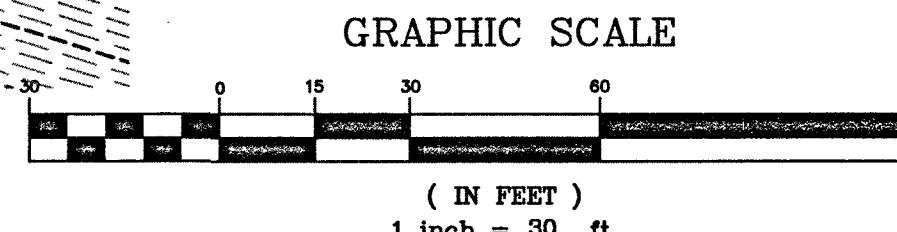
	A (FT.) MIN.	*B* (FT.) MIN.
1	4.5'	12.0'
2	4.5'	9.5'
3	8.0'	8.0'
4	12.0'	4.5'
5	15.0'	4.5'



CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS" (CCAUDS) LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
- CONSTRUCT LIGHT ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- CONSTRUCT HEAVY ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- SAW CUT AND MATCH EXISTING ASPHALT AT LIMITS SHOWN.
- CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
- CONSTRUCT "A" TYPE CURB PER DETAIL 2 ON SHEET D-2.
- CONSTRUCT 5' CONC. SIDEWALK PER CCAUSD No. 234.
- CONSTRUCT SIDEWALK DRAIN PER DETAIL 8, SHEET D-2.
- CONSTRUCT SIDEWALK RAMP PER CCAUSD No. 235, CASE 1. SEE SIDEWALK RAMP TABLE ON SHEET G-1 FOR "A" AND "B" DIMENSIONS.
- CONSTRUCT CONC. VALLEY GUTTER PER DETAIL 4 ON SHEET D-2.
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD No. 228.
- TRASH ENCLOSURE W/ GATES. REFER TO ARCH. PLANS FOR DETAILS.
- LANDSCAPE. REFER TO LANDSCAPE ARCH. PLANS FOR DETAILS.
- CONSTRUCT STEPS. REFER TO ARCH. PLANS FOR SPECIFICATIONS.
- INSTALL NYLOPLAST DRAIN INLET OR APPROVED EQUAL.
- INSTALL 12" SDR-35 PVC STORM DRAIN.
- CONSTRUCT HANDICAP STALL CURB, SEE DETAIL 3 ON SHEET D-2.
- CONSTRUCT 3' CURB OPENING, SEE DETAIL 6 ON SHEET D-2.
- CONSTRUCT CONCRETE SIDEWALK, SIZE PER PLAN.
- INSTALL RIPRAP, D50=3", THICKNESS=6".
- INSTALL 2" SIDEWALK UNDERDRAIN, PER CCAUSD NO 236.
- CONSTRUCT SIDEWALK RAMP, SEE DETAIL 5 ON SHEET D-2.
- CONSTRUCT DEPRESSED CURB TRANSITION, SEE DETAIL 9 ON SHEET D-2.
- INSTALL CONCRETE WHEEL STOP.

SEE SHEET C-2 FOR CITY OF LAS VEGAS STORMWATER MANAGEMENT NOTES.



EARTHWORK QUANTITIES:

EARTHWORK QUANTITIES:
 CUT = 3,884 C.Y.
 FILL = 7,329 C.Y.

A. THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SHRINKAGE.
 B. ALL ON-SITE GRADING SHALL COMPLY WITH THE CONDITIONS SET FORTH IN THE PROJECT GEOTECHNICAL REPORT.

DRAINAGE QUANTITIES:

	PUBLIC QUANTITY	PRIVATE QUANTITY	
2-INCH ASPHALTIC CONCRETE PAVING		98,704	SY
3-INCH ASPHALTIC CONCRETE PAVING		1,722	SY
4-INCH ASPHALTIC CONCRETE PAVING	10,656		SY
RIP RAP D50=3" T=6"		345	SF
TYPE II GRAVEL	130	1,228	CY
CONCRETE VALLEY GUTTER		261	LF
CURB & GUTTER "L" TYPE	424	431	LF

GRADING NOTE:

ALL ON-SITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

FLOOD ZONE NOTE:

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP (FIRM) PANEL No. 32003C0174SF. EFFECTIVE DATE: NOVEMBER 27, 2002. THE SITE IS LOCATED WITHIN FEMA DESIGNATED ZONE X (UNSHADED). A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

GEOTECHNICAL ENGINEER:

PREPARED BY: NOVA GEOTECHNICAL
 4480 WEST HACIENDA AVE
 SUITE 104
 PHONE: (702) 873-3478
 PROJECT G-18-01
 DATED: 4/5/18

- TRAFFIC NOTES:**
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO THE CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET THE CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
 - IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 823.G.01.02.
 - CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS DIRECTLY TO SCHEDULE STAFF TO LOCATE UNDERGROUND STREET LIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM 48 HRS. NOTICE IS REQUIRED PRIOR TO LOCATES.

- GRADING NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES INCLUDING LOCATION, ELEVATION, AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO MOMENI ENGINEERS PRIOR TO CONSTRUCTION.
 - ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION DURING CONSTRUCTION THROUGH THE USE OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
 - ADD 2500 TO PLAN GRADES WITH THE EXCEPTION OF FINISHED FLOORS UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO VERIFY ALL HANDICAP ACCESSIBLE ROUTES AND PARKING STALLS ARE IN CONFORMANCE WITH A.D.A. ACCESSIBILITY GUIDELINES AND DO NOT EXCEED MAXIMUM SLOPES IN ANY DIRECTION PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - MOMENI ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES. ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. IF CONFLICTS EXIST IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, AND THE PROJECT ENGINEER IMMEDIATELY.
 - NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT GRAVEL OR PAVEMENT STREET SURFACE. THE RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.
 - CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CLARK COUNTY BUILDING DEPARTMENT.

BASIS OF BEARINGS:

SOUTH 00°16'37" WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 80 EAST, 114W, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 206 OF SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK "5LV902056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.

ELEVATION: 2558.08 (US SURVEY FEET)
 779.704 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

GRADING PLAN CERTIFICATION:

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED FLOOD STUDY DSR: D550180 ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

Moe Momeni
 MOE MOMENI, P.E. #12732

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

Call Before You Overhead

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

UnderGround

1-702-227-2929

1-702-432-5300

1-800-227-2600

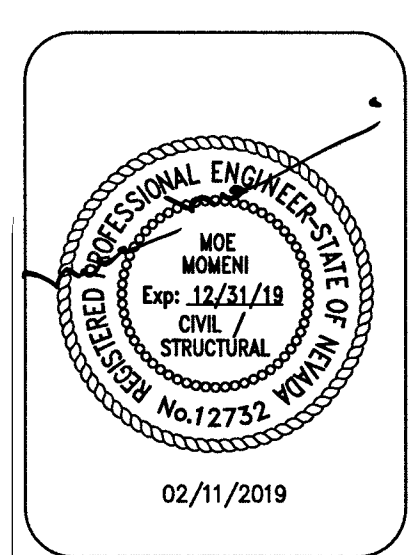
REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

momeni ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING

3110 S. DURANGO DRIVE, SUITE 205
 LAS VEGAS, NEVADA 89117

TEL: (702) 902-2444 | FAX: (702) 248-9405 | MOE@MOMENIENGINEERS.COM



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

DURANGO BELTWAY PLAZA

CITY OF LAS VEGAS
 SWC OF ROME BLVD. AND RILEY ST.

GRADING PLAN II

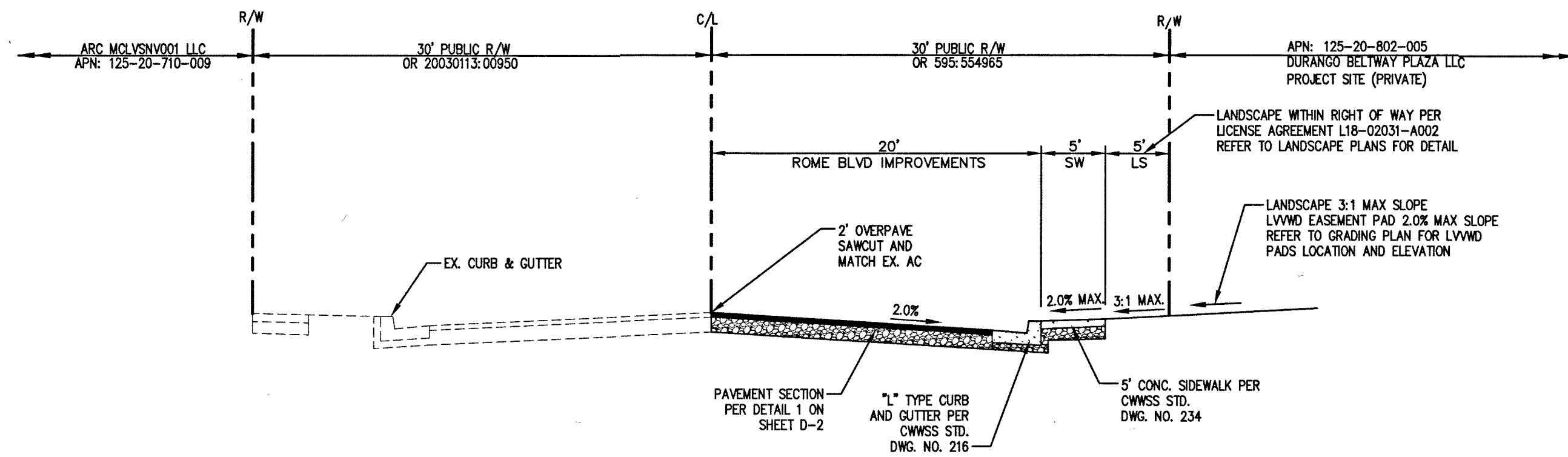
SHEET:

G-2

4 OF 13

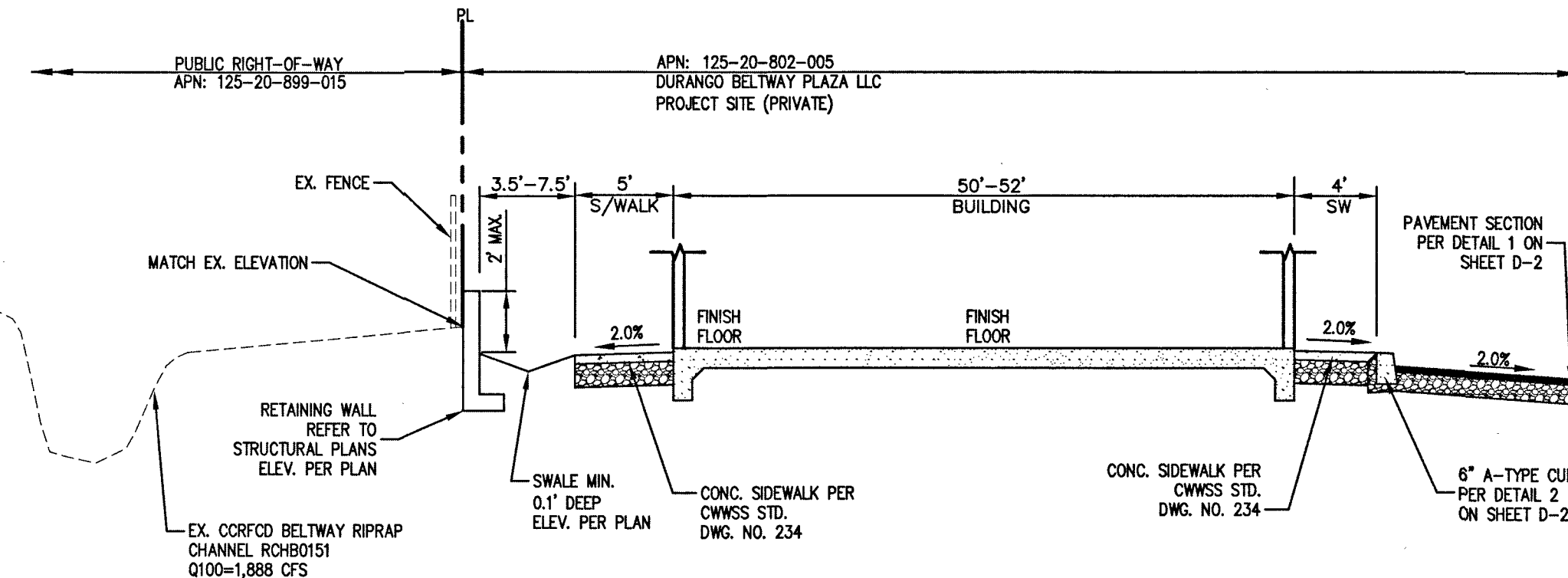
10727670 CLV L18-02031

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT BY NOVA GEOTECHNICAL JOB NO. G-18-045 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



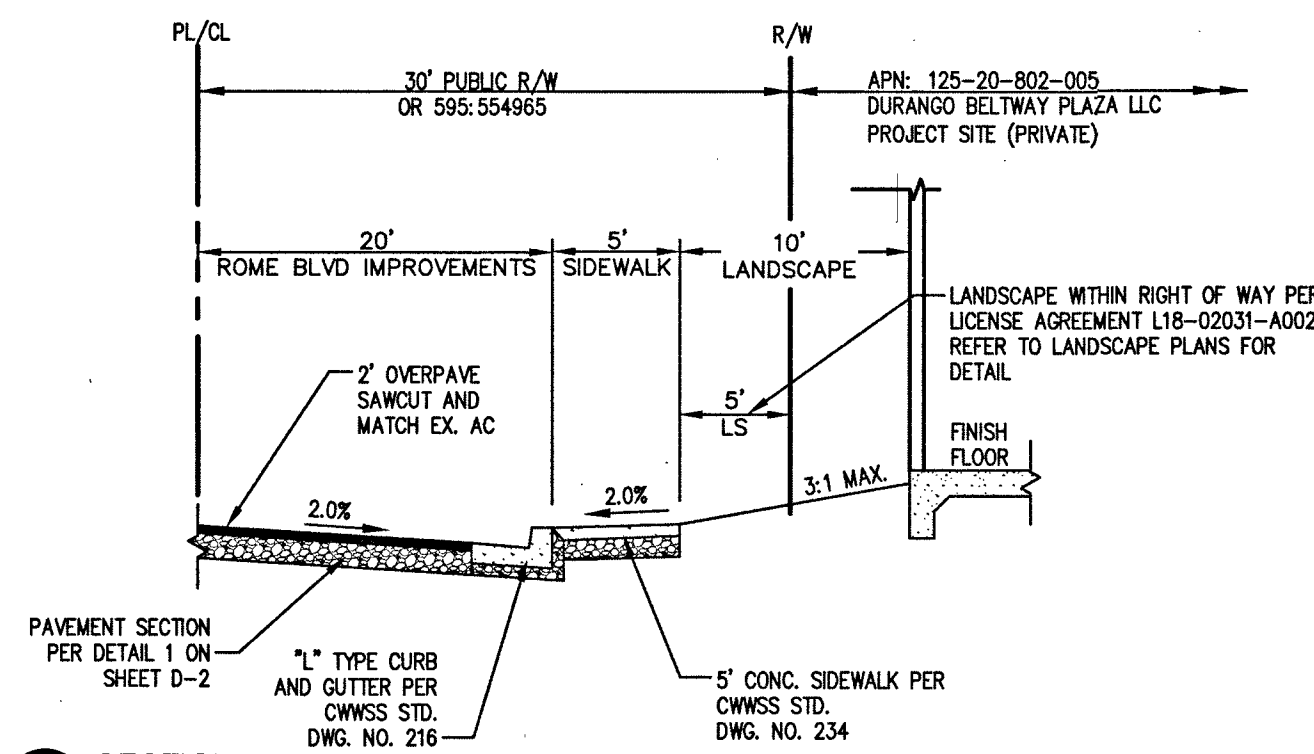
SECTION A

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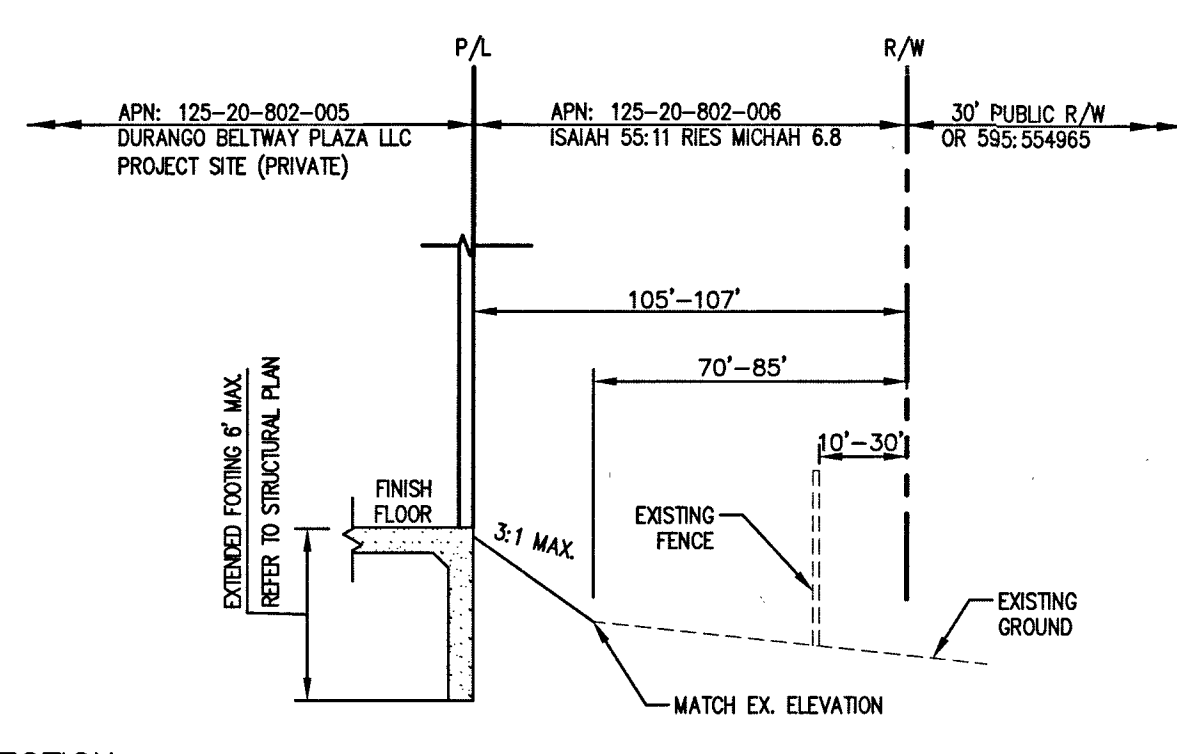
SECTION H

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT BY NOVA GEOTECHNICAL JOB NO. G-18-045 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



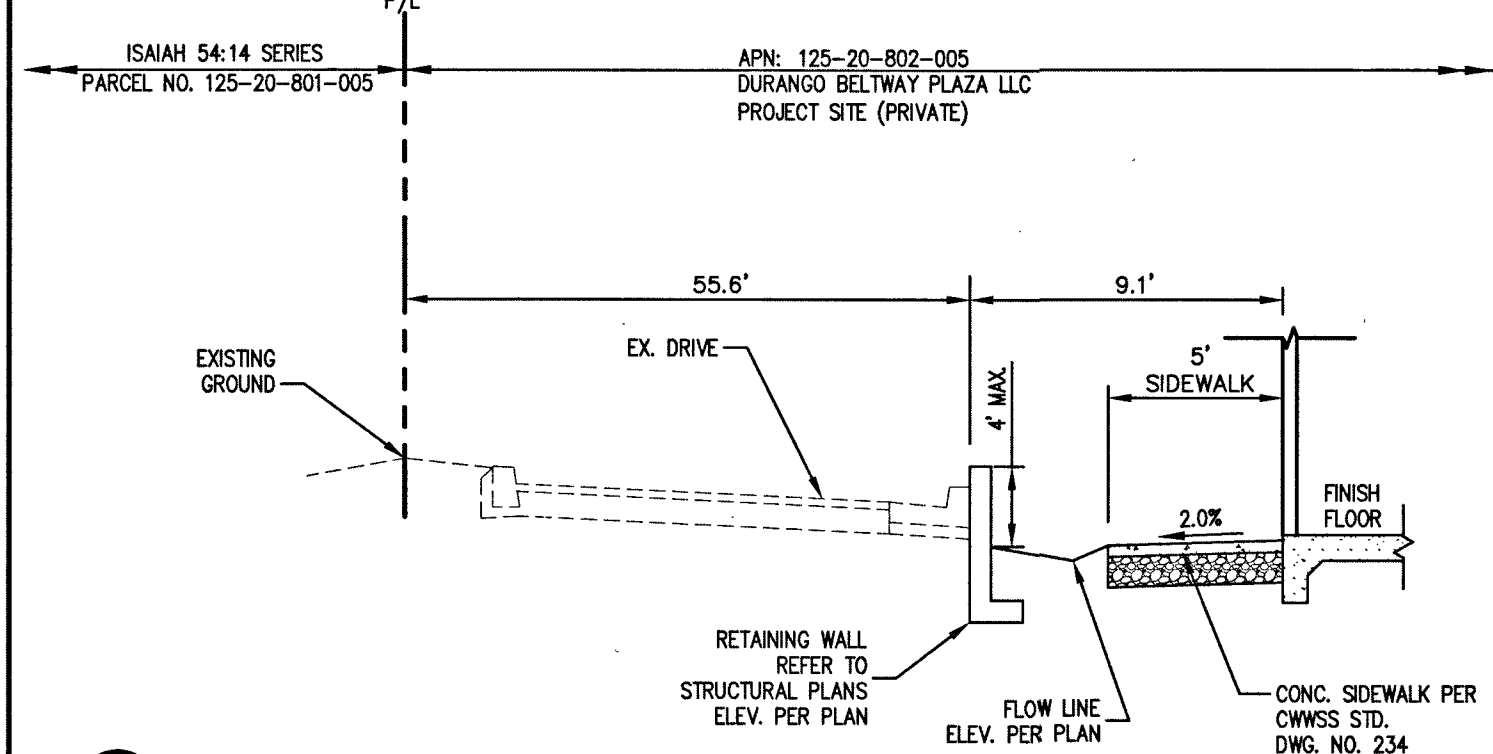
SECTION B

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT BY NOVA GEOTECHNICAL JOB NO. G-18-045 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



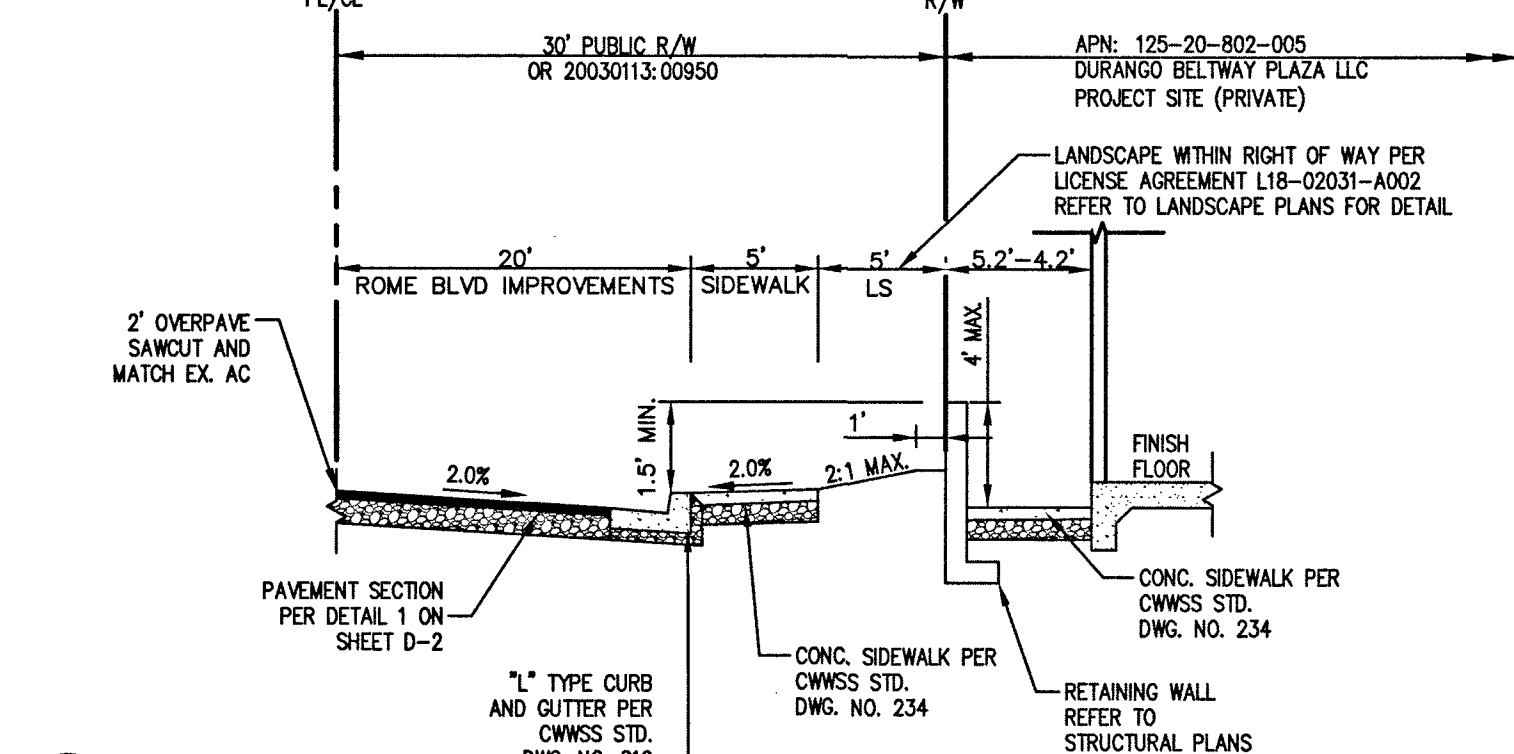
SECTION C

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT BY NOVA GEOTECHNICAL JOB NO. G-18-045 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



