CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPACTION
A. PAVEMENT AREA SUBGRADE	0.1'±	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5'±	+0.1' TO -0.1'	SEE SOILS REPORT

   COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT- OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 4/15/10

STORMWATER RUNOFF MANAGEMENT

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES 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 NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS OR EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
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. 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.

REVISED 04/15/10

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LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 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 CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC SECTION 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC SECTION 3310, SECTION 3312]
5. TO IDENTIFY FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS [IFC SECTION 507.5.7.3].
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC SECTION 108.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC SECTION 507.2.1]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC SECTION 507]
9. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. [IFC SECTION 507]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC SECTION 507]
11. FIRE HYDRANTS SPACING SHALL BE AS FOLLOWS: [IFC SECTION C102]
    RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE NEW 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 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS. [IFC SECTION C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC SECTION 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. [IFC SECTION C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE. [IFC SECTION C102.7]
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC SECTION C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. 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. [IFC SECTION 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. [IFC SECTION 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 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC SECTION 503.2.7, SECTION 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS. [IFC 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FEET 6 INCHES. [IFC SECTION 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40FT 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 LANES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [IFC SECTION 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL FO 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 IIS SPRINKLERED. [IFC SECTION 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-EANDS 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. [IFC SECTION 503.1.2]
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. [IFC SECTION 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 IN STALLED 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. [IFC SECTION 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 IFC SECTION 503.6 AND IFC APPENDIX M.

LAS VEGAS FIRE DEPARTMENT — DATE 2/14/19

REVISED MARCH 1, 2016

FLOOD ZONE NOTE

NO PORTION OF THE SITE FALLS WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA. SITE LOCATED ON PANEL 32003C2145F, DATED NOVEMBER 16, 2011. THIS PANEL SHOWS THAT THE PROJECT IS LOCATED WITHIN A ZONE X AND NOT LOCATED WITHIN A FEMA DESIGNATED 100-YEAR ZONE A OR SPECIAL FLOOD HAZARD AREA.

DEVIATION FROM STANDARDS

1. NONE

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 ADVANCED 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 "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANIT-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
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 ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR 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 PROPERTY OWNERS AND TO TO THE TRAVELING PUBLIC.
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 OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. 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 FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED 4/15/10

CITY OF LAS VEGAS STREETLIGHT NOTES

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

REVISED 04/15/10

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 135281

(Revised 01/09/2017)

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 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 GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, 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 FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVWD P

ABBREVIATIONS

A	AIR	DR	DRIVE	P.A.E.	PEDESTRIAN ACCESS EASEMENT	STRUCT	STRUCTURE
AB	AGGREGATE BASE	DS	DOWNSPOUT	PB	PULL BOX	SVZ	SIGHT VISIBILITY ZONE
AC	ASPHALT CONCRETE, ACRE	DTL	DETAIL	PC	POINT OF CURVE, PRESSURE CLASS	SW	SIDEWALK
ACP	ASBESTOS CEMENT PIPE	DW	DRIVEWAY			SWG	SOUTHWEST GAS
ADD'L	ADDITIONAL	DWG	DRAWING	PCC	POINT OF COMPOUND CURVE	T	TELEPHONE OR TOP
A.E.	ACCESS EASEMENT	E	EAST	P.D.E.	PUBLIC DRAINAGE EASEMENT	TAN	TANGENT
AP	ANGLE POINT	E.A.E.	EMERGENCY ACCESS EASEMENT	PE	PROJECT ENGINEER OR POLYETHYLENE	TB	TOP OF BERM
APN	ASSESSOR'S PARCEL NUMBER	ECR	END CURB RETURN			TC	TOP OF CURB
APPROX	APPROXIMATELY	ELE,ELEC	ELECTRICAL	PED	PEDESTRIAN	TCE	TEMPORARY CONSTRUCTION ESMT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	ELEV	ELEVATION	PGL	PROFILE GRADE LINE	TEL,TELE	TELEPHONE
		EP, EOP	EDGE OF PAVEMENT	PH	POTHOLE	TEMP	TEMPORARY
		ESMT	EASEMENT	PI	POINT OF INTERSECTION	TF	TOP OF FOOTING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EVC	END VERTICAL CURVE	PIV	POST INDICATOR VALVE	TG	TOP OF GRATE
		EXIST,EX	EXISTING	P/L	PROPERTY LINE	TMH	TOP OF MANHOLE
AVE	AVENUE	EXP	EXPANSION JOINT	PLCP	POLYURETHANE LINED AND COATED STEEL PIPE	TOP	TOP OF PIPE
AVAR	AIR VALVE, AIR RELEASE ASSEMBLY	FC	FACE OF CURB			TP	TELEPHONE POLE
		FF, FFE	FINISH FLOOR ELEVATION	PMF	PAVEMENT MARKING FILM	TRANS	TRANSITION
AWWA	AMERICAN WATER WORKS ASSOCIATION	FG	FINISH GRADE	POB	POINT OF BEGINNING	TS	TRAFFIC SIGNAL
		FH	FIRE HYDRANT	POC	POINT ON CURVE	TW	TOP OF RETAINING WALL
BC	BACK OF CURB	FL	FLOW LINE	P.O.C.	POINT OF CONNECTION	TYP,(TYP)	TYPICAL
BCR	BEGIN CURB RETURN	FO	FIBER OPTIC	POT	POINT ON TANGENT	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST EDITION)
BLM	BUREAU OF LAND MANAGEMENT	FRP	FIBERGLASS REINFORCED PLASTIC	PP	POWER POLE		
BLVD	BOULEVARD	FS	FINISH SURFACE	PROP	PROPOSED		
BM	BENCHMARK	FT	FOOT/FEET	PRC	POINT OF REVERSE CURVE		
BO	BLOW-OFF	FTG	FOOTING	P.S.E.	PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED BY HOA	UG	UNDERGROUND
BVCE	BEGIN VERTICAL CURVE ELEVATION	FUT	FUTURE			ULT	ULTIMATE
BVCS	BEGIN VERTICAL CURVE STATION	G	GAS	PSI	POUNDS PER SQUARE INCH	USDCCA	UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
BW	BACK OF SIDEWALK	GA	GAGE, GUY ANCHOR	PT	POINT OF TANGENCY		
BWV	BACK WATER VALVE	GB	GRADE BREAK	P.U.E.	PUBLIC UTILITY EASEMENT		
C, ℄	CENTERLINE	GND	GROUND	PVC	POLYVINYL CHLORIDE		
C&G	CURB AND GUTTER	GRD	GRADE, GROUND	PVI	POINT OF VERTICAL INTERSECTION		
CATV	UNDERGROUND CABLE TV	H, HGT	HEIGHT	PVMT	PAVEMENT		
CCBM	CLARK COUNTY BENCH MARK	HDWL	HEADWALL	PVT	PRIVATE	UT	UNDERGROUND TELEPHONE
CCPW	CLARK COUNTY PUBLIC WORKS	HGL	HYDRAULIC GRADE LINE	PZ	PRESSURE ZONE	VAR	VARIABLE/VARIES
CCTV	CLOSED-CIRCUIT TELEVISION	HOA	HOME OWNERS ASSOCIATION	R, RAD	RADIAL, RADIUS	VC	VERTICAL CURVE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	HORIZ	HORIZONTAL	R, RT	RIGHT	VCP	VITRIFIED CLAY PIPE
		HP	HIGH POINT, HIGH PRESSURE	RCB	REINFORCED CONCRETE BOX	VERT	VERTICAL
C.E.	COMMON ELEMENT	HPS	HIGH PRESSURE SODIUM	RCP	REINFORCED CONCRETE PIPE	VG	VALLEY GUTTER
CFS	CUBIC FEET PER SECOND	IBC	INTERNATIONAL BUILDING CODE	RD	ROAD	VOL	VOLUME
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE	INV	INVERT	RDWY	ROADWAY	W	WATER, WEST, WATT
		INT	INTERIM	REC	RECTANGULAR	W/	WITH
CIPM	CURED-IN-PLACE MANHOLE	JT	JOINT	REF	REFERENCE	W.I.	WROUGHT IRON
CIPP	CURED-IN-PLACE PIPE	L	LENGTH	REINF	REINFORCED	WS	WATER SUPPLY
CIR	CIRCLE	L, LT	LEFT	REQD	REQUIRED	WT	WEIGHT
CLR	CLEAR OR CLEARANCE	LF	LINEAR FEET	RIM	TOP OF RIM ELEVATION	WTR	WATER
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LIP	LIP OF GUTTER	RND	ROUND	XING	CROSSING
		LN	LANE	ROW,R/W	RIGHT OF WAY	YD	YARD, YARD DRAIN
CLV	CITY OF LAS VEGAS	LP	LIGHT POLE	RP	RADIUS POINT	Z	PRESSURE ZONE
CMP	CORRUGATED METAL PIPE	LSCP	LANDSCAPE	RPM	RAISED PAVEMENT MARKERS		
CMU	CONCRETE MASONRY UNIT	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY		
CNLV	CITY OF NORTH LAS VEGAS	MAX	MAXIMUM				
CO	CLEANOUT	MH	MANHOLE	RSGV	RESILIENT SEAT GATE VALVE		
CONC	CONCRETE	MIN	MINIMUM	S	SEWER, SOUTH		
COND	CONDUIT	MLCP	MORTAR LINED AND COATED PIPE	SCH	SCHEDULE		
CONST	CONSTRUCT OR CONSTRUCTION	MOD	MODIFY/MODIFIED	SD	STORM DRAIN		
COORD	COORDINATE	MON	MONUMENT	SDMH	STORM DRAIN MANHOLE		
COR	CORNER	MPH	MILES PER HOUR	SECT	SECTION		
CPEP	CORRUGATED POLYETHELYNE PIPE	N	NORTH	SF	SQUARE FOOT/FEET		
CT	COURT	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	SHLDR	SHOULDER		
CY	CUBIC YARD(S)			SHT	SHEET		
Δ	DELTA	NO	NUMBER	SL	STREET LIGHT		
DCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)	NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SP	SERVICE POINT		
				SQ	SQUARE		
				SR	SEWER RECLAIM MAIN		
		NPC	NEVADA POWER COMPANY	SS	SANITARY SEWER		
D.E.	DRAINAGE EASEMENT	NTS	NOT TO SCALE	SSMH	SANITARY SEWER MANHOLE		
DEFL	DEFLECTION	OC	ON CENTER	STA	STATION		
DG	DESIGNED GRADE	OHC	OVERHEAD COX COMMUNICATION	ST	STREET		
D.I.	DROP INLET	OHP	OVERHEAD POWER LINE	STD	STANDARD		
DIA, ⌀	DIAMETER			STL	STEEL		
DIP	DUCTILE IRON PIPE						

LEGEND

(1) LOT NUMBER	[54.10] FUTURE ELEVATION
1 BLOCK NUMBER	59.33 TC or FG GRADE BREAK ELEVATION
PAD= 00.0 F.F. = 00.0 PAD ELEVATION FINISH FLOOR ELEVATION	56.22 TC or FG PROPOSED ELEVATION
PAD= (00.0) F.F. = (00.0) EXISTING PAD ELEVATION EXIST. FINISH FLOOR ELEV.	(56.21) EXISTING ELEVATION
SCARP	RIGHT-OF-WAY
4510 EXISTING CONTOUR (5' INTERVAL)	PROPERTY LINE
EXISTING CONTOUR (1' INTERVAL)	CENTER LINE
CONCRETE DRIVEWAY	RETAINING WALL
TF TOP OF FOOTING	KNEE WALL
TW TOP OF RETAINING WALL	PERIMETER WALL
SDMH STORM DRAIN MANHOLE	STORM DRAIN LINE
SVZ - SIGHT VISIBILITY ZONE, NO STRUCTURES/ LANDSCAPING TALLER THAN 24"	SIDEWALK
	DITCH OR SWALE
	CURB TRANSITION AT SIDEWALK RAMP (ROLL CURB TO "L" CURB)

QUANTITY ESTIMATE

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

STREET IMPROVEMENT - (PUBLIC)

DESCRIPTION	UNIT	TOTAL
CURB & GUTTER (TYPE "L" & "A")	LF	225
CROSS GUTTER	SF	768
CONCRETE TACK-ON ISLAND	SF	1,120
SIDEWALK 4"	SF	1,105
SIDEWALK RAMP	EA	2
SIDEWALK UNDERDRAIN	EA	3
TYPE II GRAVEL BASE	CY	25
4" ASPHALTIC CONCRETE PAVING	SY	179
PVMT BUTTON (REFLECTIVE)	EA	50
PVMT BUTTON (NON-REFLECTIVE)	EA	75
PAVEMENT STRIPING ARTERIAL	LF	300
BUS TURNOUT	SF	267
PULL BOX	EA	3
1 1/4" ST/LT CONDUIT (DETECTOR LOOP)	LF	60
TRAFFIC SIGNAL POLE AND ARM	EA	2
3" INTERCONNECT CONDUIT (SIGNAL)	LF	350
TRAFFIC SIGNAL ARM	EA	1
STREET/STOP SIGNS	EA	1

WATER (PUBLIC)