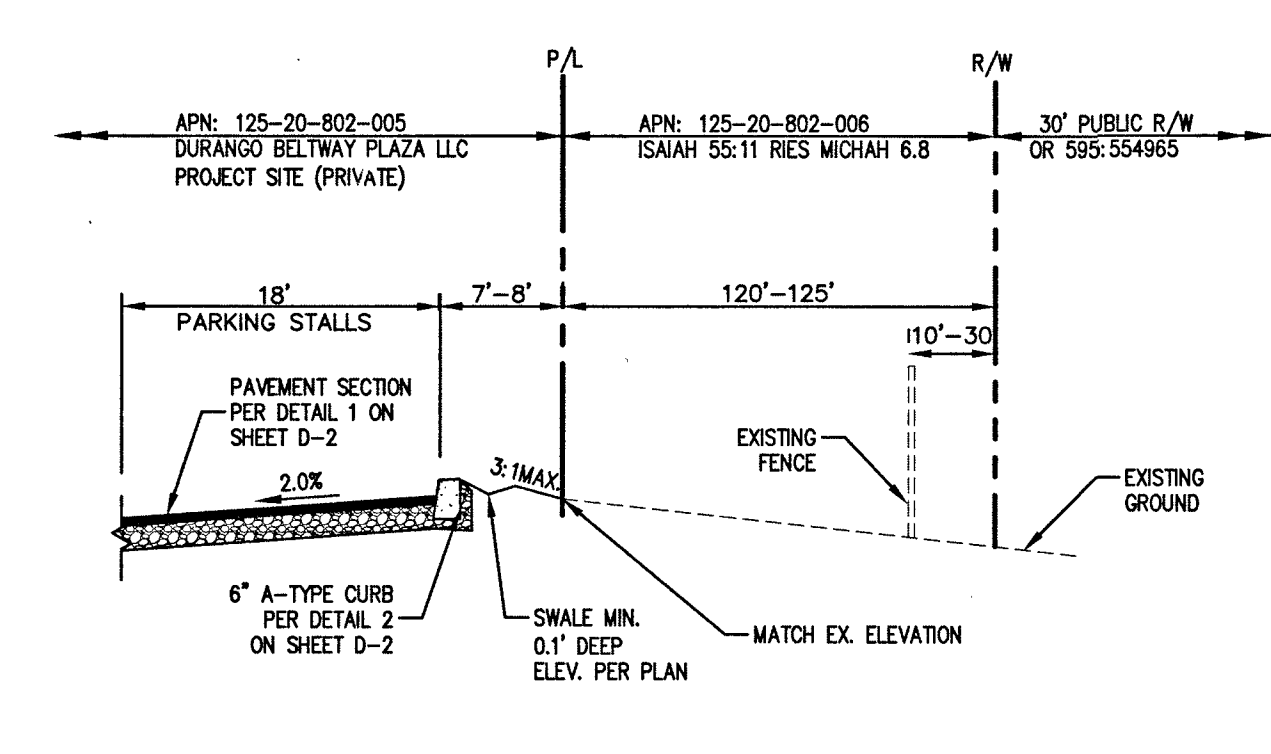
SECTION I

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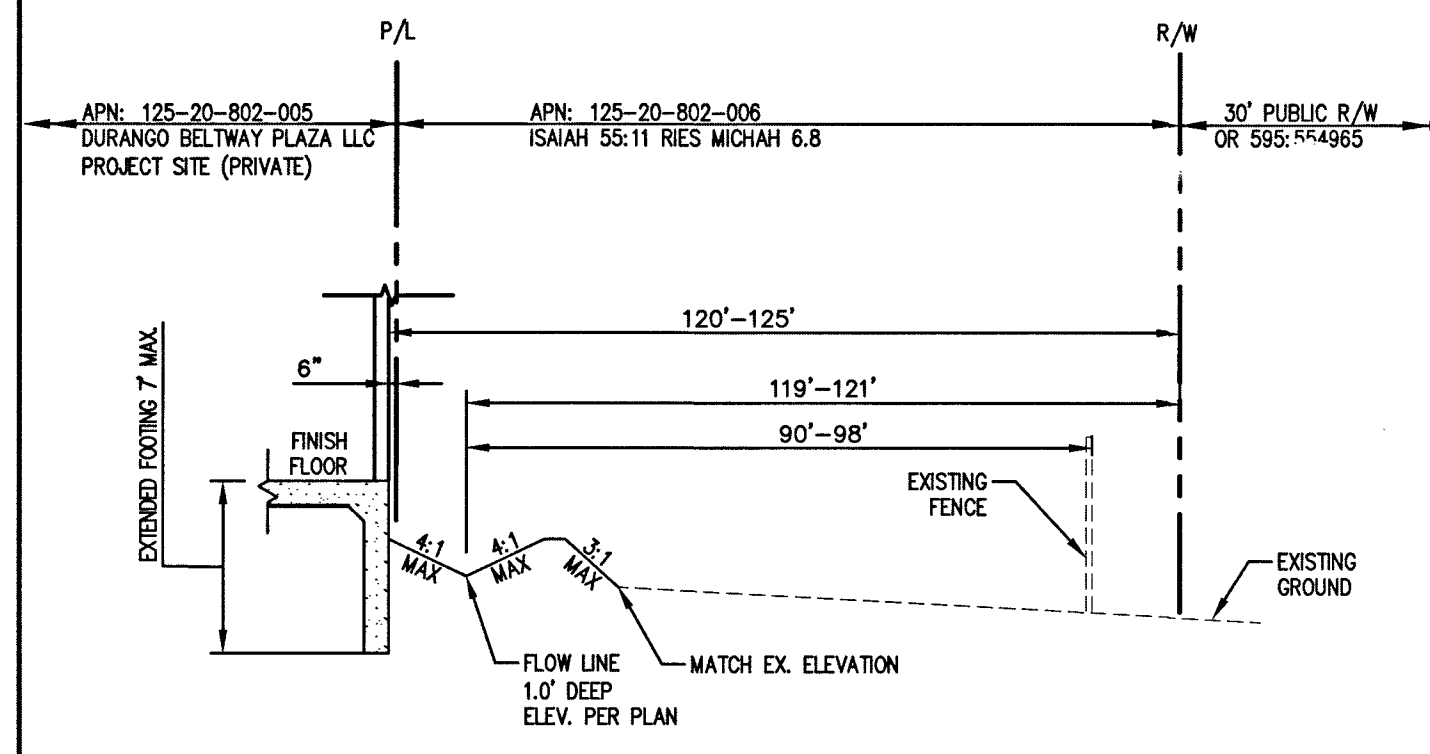
SECTION J

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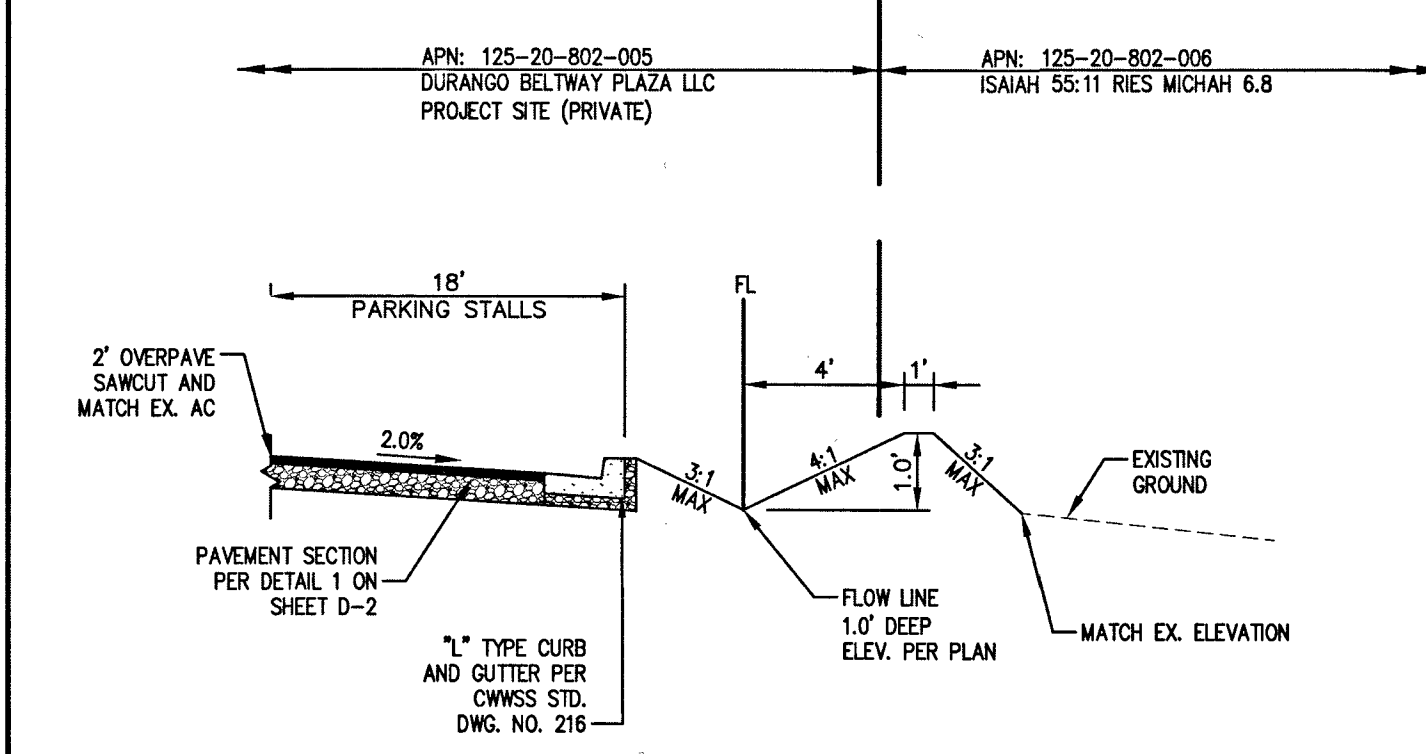
SECTION D

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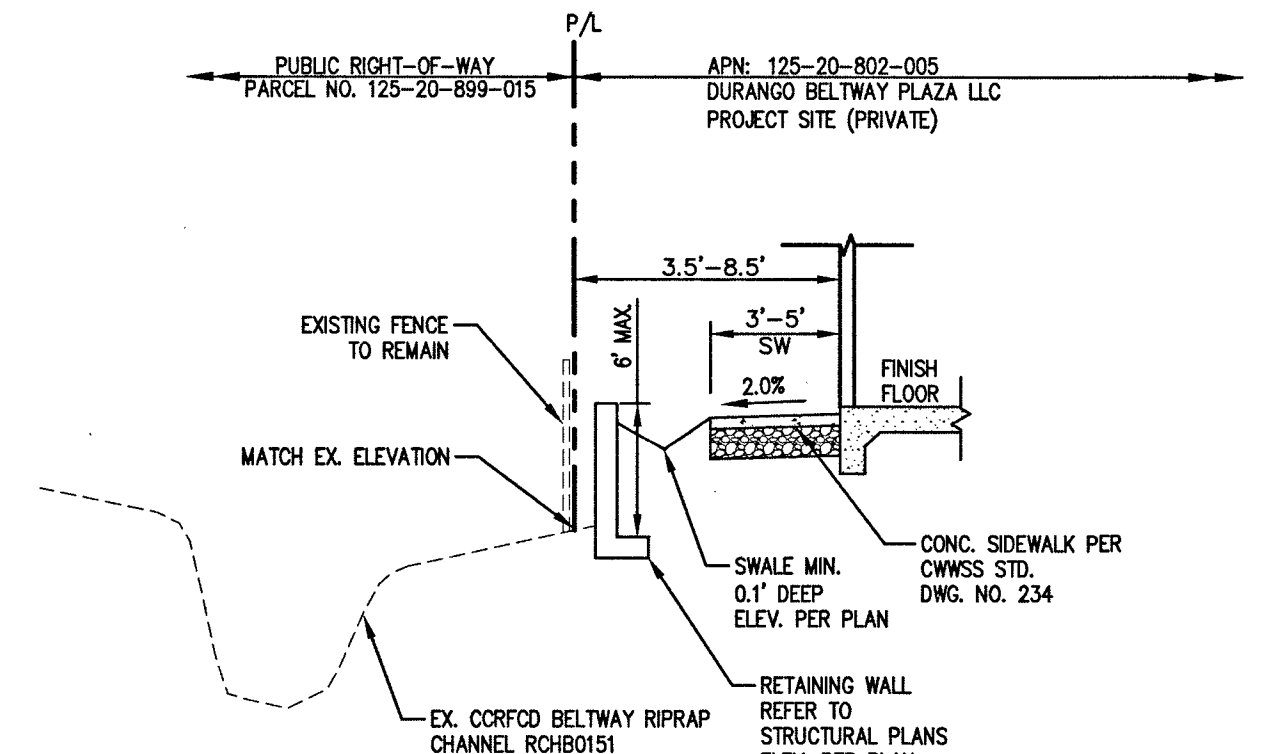
SECTION E

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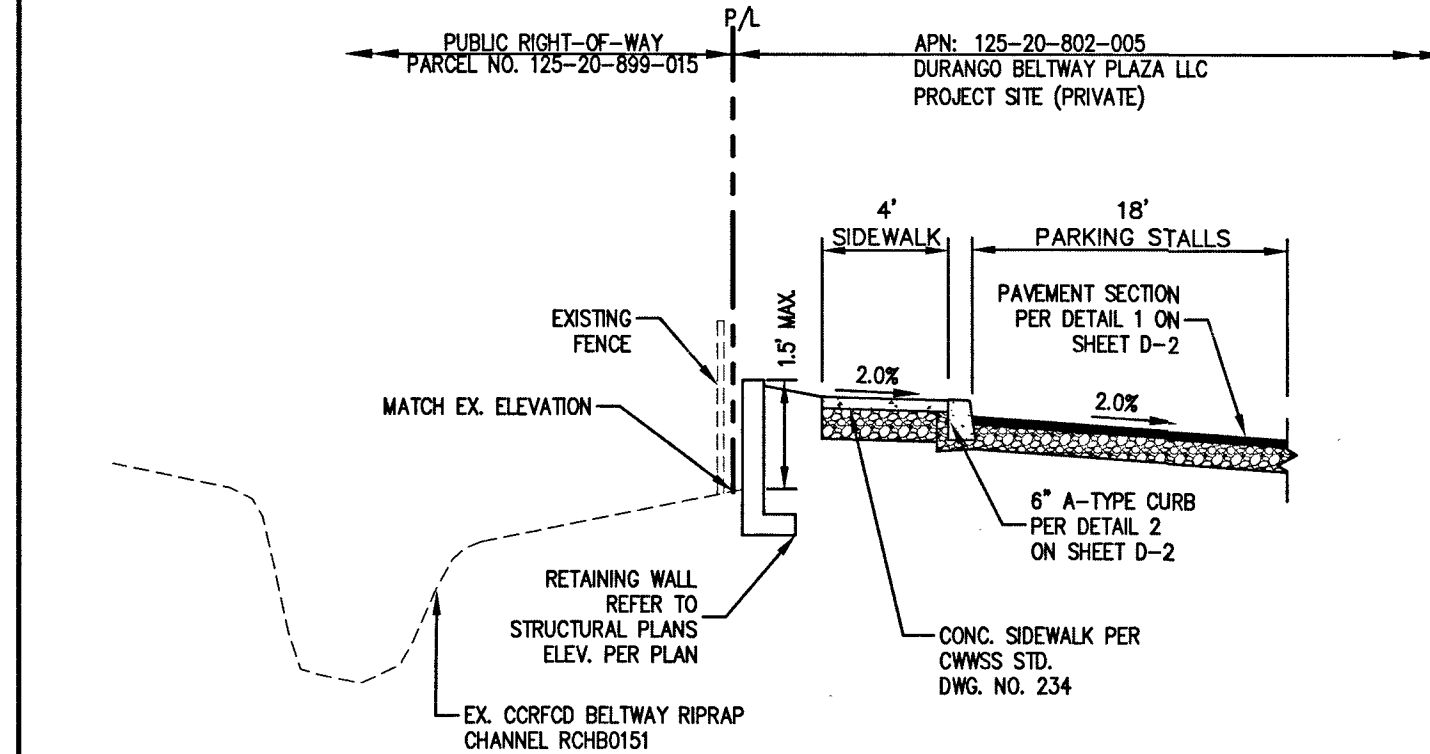
SECTION K

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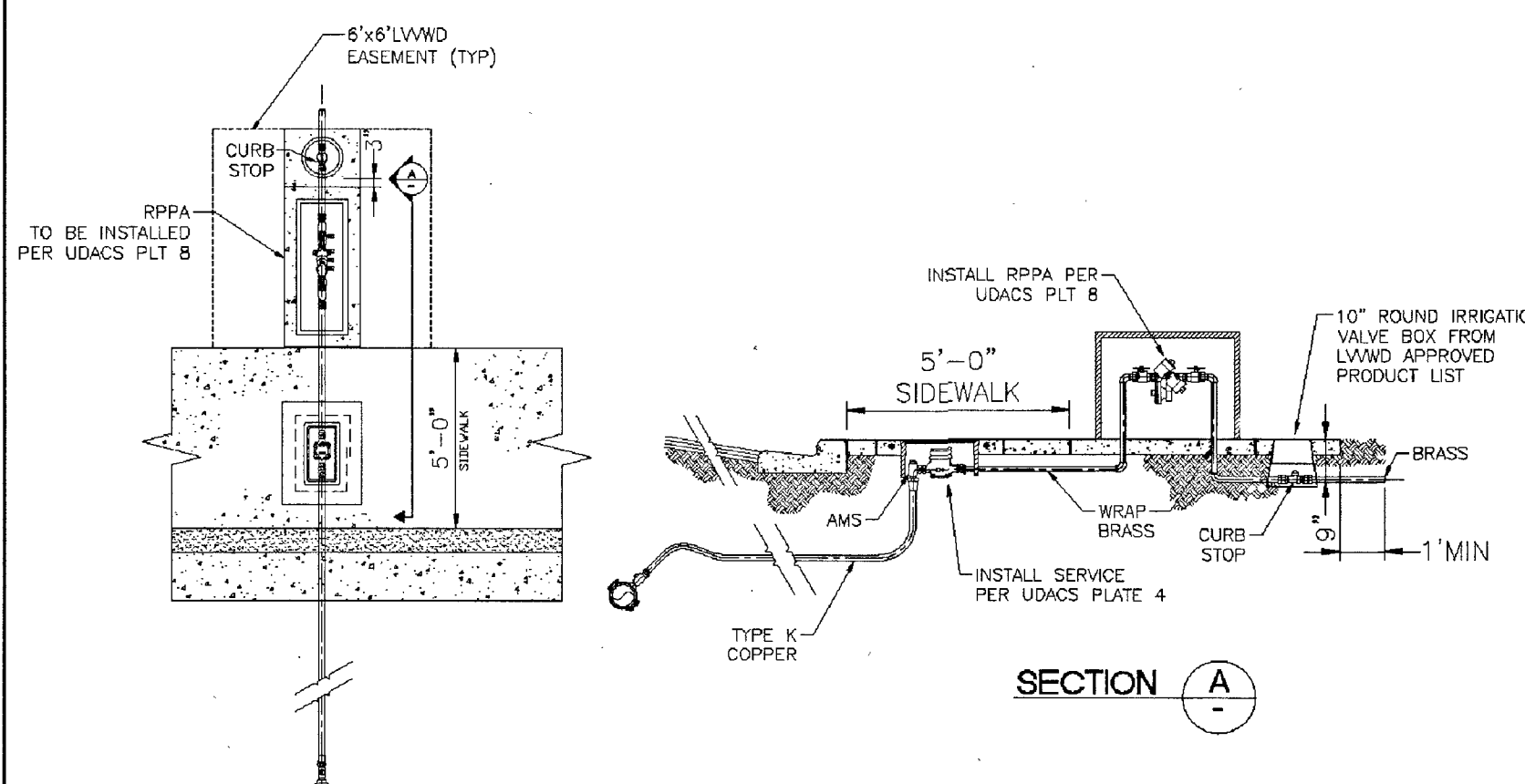


SECTION F

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT BY NOVA GEOTECHNICAL JOB NO. G-18-045 PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



SECTION G



SECTION L SERVICE INSTALLATION - CURB-STOP

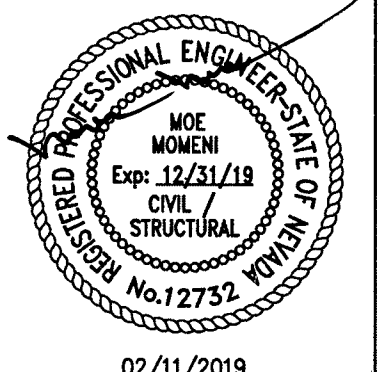
APPROVED FOR CONSTRUCTION

John Shady
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136089 FIRST APPROVED DATE: 3-6-19
LVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON SITE 2,750 GPM
SHEETS: C-1, C-2, D-1, P-1, MU, U-1, U-2

REVISIONS	DATE	DESCRIPTION	BY	APPROVAL

momeni ENGINEERS, LLC.
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-8495 | MDE@MHENGINEERS.COM



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

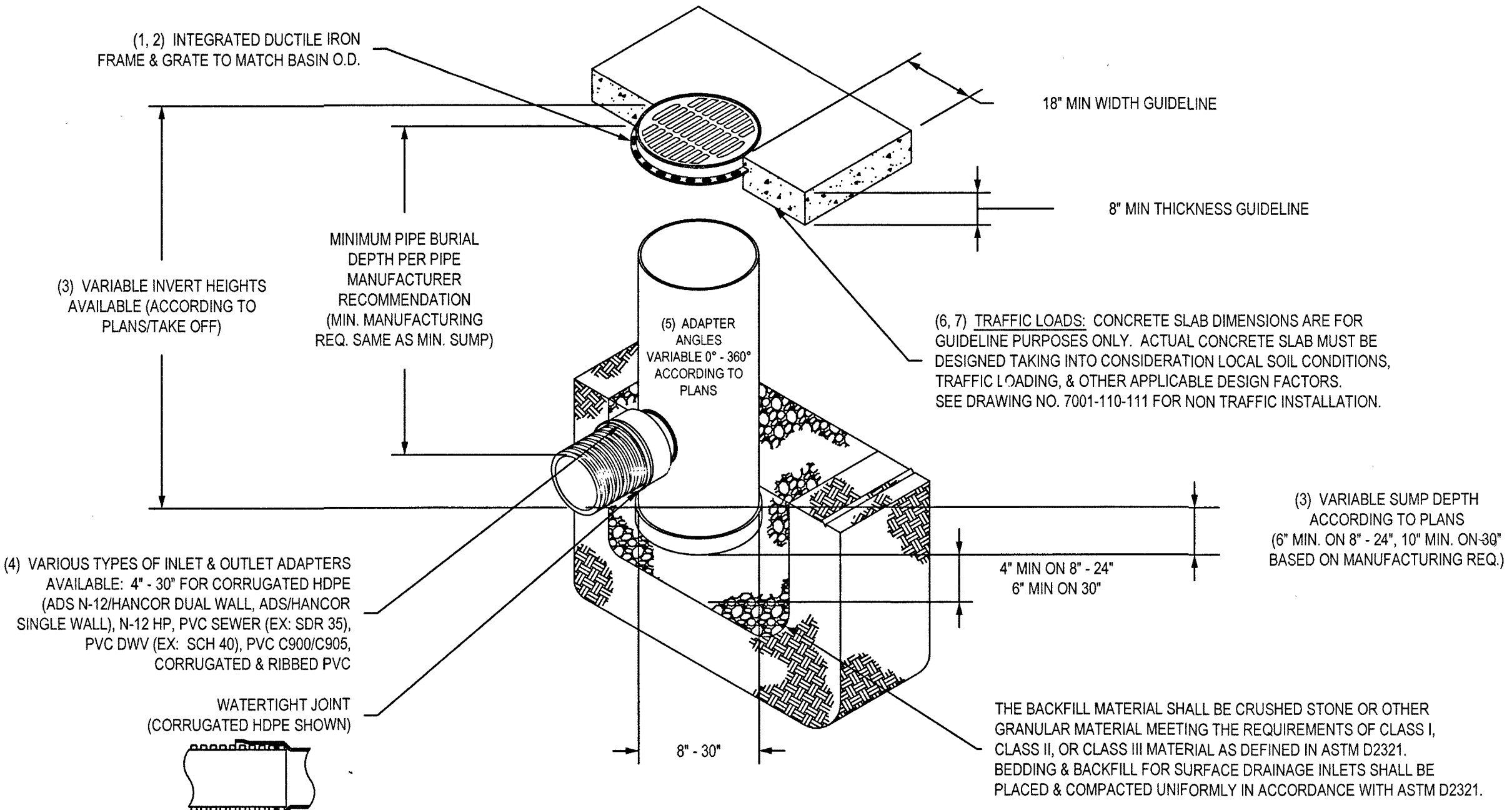
PROJECT: **DURANGO BELTWAY PLAZA**
CITY OF LAS VEGAS
SWO OF ROME BLVD. AND RILEY ST.
DETAIL SHEET 1

SHEET:
D-1
5 OF 13
CLV L18-02031

107V7670

PROJ: 136089A QS: 125-20-5E

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE

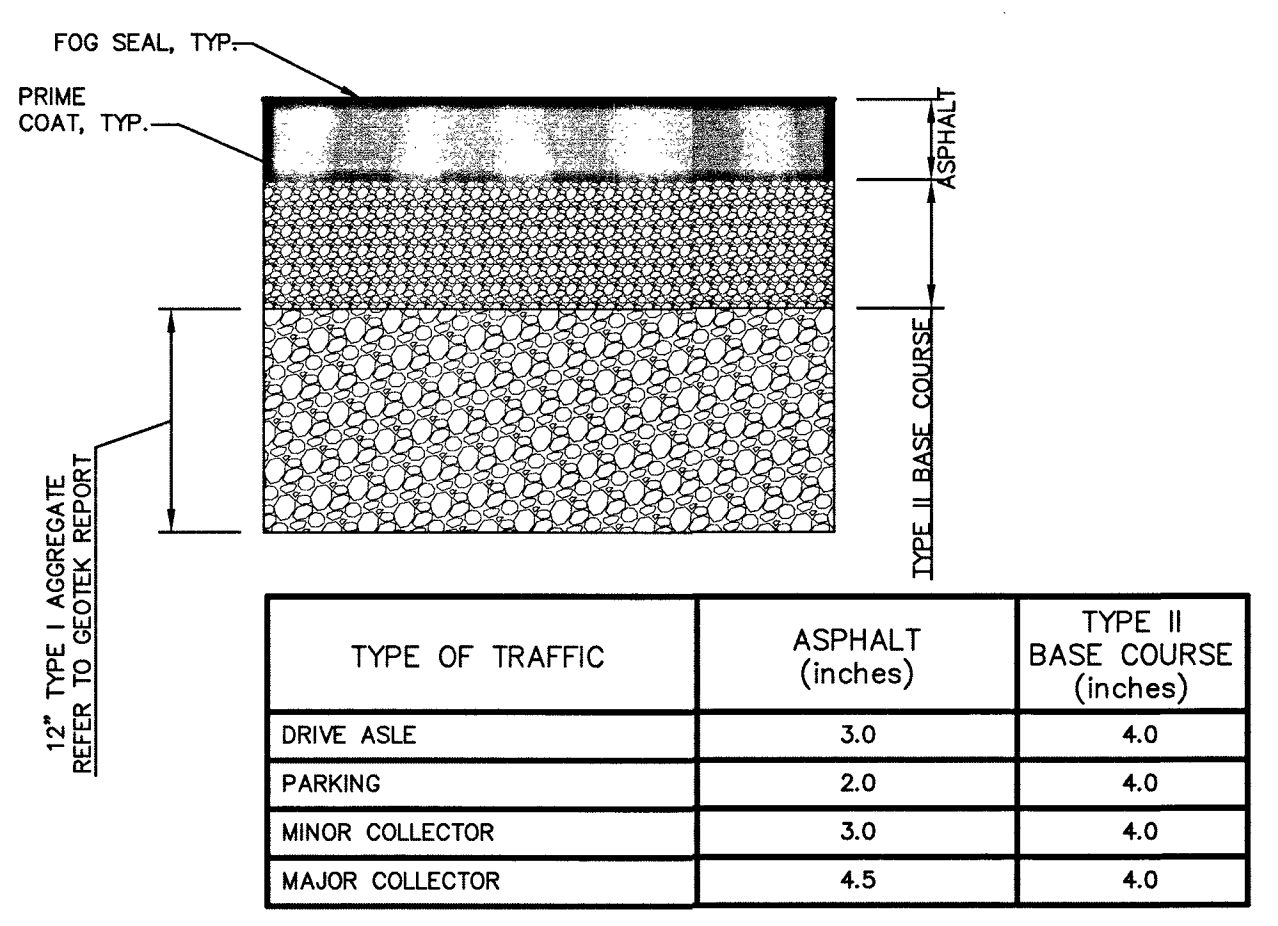


- 1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER (4" - 24").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
- 7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

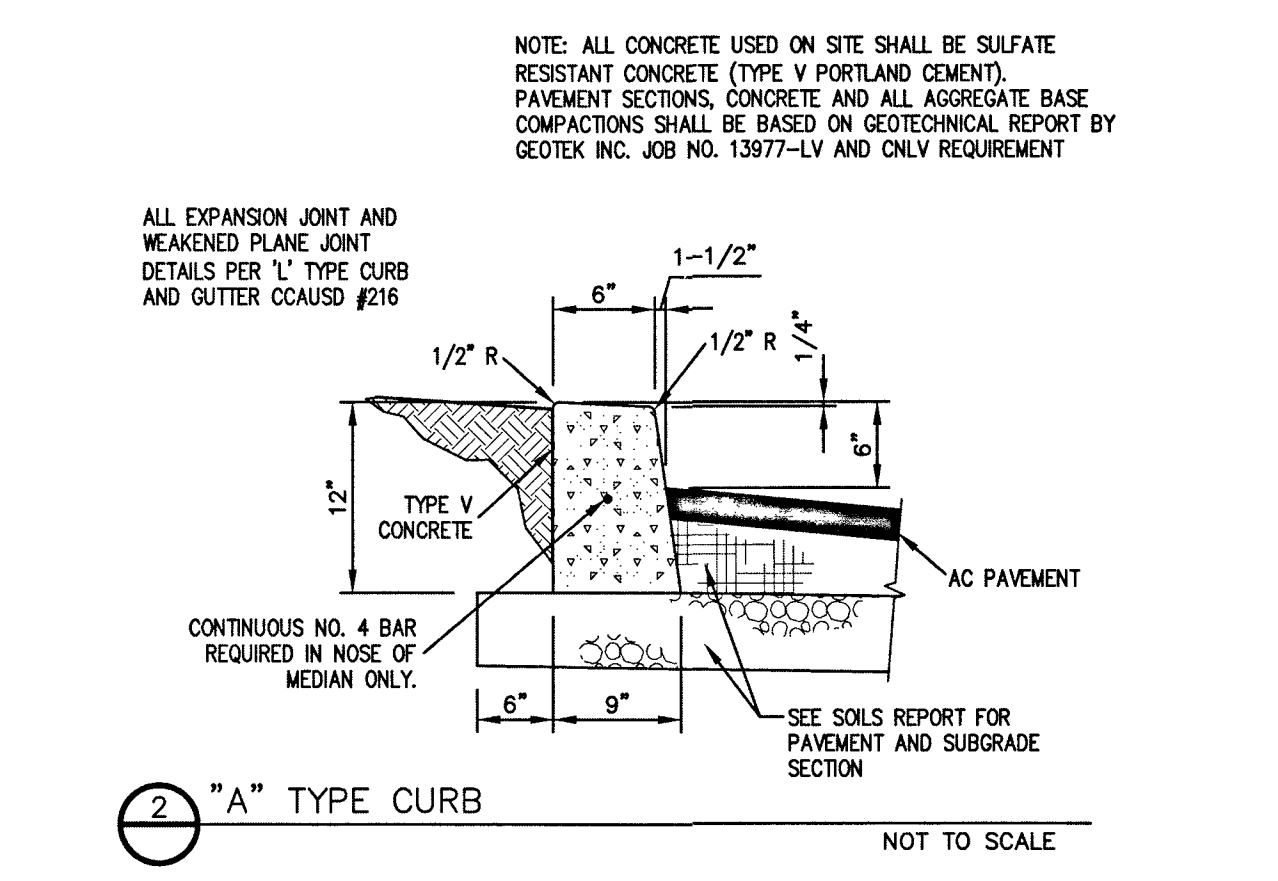
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

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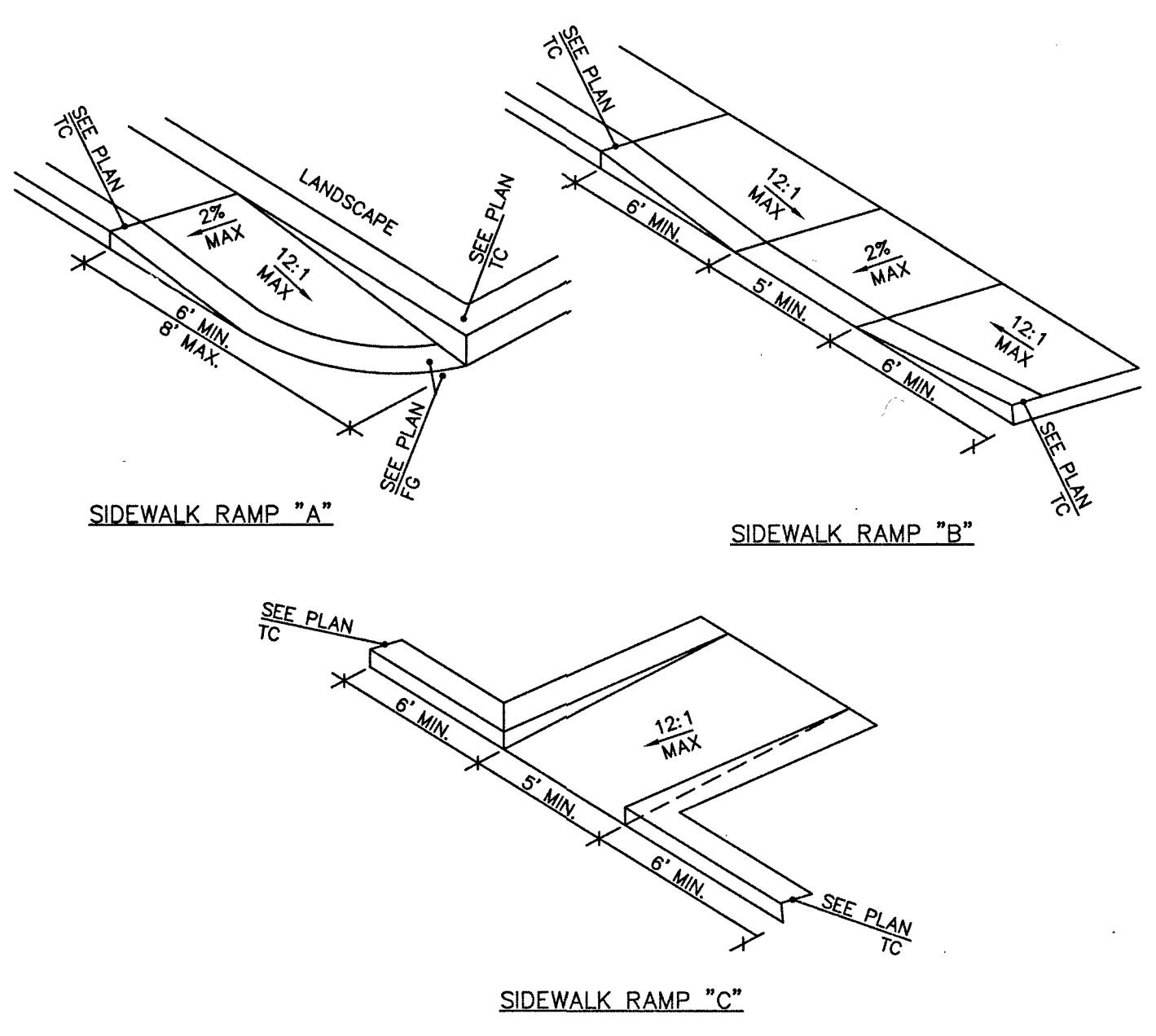
DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BURLINGTON, MA 01803 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	1-23-06	PROJECT NO./NAME	
REVISED BY	NMH	TITLE	DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL
DATE	03-11-16	DWG NO.	7001-110-144
DWG SIZE	A	SCALE	1:40
SHEET	1 OF 1	REV	H



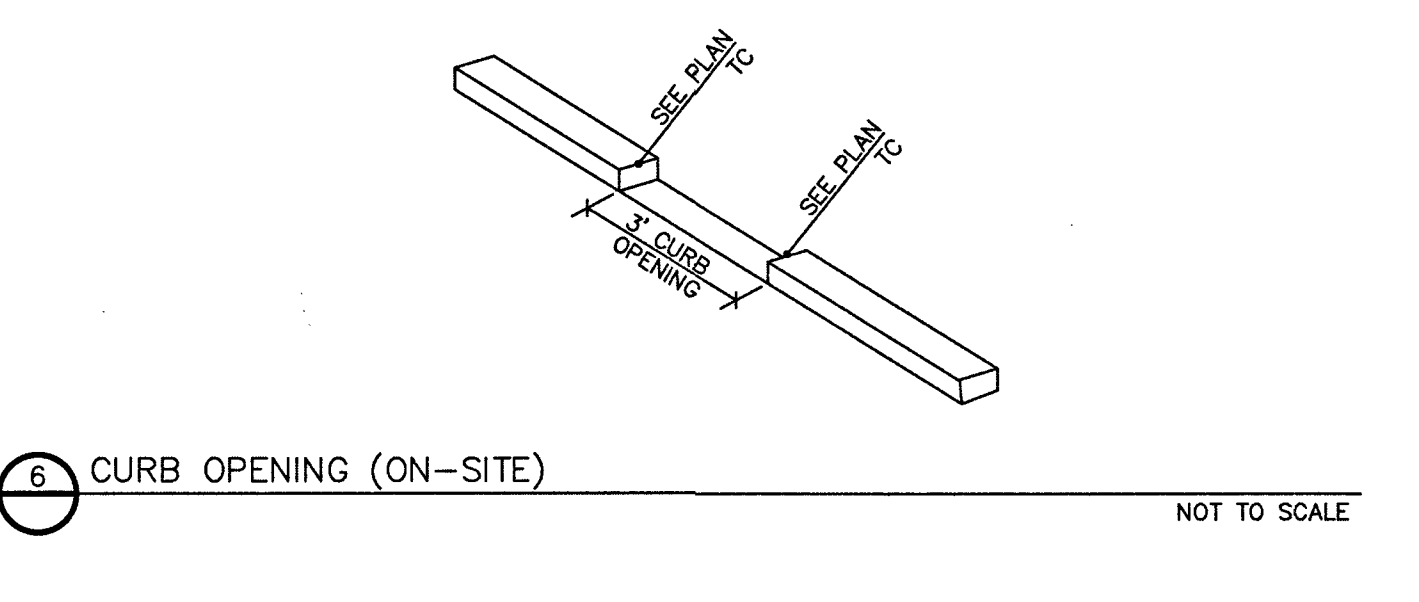
1 ASPHALT PAVEMENT SECTIONS (ON-SITE) NOT TO SCALE



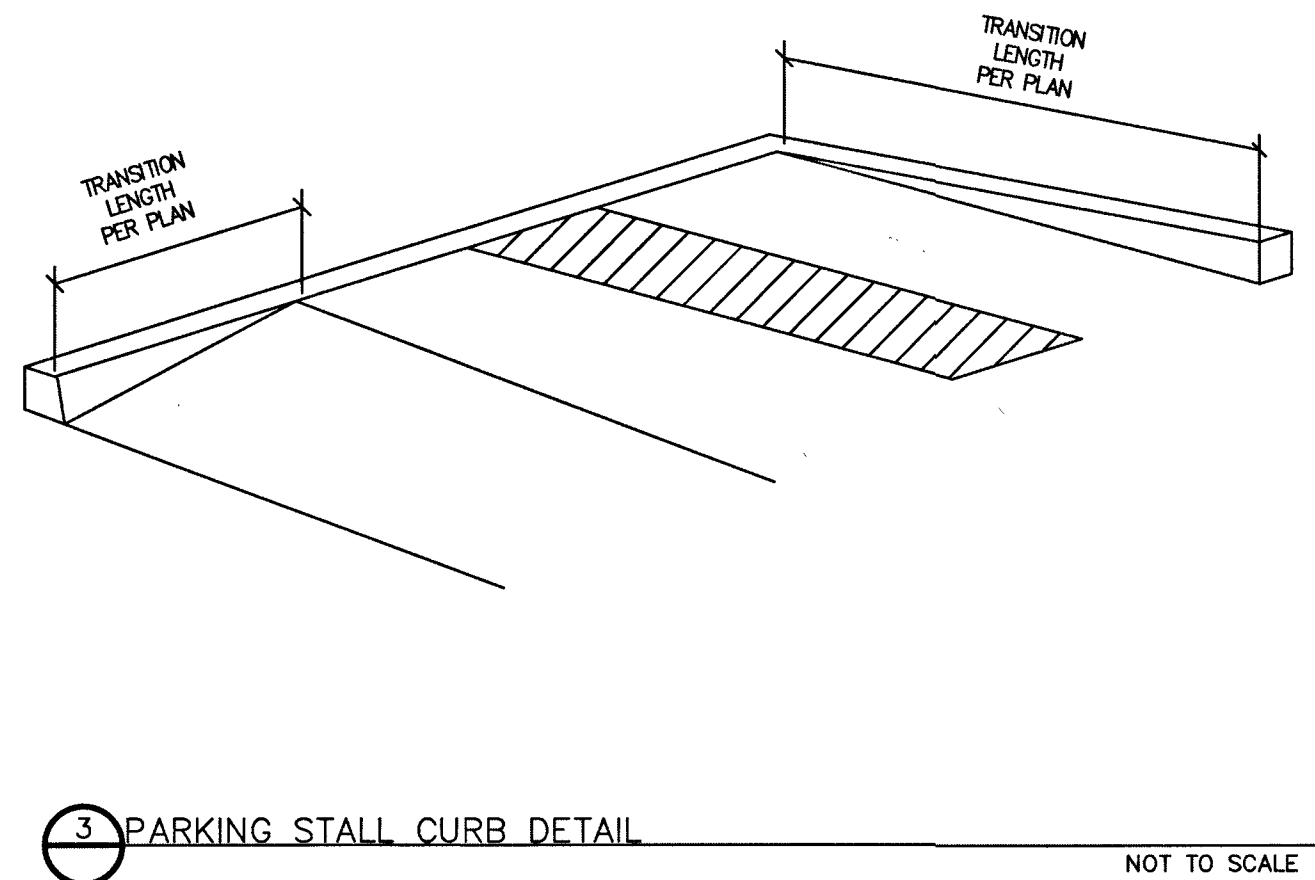
2 "A" TYPE CURB NOT TO SCALE



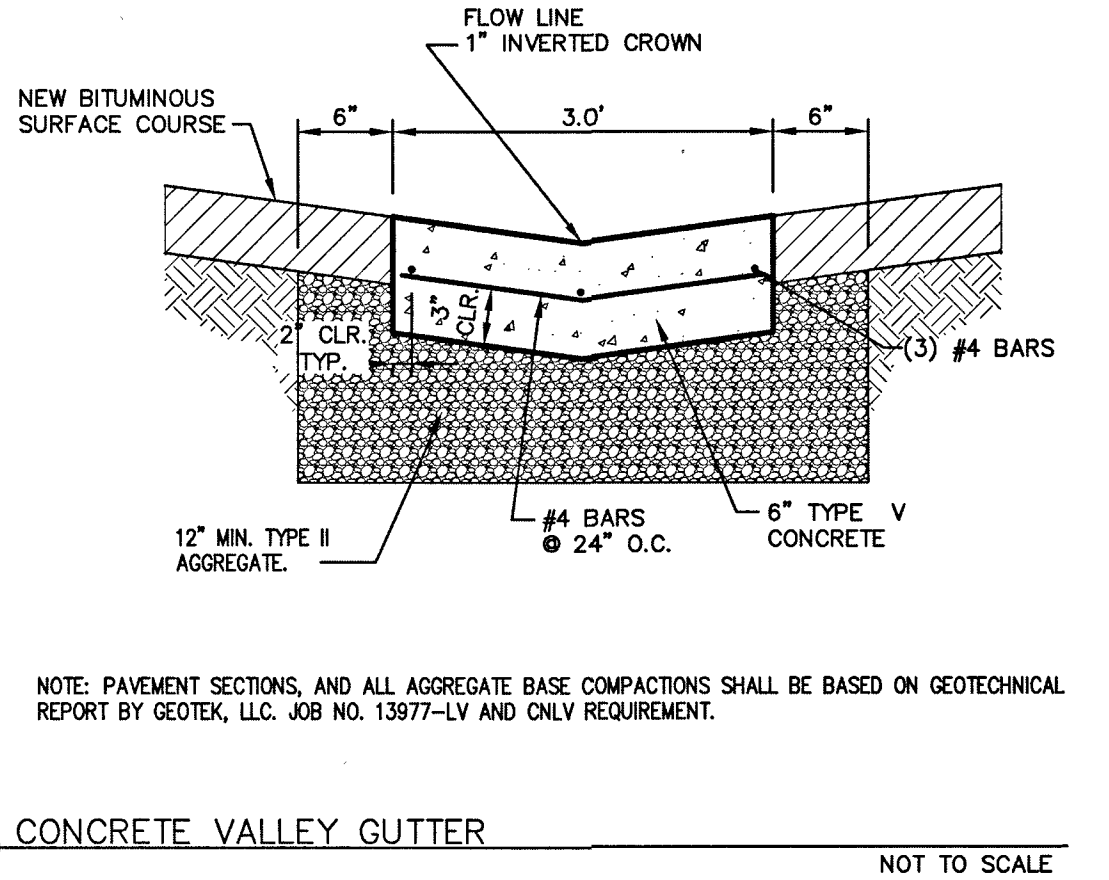
5 SIDEWALK RAMPS (ON-SITE) NOT TO SCALE



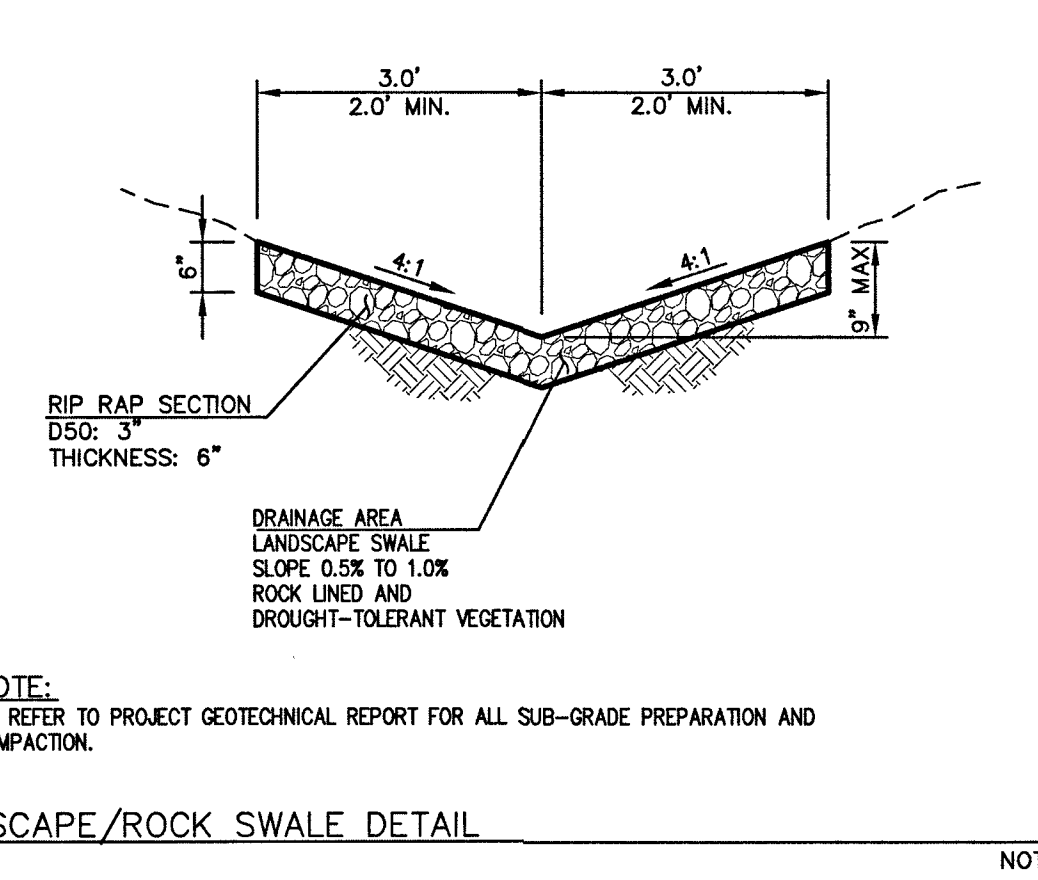
6 CURB OPENING (ON-SITE) NOT TO SCALE



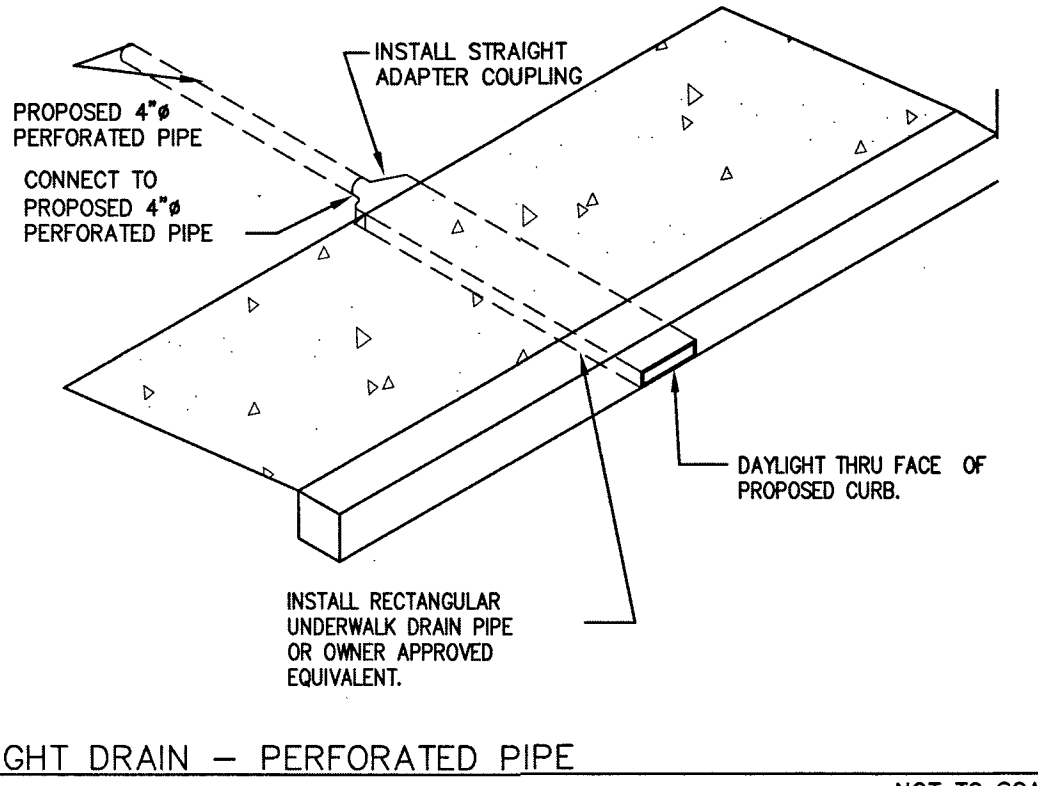
3 PARKING STALL CURB DETAIL NOT TO SCALE



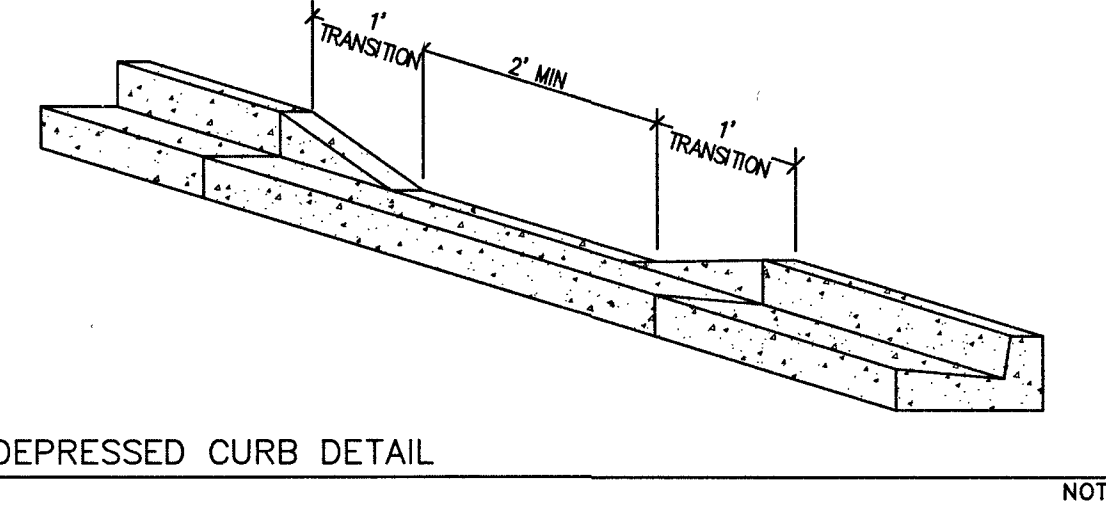
4 CONCRETE VALLEY GUTTER NOT TO SCALE



7 XERISCAPE/ROCK SWALE DETAIL NOT TO SCALE



8 DAYLIGHT DRAIN - PERFORATED PIPE NOT TO SCALE



9 DEPRESSED CURB DETAIL NOT TO SCALE

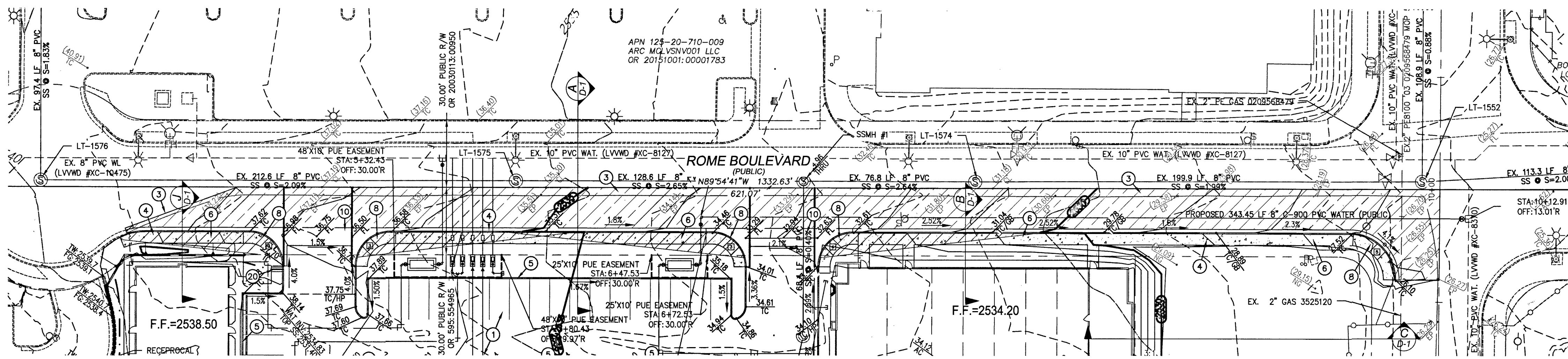
REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

momeni ENGINEERS, LLC.
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-8495 | MOE@MHENGINEERS.COM

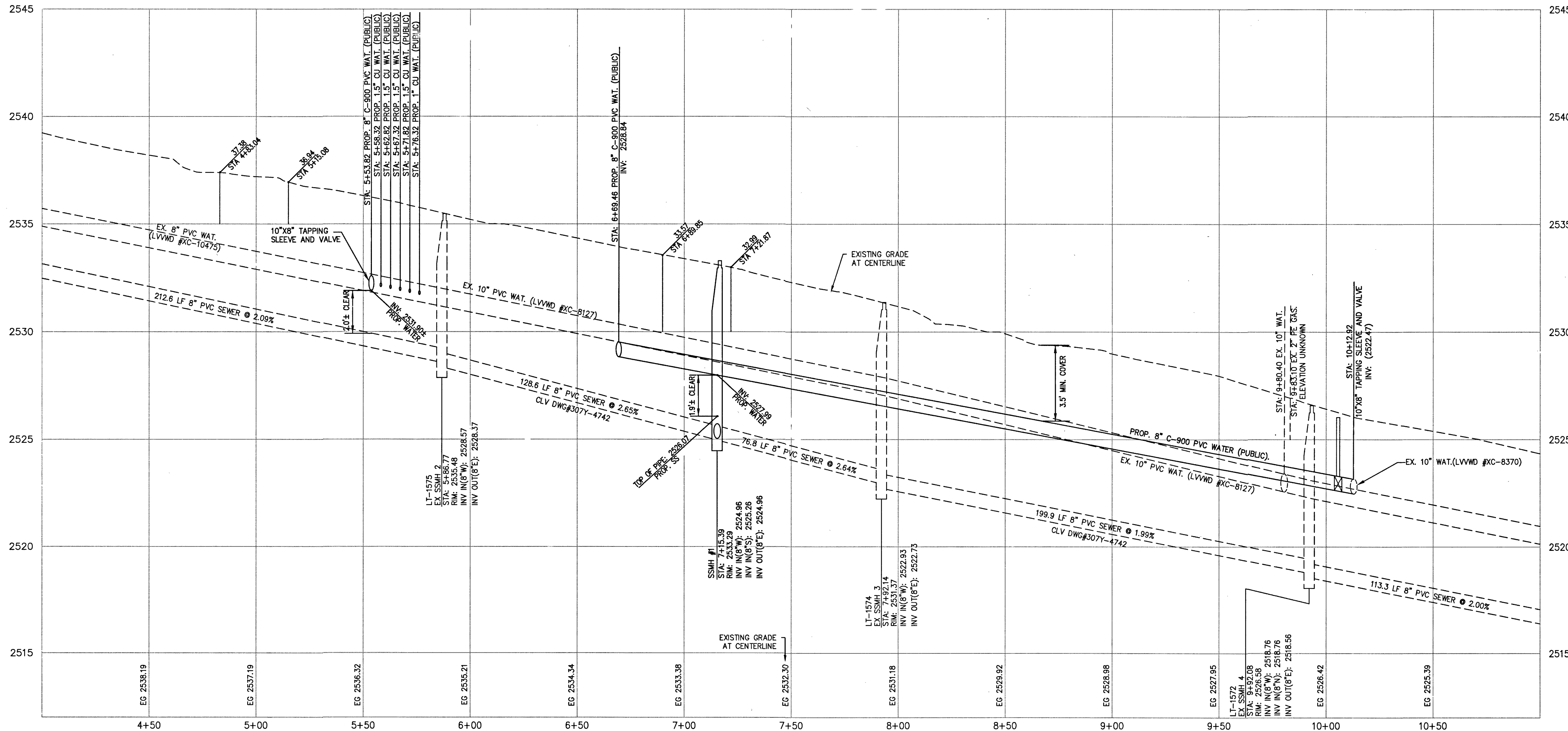
Professional Engineer
Momeni
Exp: 12/31/18
Civil Structural
No. 12731
02/11/2019