DESCRIPTION	UNIT	TOTAL
4" OCTAVE METER AND 6" RPPA	EA	2
2" WATER SERVICE WITH 2" WATER METER PER UDACS PLATE NO. 4	EA	1
10" R.P.D.A. PER UDACS PLATE NO. 59	EA	3

SEWER (PUBLIC)

DESCRIPTION	UNIT	TOTAL
8" PVC SANITARY SEWER PIPE	LF	298
SEWER MAIN TAP	EA	1
48" DIA. SANITARY SEWER MANHOLE	EA	4

QUANTITY ESTIMATE

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

STREET IMPROVEMENT (PRIVATE)

DESCRIPTION	UNIT	TOTAL
CURB & GUTTER (TYPE "L" & "A")	LF	14,578
CROSS GUTTER	SF	9,600
SIDEWALK 4"	SF	21,510
SIDEWALK UNDERDRAIN	EA	1
TYPE II GRAVEL BASE	CY	2,083
2" ASPHALTIC CONCRETE PAVING	SY	22,775
3" ASPHALTIC CONCRETE PAVING	SY	2,237

WATER (PRIVATE)

DESCRIPTION	UNIT	TOTAL
6" PVC WATERLINE	LF	3,538
6" CAP	EA	6
6"-22.5° BEND PER UDACS PLATE NO. 31	EA	3
6"-90° BEND PER UDACS PLATE NO. 31	EA	10
8" TEE	EA	2
10" PVC WATERLINE	LF	790
10"-90° BEND PER UDACS PLATE NO. 31	EA	4
10"-45° BEND PER UDACS PLATE NO. 31	EA	9
10" TEE PER UDACS PLATE NO. 31	EA	1
10" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39	EA	7
FIRE HYDRANT, VALVES, & TEE PER UDACS PLATES NO. 40	EA	9
10"x2" REDUCER	EA	1
12" PVC WATERLINE	LF	2496
12" - 45° BEND	EA	9
12" - 22 1/2° BEND	EA	4
12" - 11° BEND	EA	1
12" - 90° BEND	EA	7
12"x6" TEE	EA	6
12 GATE VALVE	EA	5

SEWER (PRIVATE)

DESCRIPTION	UNIT	TOTAL
6" PVC SANITARY SEWER PIPE	LF	454
8" PVC SANITARY SEWER PIPE	LF	288
48" DIA. SANITARY SEWER MANHOLE	LF	4
SANITARY SEWER CLEAN OUT	EA	2

STORM DRAIN (PRIVATE)

DESCRIPTION	UNIT	TOTAL
18" ADS N-12 STORM DRAIN PIPE	LF	510
24" ADS N-12 STORM DRAIN PIPE	LF	98
48" ADS N-12 STORM DRAIN PIPE	LF	403
54" ADS N-12 STORM DRAIN PIPE	LF	585
4-FOOT TYPE A DROP INLET	EA	2
2'X2' JENSEN DROP INLET	EA	3
3'X3' JENSEN DROP INLET	EA	1
4'X4' JENSEN DROP INLET	EA	1
RIP-RAP D50(6")	CY	3
STORMCEPTOR	EA	2
48" SD MANHOLE	CY	7
60" SD MANHOLE	EA	3

4

STREET SIGNS/STRIPING (PRIVATE)

DESCRIPTION	UNIT	TOTAL
R7-8 - HANDICAP PARKING SIGN	EA	9
R7-8B - VAN ACCESSIBILITY SIGN	EA	1
R1-1 - STOP SIGN	EA	4
FIRE LANE SIGN	EA	4
R1-2 - YIELD SIGN	EA	3

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1-702-227-2929

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE, 4,000 GPM FIRE FLOW AT 20 PSI RESIDUAL DATE 2/14/19

L18-01454 | CLV DWG#: 107V7415

ENGINEER - STATE OF NEVADA - No. 14711 - TODD N. KELLEY - Exp. 6/30/2019 - CIVIL - PROFESSIONAL
DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOW APP
1	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SDMH ADJUST RIM TO GRADE				

PROJECT NO. 894-002
DESIGN: TNK
DRAWN: TNK
CHECK: TNK
PLOT DATE: 02-14-19
PLOT TIME: 14:29:33

GCV ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\89402c001.dwg
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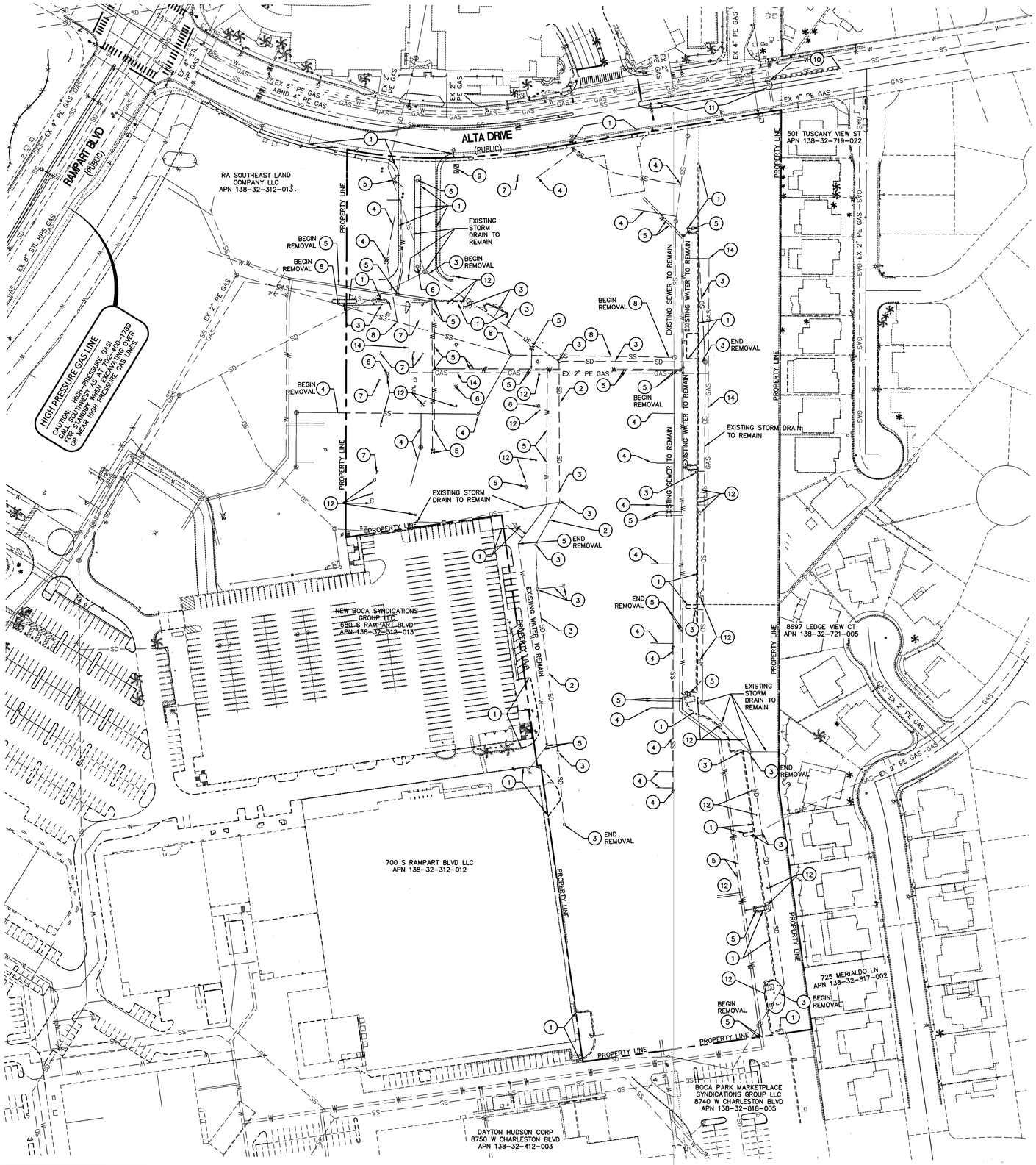
THE CALIDA GROUP

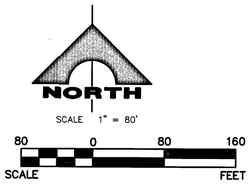
ELYSIAN AT RENAISSANCE

ABBREVIATIONS, LEGEND AND QUANTITIES

DRAWING
CV-3
3 OF 37 SHTS

PRO.#:135281A QS:138-32-SE





DEMOLITION NOTES

1	REMOVE EX. CURB
2	REMOVE EX. CONCRETE
3	REMOVE EXISTING STORM PIPE AND STORM STRUCTURES.
4	REMOVE EXISTING SANITARY SEWER PIPE AND STRUCTURES
5	REMOVE EXISTING WATER PIPE AND WATER FACILITIES.
6	REMOVE EXISTING LIGHTING FIXTURE.
7	REMOVE EXISTING SIGN AND POST.
8	REMOVE EXISTING SANITARY SEWER. NOTE: CONTRACTOR TO MAINTAIN THE EXISTING SANITARY SEWER SERVICE DURING CONSTRUCTION. REMOVAL OF THE EXISTING ON-SITE SANITARY SEWER FACILITY SHALL BE COORDINATED WITH THE CITY OF LAS VEGAS SEWER DIVISION PRIOR TO REMOVAL WORK.
9	REMOVE EXISTING MONUMENT SIGN
10	REMOVE EXISTING BUMPER BLOCKS AND DEFLECTOR POSTS
11	REMOVE EXISTING MEDIAN ISLAND
12	REMOVE EXISTING UTILITY BOX. COORDINATE WITH UTILITY PROVIDER.
13	RELOCATE EXISTING FH. SEE SHEET UP-1.
14	CONTACT SOUTHWEST GAS CORPORATION FOR ABANDONMENT SCHEDULE.

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19

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AVOID MITTING OVERHEAD POWER LINES IT'S COSTLY! CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

FAST Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

L18-01454 | CLV DWG#: 107V7415

ENGINEER - STATE OF NEVADA — TODD R. KELLEY — Exp. 6/30/2019 — CIVIL — No. 11771 — PROFESSIONAL ENGINEER — DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

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DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:29:45

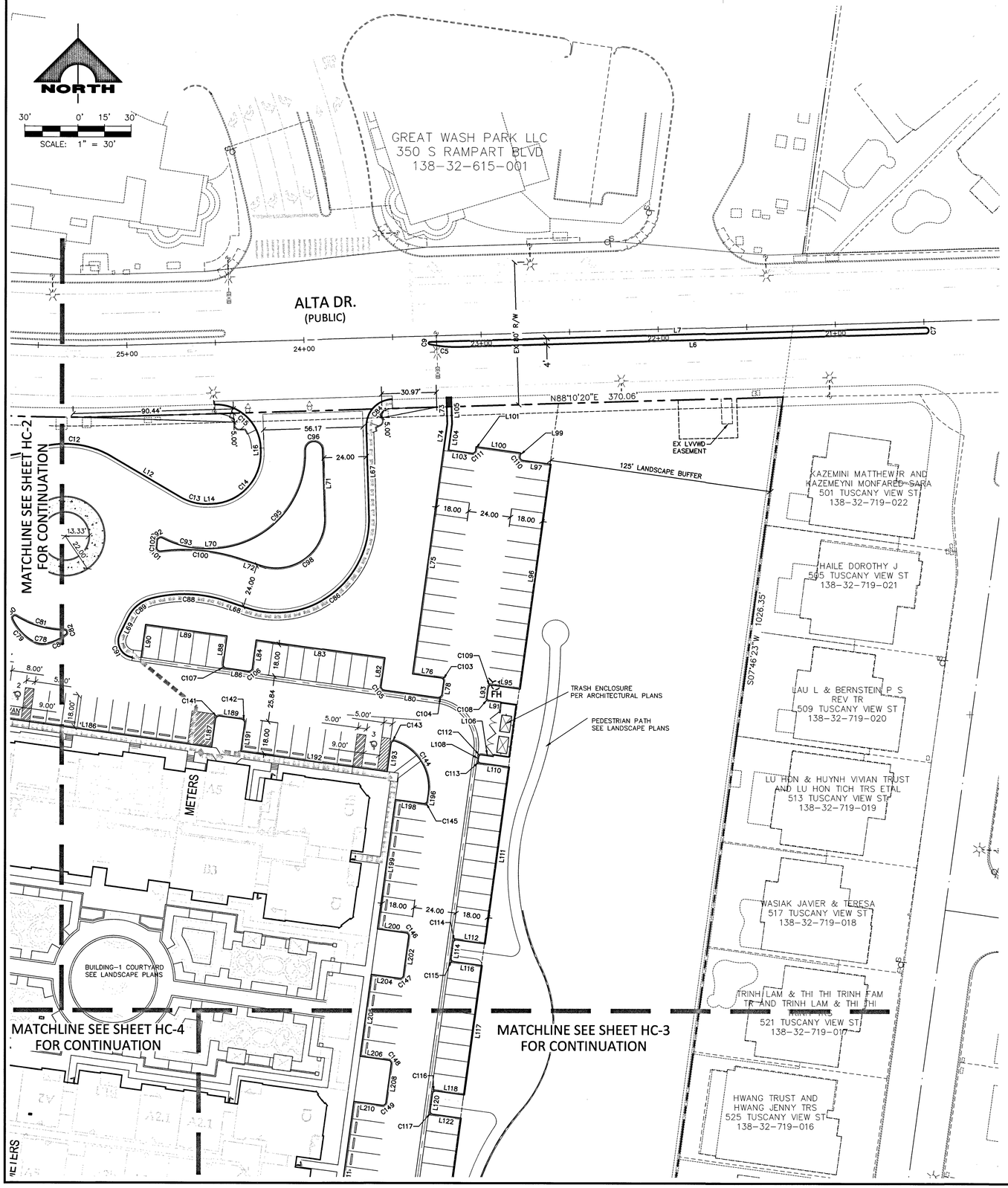
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
ENGINEERS \ SURVEYORS
gcwengineering.com

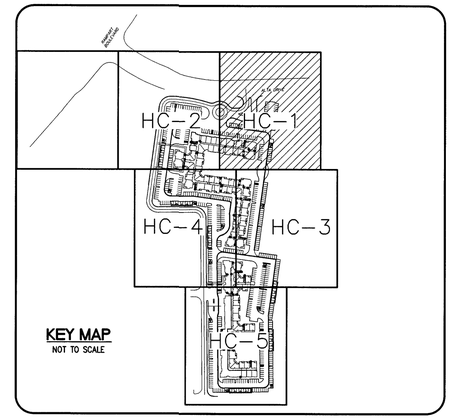
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THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
DEMOLITION PLAN

DRAWING
DM-1
4 OF 37 SHTS

PROJ#:135281A QS:138-32-SE





NOTE:
SEE SHEET HC-6 FOR LINE AND CURVE TABLES.

ADA ACCESSIBLE ROUTE
SEE GRADING PLANS

SIGHT VISIBILITY ZONE (SVZ)

PROJECT MATCHLINE

NOTE:
CONCRETE WHEEL STOPS TO BE INSTALLED IN PARKING STALLS IN ACCORDANCE WITH TITLE 19 SECTION 19.08.110.C.10.

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SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA
ENGINEER
TODD W. KELLEY
Exp. 6/30/2019
CIVIL
No. 14711
PROFESSIONAL
DATE: 4-11-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	CCNV APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 04-14-19
PLOT TIME: 14:38:30

GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

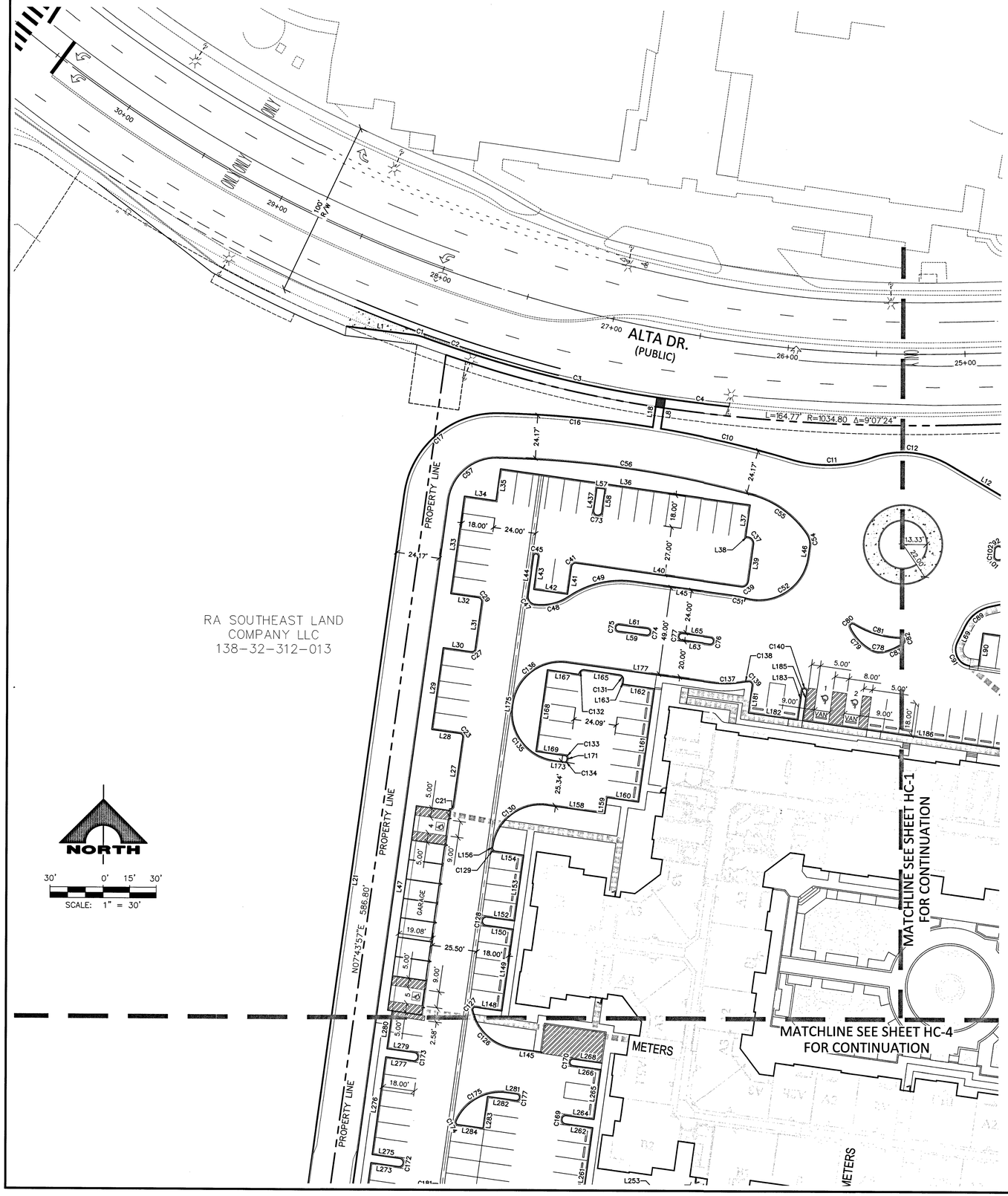
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Todd Kelley

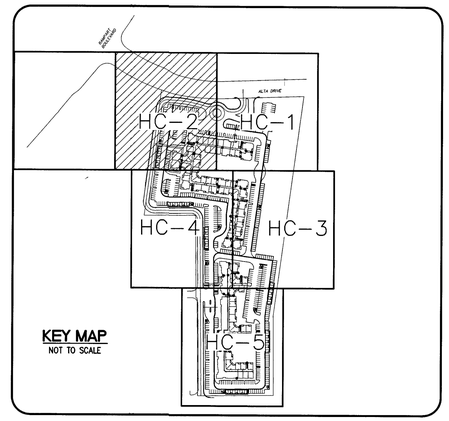
THE CALIDA GROUP

ELYSIAN AT RENAISSANCE

HORIZONTAL CONTROL PLAN 1

DRAWING
HC-1
5 OF 37 SHTS





KEY MAP
NOT TO SCALE

NOTE:
SEE SHEET HC-6 FOR LINE AND CURVE TABLES.

ADA ACCESSIBLE ROUTE
SEE GRADING PLANS

PROJECT MATCHLINE

NORTH

30' 0' 15' 30'
SCALE: 1" = 30'

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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L18-01454 | CLV DWG#: 107V7415

PROFESSIONAL ENGINEER - STATE OF NEVADA
TODD N. KELLEY
No. 14711
Exp. 6/30/2019
CIVIL
DATE: 4-14-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOV APP

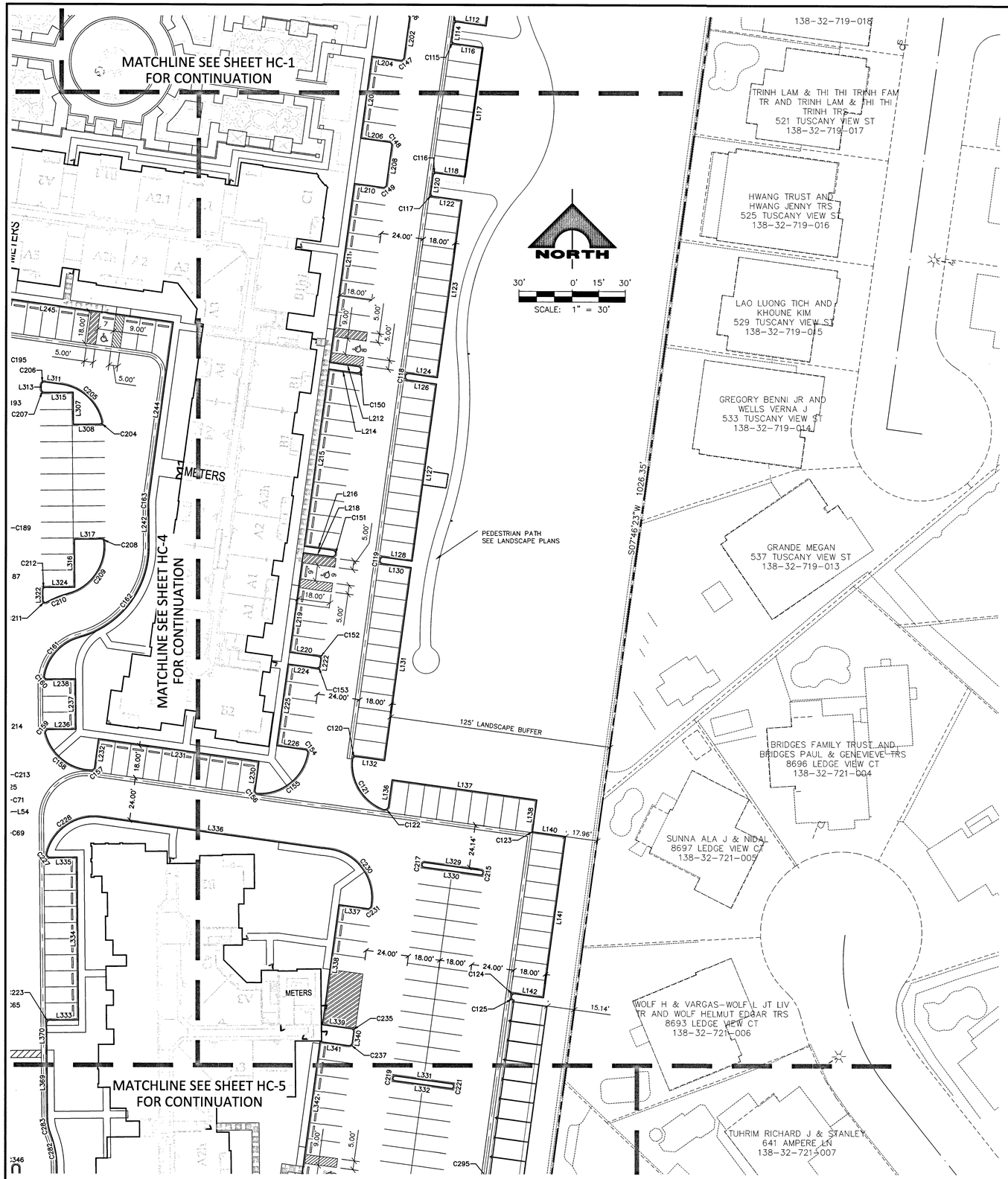
PROJECT NO. 894-002
DESIGN:
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CHECK:
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PLOT TIME: 14:40:18

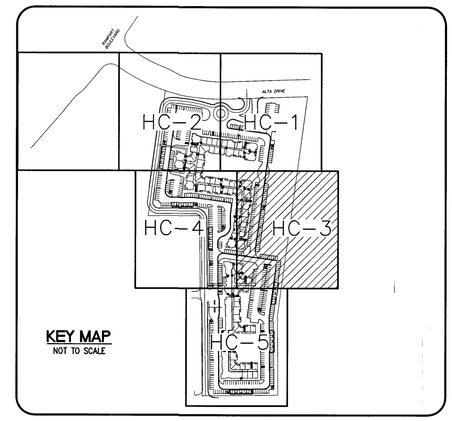
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894c506.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
HORIZONTAL CONTROL PLAN 2

DRAWING
HC-2
6 OF 37 SHTS





KEY MAP
NOT TO SCALE

NOTE:
SEE SHEET HC-6 FOR LINE AND CURVE TABLES.