02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
NM
CHECKED BY

PROJECT: **DURANGO BELTWAY PLAZA**
CITY OF LAS VEGAS
SWC OF ROME BLVD. AND RILEY ST.
DETAIL SHEET II



ROME PROFILE



PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISH GRADE PER LOADS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES

FIRE DEPARTMENT APPROVAL

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

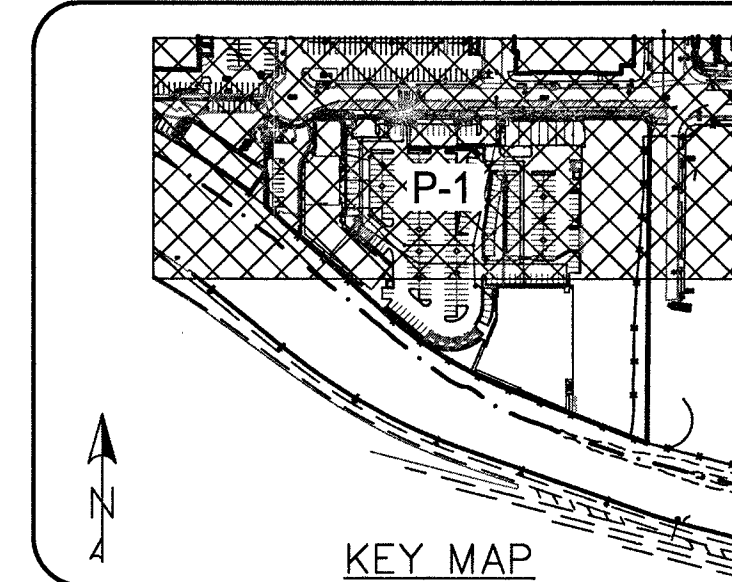
APPROVED FOR CONSTRUCTION

James Shashy
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136089 - FIRST APPROVED DATE: 2-6-19
LVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON SITE 2,750 GPM
SHEETS: C-1, C-2, D-1, P-1, MU, U-1, U-2

APPROVAL

Byron H. Smith
SOUTHWEST GAS
DATE: 2/12/19



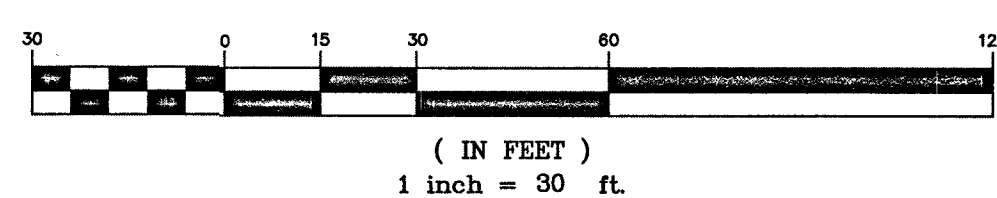
CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS" (CCAUDS) LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
- CONSTRUCT LIGHT ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- CONSTRUCT HEAVY ASPHALT PAVEMENT PER DETAIL 1 ON SHEET D-2.
- SAW CUT AND MATCH EXISTING ASPHALT AT LIMITS SHOWN.
- CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
- CONSTRUCT "A" TYPE CURB PER DETAIL 2 ON SHEET D-2.
- CONSTRUCT 5' CONC. SIDEWALK PER CCAUSD No. 234.
- CONSTRUCT SIDEWALK DRAIN PER DETAIL 8, SHEET D-2.
- CONSTRUCT SIDEWALK RAMP PER CCAUSD No. 235, CASE 1. SEE SIDEWALK RAMP TABLE ON SHEET G-1 FOR "A" AND "B" DIMENSIONS.
- CONSTRUCT CONC. VALLEY GUTTER PER DETAIL 4 ON SHEET D-2.
- CONSTRUCT 8' CROSS GUTTER PER CCAUSD No. 228.
- TRASH ENCLOSURE W/ GATES. REFER TO ARCH. PLANS FOR DETAILS.
- LANDSCAPE. REFER TO LANDSCAPE ARCH. PLANS FOR DETAILS.
- CONSTRUCT STEPS. REFER TO ARCH. PLANS FOR SPECIFICATIONS.
- INSTALL NYLOPLAST DRAIN INLET OR APPROVED EQUAL.
- INSTALL 12" SDR-35 PVC STORM DRAIN.
- CONSTRUCT HANDICAP STALL CURB, SEE DETAIL 3 ON SHEET D-2.
- CONSTRUCT 3' CURB OPENING, SEE DETAIL 6 ON SHEET D-2.
- CONSTRUCT CONCRETE SIDEWALK, SIZE PER PLAN.
- INSTALL RIPRAP, D50=3", THICKNESS=6".
- INSTALL 2" SIDEWALK UNDERDRAIN, PER CCAUSD NO. 236.
- CONSTRUCT SIDEWALK RAMP, SEE DETAIL 5 ON SHEET D-2.
- CONSTRUCT DEPRESSIONED CURB TRANSITION, SEE DETAIL 9 ON SHEET D-2.
- INSTALL CONCRETE WHEEL STOP.

SEE SHEET C-2 FOR CITY OF LAS VEGAS STORMWATER MANAGEMENT NOTES.



GRAPHIC SCALE



BASIS OF BEARINGS:

SOUTH 00°16'37" WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 86 EAST, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 206 OF SURVEYS, AT PAGE 37, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK "SLV02056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOND HIGHWAY 215 ON RAMP.
ELEVATION: 2558.08 (US SURVEY FEET)
779.704 (METERS)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

GRADING PLAN CERTIFICATION:

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED FLOOD STUDY DATA DISCLOSED ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

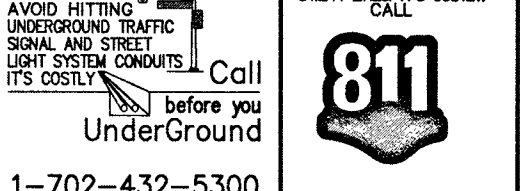
Mac Momen 2-5-19
MOE MOMEN, P.E. #12732

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.



1-702-227-2929

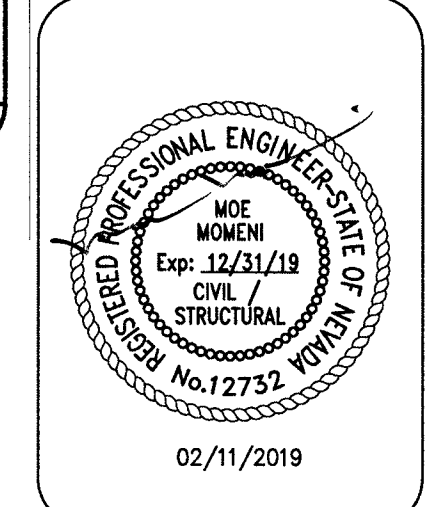
Call before you dig. AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.



1-800-227-2600

REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

momen ENGINEERS, LLC.
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-8495 | MOE@MHENGINEERS.COM

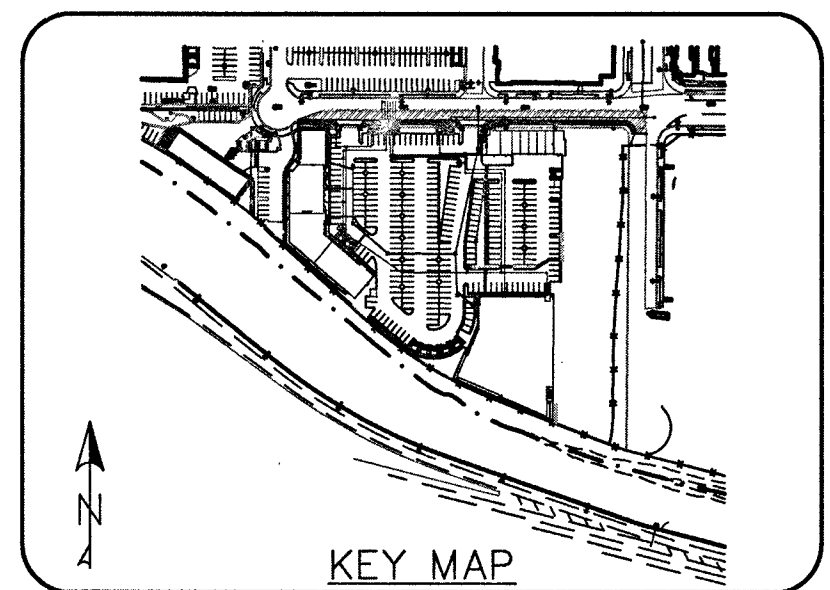
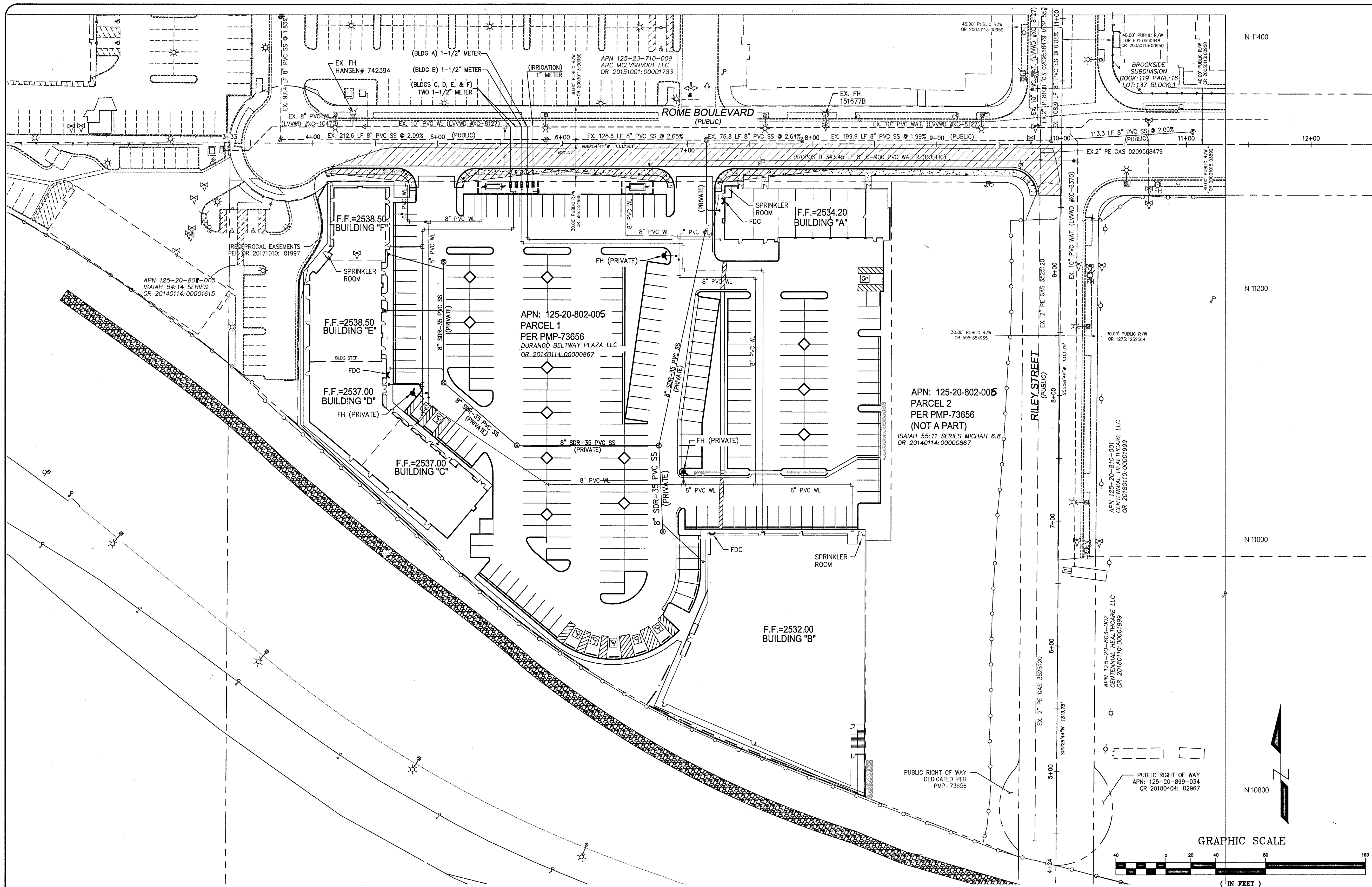


02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

PROJECT: **DURANGO BELTWAY PLAZA**
CITY OF LAS VEGAS
SVC OF ROME BLVD. AND RILEY ST.
ROME BLVD PLAN + PROFILE

SHEET: **P-1**
7 OF 13
CLV L18-02031

PROJ.#136089 QS:125-20-SE



LAS VEGAS FIRE & RESCUE NOTES:

FIRE FLOW IS BASED ON TABLE B 105.1 IFC 2012, APPENDIX B.

BUILDING HEIGHT, NUMBER OF STORIES, AND TYPE OF CONSTRUCTION ARE ALL DETERMINED BASED ON THE GUIDELINES AND DEFINITIONS OUTLINE IN IFC APPENDIX B.

ANY PERMITTED REDUCTIONS IN THE REQUIRED FIRE FLOW ARE OUTLINED IN SNFC 8105.2.

IN DETERMINING THE MINIMUM NUMBER OF HYDRANTS REQUIRED, THE MAXIMUM FLOW FROM EACH HYDRANT SHALL BE 1500 GPM. HYDRANT SPACING SHALL BE PER IFC APPENDIX C / SNFC SECTION C105.1.

DEVELOPMENT WITH MULTIPLE BUILDINGS: THIS CHART SHALL BE PROVIDED FOR THE LARGEST BUILDING FOR EACH CONSTRUCTION TYPE, AND FOR EACH SPRINKLERED/NON SPRINKLERED BUILDING TYPE IF APPLICABLE.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,750 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	40,000 S.F.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION FIRE WALLS:	40,000 S.F.
BUILDING HEIGHT:	35 FEET
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	A-3
AUTOMATIC FIRE SPRINKLER SYSTEM: Y (NFPA 13) - DEMAND 360 GPM	

REVIEWED BY: *[Signature]* DATE: 2/14/19

EASEMENT WITH TREES, SHRUBS, FENCE, BLOCK WALLS, OR DECORATIVE ROCKS

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE CITY DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

UTILITY CONSTRUCTION NOTE:

WE ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE START OF CONSTRUCTION. IF CONFLICTS EXIST IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, AND THE PROJECT ENGINEER IMMEDIATELY.

BASIS OF BEARINGS:

SOUTH 00°16'37" WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 NORTH, RANGE 12 EAST, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 205 OF SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK "SLV802056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.

ELEVATION: 2558.08 (US SURVEY FEET)
779.704 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

Call Before You Dig

Call before you dig. Avoid hitting underground utility lines. It's costly.

Call 1-800-432-5300 or 1-800-227-2929

PRESSURE REDUCING VALVE (PRV) NOTE:

THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

LVVWD SURVEY NOTE:

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

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

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

WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:

"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME"

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISH GRADE PER UDACS.

ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES

NOTE: ABOVE UTILITY

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 & 19.08

ESTIMATED DAILY SEWER CONTRIBUTIONS (MGD)

(LIGHT COMMERCIAL)
3.95 ACRES X 4,500 GPD/ACRE = 17,775 GPD
TOTAL AVERAGE CONTRIBUTION = 0.018 MGD

TOTAL PEAK FLOW = 0.018 MGD X 3.4 (PEAK FACTOR) = 0.061 MGD
TOTAL PEAK + 25% MET WEATHER FLOW = 0.061 MGD X 1.25 = 0.077 MGD

(2) 8" REDUCED PRESSURE DETECTOR ASSEMBLY RPDA

THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. INSTALL VEHICULAR PROTECTION BOLLARDS AS NEEDED PER UDACS PLATE NO. 75.

(4) 1.5" & (1) 1" PRIVATE REDUCED PRESSURE PRINCIPLE ASSEMBLY RPPA

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE CORRESPONDING AGENCY. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

APPROVAL

[Signature] 2/14/19
DATE

APPROVAL

[Signature] 2/14/19
DATE

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136089 FIRST APPROVED DATE: 3-6-17
LVVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON SITE 2,750 GPM
SHEETS: C-1, C-2, D-1, P-1, MU, U-1, U-2

FIRE DEPARTMENT APPROVAL

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

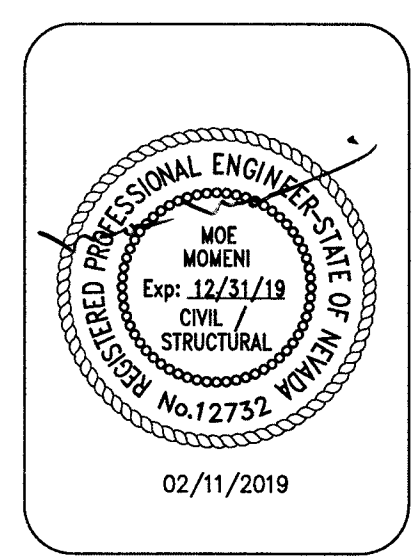
REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

momeni ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING

3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117

TEL: (702) 902-2444 | FAX: (702) 248-8485 | MOE@MHMEENGINEERS.COM



02/11/2019
DATE

103109
PROJECT NUMBER

RM
DRAWN BY

MM
CHECKED BY

DURANGO BELTWAY PLAZA

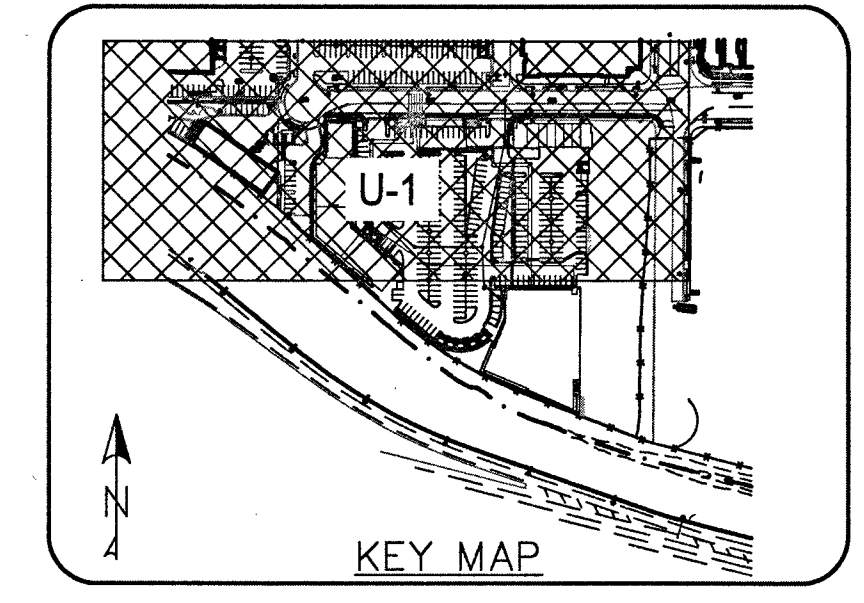
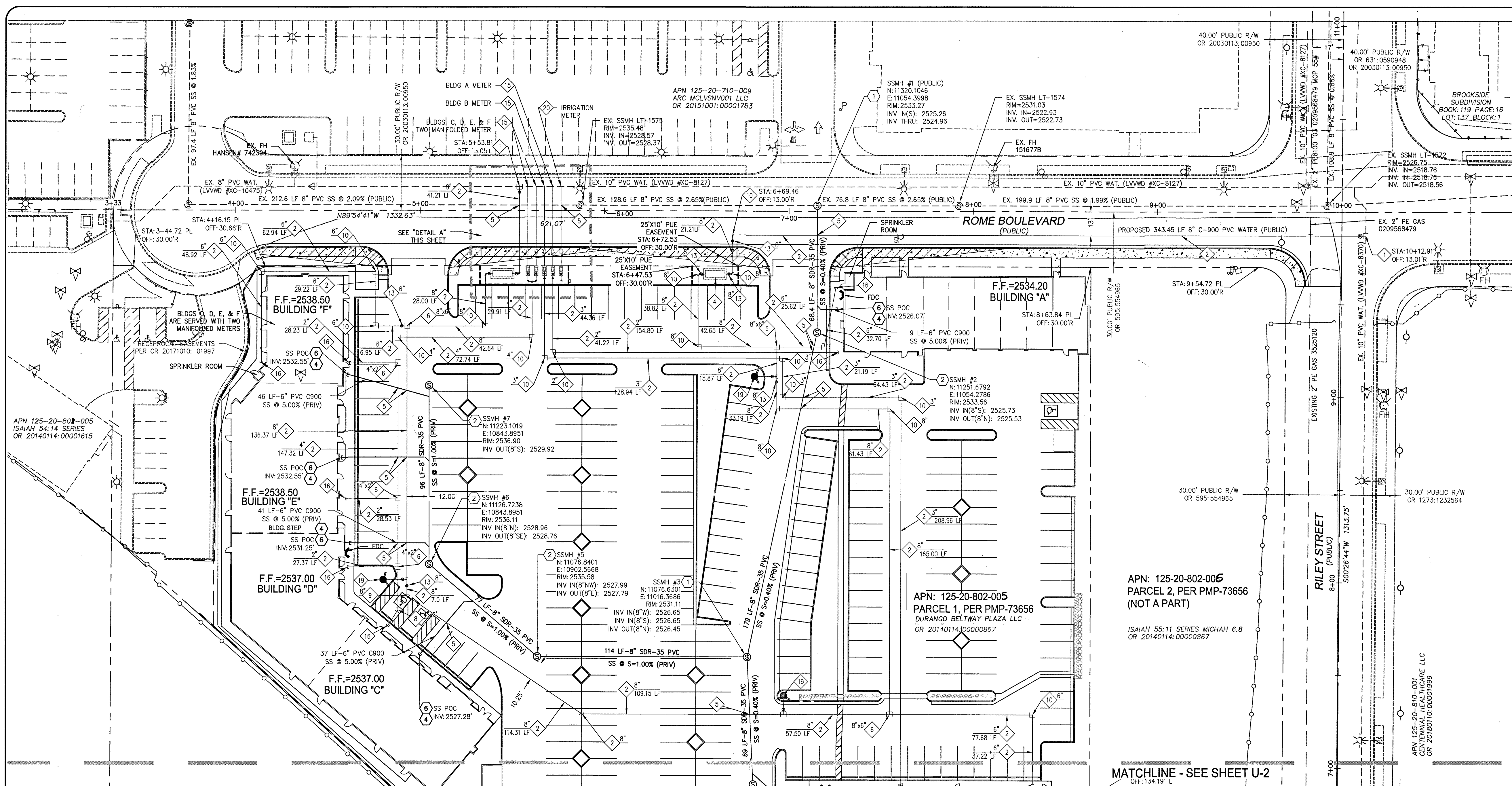
CITY OF LAS VEGAS
SVC OF ROME BLVD. AND RILEY ST.