ADA ACCESSIBLE ROUTE
SEE GRADING PLANS

PROJECT MATCHLINE

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA
PROFESSIONAL ENGINEER
TODD N. KELLEY
No. 14710
CIVIL
DATE: 4-14-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

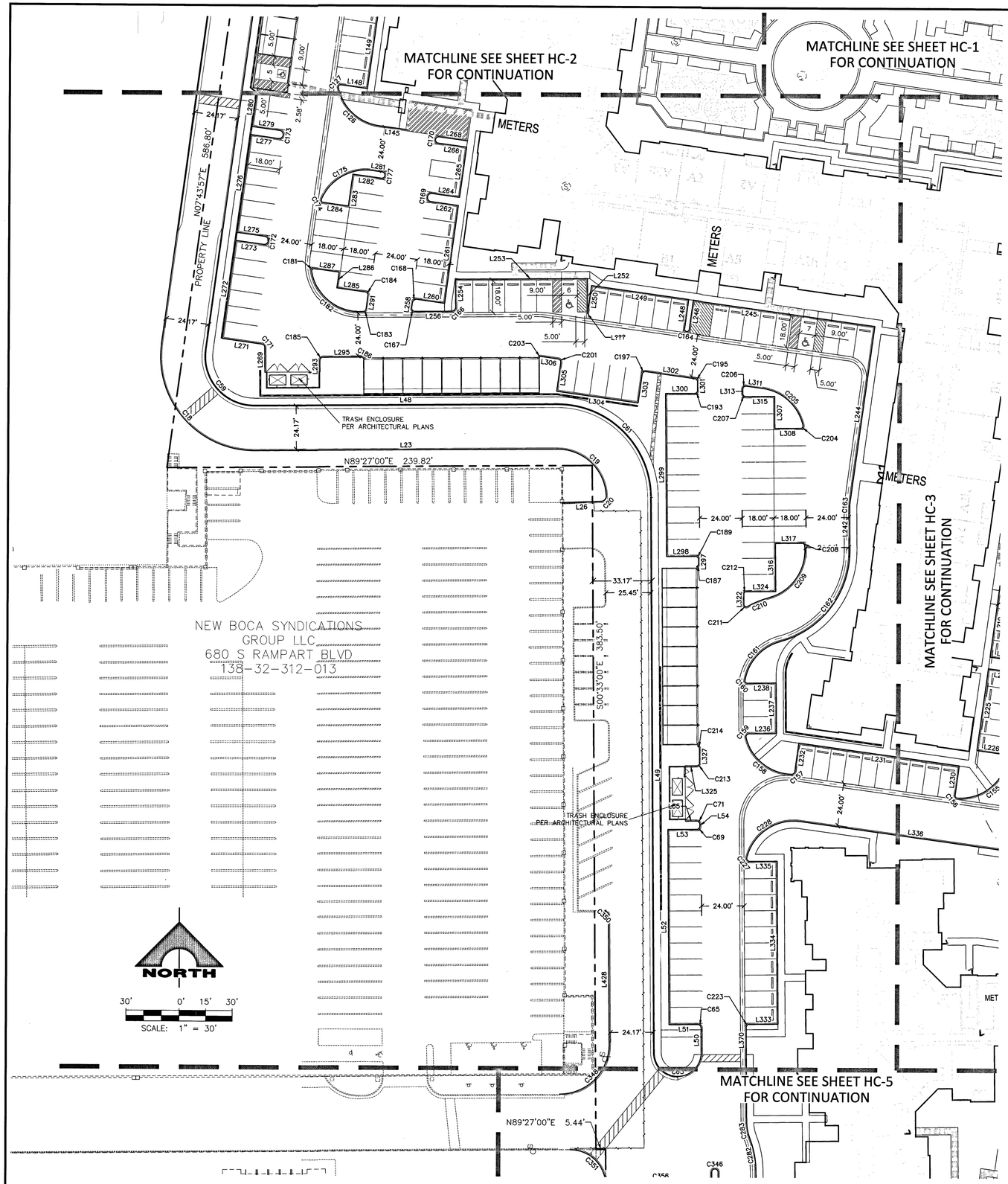
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 04-14-19
PLOT TIME: 14:27:36

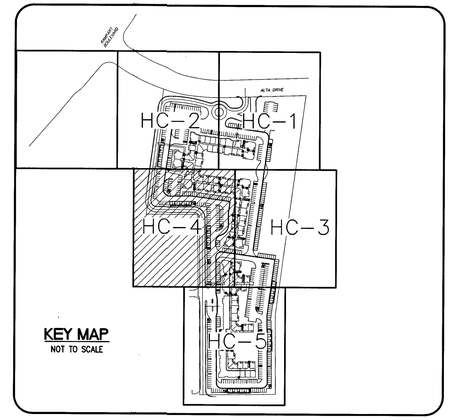
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\884-002\DWG\Production\8842c007.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
HORIZONTAL CONTROL PLAN 3

DRAWING
HC-3
7 OF 37 SHTS





KEY MAP
NOT TO SCALE

NOTE:
SEE SHEET HC-6 FOR LINE AND CURVE TABLES.

ADA ACCESSIBLE ROUTE
SEE GRADING PLANS

PROJECT MATCHLINE

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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OR 1-800-227-2600

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

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

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA
ENGINEER
TODD N. KELLEY
Exp. 9/30/2019
CIVIL
No. 14371
PROFESSIONAL
DATE: 4-14-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOV APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE-04-14-19
PLOT TIME_14:30:28

GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\89402c008.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
HORIZONTAL CONTROL PLAN 4

DRAWING
HC-4
8 OF 37 SHTS

MATCHLINE SEE SHEET HC-4 FOR CONTINUATION

MATCHLINE SEE SHEET HC-3 FOR CONTINUATION

700 S RAMPART BLVD LLC
700 S RAMPART BLVD
138-32-312-012

WOLF H & VARGAS-WOLF L
TR AND WOLF HELMUT EDG
8693 LEDGE VIEW C
138-32-721-006

SAGAR GURMEET K
709 MERIALDO LN
138-32-721-008

FULTIN DORIAN AND
FULTON LISA
713 MERIALDO LN
138-32-721-009

GROSS MARY MARGARET
717 MERIALDO LN
138-32-721-010

ALEXANDER KEITH PEREZ AND
CAMPBELL ALETA L
721 MERIALDO LN
138-32-817-001

MERIALDO TRUST AND
NEEDHAM ALAN TRS
725 MERIALDO LN
138-32-817-002

LEFEBVRE SUSAN & ROCH
801 MERIALDO LN
138-32-817-003

ACKMANN CHRISTINE L
AND LEUNG TARA S
805 MERIALDO LN
138-32-817-00#

DAYTON HUDSON
CORPORATION
8750 W CHARLESTON
BLVD
138-32-412-003

BOCA PARK MARKETPLACE
SYNDICATIONS GROUP LLC
8740 W CHARLESTON BLVD
138-32-818-005

METERS

BUILDING-2 COURTYARD
SEE LANDSCAPE PLANS

TRASH ENCLOSURES PER ARCHITECTURAL PLANS

PROPERTY LINE
N89°27'00"E 352.43'

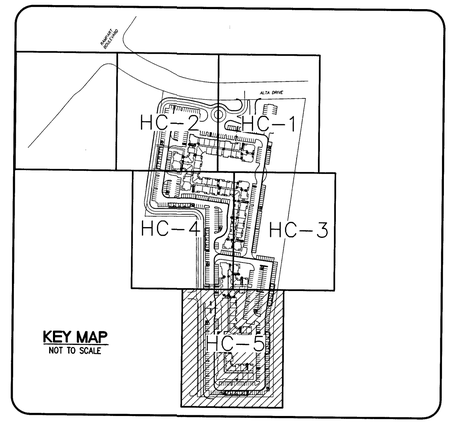
PROPERTY LINE
S00°33'00"E 453.59'

N89°27'00"E 5.44'

S07°46'23"W 1026.35'

N00°19'18"W 369.87'

NORTH
30' 0' 15' 30'
SCALE: 1" = 30'



KEY MAP
NOT TO SCALE

NOTE:
SEE SHEET HC-6 FOR LINE AND CURVE TABLES.

ADA ACCESSIBLE ROUTE
SEE GRADING PLANS

PROJECT MATCHLINE

PARKING ANALYSIS

REQUIRED PARKING

UNIT TYPE	UNIT COUNT	SPACES/UNIT	TOTAL SPACES
1 BEDROOM	240	1.25	300
2 BEDROOM	107	1.75	188
3 BEDROOM	12	2.00	24
VISITOR		0.2	72
TOTAL REQUIRED			584
ACCESSIBLE REQUIRED (2% OF TOTAL)			12
VAN ACCESSIBLE (12.5% OF ACCESSIBLE)			2

PARKING PROVIDED

TYPE	SPACES	ACCESSIBLE	TOTAL
CARPORTS	351	8	359
GARAGES	52	2	54
SURFACE	176	2	178
TOTAL PROVIDED			591

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OR
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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1-702-227-2929

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	S.E. 820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

L18-01454 | CLV DWG#: 107V7415

PROFESSIONAL ENGINEER STATE OF NEVADA
TODD N. KELLEY
No. 14717
CIVIL
Exp. 6/30/2019
DATE: 4-14-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	CGW APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 04-14-19
PLOT TIME: 14:35:23

GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\\$942c009.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
HORIZONTAL CONTROL PLAN 5

DRAWING
HC-5
9 OF 37 SHTS

BOC LINE TABLE

LINE #	DIRECTION	LENGTH
L1	S83° 10' 44"E	37.88
L6	N88° 10' 20"E	262.91
L7	S88° 10' 20"W	280.00
L8	S08° 01' 34"W	16.77
L12	S59° 45' 01"E	45.06
L14	N88° 10' 20"E	2.62
L16	N01° 49' 40"W	2.00
L18	S08° 01' 34"W	16.66
L21	S07° 43' 57"W	437.86
L23	N89° 27' 00"E	170.87
L26	S87° 53' 15"W	21.99
L27	N07° 48' 20"E	39.16
L28	N82° 11' 40"W	16.17
L29	N07° 48' 20"E	46.34
L30	S82° 11' 40"E	16.17
L31	N07° 48' 20"E	26.50
L32	N82° 11' 40"W	15.67
L33	N07° 48' 20"E	55.34
L34	S82° 11' 40"E	18.00
L35	N07° 48' 20"E	18.00
L36	S82° 11' 40"E	142.34
L37	S07° 48' 20"W	18.00
L38	S82° 11' 40"E	1.33
L39	S07° 48' 20"W	21.00
L40	N82° 11' 40"W	94.00
L41	S07° 46' 26"W	15.70
L42	N82° 13' 34"W	19.34
L43	N07° 46' 26"E	18.71
L44	S07° 46' 26"W	22.61
L45	S82° 29' 07"E	56.09
L46	N07° 48' 01"E	5.88
L47	S07° 43' 57"W	437.86
L48	N89° 27' 00"E	170.87
L49	S00° 33' 00"E	311.53
L50	N00° 33' 00"W	14.04
L51	S89° 27' 00"W	16.17
L52	N00° 33' 00"W	109.34
L53	N89° 27' 00"E	16.16
L54	N00° 00' 00"E	1.00
L55	S89° 27' 00"W	6.33
L56	N07° 48' 20"E	12.83
L57	N82° 11' 40"W	4.66
L58	N07° 48' 20"E	12.83
L59	S82° 29' 07"E	16.00
L61	N82° 29' 07"W	16.00
L63	S82° 29' 07"E	16.00
L65	N82° 29' 07"W	16.00
L67	S01° 49' 40"E	50.30
L68	N71° 46' 49"W	12.30
L69	S25° 59' 21"W	10.38
L70	N88° 10' 20"E	2.62
L71	S01° 49' 40"E	38.30
L72	N71° 46' 49"W	12.30
L73	S01° 49' 40"E	14.96
L74	S07° 48' 01"W	14.61
L75	S07° 48' 01"W	127.34
L76	S82° 11' 59"E	16.17
L78	S07° 48' 01"W	7.00
L80	N82° 11' 59"W	30.33
L82	N07° 48' 01"E	16.00
L83	N82° 11' 59"W	73.34
L84	S07° 48' 01"W	16.00
L86	N82° 11' 59"W	12.58
L88	N07° 48' 01"E	16.00
L89	N82° 11' 59"W	46.42
L90	S07° 48' 01"W	18.67
L91	N82° 12' 40"W	6.84
L93	N07° 59' 35"E	5.59
L95	S82° 11' 59"E	16.17
L96	N07° 48' 01"E	127.34
L97	N82° 11' 59"W	16.17
L99	N07° 48' 01"E	2.17
L100	N82° 11' 59"W	25.34
L101	S07° 48' 01"W	2.17
L103	N82° 11' 59"W	13.17

BOC LINE TABLE

LINE #	DIRECTION	LENGTH
L104	N07° 48' 01"E	14.86
L105	N01° 49' 40"W	15.21
L106	N82° 12' 40"W	6.83
L108	S07° 48' 01"W	2.00
L110	S82° 12' 40"E	16.67
L111	S07° 48' 01"W	100.34
L112	N82° 11' 59"W	16.17
L114	S07° 47' 31"W	8.61
L116	S82° 11' 59"E	16.17
L117	S07° 48' 01"W	73.34
L118	N82° 11' 59"W	16.18
L120	S07° 43' 16"W	9.51
L122	S82° 11' 59"E	16.17
L123	S07° 48' 01"W	100.34
L124	N82° 11' 59"W	16.17
L126	S82° 11' 59"E	16.17
L127	S07° 48' 01"W	100.34
L128	N82° 11' 59"W	16.18
L130	S82° 11' 59"E	16.18
L131	S07° 48' 01"W	109.34
L132	N82° 11' 59"W	16.17
L136	N07° 46' 26"E	14.93
L137	S82° 13' 34"E	82.34
L138	S07° 46' 26"W	17.68
L140	S82° 13' 34"E	18.50
L141	S07° 46' 26"W	91.34
L142	N82° 13' 34"W	18.17
L145	N82° 11' 40"W	16.09
L148	S82° 11' 40"E	15.11
L149	N07° 48' 20"E	46.34
L150	N82° 11' 40"W	15.67
L152	S82° 11' 40"E	15.67
L153	N07° 48' 20"E	37.34
L154	N82° 11' 40"W	16.17
L156	N07° 48' 20"E	0.50
L158	S82° 11' 40"E	32.73
L159	N07° 48' 20"E	9.00
L160	S82° 11' 40"E	18.00
L161	N07° 48' 20"E	64.34
L162	N82° 11' 40"W	18.06
L163	N07° 48' 20"E	2.33
L165	N82° 11' 40"W	20.00
L167	N82° 11' 40"W	18.02
L168	S07° 48' 20"W	46.34
L169	S82° 11' 40"E	16.67
L171	S07° 48' 20"W	1.00
L173	N82° 11' 40"W	6.00
L175	N07° 48' 20"E	0.94
L177	S82° 29' 07"E	83.08
L181	S07° 48' 01"W	15.76
L182	S82° 11' 59"E	28.34
L183	N07° 48' 01"E	16.67
L185	S07° 48' 01"W	16.67
L186	S82° 11' 59"E	140.34
L187	N07° 48' 01"E	15.67
L189	S82° 11' 59"E	12.00
L191	S07° 48' 01"W	15.67
L192	S82° 11' 58"E	83.34
L193	N07° 48' 01"E	15.77
L196	S07° 48' 01"W	3.83
L198	N82° 11' 59"W	16.17
L199	S07° 48' 01"W	73.34
L200	S82° 11' 59"E	16.17
L202	S07° 48' 18"W	22.11
L204	N82° 11' 59"W	16.17
L205	S07° 48' 01"W	46.34
L206	S82° 11' 59"E	16.17
L208	S07° 48' 54"W	22.02
L210	N82° 11' 59"W	16.16
L211	S07° 48' 01"W	101.34
L212	S82° 11' 59"E	16.17
L214	N82° 11' 59"W	16.17
L215	S07° 48' 01"W	100.34
L216	S82° 11' 59"E	16.17
L218	N82° 11' 59"W	16.17

BOC LINE TABLE

LINE #	DIRECTION	LENGTH
L219	S07° 48' 01"W	56.35
L220	S82° 11' 59"E	16.17
L222	S07° 48' 01"W	2.99
L224	N82° 11' 59"W	16.17
L225	S07° 48' 01"W	46.34
L226	S82° 11' 59"E	16.12
L230	N07° 46' 24"E	16.65
L231	N82° 13' 36"W	91.34
L232	S07° 46' 24"W	16.06
L236	N89° 27' 00"E	15.40
L237	N00° 32' 58"W	28.34
L238	S89° 27' 00"W	16.29
L242	N00° 33' 00"W	24.04
L244	N07° 48' 21"E	100.29
L245	N82° 11' 40"W	103.34
L246	S07° 48' 21"W	16.67
L248	N07° 48' 21"E	16.67
L249	N82° 11' 40"W	55.34
L250	S07° 44' 30"W	15.89
L252	N00° 33' 00"W	19.62
L253	S89° 27' 00"W	74.34
L254	S00° 33' 00"E	15.67
L256	S89° 27' 00"W	20.71
L258	N07° 48' 20"E	2.81
L260	S82° 11' 40"E	15.67
L261	N07° 48' 20"E	55.34
L262	N82° 11' 40"W	15.67
L264	S82° 11' 40"E	15.67
L265	N07° 48' 20"E	28.34
L266	N82° 11' 45"W	16.24
L268	S82° 11' 47"E	16.18
L269	N00° 33' 00"W	13.99
L271	N82° 11' 40"W	22.66
L272	N07° 48' 20"E	55.34
L273	S82° 11' 40"E	15.67
L275	N82° 11' 40"W	15.67
L276	N07° 48' 20"E	55.34
L277	S82° 11' 40"E	15.67
L279	N82° 11' 40"W	15.67
L280	N07° 48' 20"E	21.25
L281	S82° 11' 40"E	5.50
L282	N82° 11' 40"W	16.17
L283	S07° 48' 20"W	18.00
L284	N82° 11' 40"W	14.37
L285	N82° 11' 40"W	16.17
L286	N07° 48' 20"E	9.00
L287	N82° 11' 40"W	14.10
L291	N07° 48' 20"E	7.50
L293	N00° 33' 00"W	6.33
L295	N89° 27' 00"E	21.41
L297	N00° 14' 31"W	2.28
L298	S89° 27' 00"W	16.18
L299	N00° 33' 00"W	91.34
L300	N89° 27' 00"E	16.17
L301	N00° 33' 00"W	4.73
L302	N82° 12' 04"W	27.91
L303	S07° 48' 20"W	16.17
L304	N82° 11' 39"W	46.34
L305	N07° 48' 20"E	16.17
L306	N82° 11' 42"W	9.80
L307	S00° 33' 00"E	18.00
L308	N89° 27' 00"E	14.68
L311	N82° 12' 15"W	9.30
L313	S00° 33' 00"E	2.32
L315	N89° 25' 06"E	16.17
L316	N00° 33' 00"W	27.00
L317	N89° 25' 06"E	15.19
L322	N00° 33' 00"W	5.82
L324	N89° 27' 00"E	16.67
L325	N89° 27' 00"E	6.34
L327	N00° 27' 58"W	7.71
L329	N82° 13' 34"W	32.00
L330	S82° 13' 34"E	32.00
L331	S82° 13' 34"E	32.00
L332	N82° 13' 34"W	32.00

BOC LINE TABLE

LINE #	DIRECTION	LENGTH
L333	N89° 27' 00"E	16.17
L334	N00° 33' 00"W	91.34
L335	S89° 27' 00"W	15.31
L336	S82° 11' 36"E	130.59
L337	N82° 13' 34"W	16.23
L338	S07° 46' 32"W	67.91
L339	S82° 13' 34"E	16.17
L340	S07° 43' 21"W	5.98
L341	N82° 13' 34"W	16.17
L342	S07° 46' 26"W	69.68
L343	S07° 46' 26"W	85.67
L344	S82° 13' 34"E	16.25
L345	S08° 04' 50"W	16.17
L346	S82° 13' 34"E	37.34
L347	N08° 01' 04"E	20.12
L348	S89° 27' 00"W	15.62
L349	S00° 33' 00"E	206.34
L350	N89° 27' 00"E	17.17
L351	S89° 26' 29"W	17.17
L352	S00° 33' 00"E	55.34
L353	N89° 27' 00"E	14.27
L354	N00° 33' 00"W	15.62
L355	S89° 27' 00"W	46.34
L356	S00° 33' 00"E	15.67
L357	N00° 33' 00"W	15.67
L358	S89° 27' 00"W	55.17
L359	S00° 33' 00"E	15.67
L360	N00° 33' 08"W	15.67
L361	S89° 27' 00"W	55.17
L362	S00° 33' 00"E	15.04
L363	N00° 33' 00"W	232.48
L364	N89° 27' 00"E	16.17
L365	N00° 33' 00"W	37.34
L366	S89° 27' 00"W	16.67
L367	N00° 33' 00"W	5.43
L368	N00° 33' 00"W	54.63
L369	N00° 33' 00"W	38.41
L370	N00° 33' 00"W	14.04
L371	S82° 13' 34"E	14.74
L372	S07° 46' 26"W	18.00
L373	S82° 13' 34"E	16.17
L374	S07° 46' 26"W	9.28
L375	S07° 46' 26"W	9.00
L376	S82° 13' 35"E	16.17
L377	S07° 46' 26"W	73.34
L378	N82° 13' 34"W	13.18
L379	S00° 33' 00"E	2.14
L380	N89° 27' 00"E	16.00
L381	S00° 33' 00"E	37.34
L382	S89° 27' 00"W	16.17
L383	N89° 27' 00"E	16.17
L385	S89° 27' 00"W	16.17
L386	N89° 27' 00"E	16.17
L388	S89° 27' 00"W	16.17
L389	N00° 33' 00"W	5.41
L391	N89° 27' 00"E	30.86
L392	N00° 33' 00"W	91.34
L393	S89° 27' 00"W	16.17
L395	N89° 27' 00"E	16.17
L396	N00° 33' 00"W	64.34
L397	S89° 27' 00"W	16.17
L399	S89° 27' 07"W	22.01
L400	S00° 33' 00"E	16.67
L401	S89° 27' 00"W	19.34
L402	N00° 33' 00"W	16.67
L403	S89° 27' 00"W	2.21
L404	S89° 27' 00"W	2.21
L405	S00° 33' 08"E	16.67
L406	S89° 27' 00"W	73.34
L407	N00° 33' 00"W	18.69
L408	S89° 27' 00"W	16.17
L409	N00° 33' 00"W	64.34
L410	N89° 27' 00"E	15.67
L411	S89° 27' 00"W	15.67
L412	N00° 33' 00"W	64.34

BOC LINE TABLE

LINE #	DIRECTION	LENGTH
L413	N89° 27' 00"E	15.67
L414	S89° 27' 00"W	15.67
L415	N00° 33' 00"W	64.34
L416	N89° 27' 00"E	15.67
L417	S89° 27' 00"W	15.67
L418	N00° 33' 00"W	64.34
L419	N89° 27' 00"E	15.67
L420	N00° 33' 00"W	16.00
L422	S00° 33' 00"E	16.00
L424	N00° 33' 00"W	16.00
L426	S00° 33' 00"E	16.00
L428	N00° 33' 00"W	72.41
L429	N00° 41' 24"W	57.60
L431	N89° 27' 00"E	6.82
L434	N00° 33' 00"W	404.55
L435	S00° 33' 00"E	42.84
L436	N00° 33' 00"W	66.20
L437	S07° 48' 20"W	12.83

BOC CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C1	12.59	30.00	6.59
C2	2.42	839.98	35.42
C3	9.54	650.50	108.31
C4	1.59	1183.56	32.89
C5	13.35	74.50	17.36
C7	180.00	1.50	4.71
C9	166.65	0.50	1.45
C10	6.99	614.67	75.00
C11	35.97	75.00	47.08
C12	49.81	52.00	45.21
C13	32.08	28.00	15.68
C14	90.00	28.33	44.50
C15	90.00	25.00	39.27
C16	8.17	614.67	87.69
C17	83.04	52.67	76.34
C18	98.28	52.67	90.35
C19	87.94	27.33	41.95
C20	90.50	3.00	4.74
C21	90.00	1.83	2.87
C23	90.00	1.83	2.87
C27	90.00	1.83	2.87
C29	90.00	2.33	3.66
C37	90.00	3.67	5.76
C39	90.00	3.67	5.76
C41	90.03	2.33	3.66
C45	180.00	1.33	4.18
C47	90.03	4.33	6.80
C48	42.10	27.33	20.08
C49	41.86	52.73	38.52
C51	8.45	52.67	7.77
C52	98.17	28.00	47.97
C54	42.32	10.00	7.39
C55	40.55	55.00	38.93
C56	14.15	589.33	145.57
C57	83.04	27.33	39.61
C59	98.28	27.33	46.88
C61	90.00	52.67	82.73
C63	180.00	13.26	41.65
C65	90.00	1.83	2.87
C69	89.45	1.83	2.86
C71	90.55	1.83	2.89
C73	180.00	2.33	7.32
C74	180.00	1.83	5.75
C75	180.00	1.83	5.75
C76	180.00	1.83	5.75
C77	180.00	1.83	5.75
C78	37.64	9.33	6.13
C79	38.57	27.33	18.40
C80	146.53	1.33	3.40
C81	31.32	52.67	28.80
C82	141.83	1.33	3.29
C83	26.74	27.33	12.76
C84	90.00	15.00	23.56
C86	110.05	52.50	100.84
C88	32.86	75.00	43.01
C89	49.37	20.00	17.23
C91	108.19	9.00	16.99
C92	114.22	2.00	3.99
C93	29.04	53.34	27.03
C95	90.00	53.67	84.30
C96	180.00	4.83	15.17
C98	110.05	27.33	52.49
C100	28.02	100.17	45.49
C101	104.56	2.00	3.65
C102	3.77	52.00	3.43
C103	90.00	1.83	2.87
C104	90.00	2.33	3.66
C105	90.00	2.00	3.14
C106	90.00	2.00	3.14
C107	90.00	2.00	3.14
C108	90.20	1.33	2.09
C109	90.00	1.83	2.87
C110	90.00	1.83	2.87
C111	90.00	1.83	2.87
C112	89.99	1.33	2.09