MASTER UTILITY PLAN

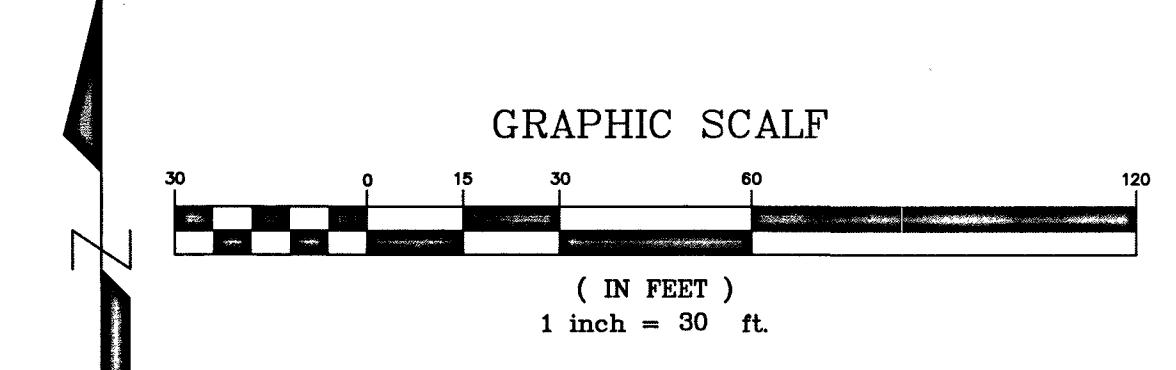
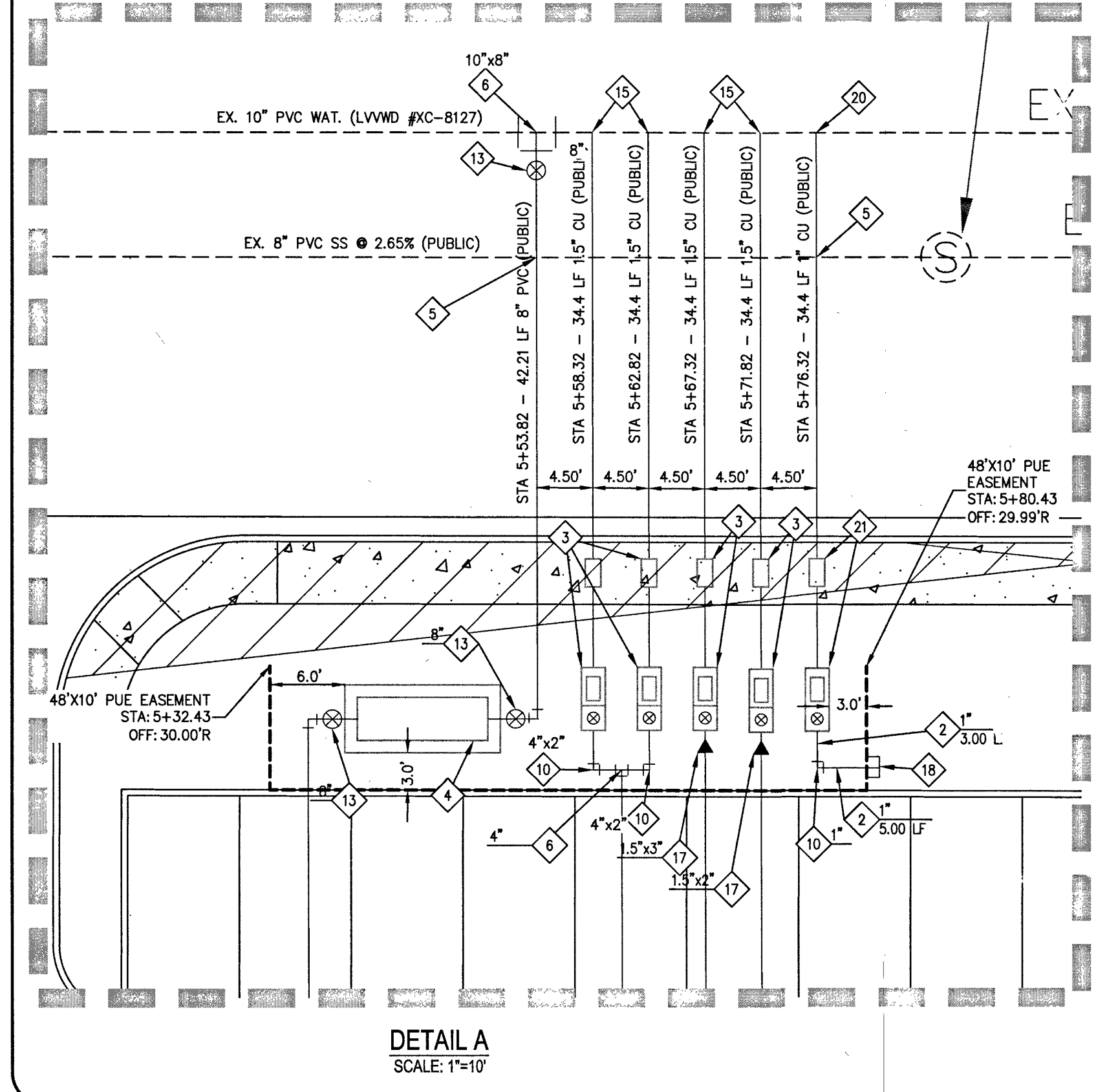
SHEET: **MU**

8 OF 13
CLV L18-02031

PROJ.#: 136089A QS:125-20-5E



- WATER CONSTRUCTION NOTES:**
- 1. ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) LATEST EDITION AND ALL APPLICABLE ORDINANCES ADOPTED BY THE CITY OF LAS VEGAS.
 - 2. INSTALL TAPPING SLEEVE & TAPPING VALVE PER UDACS PLATE NO. 34, 39, & UDACS SECTION 2.24.01 B
 - 3. INSTALL C-900 PVC WATER LINE, SIZE PER PLAN
 - 4. INSTALL 1.5" METER WITH 1.5" RPPA TO BE INSTALLED OUTSIDE ROW, PER UDACS PLATE #4 AND #6
 - 5. INSTALL 8" RPPA PER UDACS PLATE #56. RPPA ARE TO BE INSTALLED OUTSIDE OF THE R.O.W.
 - 6. CONSTRUCT WATER MAIN CROSSING PER UDACS SECTION 2.22 AND PLATES 21, 22, & 23 AS APPLICABLE.
 - 7. INSTALL TEE W/ THRUST BLOCKS PER UDACS PLATE #31
 - 8. INSTALL 11.25" BEND W/ THRUST BLOCKS PER UDACS PLATE #31, SIZE PER PLAN
 - 9. INSTALL 22.5" BEND W/ THRUST BLOCKS PER UDACS PLATE #31, SIZE PER PLAN
 - 10. INSTALL 45" BEND W/ THRUST BLOCKS PER UDACS PLATE #31, SIZE PER PLAN
 - 11. INSTALL 90" BEND W/ THRUST BLOCKS PER UDACS PLATE #31, SIZE PER PLAN
 - 12. STUB & CAP WATER SERVICE REFER TO PLUMBING PLANS FOR CONTINUATION. CONTRACTOR TO INSTALL INCREASERS / DECREASERS AS NECESSARY.
 - 13. 8" 45" VERTICAL BEND W/ THRUST BLOCKS PER UDACS PLATE #31
 - 14. INSTALL GATE VALVE, SIZE PER PLAN, W/ THRUST BLOCKS PER UDACS PLATE #30
 - 15. INSTALL CAP, SIZE PER PLAN, W/ THRUST BLOCKS PER UDACS PLATE #31
 - 16. INSTALL 1-1/2" SERVICE SADDLE WITH 1-1/2" WATER LATERAL PER DETAIL L ON SHEET D-1
 - 17. STUB & CAP WATER SERVICE REFER TO PLUMBING AND/OR FIRE SPRINKLER PLANS FOR CONTINUATION. CONTRACTOR TO INSTALL REDUCERS/INCREASERS AS NECESSARY.
 - 18. INSTALL REDUCER, SIZE PER PLAN, WITH ANCHOR BLOCK PER UDACS PLATE #30
 - 19. STUB & CAP WATER SERVICE FOR LANDSCAPING. REFER TO LANDSCAPE ARCH. PLANS FOR BACKFLOW PREVENTION AND CONTINUATION.
 - 20. INSTALL FIRE HYDRANT ASSEMBLY & 6" GATE VALVE PER UDACS PLATE #40.
 - 21. INSTALL 1" SERVICE SADDLE WITH 1" WATER LATERAL PER DETAIL L ON SHEET D-1
 - 22. INSTALL 1" IRRIGATION METER AND WITH 1" RPPA PER UDACS PLATE #4 AND #6
- SEWER CONSTRUCTION NOTES:**
- 1. ALL SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS (DCSWS) LATEST EDITION AND ALL APPLICABLE ORDINANCES ADOPTED BY THE CITY OF LAS VEGAS.
 - 2. INSTALL 48" SANITARY SEWER MANHOLE PER DCSWS No. SD-1A & SD-1B W/ CONC. COLLAR PER DCSWS No. SD-4, AND COVER AND RING W/ SINGLE 24" I.D. REFER TO DCSWS No. SD-7 FOR STANDARD MANHOLE BASE.
 - 3. INSTALL 48" SANITARY SEWER MANHOLE PER DCSWS No. SD-1A & SD-1B W/ CONC. COLLAR PER DCSWS No. SD-4, AND COVER AND RING PER DCSWS No. SD-2.
 - 4. INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER DCSWS No. SD-14, SD-15 & SD-16
 - 5. INSTALL 6" SANITARY SEWER LATERAL PER DCSWS No. SD-22, SD-23 & SD-25
 - 6. INSTALL 48" SHALLOW MANHOLE PER DCSWS No. SD-13 W/ CONC. COLLAR PER DCSWS No. SD-4, AND COVER AND RING PER DCSWS No. SD-2 (SPECIAL MANHOLE "B")
 - 7. STUB & CAP SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION. CONTRACTOR TO INSTALL REDUCERS & CLEAN-OUTS AS NECESSARY.
- SEE SHEET C-2 FOR CITY OF LAS VEGAS GENERAL NOTES.



PRESSURE REDUCING VALVE (PRV) NOTE:

THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

- GENERAL NOTES:**
1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAYMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRADING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
 2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
 3. CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC OPERATIONS DIRECTLY AT 455-6200 TO SCHEDULE COUNTY STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA A MINIMUM OF 48 HRS NOTICE IS REQUIRED PRIOR TO LOCATES. HOURS OF OPERATION: 6:30 AM - 3:00 PM, MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.
 4. THE PROJECT SITE LIES ALONG THE BOUNDARY BETWEEN THE AGENCY'S 2745 PRESSURE ZONES.
 5. ALL SEWER / STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 6. ALL ON-SITE WATER IS "PRIVATE" UNLESS NOTED OTHERWISE.
 7. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF THE LOT AND INSTALL SEWER CHECK VALVE WHEN REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
 8. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
 9. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15.
 10. ALL LOCATIONS OF EXISTING UTILITIES DEPICTED ON THESE PLANS ARE APPROXIMATIONS ONLY.

LAS VEGAS FIRE & RESCUE NOTES:

FIRE FLOW IS BASED ON TABLE B 105.1 IFC 2012, APPENDIX B

BUILDING HEIGHT, NUMBER OF STORIES, AND TYPE OF CONSTRUCTION ARE ALL DETERMINED BASED ON THE GUIDELINES AND DEFINITIONS OUTLINE IN IFC APPENDIX B

ANY PERMITTED REDUCTIONS IN THE REQUIRED FIRE FLOW ARE OUTLINED IN SNEC B105.2

IN DETERMINING THE MINIMUM NUMBER OF HYDRANTS REQUIRED, THE MAXIMUM FLOW FROM EACH HYDRANT SHALL BE 1500 GPM. HYDRANT SPACING SHALL BE PER IFC APPENDIX C / SNEC SECTION C105.1

DEVELOPMENT WITH MULTIPLE BUILDINGS: THIS CHART SHALL BE PROVIDED FOR THE LARGEST BUILDING FOR EACH CONSTRUCTION TYPE; AND FOR EACH SPRINKLERED/NON SPRINKLERED BUILDING TYPE IF APPLICABLE

ESTIMATED DAILY SEWER CONTRIBUTIONS (MGD)

(LIGHT COMMERCIAL)
3.95 ACRES X 4,500 GPD/ACRE = 17,775 GPD
TOTAL AVERAGE CONTRIBUTION = 0.018 MGD
TOTAL PEAK FLOW = 0.018 MGD X 3.4 (PEAK FACTOR) = 0.061 MGD
TOTAL PEAK + 25% MET WEATHER FLOW = 0.061 MGD X 1.25 = 0.077 MGD

NOTE: ABOVE UTILITY

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 & 19.08

FIRE DEPARTMENT APPROVAL

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

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,750 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

BASED ON:

- SQUARE FOOTAGE: 40,000 S.F.
- LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION FIRE WALLS: 40,000 S.F.
- BUILDING HEIGHT: 35 FEET
- NUMBER OF STORIES: 2 FLOORS
- TYPE OF CONSTRUCTION: A-B
- OCCUPANCY: A-3
- AUTOMATIC FIRE SPRINKLER SYSTEM: Y (NFPA 13) - DEMAND 360 GPM

REVIEWED BY: [Signature] DATE: 2/4/19

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

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

NOTE:

INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO.15

WARNING FIRE LINE (NON-POTABLE WATER)

ALL EXISTING, RELOCATED OR PROPOSED DCD/DPDA INSTALLATIONS:

"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME"

APPROVAL

[Signature] 2/21/19
DATE

SOUTHWEST GAS

APPROVAL

[Signature] 2/4/19
DATE

LAS VEGAS FIRE & RESCUE

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136088 FIRST APPROVED DATE: 3-6-19

LVVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON SITE 2,750 GPM

SHEETS: C-1, C-2, D-1, P-1, M-1, U-1, U-2

(2) 8" REDUCED PRESSURE DETECTOR ASSEMBLY RPDA

THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. INSTALL VEHICULAR PROTECTION BOLLARDS AS NEEDED PER UDACS PLATE NO. 75.

(4) 1.5" & (1) 1" PRIVATE REDUCED PRESSURE PRINCIPLE ASSEMBLY RPPA

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE CORRESPONDING AGENCY. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

UTILITY CONSTRUCTION NOTE:

WE ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE START OF CONSTRUCTION. IF CONFLICTS EXIST IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, AND THE PROJECT ENGINEER IMMEDIATELY.

BASIS OF BEARINGS:

SOUTH 091°37' WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 60 EAST, N.M.D., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 205 OF SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK "BLV802056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.

ELEVATION: 2558.09 (US SURVEY FEET)
779.704 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

Call Before You Dig

1-702-432-5300
1-702-227-2929

Call before you dig. AVOID HITTING UNDERGROUND UTILITIES. IT'S COSTLY.

Call Before You Dig

1-702-432-5300
1-800-227-2600

momeni ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING

3110 S. DURANGO DRIVE, SUITE 205

LAS VEGAS, NEVADA 89117

TEL: (702) 902-2444 | FAX: (702) 248-8485 | MCE@MHENGINEERS.COM

REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

DURANGO BELTWAY PLAZA

CITY OF LAS VEGAS

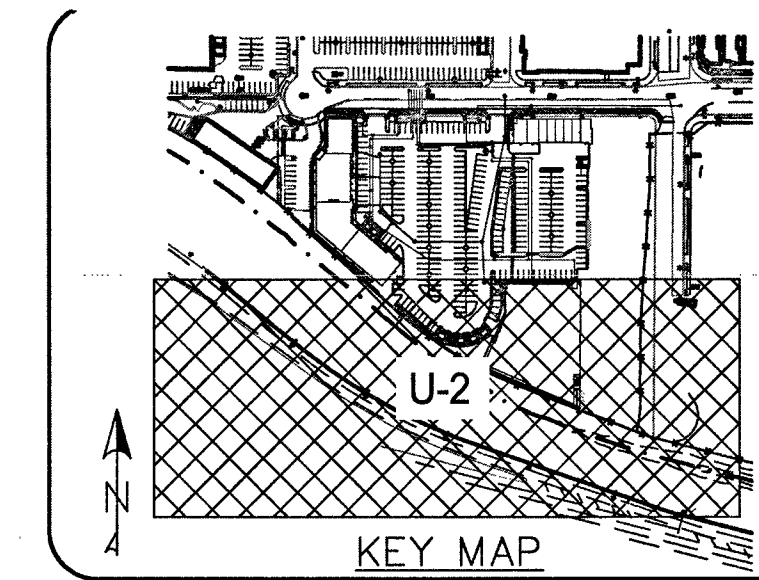
SWC OF ROME BLVD. AND RILEY ST.

UTILITY PLAN 1

U-1

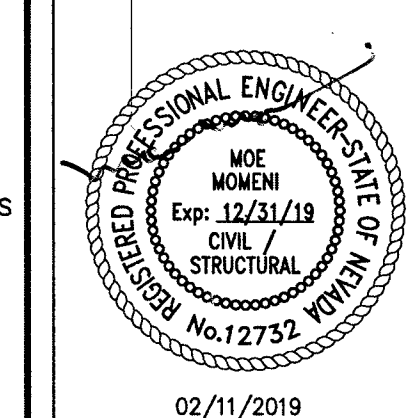
9 OF 13

CLV L18-02031

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moment ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2441 | FAX: (702) 248-8005 | LMCE@MOMENTENGINEERS.COM



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

PROJECT: **DURANGO BELTWAY PLAZA**
 CITY OF LAS VEGAS
 SWC OF ROME BLVD. AND RILEY ST.

SHEET:

U-2

10 OF 13

① INSTALL 48" SANITARY SEWER MANHOLE PER DCSWCS NO. SD-14 & SD-1B W/ CONC. COLLAR PER DCSWCS NO. SD-4, AND COVER AND RING W/ SINGLE 24" LU. REFER TO DCSWCS NO. SD-7 FOR STANDARD MANHOLE BASE.

② INSTALL 48" SANITARY SEWER MANHOLE PER DCSWCS NO. SD-14 & SD-1B W/ CONC. COLLAR PER DCSWCS NO. SD-4, AND COVER AND RING W/ SINGLE 24" LU. REFER TO DCSWCS NO. SD-7 FOR STANDARD MANHOLE BASE.

③ INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER DCSWCS SD-14, SD-15 & SD-16

④ INSTALL 6" SANITARY SEWER LATERAL PER DCSWCS SD-22, SD-23 & SD-25

⑤ INSTALL 48" SHALLOW MANHOLE PER DCSWCS NO. SD-13 W/ CONC. COLLAR PER DCSWCS NO. SD-4, AND COVER AND RING PER DCSWCS NO. SD-2, (SPECIAL MANHOLE "B")

⑥ STUB & CAP SEWER SERVICE. REFER TO PLUMBING PLANS F FOR CONTINUATION. CONTRACTOR TO INSTALL REDUCERS & CLOSURE PLUGS AS NECESSARY.

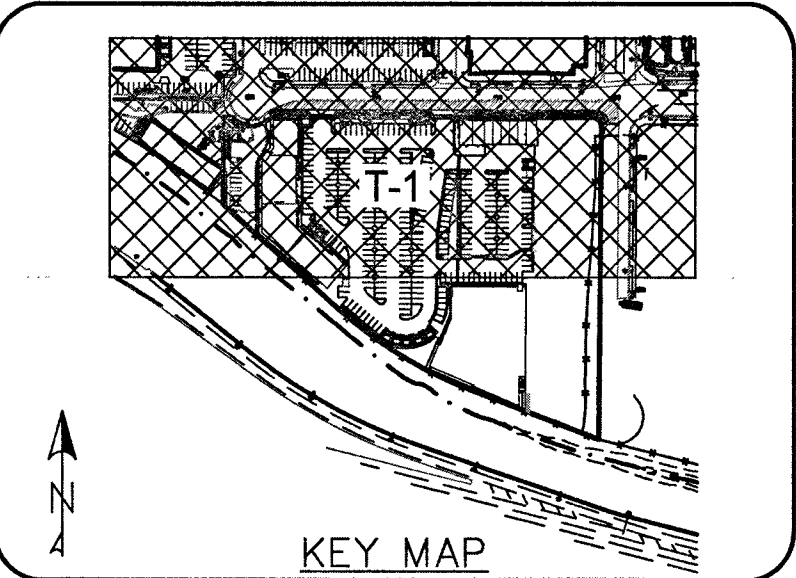
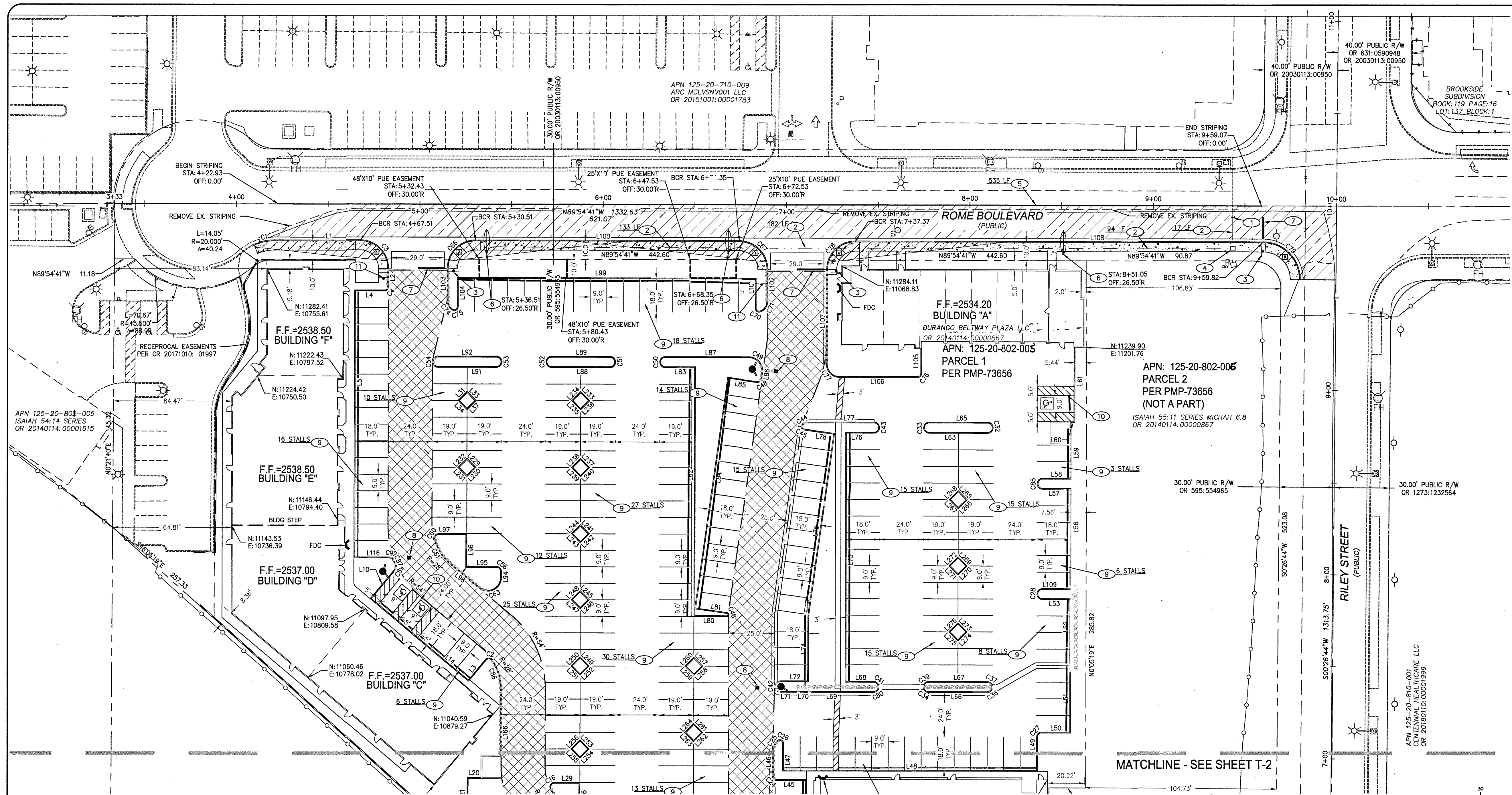
SEE SHEET 3-2 FOR NOTES ON 15 MAGS GENERAL NOTES

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. Call Before You Overhead 1-702-227-2929	 AVOID HITTING OVERHEAD TRAFFIC SIGNALS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY. Call before you UnderGround 1-702-432-5300 MEETING A NEED: SPECIAL OF TRANSPORTATION (T&E)	Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600
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APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE CORRESPONDING AGENCY. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED & CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

107V7630 CLV L18-0203

000 141436080A 08.12.20 25



TRAFFIC NOTES

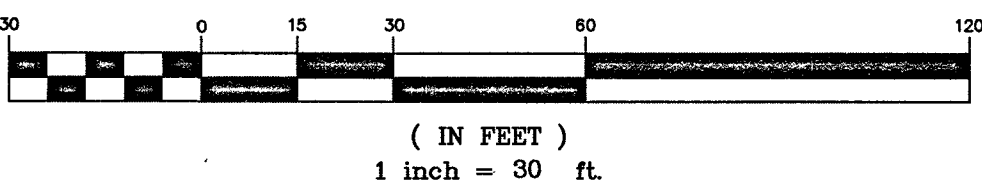
- INTERCEPT AND EXTEND EX. CONDUITS.
- INSTALL (1) 1-1/4" PVC CONDUIT W/ (2) #4 AND (1) #8 THW COPPER CONDUCTORS
- INSTALL (R1-1) "STOP" SIGN PER DWG NO. 249.1. SEE PLAN FOR SIZE.
- INSTALL NO. 3-1/2 PULLBOX PER DWG NO. 705
- INSTALL TYPE 3 CENTERLINE PER CAUSD NO. 244
- INSTALL 100W LUMINAIRE ON STANDARD STREETLIGHT POLE PER DWG NOS. 314 AND 320. CONSTRUCT FOUNDATION PER DWG NO. 321
- INSTALL STOP BAR
- INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER IN CENTER OF DRIVE AISLE PERPENDICULAR TO THE FIRE HYDRANT PER IFC AMENDMENTS C107.1
- STRIPE PARKING STALLS USING 4" WHITE PAINT. SEE PLAN FOR DIMENSIONS AND STALL COUNT.
- STRIPE A.D.A. PARKING IN ACCORDANCE WITH ICC/ANSI A117.1-2003 REQUIREMENTS.
- INSTALL TYPE B SIGN MINIMUM DIMENSION OF 24" WIDE BY 18" HIGH. RED LETTER ON REFLECTIVE WHITE BACKGROUND WITH 1/2" INCH RED TRIM STRIP AROUND THE ENTIRE OUTER EDGE OF SIGN. LETTERING ON SIGN SHALL BE "ON-SITE PARKING IN MARKED FIRE LANES PROHIBITED" PER CITY OF LAS VEGAS FIRE & RESCUE, FIRE PREVENTION DIVISION REQUIREMENTS.

SEE SHEET C-2 FOR CITY OF LAS VEGAS GENERAL NOTES.

TRAFFIC NOTES:

- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO THE CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET THE CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
- CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS DIRECTLY TO SCHEDULE STAFF TO LOCATE UNDERGROUND STREET LIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HRS NOTICE IS REQUIRED PRIOR TO LOCATES.

GRAPHIC SCALE



STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A" (PRIVATE CIRCUIT)

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CITY OF LAS VEGAS AT (702) 229-6331 TO PERFORM CIRCUIT CAPACITY VERIFICATION.
	NO	INSTALL A NEW PEDESTAL.
SERVICE PEDESTAL LOCATION: ROME BOULEVARD STA: 9+40		
CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)		
DATE OF CAPACITY VERIFICATION		
ENGINEER OF THE OFFSITE PLANS		
PERSON WHO DID THE CALCULATIONS:		
CONSULTING ENGINEERING FIRM: MOMENI ENGINEERS, LLC.		
CAPACITY CALCULATIONS		
1. CIRCUIT CAPACITY:	60.0	AMPS
2. MAXIMUM CONTINUOUS CURRENT DRAW (80%):	48.0	AMPS
3. EXISTING CIRCUIT LOAD (ENTER 0 IF NEW):	0	AMPS
4. AVAILABLE (2 MINUS 3):	48.0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:		
5. 1" NUMBER OF 55 WATT STILTS @ 0.25 AMPS/EA:	2	AMPS
6. 0" NUMBER OF 150 WATT STILTS @ 0.70 AMPS/EA:	0	AMPS
7. 0" NUMBER OF 400 WATT STILTS @ 3.9 AMPS/EA:	0	AMPS
8. TOTAL PROPOSED ADDITIONAL LOAD (5 + 6 + 7):	2	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 8):	46.0	AMPS

LEGEND:

STREET CENTERLINE	HANDICAP ACCESS ROUTE
PROPOSED STREET LIGHT CONDUIT	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS
INSTALL RED PAINTED CURB/PAVEMENT WITH STENCIL "NO PARKING FIRE LANE" - TYPE C SIGN MINIMUM DIMENSION OF 36 INCHES WIDE BY 4 INCHES HIGH. WHITE LETTERS ON RED ENAMEL BACKGROUND PER CITY OF LAS VEGAS FIRE & RESCUE FIRE PREVENTION DIVISION REQUIREMENT	TRAFFIC SIGNS PER PLAN
FIRE ACCESS ROUTE	FIRE HYDRANT
SIGHT VISIBILITY RESTRICTION ZONE (SVRZ): NOTHING OVER 24" IN HEIGHT ALLOWED IN SVZ EXCEPT TRAFFIC CONTROL DEVICES AND STREETLIGHT POLES. SEE DETAIL THIS SHEET.	EXISTING STREET LIGHT
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE ROUTE TURNING RADIUS

SIDEWALK RAMP TABLE

	"A" (FT.) MIN.	"B" (FT.) MIN.
1	4.5'	12.0'
2	4.5'	9.5'
3	8.0'	8.0'
4	12.0'	4.5'
5	15.0'	4.5'

APPROVAL:

LAS VEGAS FIRE AND RESCUE
DATE: 2/14/19

BASIS OF BEARINGS:

SOUTH 00°16'37" WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 84 EAST, NEAD, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 206 OF SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK "SLV802056" RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.
ELEVATION: 2558.08 (US SURVEY FEET)
779.704 (METERS)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

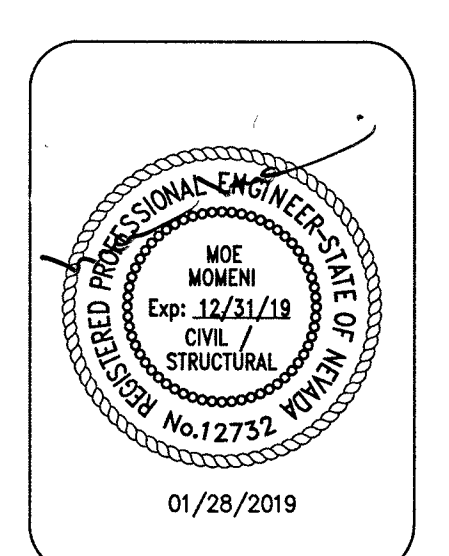
Call before you dig
1-702-227-2929

Call before you dig

1-702-432-5300
1-800-227-2600

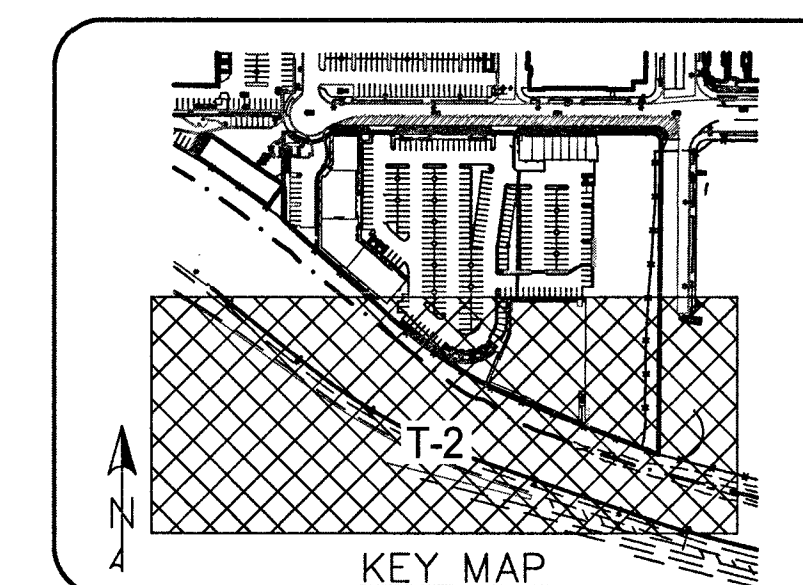
REVISIONS	DESCRIPTION	DATE	BY	APPROVAL

momeni ENGINEERS, LLC.
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-9495 | MJOE@MOMENIENGINEERS.COM



01/28/2019	DATE
103109	PROJECT NUMBER
RM	DRAWN BY
MM	CHECKED BY

DURANGO BELTWAY PLAZA
CITY OF LAS VEGAS
SWC OF ROME BLVD. AND RILEY ST.
TRAFFIC-HORIZONTAL CONTROL PLAN 1



- (1) INTERCEPT AND EXTEND EX. CONDUITS.
- (2) INSTALL (1) 1-1/4" PVC CONDUIT W/ (2) #4 AND (1) #8 THW COPPER CONDUCTORS
- (3) INSTALL (R1-1) "STOP" SIGN PER DWG. NO. 249.1. SEE PLAN FOR SIZE.
- (4) INSTALL NO. 3-1/2 PULLBOX PER DWG. NO. 748.
- (5) INSTALL TYPE 3 CENTERLINE PER CCASD NO. 244
- (6) INSTALL 100W LUMINAIRE ON STANDARD STREETLIGHT PER DWG. NOS. 314 AND 320. CONSTRUCT FOUNDATION PER DWG. NO. 321
- (7) INSTALL STOP BAR
- (8) INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER IN CENTER OF DRIVE, ASIDE, PERPENDICULAR TO THE FIRE HYDRANT PER IFC AMENDMENTS C1071
- (9) STRIPE PARKING STALLS USING 4" WHITE PAINT. SEE PLAN FOR DIMENSIONS AND STALL COUNT.
- (10) STRIPE A.D.A. PARKING IN ACCORDANCE WITH ICC/ANSI 11711-2.03 REQUIREMENTS.
- (11) INSTALL TYPE B SIGN MINIMUM DIMENSION OF 24" WIDE BY 18" HIGH. RED LETTER ON REFLECTIVE WHITE BACKGROUND WITH 3/8 INCH RED TRIM STRIP AROUND THE ENTIRE OUTER EDGE OF SIGN. LETTERING ON SIGN SHALL BE: "ON-SITE PARKING IN MARKED FIRE LANES IS UNRESTRICTED" PER CITY OF VEGAS FIRE & RESCUE, FIRE PREVENTION DIVISION REQUIREMENTS.