BOC CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C113	90.01	1.33	2.09
C114	90.00	1.83	2.87
C115	89.99	1.83	2.87
C116	90.08	1.83	2.88
C117	89.92	1.83	2.87
C118	179.92	1.83	5.75
C119	180.00	1.83	5.75
C120	92.28	1.83	2.95
C121	73.81	27.33	35.21
C122	103.93	2.33	4.23
C123	90.00	0.33	0.52
C124	90.00	1.83	2.87
C125	90.00	1.83	2.87
C126	70.03	27.33	33.40
C127	109.97	1.33	2.55
C128	180.00	2.33	7.32
C129	90.00	1.83	2.87
C130	90.00	27.33	42.93
C131	90.00	2.67	4.19
C132	97.10	2.67	4.52
C133	90.00	1.33	2.09
C134	90.00	1.33	2.09
C135	90.00	27.33	42.93
C136	89.71	27.33	42.79
C137	17.96	52.67	16.51
C138	7.88	27.33	3.76
C139	100.36	1.83	3.21
C140	180.00	1.33	4.18
C141	90.00	2.33	3.66
C142	90.00	2.33	3.66
C143	100.16	1.83	3.20
C144	79.84	27.33	38.08
C145	90.00	1.83	2.87
C146	90.00	1.83	2.87
C147	90.00	1.83	2.87
C148	90.00	1.83	2.87
C149	89.99	1.83	2.87
C150	180.00	1.83	5.75
C151	180.00	1.83	5.75
C152	90.00	1.83	2.87
C153	90.00	1.83	2.87
C154	92.40	1.83	2.95
C155	83.20	27.33	39.68
C156	94.37	1.33	2.19
C157	83.54	1.83	2.67
C158	73.98	27.33	35.29
C159	104.16	1.83	3.33
C160	99.88	1.33	2.32
C161	65.65	27.33	31.31
C162	75.52	52.67	69.43
C163	8.36	15.00	2.19
C164	180.00	1.33	4.18
C166	90.00	2.33	3.66
C167	98.36	1.83	3.14
C168	90.00	2.33	3.66
C169	180.00	2.33	7.32
C170	177.96	1.83	5.68
C171	81.64	1.83	2.61
C172	180.00	2.33	7.32
C173	180.00	2.33	7.32
C174	105.62	1.33	2.45
C175	74.38	27.33	35.48
C177	180.00	1.83	5.75
C181	107.69	1.33	2.50
C182	84.77	27.33	40.43
C183	77.54	1.83	2.48
C184	90.00	1.83	2.87
C185	90.00	1.83	2.87
C186	56.88	1.83	1.82
C187	66.42	1.83	2.12
C189	90.31	1.83	2.88
C193	90.00	1.83	2.87
C195	81.65	1.83	2.61
C197	89.99	1.83	2.87
C201	90.00	1.83	2.87

BOC CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C203	89.28	0.83	1.29
C204	102.82	1.33	2.39
C205	68.84	27.33	32.84
C206	98.35	1.83	3.14
C207	90.03	1.83	2.88
C208	84.07	1.33	1.95
C209	81.49	27.33	38.87
C210	14.30	52.67	13.15
C211	118.78	1.33	2.76
C212	90.00	1.33	2.09
C213	89.92	1.83	2.87
C214	66.78	1.83	2.13
C215	180.00	1.33	4.18
C217	180.00	1.33	4.18
C219	180.00	1.33	4.18
C221	180.00	1.33	4.18
C223	90.00	1.83	2.87
C227	104.92	1.83	3.35
C228	83.44	27.33	39.80
C230	92.25	27.33	44.00
C231	87.72	1.83	2.80
C235	90.00	1.83	2.87
C237	90.08	1.83	2.88
C242	90.00	1.83	2.87
C246	76.22	1.83	2.43
C247	72.79	22.53	28.62
C248	112.42	1.83	3.59
C252	180.00	0.83	2.60
C256	112.26	1.83	3.59
C257	55.84	27.33	26.63
C258	101.90	1.83	3.25
C262	180.00	2.33	7.32
C266	180.00	2.50	7.85
C270	107.10	1.83	3.42
C271	72.52	27.33	34.59
C273	90.00	1.83	2.87
C277	90.00	1.33	2.09
C279	20.66	26.66	9.61
C280	20.66	52.67	18.99
C282	20.57	52.67	18.91
C283	20.57	27.33	9.81
C286	90.89	1.83	2.90
C290	90.00	1.83	2.87
C292	109.93	1.83	3.51
C293	10.46	52.67	9.62
C294	79.64	27.33	37.99
C295	90.00	1.83	2.87
C297	90.00	1.83	2.87
C301	98.32	2.00	3.43
C303	90.00	2.00	3.14
C307	180.00	1.83	5.75
C308	180.00	1.83	5.75
C309	180.00	1.83	5.75
C310	90.00	1.83	2.87
C311	180.00	1.83	5.75
C312	180.00	1.83	5.75
C313	90.00	1.83	2.87
C315	90.00	1.33	2.09
C319	90.00	1.33	2.09
C321	90.00	1.33	2.09
C322	90.00	1.33	2.09
C324	90.00	1.33	2.09
C328	90.00	1.83	2.87
C332	180.00	2.33	7.32
C336	180.00	2.33	7.32
C340	180.00	2.33	7.32
C344	180.00	1.83	5.75
C345	180.00	1.83	5.75
C346	180.00	1.83	5.75
C347	180.00	1.83	5.75
C348	90.17	28.00	44.07
C350	89.57	2.00	3.13
C351	89.86	20.00	31.37
C352	88.89	1.33	2.06
C353	36.10	28.08	17.69

BOC CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C354	90.01	28.00	43.99
C356	180.00	3.31	10.39
C358	41.30	52.67	37.97
C359	88.31	5.00	7.71

STATE OF NEVADA
ENGINEER
TODD N. KELLEY
Exp. 6/30/2019
CIVIL
No. 14711
PROFESSIONAL
DATE: 4-14-2019

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	CGW APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 04-14-19
PLOT TIME: 14:36:41

GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894z010.dwg
Todd Kelley

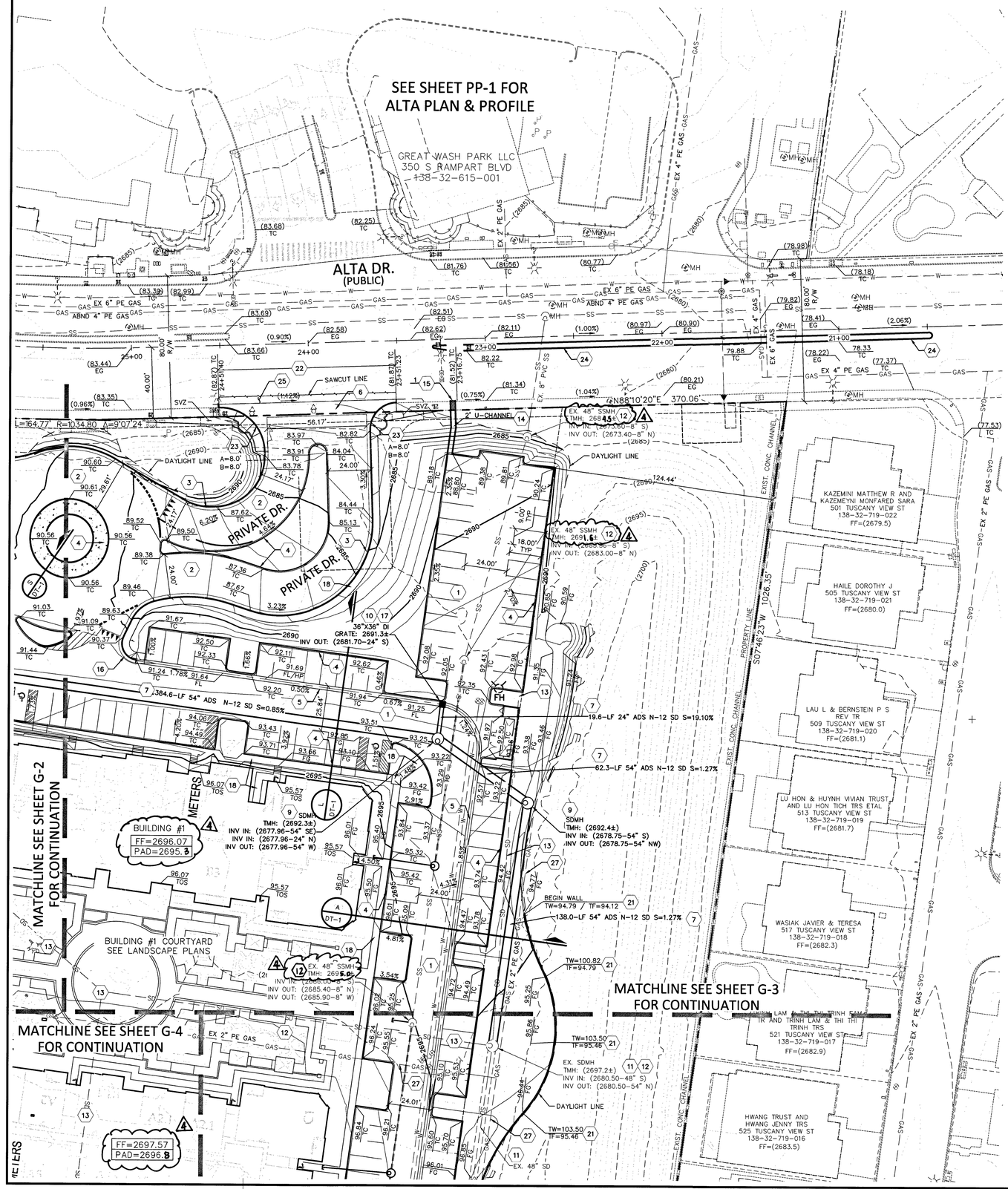
THE CALIDA GROUP

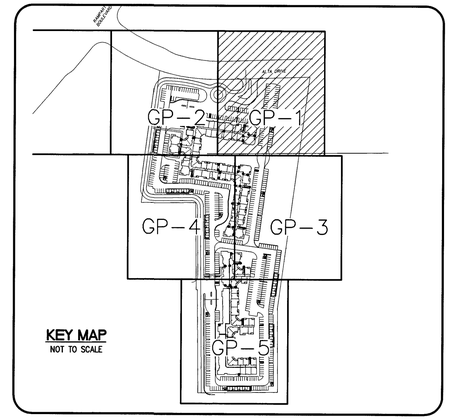
ELYSIAN AT RENAISSANCE

HORIZONTAL CONTROL
LINE AND CURVE TABLES

DRAWING
HC-6
10 OF 37 SHTS

L18-01454 | CLV DWG#: 107V7415





KEY MAP
NOT TO SCALE

NOTE TO CONTRACTOR

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

STORM DRAIN NOTES

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONTRACTOR TO CLEAN-OUT AND CONDUCT A FLOW TEST OF THE EXISTING STORM DRAIN SYSTEM PRIOR TO ROUGH GRADING. NOTIFY ENGINEER OF ANY FLOW ISSUES.

LEGEND

QUANTITY/NUMBER OF DRAIN(S) — 15
CONSTRUCTION NOTE CALL-OUT

NORTH

30' 0' 15' 30'
SCALE: 1" = 30'

CONSTRUCTION NOTES

GRADING

1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
2. CONSTRUCT 3" AC OVER 4" TYPE II AB OVER 6" TYPE I AB 95% COMPACTION.
3. CONSTRUCT 24" L TYPE CURB AND GUTTER PER USDCCA DWG NO. 216.
4. CONSTRUCT "A" CURB PER PER USDCCA DWG NO. 219.
5. CONSTRUCT 30" VALLEY GUTTER PER DETAIL P SHT DT-1.
6. CONSTRUCT 8' CROSS GUTTER PER USDCCA DWG NO. 228.
7. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
8. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
9. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
10. CONSTRUCT JENSEN PRECAST SD DRAIN INLET PER DETAIL A SHT DT-2 WITH TRAFFIC FRAME AND GRATE. SEE PLAN FOR SIZE, USE EXTENSIONS AS NEEDED.
11. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
12. ADJUST TO NEW FINISH GRADE.
13. ABANDON EXISTING STORM DRAIN STRUCTURE.
14. CONSTRUCT 2' OR 4' CONC. U-CHANNEL PER DETAIL O SHT DT-1. SEE PLAN FOR QUANTITY.
15. CONSTRUCT SIDEWALK UNDERDRAIN(S) PER USDCCA DWG NO. 236. SEE PLAN FOR NUMBER. 1 — 15 SEE LEGEND
16. CONSTRUCT L-CURB TO A-CURB TRANSITION PER DETAIL R SHT. DT-1.
17. PLACE STORM WATER QUALITY MANAGEMENT STAMP PER USDCCA DWG. #421 IN CONC. PAD NEXT TO INLET.
18. CONSTRUCT 4' CONC. SIDEWALK PER USDCCA DWG NO. 234.
19. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
20. INSTALL TYPE I SDMH PER USDCCA DWG NO. 403.
21. INSTALL RETAINING WALL PER ARCHITECTURAL PLANS.
22. INSTALL COMMERCIAL DRIVEWAY PER USDCCA DWG NO. 222.1.
23. INSTALL SIDEWALK RAMP CASE I PER USDCCA DWG NO. 235. SEE CONSTRUCTION COORDINATION NOTE THIS SHEET.
24. INSTALL TACK-ON ISLAND CURB PER USDCCA DWG NO. 201.1.S1.
25. INSTALL 4.5" AC OVER 4.0" AGGREGATE BASE PER SOIL'S REPORT.
26. INSTALL MODIFIED TYPE "A" DROP INLET PER USDCCA DWG. #411.1
27. CONTACT SOUTHWEST GAS CORPORATION FOR ABANDONMENT SCHEDULE.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

CONSTRUCTION COORDINATION NOTE

CONSTRUCTION OF TRAFFIC SIGNAL POLES G AND H SHOWN ON SHEET TR-3 SHALL BE COORDINATED WITH DRIVEWAY AND SIDEWALK RAMP CONSTRUCTION TO ENSURE THAT POLE POSITION AND ELEVATION PROVIDE FOR CONCRETE FOUNDATION CAPS THAT ARE FLUSH WITH SIDEWALK AT THE BOTTOM OF SPECIAL CASE I RAMPS AS SHOWN ON THE DRAWING. POLE POSITION AND ELEVATIONS SHALL PROVIDE FOR PROWAG-COMPLIANT CLEARANCE (4-FT MIN) AND PPB REACH (10"MAX).

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	NAVD 88	820.819 (M)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.
		2692.97 (FT.)	

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS-4957 ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

TODD N. KELLEY P.E. 14711 — 02-14-19 DATE

Call before you Dig Avoid cutting underground utility lines: it's costly. Call 811 or 1-800-227-2600

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N KELLEY — Exp. 6/30/2019 — CIVIL — No. 14711 — DATE:

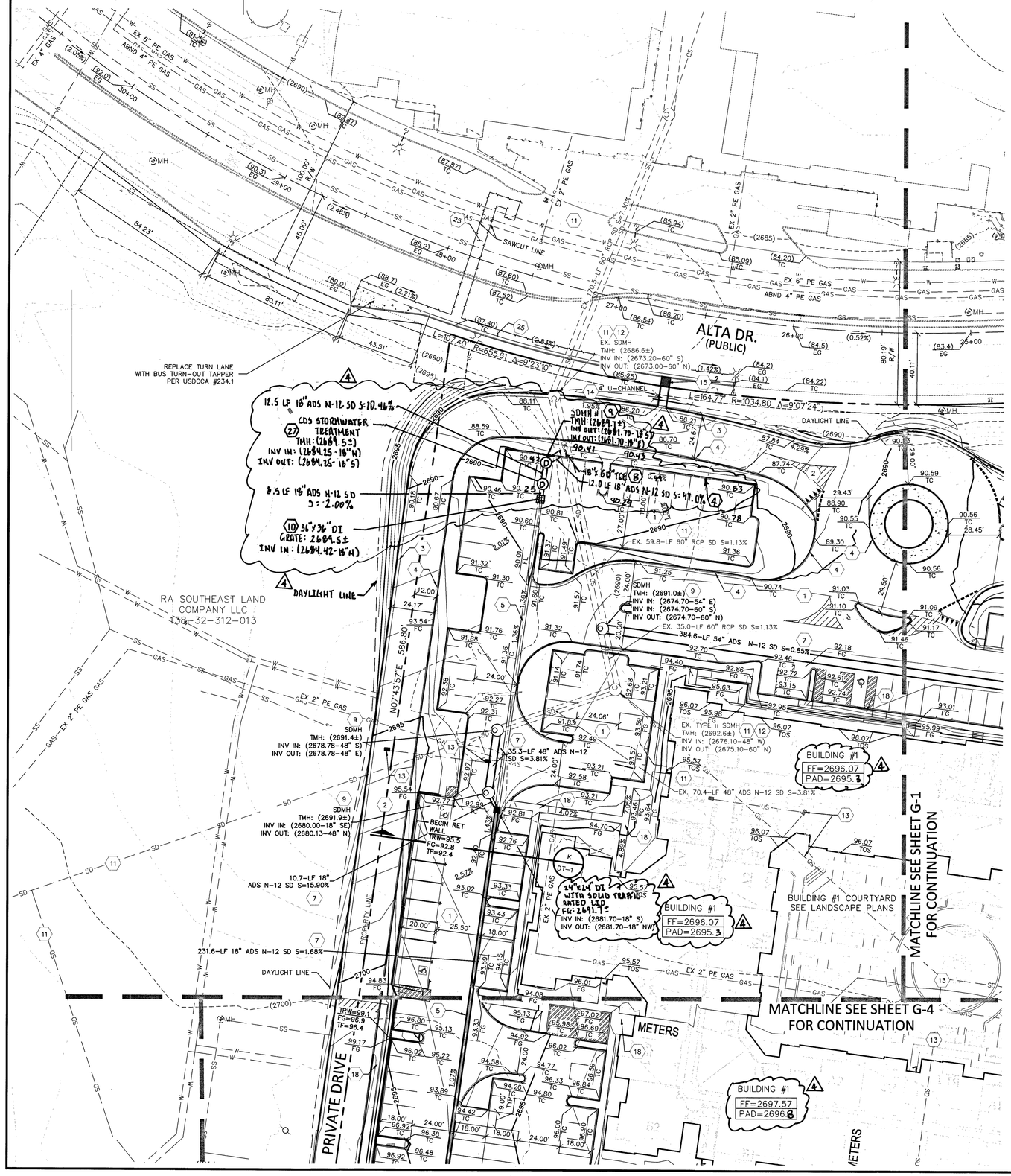
REV	DATE	DESCRIPTION	AGEN. APP	DATE	GCW APP
1	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SDMH ADJUST RIM TO GRADE			

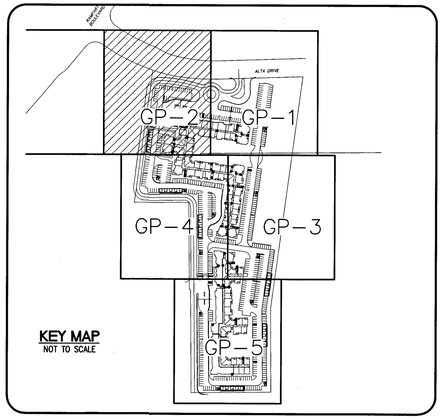
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:31:28

GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\8942c011.dwg
Yung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
GRADING PLAN 1

DRAWING GP-1
11 OF 37 SHTS





KEY MAP
NOT TO SCALE

NOTE TO CONTRACTOR

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LEGEND

QUANTITY/NUMBER → 15
CONSTRUCTION NOTE CALL-OUT

CONSTRUCTION NOTES

GRADING

1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
2. CONSTRUCT 3" AC OVER 4" TYPE II AB OVER 6" TYPE I AB 95% COMPACTION.
3. CONSTRUCT 24" L TYPE CURB AND GUTTER PER USDCCA DWG NO. 216.
4. CONSTRUCT "A" CURB PER PER USDCCA DWG NO. 219.
5. CONSTRUCT 30" VALLEY GUTTER PER DETAIL P SHT DT-1.
6. CONSTRUCT 8' CROSS GUTTER PER USDCCA DWG NO. 228.
7. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
8. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
9. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
10. CONSTRUCT JENSEN PRECAST SD DRAIN INLET PER DETAIL A SHT DT-2 WITH TRAFFIC FRAME AND GRATE. SEE PLAN FOR SIZE, USE EXTENSIONS AS NEEDED.
11. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
12. ADJUST TO NEW FINISH GRADE.
13. ABANDON EXISTING STORM DRAIN STRUCTURE. SEE LEGEND
14. CONSTRUCT 2' OR 4' CONC. U-CHANNEL PER DETAIL O SHT DT-1. SEE PLAN FOR QUANTITY. 1/15
15. CONSTRUCT SIDEWALK UNDERDRAIN(S) PER USDCCA DWG NO. 236. SEE PLAN FOR NUMBER.
16. CONSTRUCT L-CURB TO A-CURB TRANSITION PER DETAIL R SHT. DT-1.
17. PLACE STORM WATER QUALITY MANAGEMENT STAMP PER USDCCA DWG. #421 IN CONC. PAD NEXT TO INLET.
18. CONSTRUCT 4' CONC. SIDEWALK PER USDCCA DWG NO. 234.
19. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
20. INSTALL TYPE I SDMH PER USDCCA DWG NO. 403.
21. INSTALL RETAINING WALL PER ARCHITECTURAL PLANS.
22. INSTALL COMMERCIAL DRIVEWAY PER USDCCA DWG NO. 222.1.
23. INSTALL SIDEWALK RAMP CASE I PER USDCCA DWG NO. 235.
24. INSTALL TACK-ON ISLAND CURB PER USDCCA DWG NO. 201.1.S1.
25. INSTALL 4.5" AC OVER 4.0" AGGREGATE BASE PER SOIL'S REPORT.
26. INSTALL MODIFIED TYPE "A" DROP INLET PER USDCCA DWG. #411.1
4 27. INSTALL CDS STORWATER TREATMENT PER MANUFACTURER'S DESIGN.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

NORTH

30' 0' 15' 30'
SCALE: 1" = 30'

BENCHMARK

STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	820.819 (M) / 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 or 1-800-227-2600

FAST — Call before you UnderGround 1-702-432-5300 — FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS-4957 ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

TODD N. KELLEY P.E. 14711 — 02-14-19 DATE

L18-01454 | CLV DWG#: 107V7415

ENGINEER - STATE OF NEVADA — TODD N. KELLEY — No. 14711 — CIVIL — PROFESSIONAL — Exp. 6/30/2019 — DATE: 2-14-19

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP
A	9/19/18	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SDMH ADJUST RIM TO GRADE	Don Hartman		

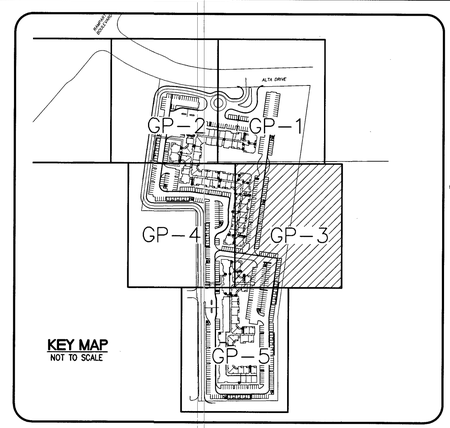
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:31:48

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\894z012 - GP-2.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
GRADING PLAN 2

DRAWING GP-2
12 OF 37 SHTS





KEY MAP
NOT TO SCALE

NOTE TO CONTRACTOR

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

STORM DRAIN NOTES

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONTRACTOR TO CLEAN–OUT AND CONDUCT A FLOW TEST OF THE EXISTING STORM DRAIN SYSTEM PRIOR TO ROUGH GRADING. NOTIFY ENGINEER OF ANY FLOW ISSUES.

LEGEND

QUANTITY/NUMBER → 15
CONSTRUCTION NOTE CALL–OUT

CONSTRUCTION NOTES

GRADING

1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
2. CONSTRUCT 3" AC OVER 4" TYPE II AB OVER 6" TYPE I AB 95% COMPACTION.
3. CONSTRUCT 24" L TYPE CURB AND GUTTER PER USDCCA DWG NO. 216.
4. CONSTRUCT "A" CURB PER PER USDCCA DWG NO. 219.
5. CONSTRUCT 30" VALLEY GUTTER PER DETAIL P SHT DT–1.
6. CONSTRUCT 8' CROSS GUTTER PER USDCCA DWG NO. 228.
7. INSTALL ADS N–12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
8. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
9. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
10. CONSTRUCT JENSEN PRECAST SD DRAIN INLET PER DETAIL A SHT DT–2 WITH TRAFFIC FRAME AND GRATE. SEE PLAN FOR SIZE, USE EXTENSIONS AS NEEDED.
11. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
12. ADJUST TO NEW FINISH GRADE.
13. ABANDON EXISTING STORM DRAIN STRUCTURE.
14. CONSTRUCT 2' OR 4' CONC. U–CHANNEL PER DETAIL O SHT DT–1. SEE PLAN FOR QUANTITY.
15. CONSTRUCT SIDEWALK UNDERDRAIN(S) PER USDCCA DWG NO. 236. SEE PLAN FOR NUMBER.
16. CONSTRUCT L–CURB TO A–CURB TRANSITION PER DETAIL R SHT. DT–1.
17. PLACE STORM WATER QUALITY MANAGEMENT STAMP PER USDCCA DWG. #421 IN CONC. PAD NEXT TO INLET.
18. CONSTRUCT 4' CONC. SIDEWALK PER USDCCA DWG NO. 234.
19. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT–2.
20. INSTALL TYPE I SDMH PER USDCCA DWG NO. 403.
21. INSTALL RETAINING WALL PER ARCHITECTURAL PLANS.
22. INSTALL COMMERCIAL DRIVEWAY PER USDCCA DWG NO. 222.1.
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27. INSTALL LOS STORMWATER TEATMENT PER MANUFACTURER'S DESIGN.