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR DAMAGED BY TRENCHING AND/OR CONSTRUCTION OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET THE CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROXIMATE EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN ISSUE LEVEL II ELECTRICAL CONTRACTOR TO REPAIR AND/OR REPLACE PER UNIFORM SPECIFICATION NO. 623.6.01.02.
3. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS DIRECTLY TO SCHEDULE STAFF TO LOCATE UNDERGROUND STREET LIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. THE CITY OF LAS VEGAS WILL PROVIDE ACCESS TO THE FACILITIES.



APPROVAL: _____

_____ 82 _____ 2/14/19

LAS VEGAS FIRE AND RESCUE _____ DATE

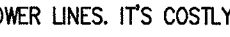
SECTION 07161377 WEST, BEING THE BEARING OF THE CENTERLINE OF DURANGO DRIVE AND THE 1ST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 19 NORTH, RANGE 60 EAST, M.D.M. CLARK COUNTY, NEVADA, AS SHOWN IN 200' SURVEYS, AT PAGE 97, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK "51902056". RIVET & PLATE IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 ON RAMP.

ELEVATION: 2558.08 (US VERTICAL FEET)
779.704 (METERS)

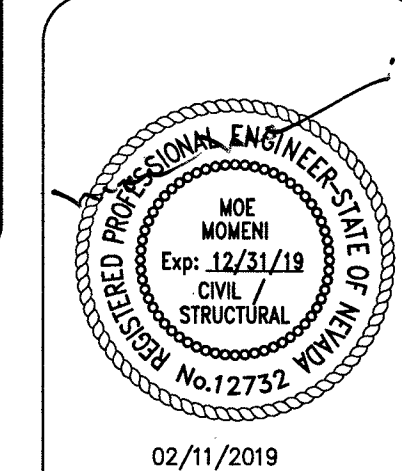
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  Call before you dig Before You Overhead 1-702-227-2929	AVOID HITTING UNDERGROUND TRAFFIC SIGNALS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.  Call before you UnderGround 1-702-432-5300 PREMIER & ASSOCIATES OF TRANSPORTATION [POT]	Call before you CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  OR 1-800-227-2600
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DECLARATION			
BY	DATE	DESCRIPTION	APPROVAL

moment ENGINEERS, LLC.

CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: 702.902.9444 FAX: 702.902.9405 E-MAIL: LMCE@MOMENTENGINEERS.COM



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

PROJECT:

DURANGO BELTWAY PLAZA

CITY OF LAS VEGAS
SWC OF ROMIE BLVD. AND RILEY ST.

**TRAFFIC-HORIZONTAL
CONTROL PLAN II**

SHEET:

T-2

12 OF 13

CLV 118-02031

	STREET CENTERLINE		HANDICAP ACCESS ROUTE
	PROPOSED STREET LIGHT CONDUIT		BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS
	INSTALL RED PAINTED CURB/PAVEMENT WITH STENCIL "NO PARKING FIRE LANE" - TYPE C SIGN		TRAFFIC SIGNS PER PLAN
	MINIMUM DIMENSION OF 36 INCHES WIDE BY 4 INCHES HIGH, WHITE LETTERS ON RED ENAMEL BACKGROUND PER CITY OF LAS VEGAS FIRE & RESCUE FIRE PREVENTION DIVISION REQUIREMENT		FIRE HYDRANT
			EXISTING STREET LIGHT
			FIRE DEPARTMENT CONNECTION (FDC)
	FIRE ACCESS ROUTE		FIRE ROUTE TURNING RADIUS
	SIGHT VISIBILITY RESTRICTION ZONE (SVRZ): NOTHING OVER 24" IN HEIGHT ALLOWED IN SVR EXCEPT TRAFFIC CONTROL DEVICES AND STREETLIGHT POLES. SEE DETAIL THIS SHEET.		

Wheel stop per city of Las Vegas requirement

Parcel Line Table		
Line #	Length	Direction
L1	46.27	S89° 54' 40.90"E
L2	10.31	S0° 05' 19.10"W
L3	14.95	N39° 54' 48.98"E
L4	16.52	N89° 54' 40.90"W
L5	145.00	S0° 04' 40.00"W
L10	20.88	S39° 54' 48.98"W
L14	70.00	S0° 05' 11.02"E
L20	7.50	N89° 54' 40.98"W
L21	19.00	S0° 05' 19.32"W
L22	14.07	S89° 54' 40.68"E
L24	13.83	S40° 02' 12.94"W
L25	80.36	S49° 57' 47.06"E
L26	16.64	S47° 09' 12.99"E
L27	16.14	S62° 21' 24.17"E
L28	27.50	N0° 05' 18.95"E
L29	13.39	N89° 54' 41.04"W
L30	7.92	S25° 52' 39.41"W
L31	6.00	S45° 05' 19.10"W
L32	20.20	S49° 57' 47.06"E
L33	6.00	N44° 54' 40.90"W

Parcel Line Table		
Line #	Length	Direction
L34	6.00	S44° 54' 40.90"E
L35	16.99	N89° 54' 40.82"W
L36	18.00	N0° 05' 19.18"E
L37	6.00	N45° 05' 19.10"E
L39	17.50	N89° 54' 41.02"W
L40	18.00	S0° 05' 18.02"W
L41	15.70	N89° 54' 40.82"W
L45	16.00	N89° 58' 32.42"W
L46	13.09	S0° 05' 19.10"W
L47	14.97	S0° 05' 19.22"W
L48	139.03	S89° 54' 45.45"E
L49	18.79	N0° 05' 19.22"E
L50	15.97	S89° 54' 00.33"E
L51	35.50	N0° 05' 19.11"E
L52	35.50	N0° 05' 19.12"E
L53	15.50	N89° 54' 40.90"W
L56	52.50	S0° 05' 19.11"W
L57	15.50	S89° 54' 40.90"E
L58	15.50	S89° 54' 40.90"E
L59	30.67	N0° 05' 19.09"E

Parcel Line Table		
Line #	Length	Direction
L60	2.00	S89° 54' 40.27"E
L61	40.51	N0° 05' 19.09"E
L63	32.00	S89° 54' 41.04"E
L65	32.00	N89° 54' 41.04"W
L66	32.00	S89° 54' 41.04"E
L67	32.00	N89° 54' 41.04"W
L68	15.50	N89° 54' 41.01"W
L69	33.87	S89° 54' 40.95"E
L70	4.00	S89° 54' 40.95"E
L71	9.00	S89° 54' 40.95"E
L72	15.37	N89° 54' 40.82"W
L73	136.00	N0° 05' 19.11"E
L74	35.63	N0° 05' 19.09"E
L75	100.38	N8° 05' 18.62"E
L76	15.50	S89° 54' 40.97"E
L77	36.73	N89° 54' 40.99"W
L78	16.40	S81° 54' 40.99"E
L80	17.38	S89° 54' 40.82"E
L81	17.63	N81° 54' 41.38"W
L82	135.00	S0° 05' 19.01"W

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	8.40	30.00	16.05	N82° 03' 45"E	8.38
C2	3.72	2.00	106.51	S86° 49' 58"E	3.21
C3	23.56	15.00	90.00	S44° 54' 41"E	21.21
C4	2.36	1.50	90.60	S45° 05' 19"W	2.12
C5	3.40	1.50	129.95	S24° 56' 14"E	2.72
C11	110.83	72.50	87.59	N86° 14' 39"E	100.35
C14	2.97	2.00	85.22	S75° 02' 08"W	2.71
C15	36.53	70.50	29.69	N14° 52' 07"E	36.12
C16	4.05	2.00	115.90	S32° 08' 14"W	3.39
C17	11.80	28.00	24.15	S37° 53' 19"E	11.71
C18	15.47	7.00	126.62	N66° 43' 34"E	12.51
C19	3.26	2.00	93.33	N43° 14' 53"W	2.91
C20	2.36	1.50	90.00	S45° 05' 19"W	2.12
C21	3.45	2.00	98.75	N40° 32' 05"W	3.04
C22	45.02	27.50	93.80	N55° 44' 36"E	40.16
C23	6.08	4.50	77.44	S38° 38' 00"E	5.63
C24	3.14	2.00	90.06	S44° 56' 37"E	2.83
C25	6.31	7.50	138.19	S24° 10' 55"W	6.12
C26	3.45	1.50	131.81	N65° 49' 05"W	2.74
C27	3.14	2.00	90.00	S45° 05' 19"W	2.83

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C28	7.85	2.50	180.00	N0° 05' 19"E	5.00
C31	7.85	2.50	180.00	S0° 05' 19"W	5.00
C32	7.85	2.50	180.00	N0° 05' 19"E	5.00
C33	7.85	2.50	180.00	S0° 05' 19"W	5.00
C34	2.90	2.50	66.42	S56° 42' 02"E	2.74
C36	2.90	2.50	66.42	N56° 52' 40"E	2.74
C37	2.90	2.50	66.42	N56° 42' 02"W	2.74
C39	2.90	2.50	66.42	S56° 52' 40"W	2.74
C41	2.90	2.50	66.43	N56° 41' 47"W	2.74
C42	8.27	2.63	180.00	S0° 05' 19"W	5.27
C43	7.85	2.50	180.00	N0° 05' 19"E	5.00
C44	2.43	2.50	55.59	S62° 17' 44"W	2.33
C45	3.05	1.50	116.41	S23° 42' 16"E	2.55
C46	1.75	0.58	172.00	N4° 05' 19"E	1.16
C48	3.14	2.00	90.00	N53° 05' 19"E	2.83
C49	11.97	7.00	98.00	N40° 54' 41"W	10.57
C50	7.85	2.50	180.00	S0° 05' 19"W	5.00
C51	7.85	2.50	180.00	N0° 05' 19"E	5.00
C52	7.85	2.50	180.00	S0° 05' 19"W	5.00
C53	7.85	2.50	180.00	S0° 05' 19"W	5.00

Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C54	7.85	2.50	180.00	N0° 05' 19"E	5.00
C56	3.14	2.00	90.00	N44° 54' 41"W	2.83
C60	3.73	2.00	106.91	S36° 37' 57"W	3.21
C61	16.26	28.00	33.26	S33° 27' 18"E	16.03
C63	15.86	7.00	129.82	N65° 00' 04"E	12.68
C66	23.56	15.00	90.00	S45° 05' 19"W	21.21
C67	23.56	15.00	90.00	N44° 54' 41"W	21.21
C70	2.80	1.50	106.84	S53° 19' 57"E	2.41
C71	7.02	5.50	73.16	N36° 40' 03"E	6.56
C74	5.76	5.50	60.00	S29° 54' 41"E	5.50
C75	3.14	1.50	120.00	N60° 05' 19"E	2.60
C76	2.36	1.50	90.00	N45° 05' 19"E	2.12
C77	10.21	6.50	90.00	S44° 54' 41"E	9.19
C78	23.56	15.00	90.00	S45° 05' 19"W	21.21
C79	31.54	20.00	90.36	N44° 43' 29"W	28.37
C80	2.90	2.50	66.41	N56° 52' 54"E	2.74
C84	7.85	2.50	180.00	S0° 05' 19"W	5.00
C85	7.85	2.50	180.00	S0° 05' 19"W	5.00
C86	16.16	27.50	33.67	S16° 44' 43"E	15.93
C87	3.09	59.50	2.98	S23° 15' 29"E	3.09

Parcel Line Table		
Line #	Length	Direction
L83	16.50	S89° 54' 40.99"E
L84	126.36	N8° 05' 18.62"E
L85	16.00	S81° 54' 41.38"E
L86	3.19	N8° 05' 18.62"E
L87	45.70	N89° 54' 40.90"W
L88	32.00	N89° 54' 41.04"E
L89	32.00	N89° 54' 41.04"W
L91	32.00	N89° 54' 41.04"W
L92	32.00	S89° 54' 41.04"E
L94	3.45	N0° 05' 19.18"E
L95	17.00	N89° 54' 40.82"W
L96	18.00	N0° 05' 18.95"E
L97	14.88	N89° 54' 41.02"W
L98	20.12	S50° 05' 11.02"E
L99	163.00	S89° 54' 40.90"E
L100	143.84	N89° 54' 40.90"W
L101	16.33	S0° 05' 19.10"W
L102	17.50	N0° 05' 19.10"E
L103	17.50	S0° 05' 19.10"W
L104	15.96	N0° 05' 19.10"E

Parcel Line Table		
Line #	Length	Direction
L105	13.47	N0° 05' 19.11"E
L106	43.00	S89° 54' 40.99"E
L107	51.47	S0° 05' 19.10"W
L108	222.64	N89° 54' 40.90"W
L109	15.50	N89° 54' 40.90"W
L110	1.07	S0° 05' 19.10"W
L116	19.46	S89° 54' 34.26"E
L166	36.04	S0° 05' 19.32"W
L229	6.00	N44° 54' 40.90"W
L230	6.00	N45° 05' 19.10"E
L231	6.00	S44° 54' 40.90"E
L232	6.00	S45° 05' 19.10"W
L233	6.00	N44° 54' 40.90"W
L234	6.00	S45° 05' 19.10"W
L235	6.00	S44° 54' 40.90"E
L236	6.00	N45° 05' 19.10"E
L237	6.00	N44° 54' 40.90"W
L238	6.00	S45° 05' 19.10"W
L239	6.00	S44° 54' 40.90"E
L240	6.00	N45° 05' 19.10"E

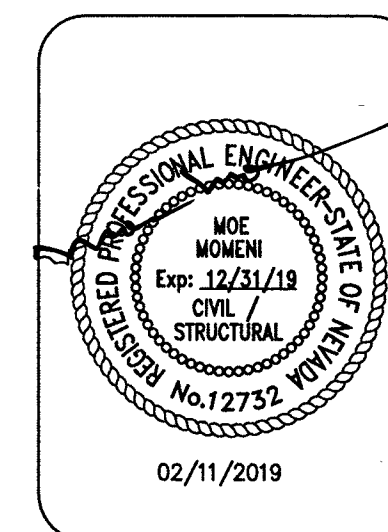
Parcel Line Table		
Line #	Length	Direction
L241	6.00	N4+ 54' 40.90"W
L242	6.00	N45' 05' 19.10"E
L243	6.00	S44' 54' 40.90"E
L244	6.00	S45' 05' 19.10"W
L245	6.00	N44' 54' 40.90"W
L246	6.00	N45' 05' 19.10"E
L247	6.00	S44' 54' 40.90"E
L248	6.00	S45' 05' 19.10"W
L249	6.00	N44' 54' 40.90"W
L250	6.00	S45' 05' 19.10"W
L251	6.00	S44' 54' 40.90"E
L252	6.00	N45' 05' 19.10"E
L253	6.00	N44' 54' 40.90"W
L254	6.00	N45' 05' 19.10"E
L255	6.00	S44' 54' 40.90"E
L256	6.00	S45' 05' 19.10"W
L257	6.00	N44' 54' 40.90"W
L258	6.00	N45' 05' 19.10"E
L259	6.00	S44' 54' 40.90"E
L260	6.00	S45' 05' 19.10"W

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C89	2.27	2.00	64.66	S7° 34' 59"W	2.14
C91	2.55	2.00	73.03	S10° 38' 17"E	2.38
C92	2.33	2.00	66.71	S55° 07' 22"E	2.20

Parcel Line Table		
Line #	Length	Direction
L261	6.00	N44° 54' 40.90"W
L262	6.00	N45° 05' 19.10"E
L263	6.00	S44° 54' 40.90"E
L264	6.00	S45° 05' 19.10"W
L265	6.00	N44° 54' 40.90"W
L266	6.00	N45° 05' 19.10"E
L267	6.00	S44° 54' 40.90"E
L268	6.00	S45° 05' 19.10"W
L269	6.00	N44° 54' 40.90"W
L270	6.00	N45° 05' 19.10"E
L271	6.00	S44° 54' 40.90"E
L272	6.00	S45° 05' 19.10"W
L273	6.00	N44° 54' 40.90"W
L274	6.00	N45° 05' 19.10"E
L275	6.00	S44° 54' 40.90"E
L276	6.00	S45° 05' 19.10"W

[illegible]

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CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117



02/11/2019
DATE
103109
PROJECT NUMBER
RM
DRAWN BY
MM
CHECKED BY

PROJECT:
DURANGO BELTWAY PLAZA
CITY OF LAS VEGAS
SWC OF ROME BLVD. AND RILEY ST.

**TRAFFIC-HORIZONTAL
CONTROL PLAN III**

SHEET:
T-3
13 OF 13

DURANGO BELTWAY PLAZA

LANDSCAPE IMPROVEMENT PLANS

STANDARD ABBREVIATIONS

⊗	AND	L.A.	LANDSCAPE ARCHITECT
①	AT	L.C.	LANDSCAPE CONTRACTOR
2-1	DEGREE & DIRECTION OF SLOPE	LT.	LIGHT
3-5	EXISTING CONTOURS	M	METER
#	NUMBER OR POUND	MAX.	MAXIMUM
-5-	REVISED CONTOURS	MID.	MIDDLE
A.C.	AIR CONDITIONER	MIN.	MINIMUM
A.D.	AREA DRAIN	MISC.	MISCELLANEOUS
AGG.	AGGREGATE	ML	MAIN LINE
ARCH.	ARCHITECT OR ARCHITECTURAL	MULTI.	MULTI-BRANCHED
ASPH.	ASPHALTIC CONCRETE	NAT.	NATURAL
BD.	BOARD	N.I.C.	NOT IN CONTRACT
BLDG.	BUILDING	NO.	NUMBER
BLK.	BLOCK	N.T.S.	NOT TO SCALE
B.O.S.	BOTTOM OF SLOPE	O.C.	ON CENTER
B.S.	BOTTOM OF STEP	P.A.	PLANTING AREA
BOT.	BOTTOM	P.L.	PROPERTY LINE
B.W.	BOTTOM OF WALL	P.S.I.	POUNDS PER SQUARE INCH
C.B.	CATCH BASIN	PT.	POINT
C.I.	CAST IRON	P.O.C.	POINT OF CONNECTION
CJ	COLD JOINT	P.V.C.	POLYVINYL CHLORIDE
CONT. J.	CONTROL JOINT	Q.C.	QUICK COUPLER
CL	CENTER LINE	QT.	QUART
CLR.	CLEAR	RAD. or R.	RADIUS
CONC.	CONCRETE	R.C.V.	REMOTE CONTROL VALVE
CTR.	CENTER	ROWD.	ROAD
CU.	CUBIC	RE	REGARDING
D.D.	DECK DRAIN	RE S.	RESAWN
D.F.	DOUGLAS FIR	REF.	REFERENCE
D.G.	DECOMPOSED GRANITE	REINF.	REINFORCED
D.I.	DRAIN INLET	RET.	RETAINING
DIA.	DIAMETER	REQ.	REQUIRED
D.L.	DRAIN LINE	RI.	RISER
DWG.	DRAWING	ROW	RIGHT OF WAY
EA.	EACH	R.S.	ROUGH SAWN
E.J.	EXPANSION JOINT	SCHED.	SCHEDULE
EL.	ELEVATION	SECT.	SECTION
ELEC.	ELECTRICAL	SHT.	SHEET
ENCL.	ENCLOSURE	SL	SLEEVE
ESP.	ESPALIERED	SP	SPREAD
EQ.	EQUAL	SPECS.	SPECIFICATIONS
EX.	EXISTING	SQ.	SQUARE
EXP.	EXPOSED	S.S.	SURFACED FOUR SIDES
E.W.	EACH WAY	STD.	STANDARD
F.F.	FINISH FLOOR ELEVATION	STL.	STEEL
F.G.	FINISH GRADE	T.B.	TOP OF BERM
FIN.	FINISH	T.C.	TOP OF CURB
F.L.	FLOW LINE	T.F.	TOP OF FOOTING
FLTS.	FLATS	T.G.	TOP OF GRADE
F.S.	FINISH SURFACE	THK.	THICK
FT.	FOOT OR FEET	T.O.S.	TOP OF SLOPE
FTG.	FOOTING	TRD.	TREAD
GA.	GAUGE	T.S.	TOP OF STEP
GAL.	GALLON CONTAINER	T.W.	TOP OF WALL
GALV.	GALVANIZED	TYP.	TYPICAL
G.C.	GROUND COVER	VERT.	VERTICAL
G.P.M.	GALLONS PER MINUTE	WI	WITH
GRD.	GRADE	W.I.	WROUGHT IRON
H.B.	HOSE BIB	WID	WITH OUT
HDR.	HEADER	WWM.	WELDED WIRE MESH
HORIZ.	HORIZONTAL		
HT.	HEIGHT		
INV.	INVERT		

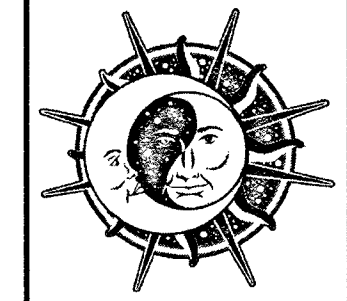
VICINITY MAP



INDEX

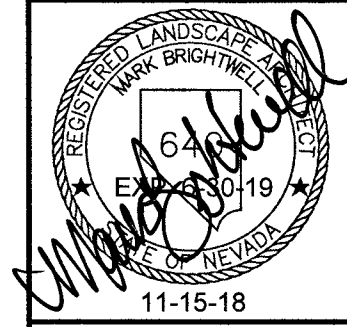
TITLE SHEET	L1.01
GENERAL NOTES	L2.01
INTENTIONALLY OMITTED FROM THIS SET	L3.01
INTENTIONALLY OMITTED FROM THIS SET	L4.01
IRRIGATION PLAN	L5.01
IRRIGATION DETAILS	L6.01
IRRIGATION SPECIFICATIONS	L6.02
PLANTING PLAN	L7.01
PLANTING DETAILS	L8.01
PLANTING SPECIFICATIONS	L8.02

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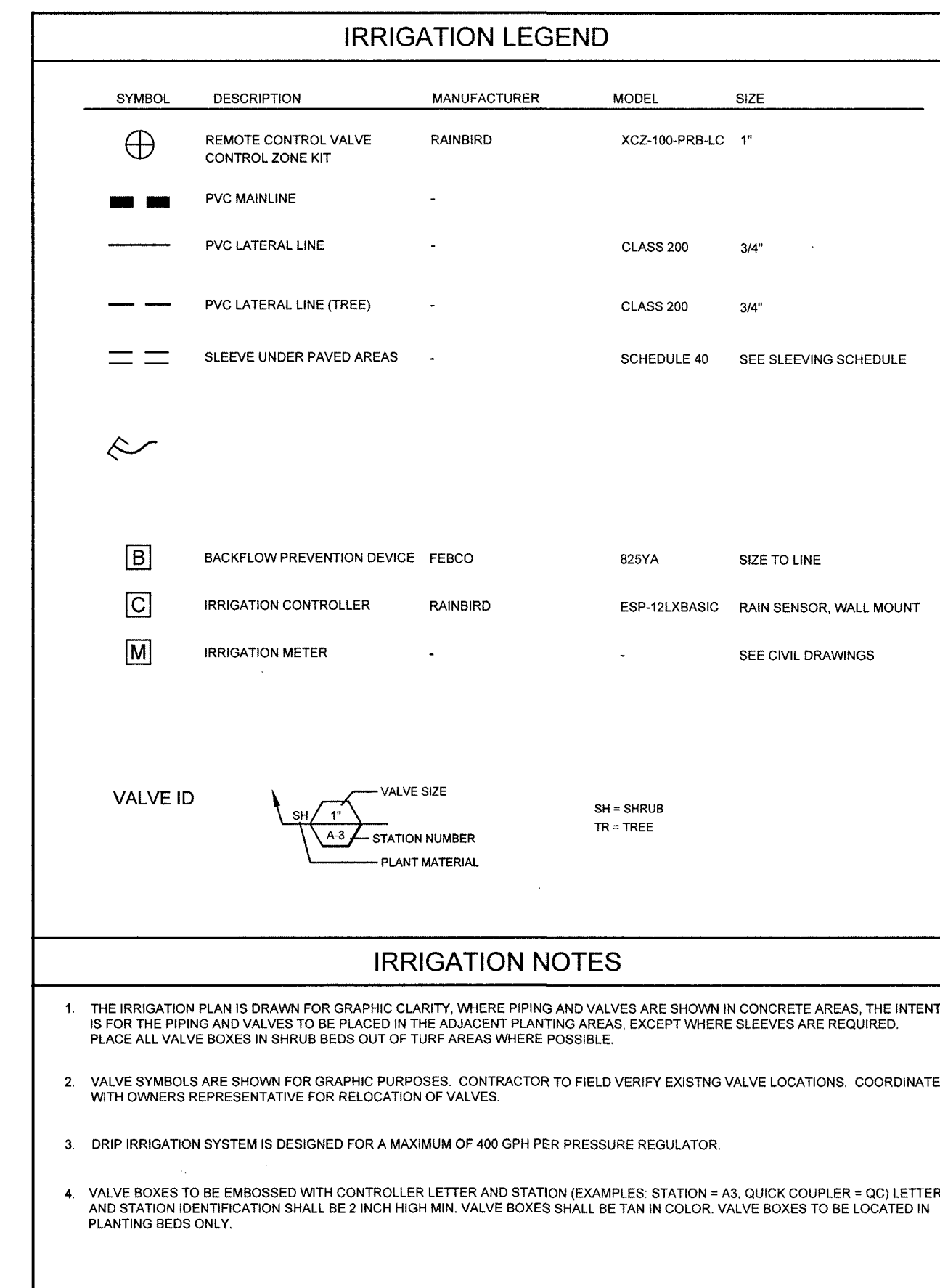


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NV LA #640
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COVER SHEET
DIURANGO BELTWAY PLAZA
8699 W ROME BLVD
LAS VEGAS, NV



These drawings and all information contained herein, are the property of the owner and are to be used for any other use without written permission of the owner.			
DESCRIPTION	PLAN CHECK COMMENTS		
REV.	DATE	HORZ.	1"=20'
1	01-28-19	VERT.	
DATE	11-15-18		
PROJ. NO.	1819		
DRAWING NO.			
L1.01			
SHEET 1 OF 8			



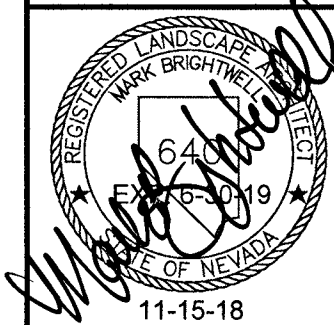
TWO WORKING DAYS BEFORE YOU DIG

0 20'

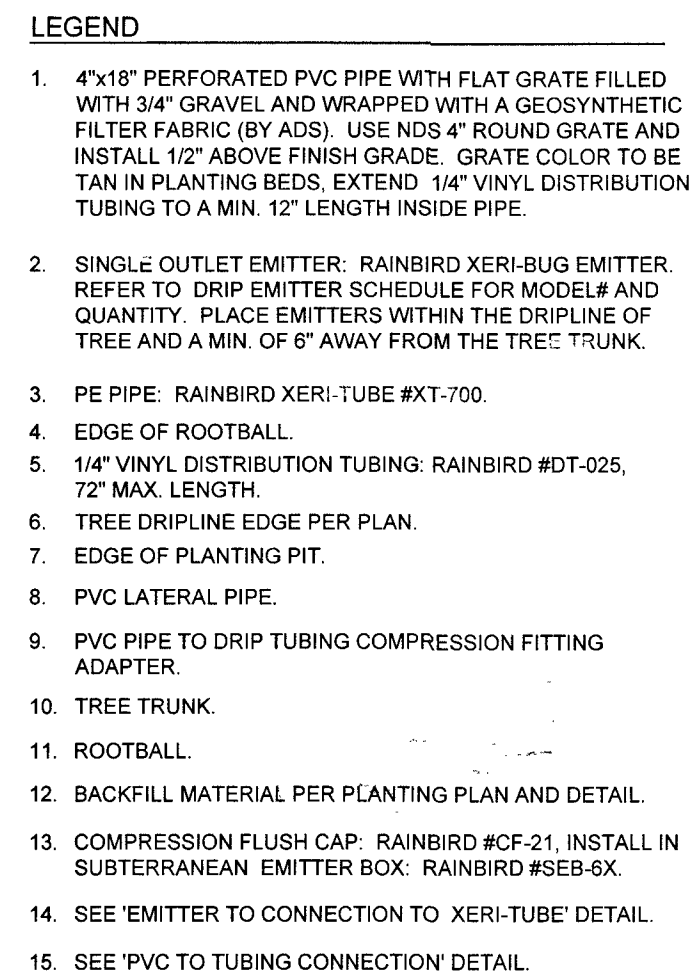
SCALE: 1" = 20'-0"



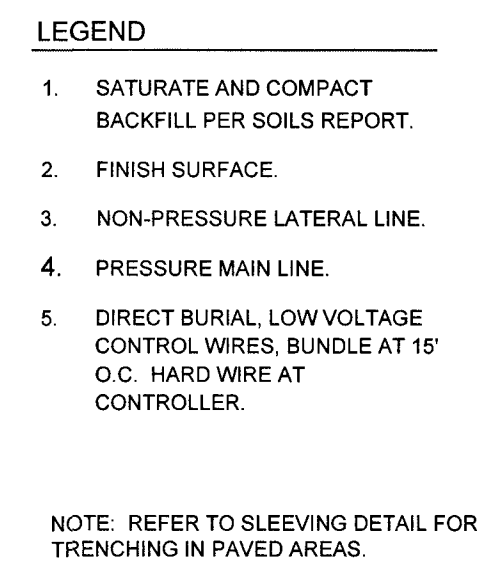
IRRIGATION PLAN
DIURANGO BELTWAY PLAZA
8699 W ROME BLVD
LAS VEGAS, NV

[illegible]

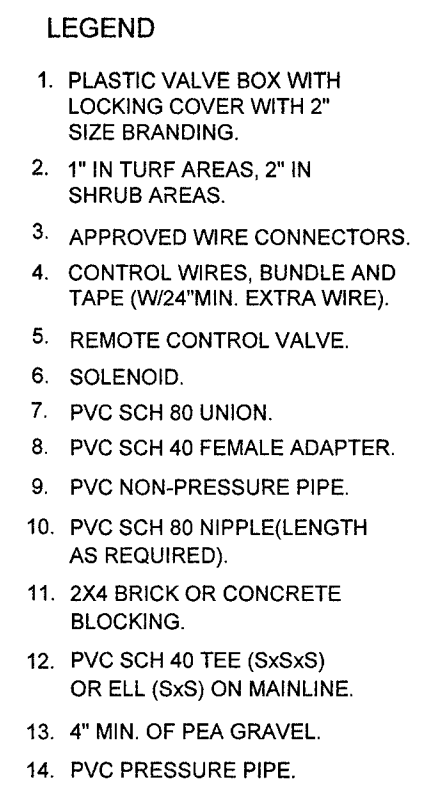
L5.01



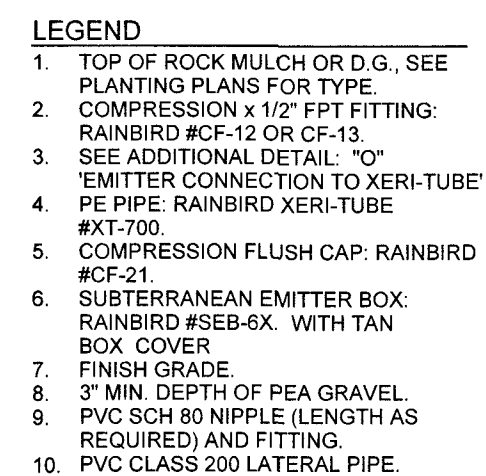
(G) DRIP EMITTER FOR TREE



D TRENCHING



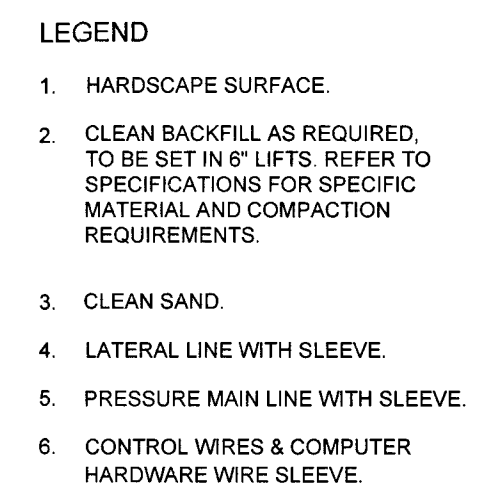
(A) REMOTE CONTROL VALVE



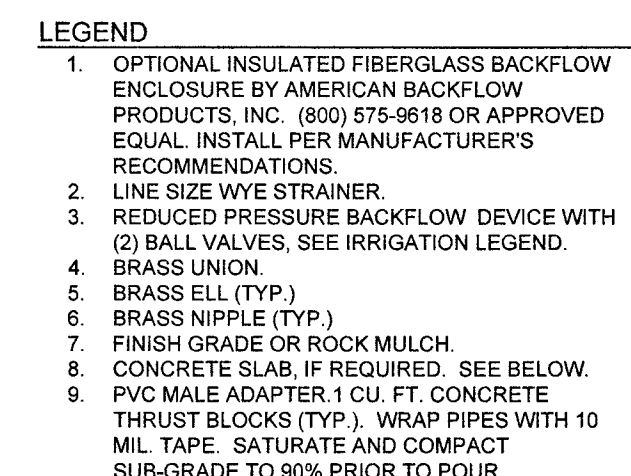
NOTES

- a. USE RAINBIRD XM-TOOL TO INSERT EMITTER DIRECTLY INTO XERI-TUBE.
- b. SEE 'EMITTER CONNECTION TO XERI-TUBE' DETAIL FOR MORE INFORMATION.

(H) PVC TO TUBING CONNECTION



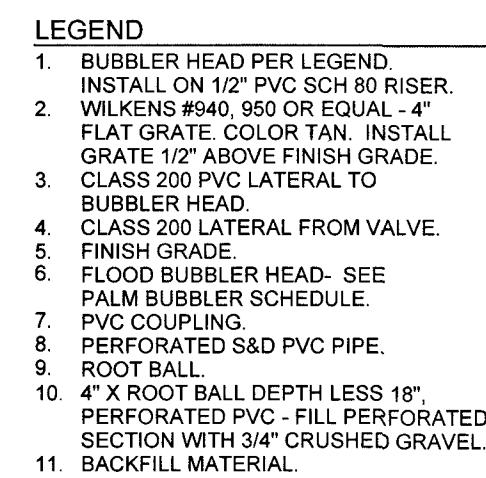
(E) SLEEVING



NOTES

- IF WYE STRAINER OR PRESSURE REGULATOR IS SPECIFIED, INSTALL ON EITHER THE HORIZONTAL PIPING OR ON THE DOWNSTREAM LEG AS SPACE PERMITS.
- CONCRETE SLAB SHALL BE MINIMUM 4" THICK, 18" WIDE AND EXTEND AT LEAST 8" PAST THE BACKFLOW ASSEMBLY PIPING. THE CONCRETE SLAB SHALL BE THE SIZE REQUIRED BY THE MANUFACTURER.

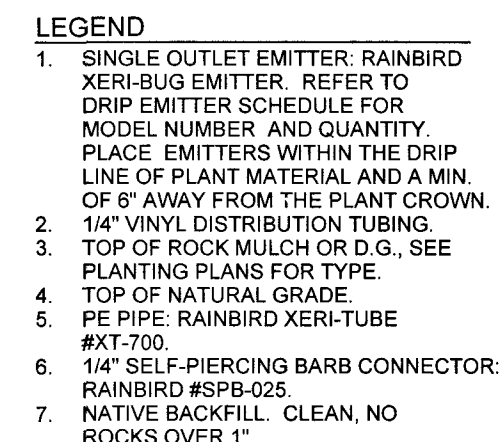
(B) BACKFLOW PREVENTER W/ ENCLOSURE



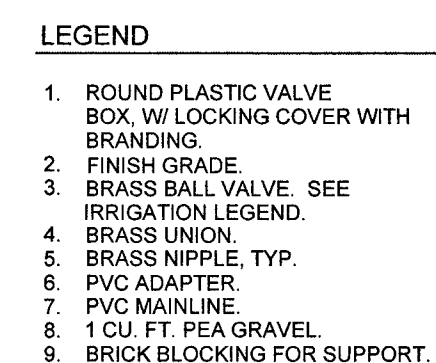
NOTES

- ADD (1) SHALLOW BUBBLER IF DATE PALM IS REQUIRED. REFER TO PALM SCHEDULE.
- ELIMINATE SHALLOW PIPES IF ROOT BALL IS SET WITHIN 6" OF FINISH GRADE AND INSTALL SHALLOW EMITTERS ON GRADE.

J BUBBLERS - PALM AND LARGE TREES



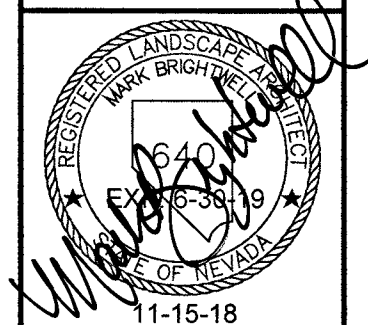
(F) EMITTER CONNECTION TO XERI-TUBE



NOTE

a. COLOR OF VALVE BOX SHALL BE GREEN IN ALL TURF AREAS AND TAN IN ALL AREAS WITH MULCH OR ROCK MULCH.

(C) BALL VALVE



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REV.	DATE	DESCRIPTION
SCALE	HORIZ. VERT.	1"=20'
DATE	11-15-18	
PROJ. NO.	1819	
DRAWING NO.		
L6.01		
SHEET 4 OF 8		

PART 1 - GENERAL

1.01 SCOPE

- ## 1.02 GENERAL CONDITIONS

- ### 1.03 SUBMITTAL

- 1.04 GUARANTEE

- ## PART 2 - PRODUCTS

2.01 GUARANTEE

- ## 2.02 IRRIGATION EQUIPMENT

- ## 2.03 PLASTIC PIPE AND FITTINGS

- ## 2.04 OTHER PIPE AND FITTINGS

- ## 2.05 CONTROL WIRING

- ## 2.06 VALVE BOX

- ### PART 3 - EXECUTION

3.01 GENERAL

- ### 3.02 WATER SUPPLY

- ### 3.03 ELECTRICAL SUPPLY

- ### 3.04 TRENCHING

- D. WATER SUPPLY AND POINT OF CONNECTION - WATER SUPPLY SHALL BE EXTENDED AS SHOWN FROM WATER SUPPLY LINES.

3.05 CONTROL WIRING

- ### 3.06 HYDROSTATIC PRESSURE TEST

- ### 3.07 BACKFILLING

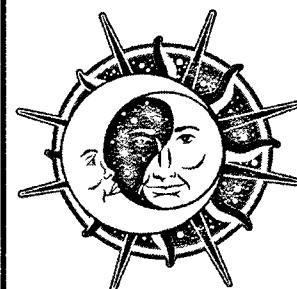
- ### 3.08 LINE CLEARANCE

- ### 3.09 IRRIGATION EQUIPMENT

- ### 3.11 ADJUSTING THE SYSTEM - NOT A PART

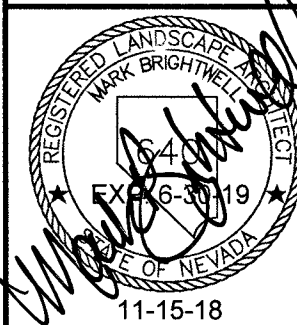
- ### 3.12 OBSERVATION SCHEDULE

- DESIGNED BY _____
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IRRIGATION NOTES
DIURANGO BELTWAY PLAZA
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[illegible]

L6.02

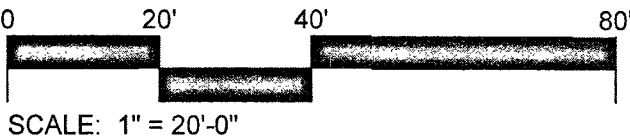


PLANTING LEGEND				
BOTANICAL NAME	COMMON NAME	COMMENT	SIZE	QTY
TREES				
PINUS HALEPENSIS	ALEPPO PINE	STD. TRUNK	24" BOX	9
PROSOPIS 'COLORADO'	THORNLESS MESQUITE	MULTI TRUNK	24" BOX	90
WASHINGTONIA ROBUSTA	MEXICAN FAN PALM		12" BTH	6
SHRUBS				
HESPERALOE PARVIFLORA	RED YUCCA		5-GAL	759
ROCK MULCH AND MISCELLANEOUS				
	3/4" VISTA GOLD DECOMPOSED GRANITE ROCK MULCH			
	1/4 TON BOULDER			

Underground Service Alert

Call: TOLL FREE
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PLANTING PLAN
DIURANGO BELTWAY PLAZA
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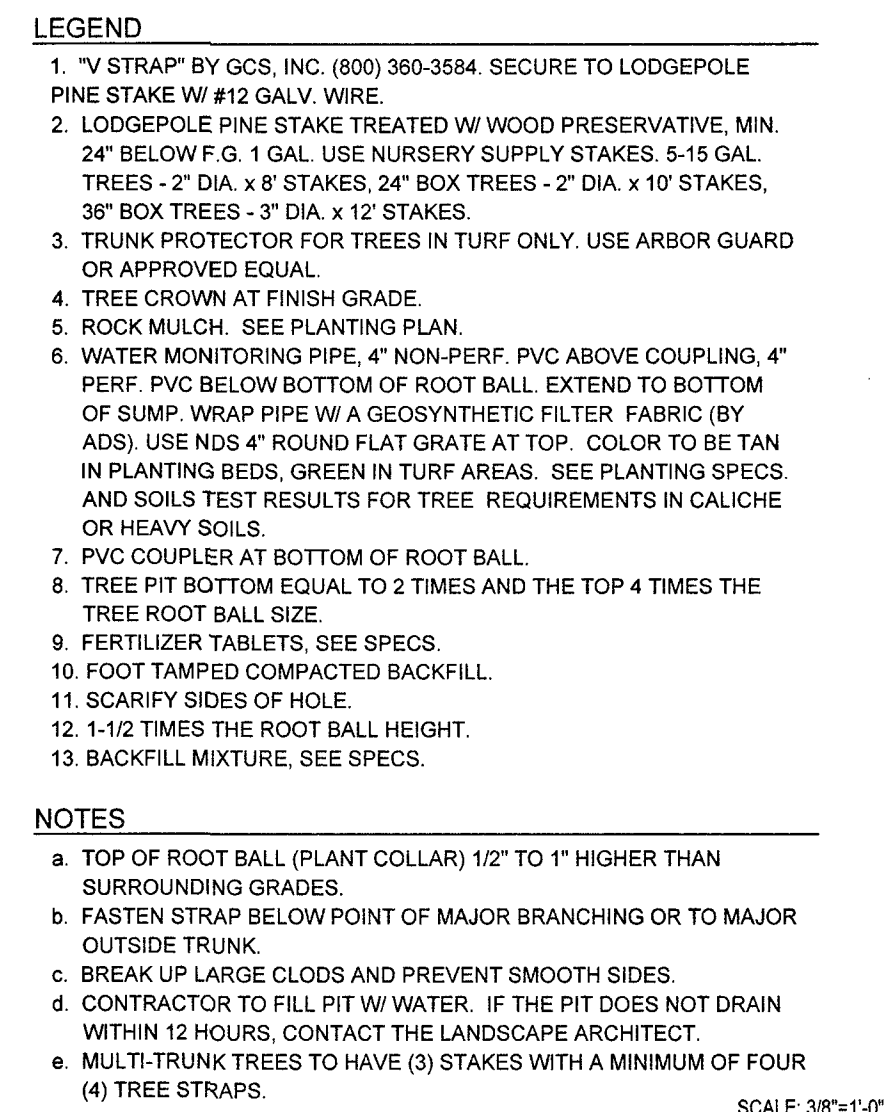


REV.	DATE	DESCRIPTION
1	01-28-19	PLAN CHECK COMMENTS
SCALE		
HORIZ.		1"=20'
VERT.		1"=10'
DATE		
11-15-18		
PROJ. NO.		
1819		
DRAWING NO.		

L7.01

DESIGNED BY
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NV LA #640
www.Moon-SunLandscapes.com



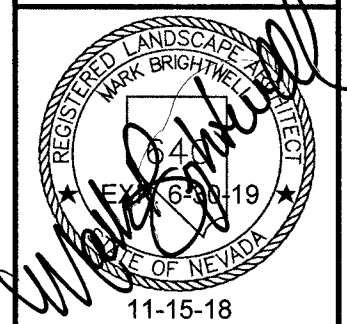
SCALE: 3/8"=1'-0"

SCALE: 1"=1'-0"

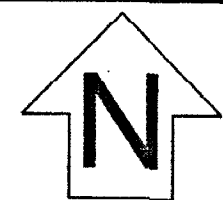
The diagram illustrates a staggered grid pattern. It consists of three horizontal lines and four diagonal lines forming a mesh of diamond-shaped cells. The horizontal spacing between the vertical centerlines of the diamond cells is labeled '3' with a dimension line. The vertical spacing between the horizontal lines is labeled '1' with a dimension line. The diagonal lines are labeled '2' with a dimension line. The horizontal lines are labeled 'EQUAL O.C.' (Equal On-Center) with a dimension line. The diagonal lines are also labeled 'EQUAL O.C.' with a dimension line.

SCALE: 1/2"=1'-0"

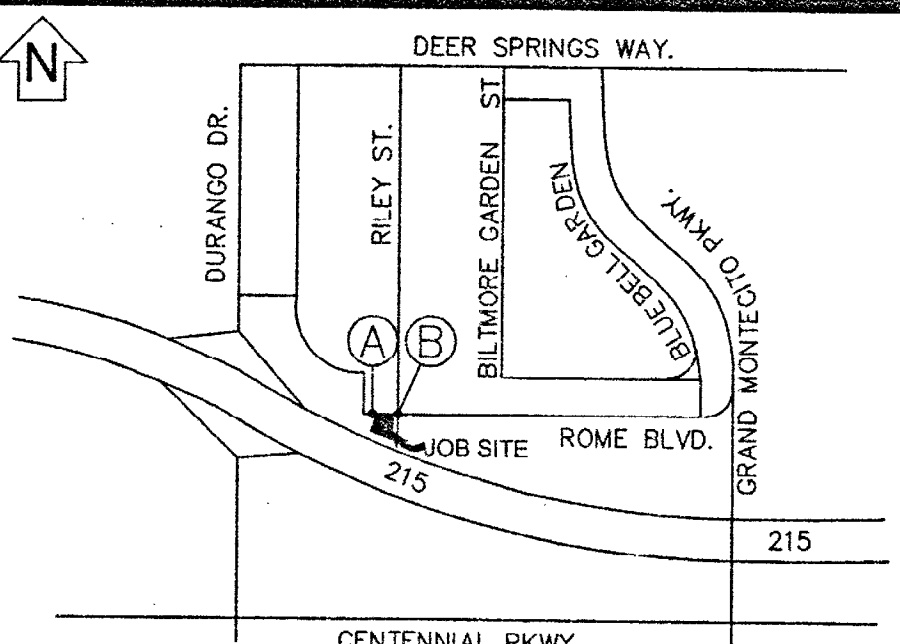
107V7670 418-02031

[illegible]

L8.01



T.R.S: 19-60-20
APN: 12520802005



VICINITY MAP

(NOT TO SCALE)

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DIG

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
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY

STANDARD

PROJECT PURPOSE:

TO SERVE:
(1) 1200AMP 277/480V, 3Ø PANEL
(1) 1200AMP 120/208V, 3Ø MULTI-METER PANEL
(1) 1200AMP 120/208V, 3Ø PANEL
NEW SHOPPING CENTER

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: KING, JANE
PHONE: (702) 275-6263 D.F. LOWELL, KEN
DESIGNER: MONROE, STEVEN
DCA: N/A
INSPECTOR: 702-402-3008 OR UG@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: DURANGO BELTWAY PLAZA LLC
ENGINEER: HPA ENG.
CONTACT: MOMENI, MOE ** 702-248-8004
APPROVAL DATE: 5/16/2019
GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE:
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.



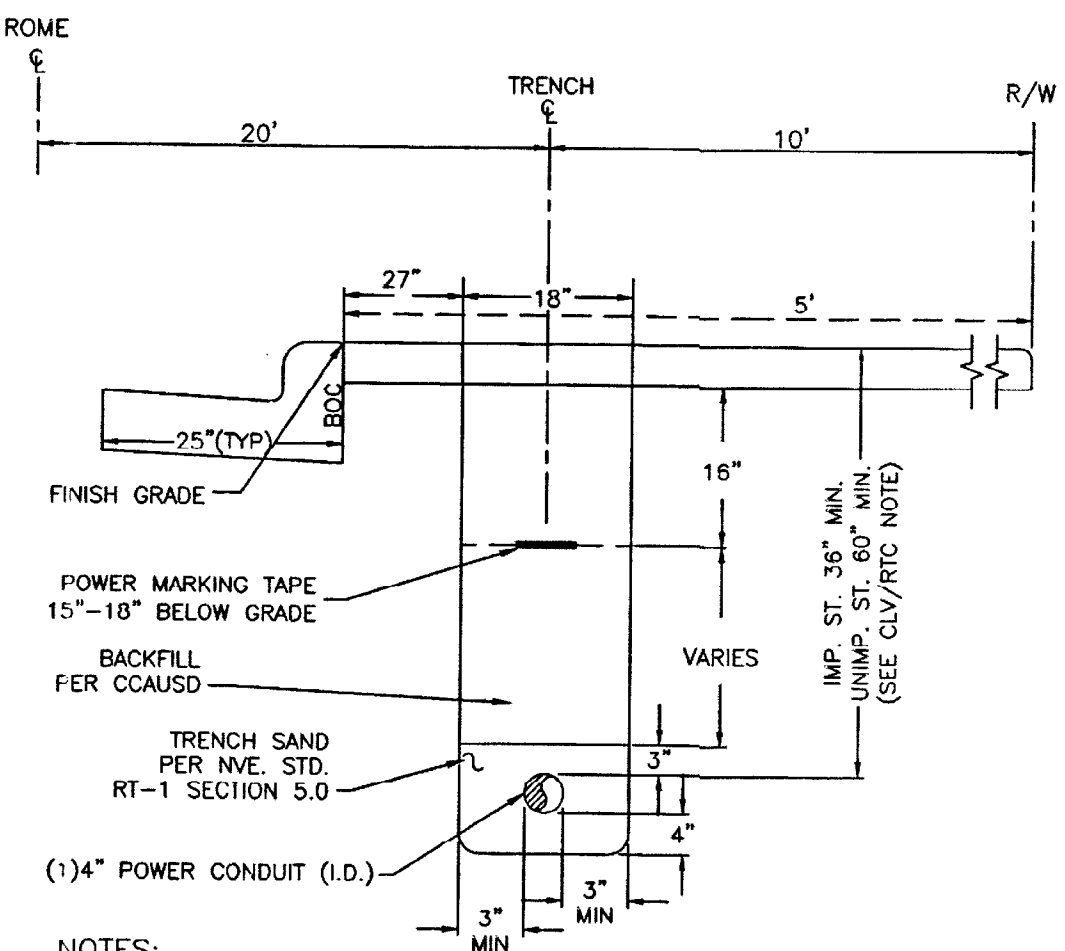
DURANGO BELTWAY PLAZA

Sheet 16 ROME BLVD / RILEY ST

PROJ #3003249776 SCALE: 1"=30'

SHEET # 3 OF 3 DATE: 3/29/2019

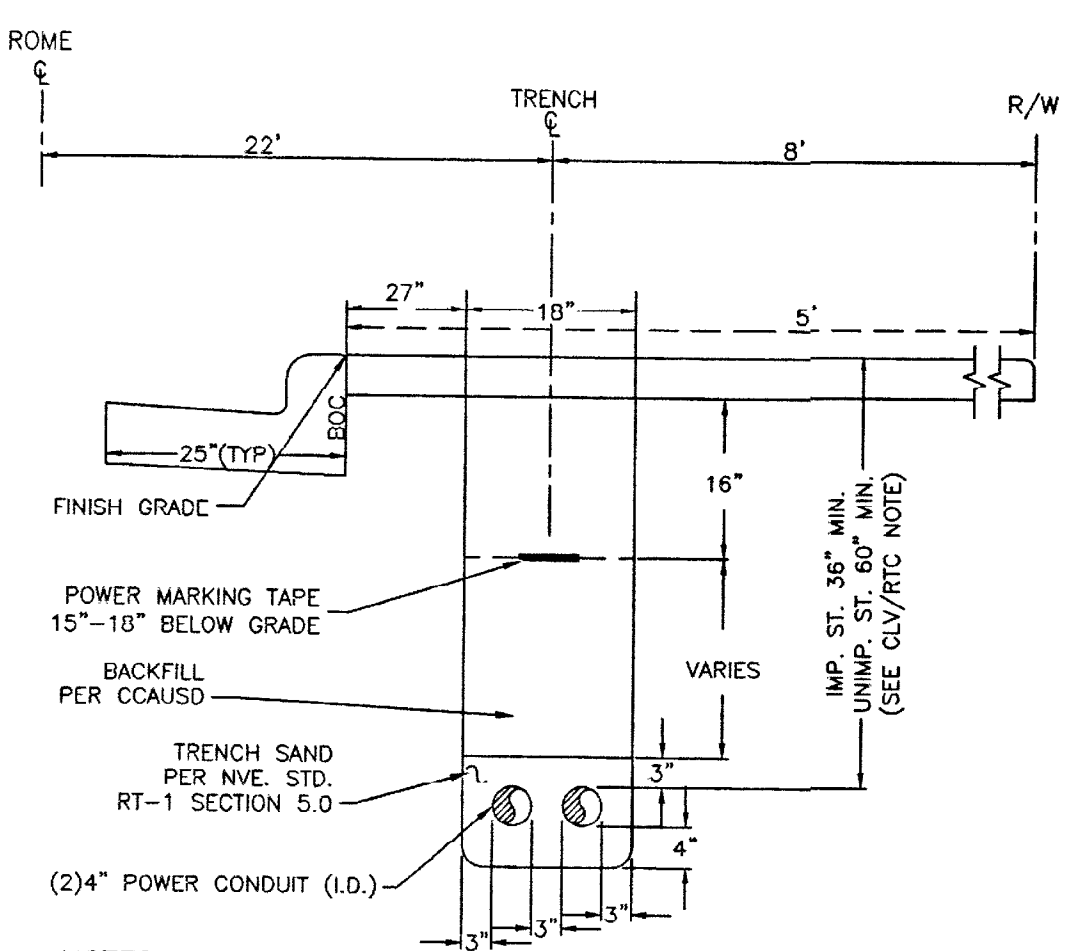
0 REVISION(S)



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

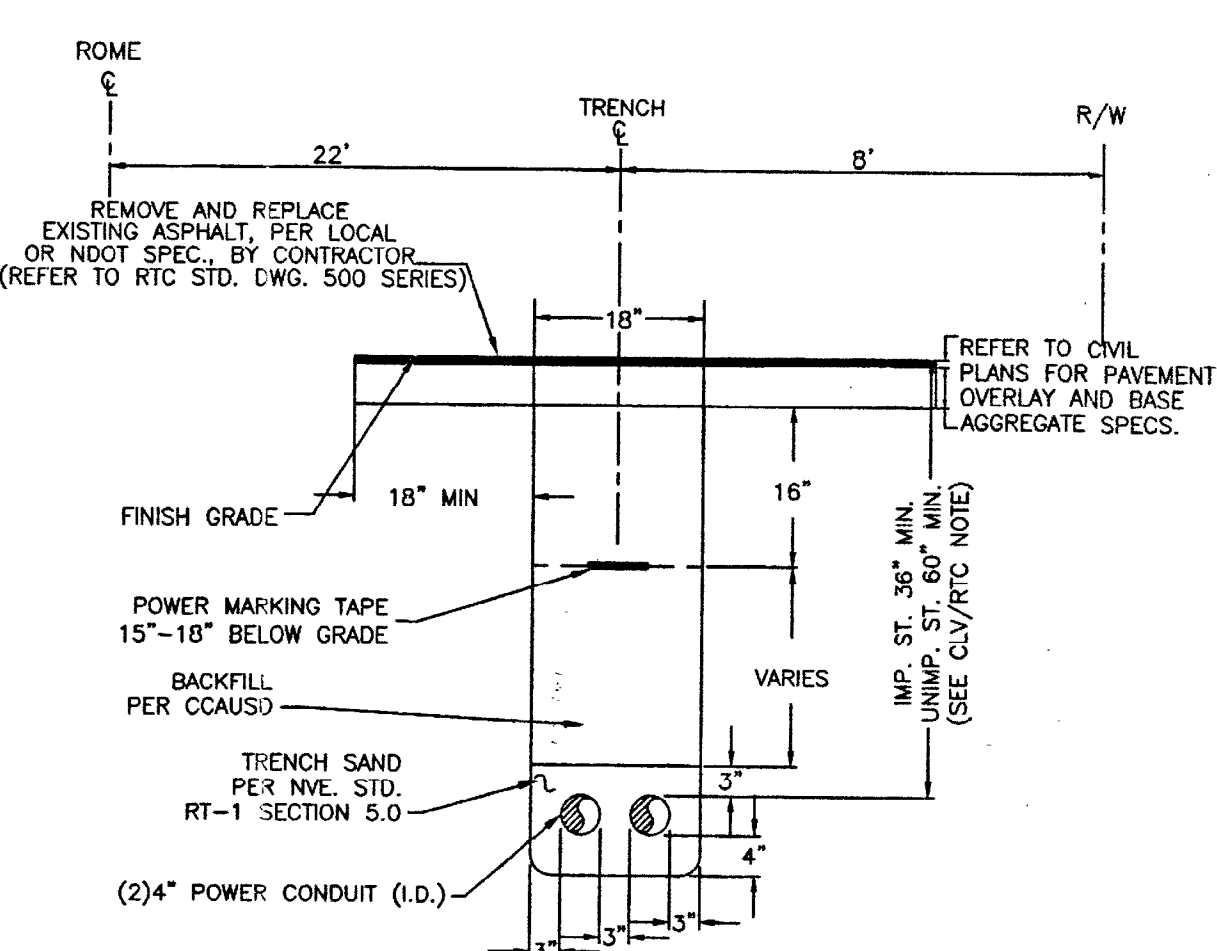
TRENCH DETAIL SECTION "AA" 1-4" CONDUITS



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "BB" 2-4" CONDUITS



NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "CC" 2-4" CONDUITS

CENTERLINE STATION TABLE									
#	STREET INTERSECTION				STA	HEADED			
(A)	ROME				37+00	EAST			
(B)	RILEY				47+98.44	EAST			
	ROME				43+21.32	NORTH			

STATION TABLE									
MAXIMO STATION	CORNER	CENTER LINE STATION	SIDE	OFFSET CL TO BOC	OFFSET CL TO ROW	OFFSET CL TO SUBSTRUCTURE	SUBSTRUCTURE INFORMATION		
(0002)	EAST	40+55.52	RT	19.5'	30'	20.45'	RS-82 - 7.67' X 3.57' W/ 67" COLLAR		
	WEST	40+88.25	RT	19.5'	30'	20.45'	OPERATING NUMBER: UGMR/504		
(0005)	EAST	39+25.84	RT	19.5'	30'	25.45'	RS-35 - 8.25' X 8.25'		
	WEST	39+17.58	RT	19.5'	30'	25.45'	OPERATING NUMBER: PM025534		
(0009)	EAST	41+52.05	RT	19.5'	30'	28.3'	RS-35 - 8.25' X 8.25'		
	WEST	41+53.80	RT	19.5'	30'	28.3'	OPERATING NUMBER: PM223210		

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)
107V7670
HANSEN L18-02031
DATE: 8/7/19

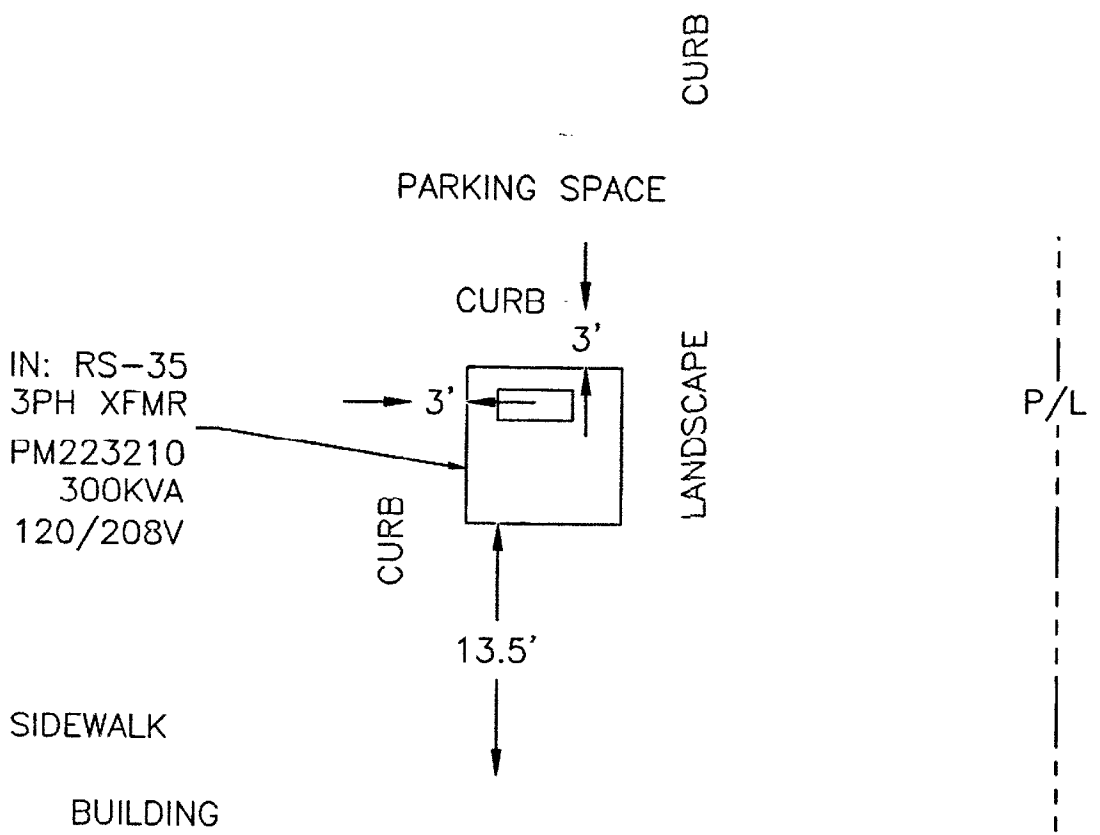
*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864

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

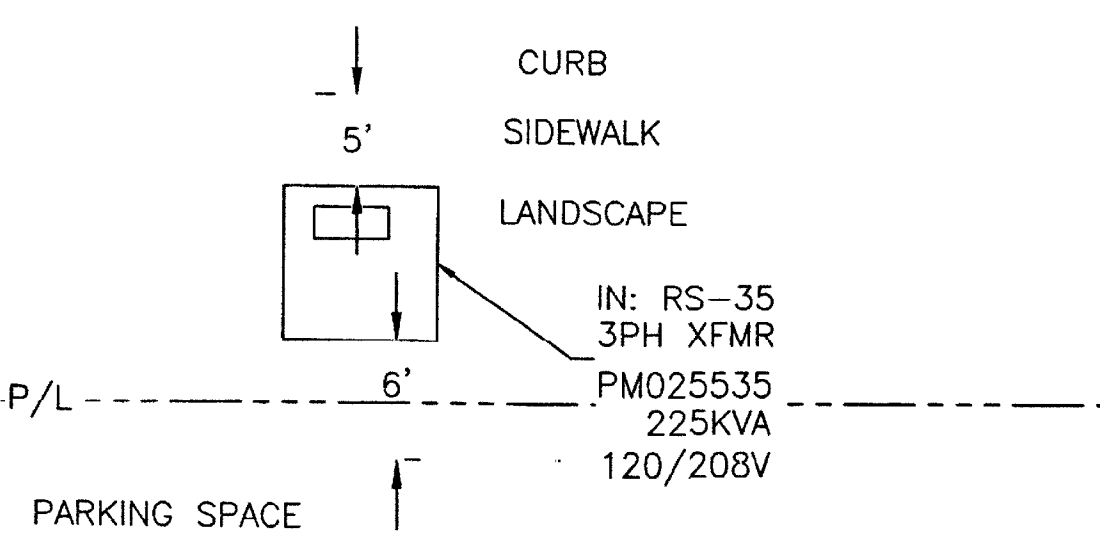
APPROVED FOR CONSTRUCTION

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.

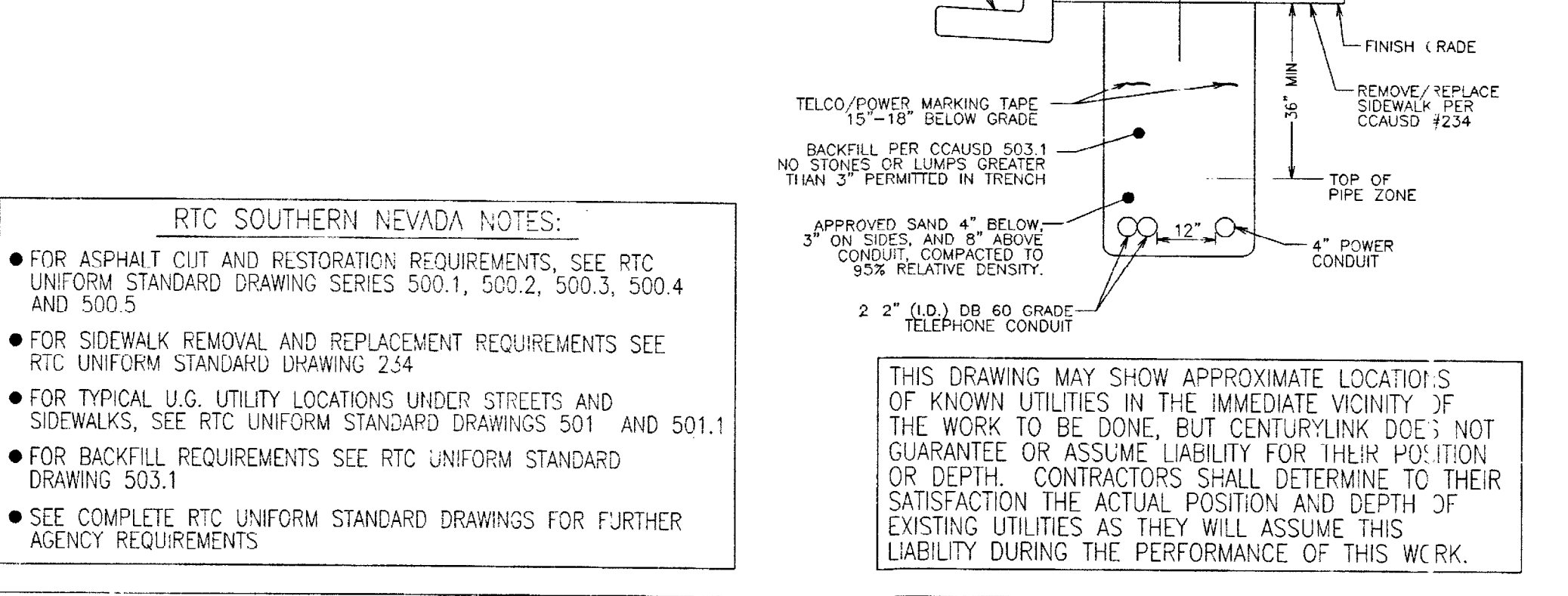
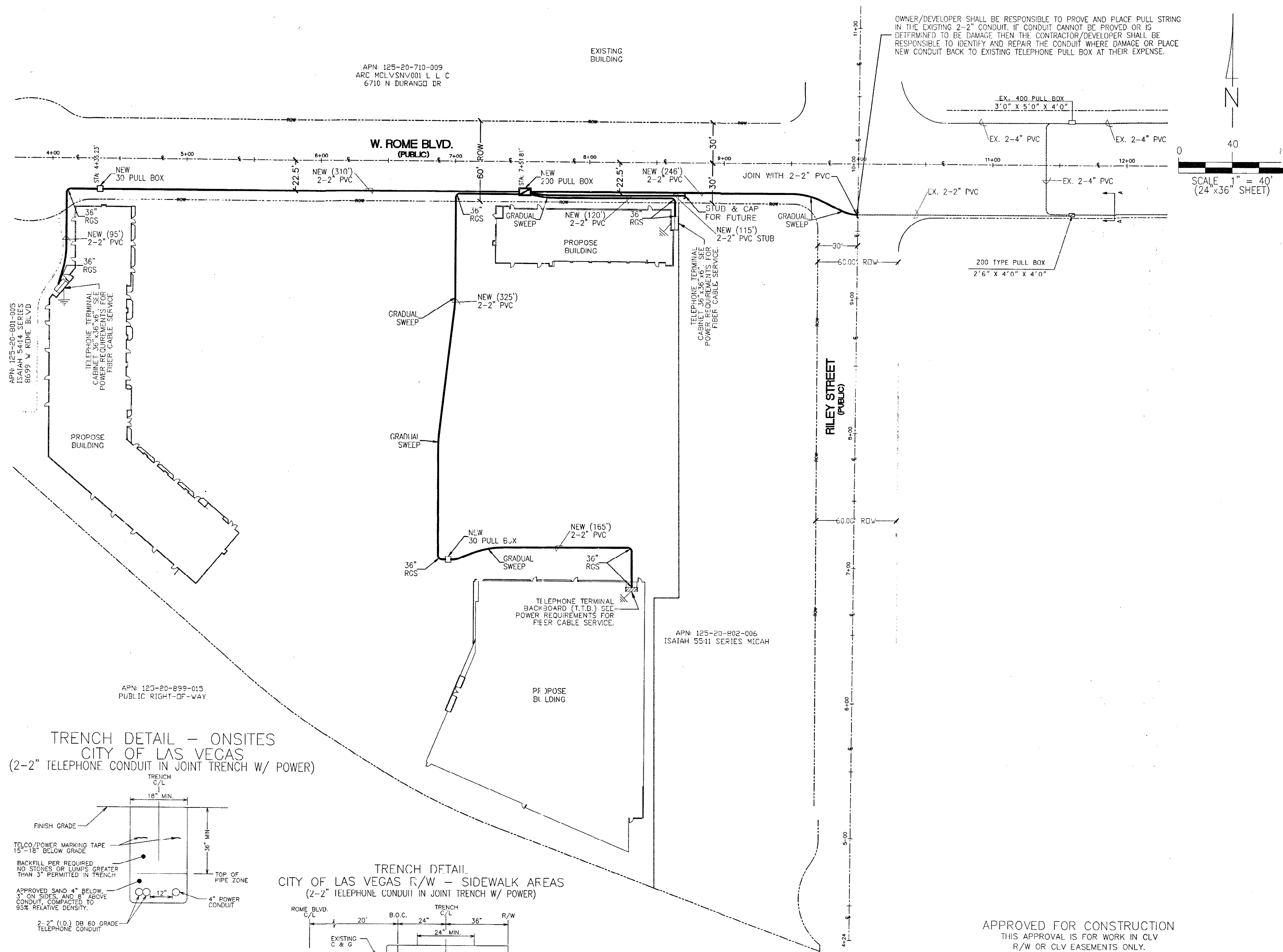
APPROVAL BY: *[Signature]* DATE: 8/7/19



TRANSFORMER LOCATION DETAIL "DD" SCALE: 1"=10'

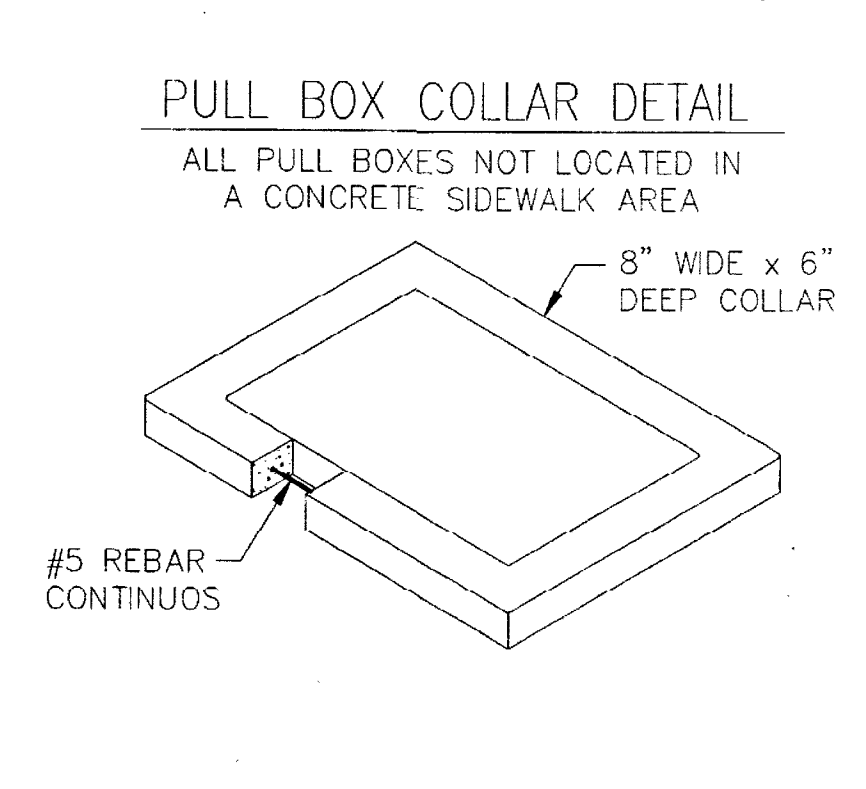


TRANSFORMER LOCATION DETAIL "CC" SCALE: 1"=10'



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 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 THE LOCATION OR DEPTH. CONTRACTORS SHALL DETERMINE THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

OWNER/DEVELOPER SHALL BE RESPONSIBLE TO PROVE AND PLACE PULL STRING IN THE EXISTING 2-2\"/>

LEGEND

PROPOSED CONDUIT: P.V.C. - D.B. (DIRECT BURIAL) GRADE: D.B. 60 FOR 1\", 2\", & 3\"/>

EXISTING CONDUIT: D.B. 100 FOR 4\", 6\", & 8\"/>

RADIAL BENDS: SCHEDULE 40 PVC (TYPICAL) OR RIGID GALVANIZED STEEL (RGS) WITH DOUBLE WRAPPED 10 MIL CORROSION PROTECTION TAPE (AS SHOWN) 24\"/>

EXISTING / PROPOSED

- MANHOLE - INCLUDE REQUIRED GRADE RINGS, RACKING, GROUNDING, STEP RUNGS AND LADDER - REFER TO DRAWING FOR SIZE/TYPE.
- 400 PULL BOX (3'0\"/>
- 200 PULL BOX (2'6\"/>
- 100 PULL BOX (2'0\"/>
- 30 PULL BOX (1'7\"/>
- 16 HAND HOLE (9\"/>
- TERMINAL CABINET 48\"/>
- TERMINAL CABINET 36\"/>
- TELEPHONE TERMINAL BACKBOARD (T.T.B.) - SEE PLAN FOR SIZE REQUIREMENTS: 3/4\"/>

VICINITY MAP
T-R-S: 19S-60E-20

NOT USED

RISER DETAIL
(TYPICAL)

- CONSTRUCTION NOTES**
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE CENTURYLINK UNDERGROUND SPECIFICATIONS.
 - ALL CONDUIT, TRENCHING AND SUBSTRUCTURES ARE TO BE PROVIDED BY THE DEVELOPER AND CONFORM WITH CENTURYLINK STANDARDS. ALL BACKFILLING AND RESTORATION WORK SHALL CONFORM TO THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) UNIFORM STANDARD DRAWINGS.
 - WHEN EXISTING TELEPHONE FACILITIES (i.e. POLES, MANHOLES, PULL BOXES, CONDUIT, TERMINALS, etc.) ARE AFFECTED BY IMPROVEMENTS AS REQUIRED BY LOCAL ORDINANCE (i.e. STREETS, SIDEWALKS, GUTTERS, SEWERS, STORM DRAINS etc.), THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF THESE FACILITIES AS REQUIRED.
 - TELEPHONE BOXES ARE TO BE PLACED BEHIND THE CURB LINE AND/OR IN THE SIDEWALK AREA WHENEVER POSSIBLE AND SITUATED TO AVOID DRIVEWAYS AND HANDICAP RAMPS. ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 30\"/>
 - ALL PULL BOXES (2'-0\"/>
 - ALL TELEPHONE BOXES NOT IN SIDEWALK AREAS WILL BE REQUIRED TO HAVE A PROTECTIVE CONCRETE COLLAR, RE-ENFORCED WITH REBAR, POURED AROUND THE TOP PORTION OF THE BOX PER CENTURYLINK SPECIFICATIONS.
 - USE EXISTING PRECAST TERMINATORS TO JOIN SUBSTRUCTURES WHENEVER POSSIBLE. IF EXISTING TERMINATORS ARE NOT AVAILABLE THEN THE CONTRACTOR SHALL CORE DRILL, PLACE END BELL AND PROPERLY GROUT THE CONDUIT INTO THE PRE-DETERMINED LOCATION. CONTACT THE CENTURYLINK INSPECTOR AT 244-7811, 24 HOURS IN ADVANCE TO DETERMINE THE EXACT ENTRANCE LOCATION. ENTERING THE SIDE OF A CENTURYLINK MANHOLE OR PULL BOX IS NOT PERMITTED UNLESS APPROVED BY CENTURYLINK.
 - WHEN A PULL BOX OR MANHOLE IS SITUATED WITHIN 50\"/>
 - 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 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-ENFORCABLE SERVICE (i.e. POLE, MANHOLE OR PULL BOX) AT THE DEVELOPER'S EXPENSE.
 - THE CONTRACTOR SHALL PROVE AND MANHOLE ALL CONDUIT AFTER BACKFILLING WHILE A CENTURYLINK INSPECTOR IS PRESENT. MANHOLE SIZE IS TO BE 1/4\"/>
 - 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 CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE DUCT SYSTEM WILL HAVE A 3/32\"/>
 - A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL CONDUIT WHERE TERMINATED OR STUBBED.
 - CONCRETE ENCASEMENTS SHALL CONSIST OF 3/4\"/>
 - PROTECTIVE POSTS SHALL BE 4\"/>
 - PLYWOOD BACKBOARDS ARE TO BE TREATED WITH FIRE RETARDANT MATERIAL, PAINT, OR SEALER.
 - ALL TERMINALS, BACKBOARDS, CABINETS, ETC., SHALL BE EQUIPPED WITH A #6 GAUGE GROUND WIRE, RUN TO AN APPROVED GROUND SOURCE.
 - IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THIS CONDUIT RECOMMENDATION NOT BE CHANGED WITHOUT CENTURYLINK OUTSIDE PLANT ENGINEERING APPROVAL.
 - CENTURYLINK WILL REQUIRE \"AS-BUILT\" FOOTAGES PRIOR TO ORDERING CABLE TO SERVE THIS DEVELOPMENT. THESE FOOTAGES MUST BE RECEIVED SIX WEEKS PRIOR TO SERVICE INSTALLATION DUE DATES.
 - CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY.

CONTRACTOR / DEVELOPER NOTE

- THE DEVELOPER/CONTRACTOR SHALL CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY.
- ANY MODIFICATIONS TO THE CENTURYLINK DESIGN MUST BE APPROVED BY THE ENGINEER.
- THESE PLANS WILL BE VALID FOR SIX MONTHS FROM DATE OF ISSUE.

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: _____		PROJECT REQUIREMENTS: NOT PERMIT: ☐ BOR GRANT: ☐ U.S.F.S.: ☐ U.P.R.R. PERMIT: ☐ SHAW PERMIT: ☐ 3rd PARTY EXAM: ☐ OTHER: ☐ NOT REQUIRED: ☐ REMARKS: _____	OWNER/CONTACT: MOE MOMONI P.E. TELEPHONE: 702 248-8004 TOWNSHIP: 19S RANGE: 60E SECTION: 20 CONTRACT ENGINEER: NAME: E. CORREA COMPANY: OUTSOURCE, INC.
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CENTURYLINK PROPRIETARY

CONSTRUCTION PERMIT REQUIRED BY CONTRACTOR

L18-02031 107V7670

NO.	REVISION	ENGR.	MGR.	DATE
1				
2				
3				

Know what's below. Call before you dig.

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.

[Signature] 8/7/19
 APPROVAL 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.

SERVICE CANNOT BE PROVIDED WITHOUT APPROVED OPEN TRENCH AND FINAL INSPECTION BY A CENTURYLINK INSPECTOR.