SEE LEGEND

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

NORTH
30' 0' 15' 30'
SCALE: 1" = 30'

BENCHMARK

STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	SET 820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE–OBSERVED 2005–2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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FAST — Call before you UnderGround 1–702–432–5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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TODD N. KELLEY P.E. 14711 — 02–14–19 DATE

L18–01454 | CLV DWG#: 107V7415

STATE OF NEVADA — ENGINEER — TODD N. KELLEY — No. 14711 — CIVIL — Exp. 6/30/2019 — DATE: 2-14-19

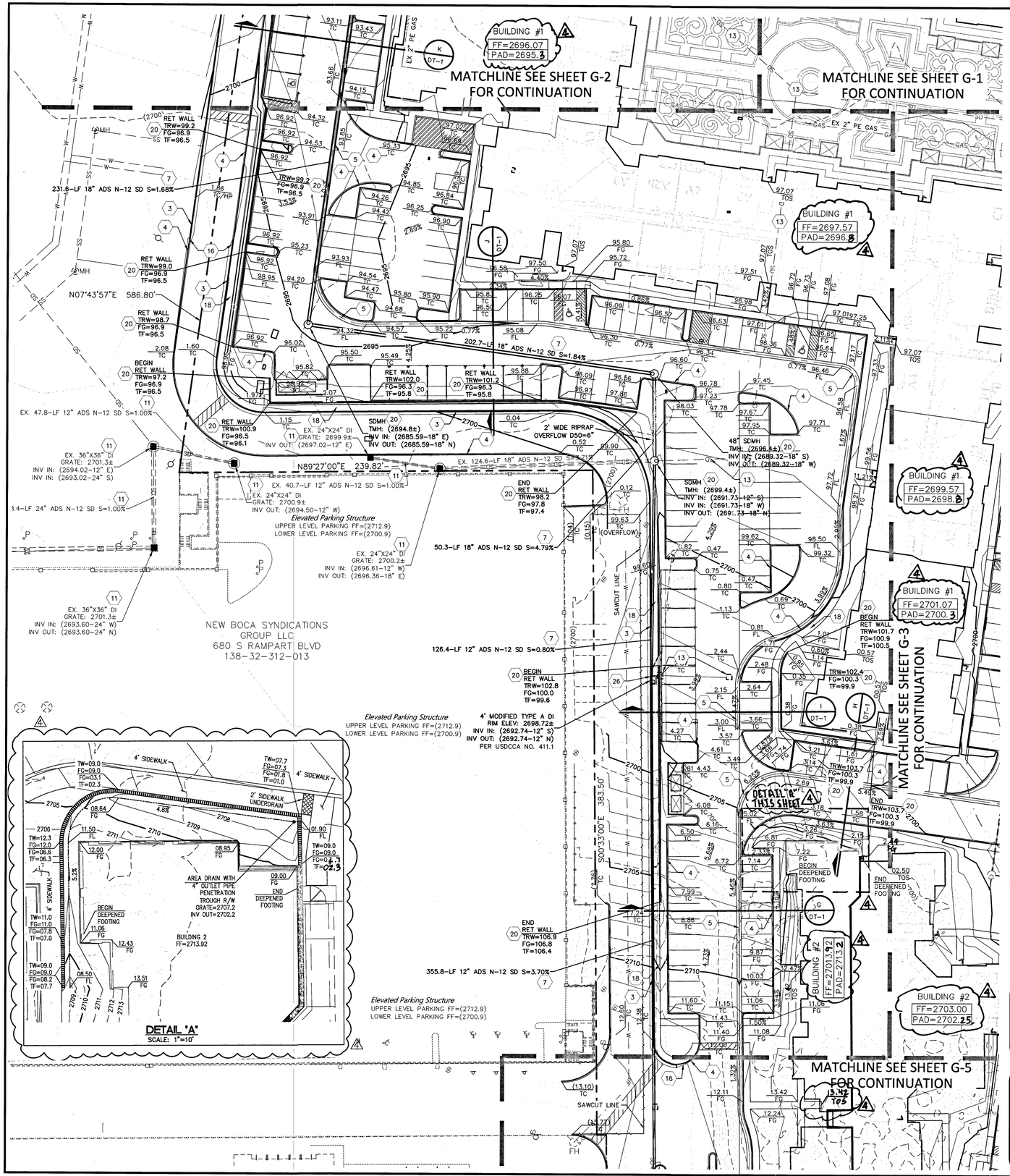
REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP
1	9/19/19	ADD STRUCTURE NO., REVISE ST & PAD ELEVATION, ADD SSMH & SDMH ABANDON PER TO GRADE			

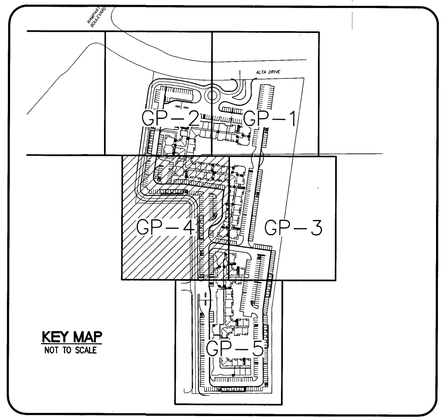
PROJECT NO. 894–002
DESIGN:
DRAWN:
CHECK:
PLOT DATE 02–14–19
PLOT TIME 14:32:07

GCW
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146
T: 702.804.2000 F: 702.804.2299
ENGINEERS \ SURVEYORS gcwengineering.com
F:\Projects\800\894–002\DWG\Production\8942c013 – GP–3.dwg Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
GRADING PLAN 3

DRAWING GP–3
13 OF 37 SHTS





NOTE TO CONTRACTOR

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

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LEGEND

QUANTITY/NUMBER → 15

CONSTRUCTION NOTE CALL-OUT

CONSTRUCTION NOTES

GRADING

1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
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4. CONSTRUCT "A" CURB PER PER USDCCA DWG NO. 219.
5. CONSTRUCT 30" VALLEY GUTTER PER DETAIL P SHT DT-1.
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7. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
8. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
9. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
10. CONSTRUCT JENSEN PRECAST SD DRAIN INLET PER DETAIL A SHT DT-2 WITH TRAFFIC FRAME AND GRATE. SEE PLAN FOR SIZE, USE EXTENSIONS AS NEEDED.
11. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
12. ADJUST TO NEW FINISH GRADE.
13. ABANDON EXISTING STORM DRAIN STRUCTURE. SEE LEGEND
14. CONSTRUCT 2' OR 4' CONC. U-CHANNEL PER DETAIL O SHT DT-1. SEE PLAN FOR QUANTITY. 1 → 15
15. CONSTRUCT SIDEWALK UNDERDRAIN(S) PER USDCCA DWG NO. 236. SEE PLAN FOR NUMBER.
16. CONSTRUCT L-CURB TO A-CURB TRANSITION PER DETAIL R SHT. DT-1.
17. PLACE STORM WATER QUALITY MANAGEMENT STAMP PER USDCCA DWG. #421 IN CONC. PAD NEXT TO INLET.
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26. INSTALL MODIFIED TYPE "A" DROP INLET PER USDCCA DWG. #411.1

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	S E T	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

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SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

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TODD N. KELLEY P.E. 14711 — 02-14-19 DATE

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 14711 — CIVIL — Exp. 6/30/2019 — DATE: 2-14-19

REV	DATE	DESCRIPTION	DSGN APP	DRWN APP	AGCY APP	DATE
1	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SWGAS & SDMH ADJUST TO GRADE				

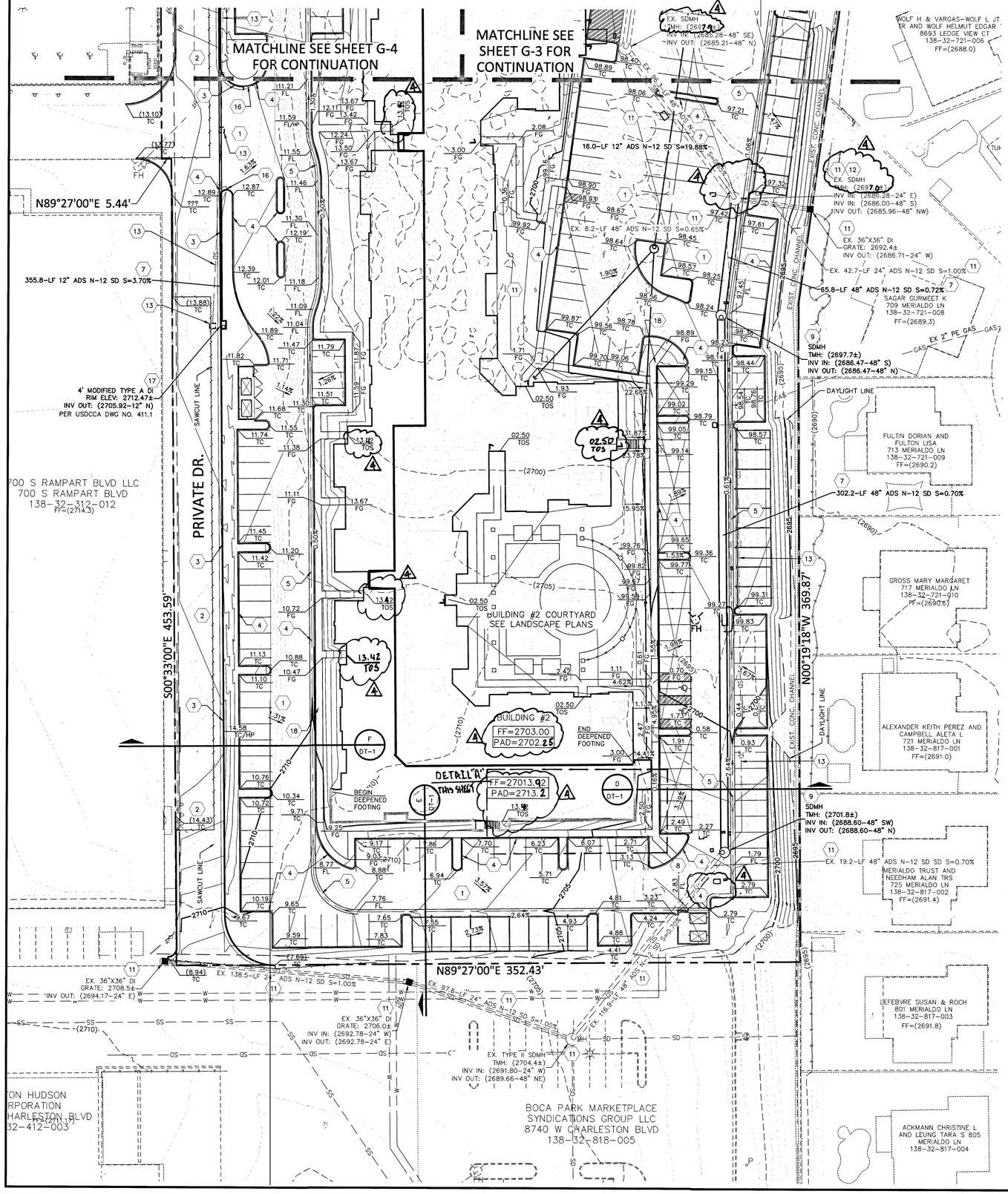
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:32:31

GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894p014 - GP-4.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
GRADING PLAN 4

DRAWING GP-4
14 OF 37 SHTS

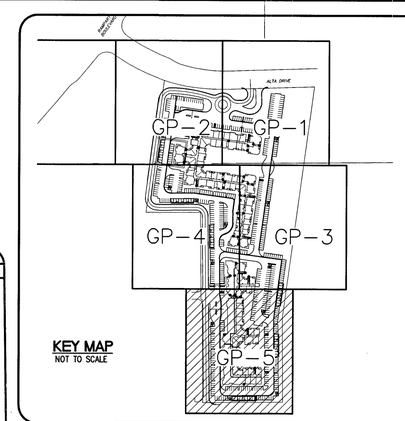


CONSTRUCTION NOTES

GRADING

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12. ADJUST TO NEW FINISH GRADE. ⚠4
13. ABANDON EXISTING STORM DRAIN STRUCTURE.
14. CONSTRUCT 2' OR 4' CONC. U-CHANNEL PER DETAIL O SHT DT-1. SEE PLAN FOR SIZE.
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NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES



KEY MAP
NOT TO SCALE

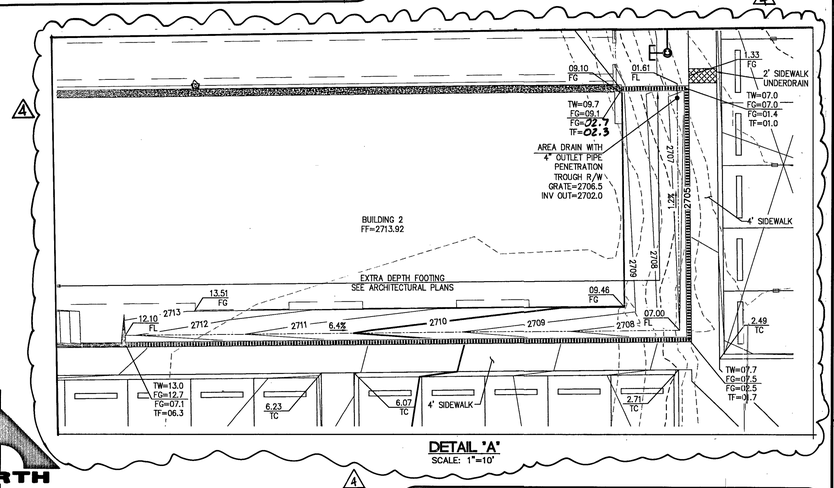
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DETAIL "A"
SCALE: 1"=10'

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	S E T	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

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TODD N. KELLEY P.E. 14411 — 02-14-19 DATE

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L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — Exp. 6/30/2019 — CIVIL — No. 14411 — DATE: 2-14-19

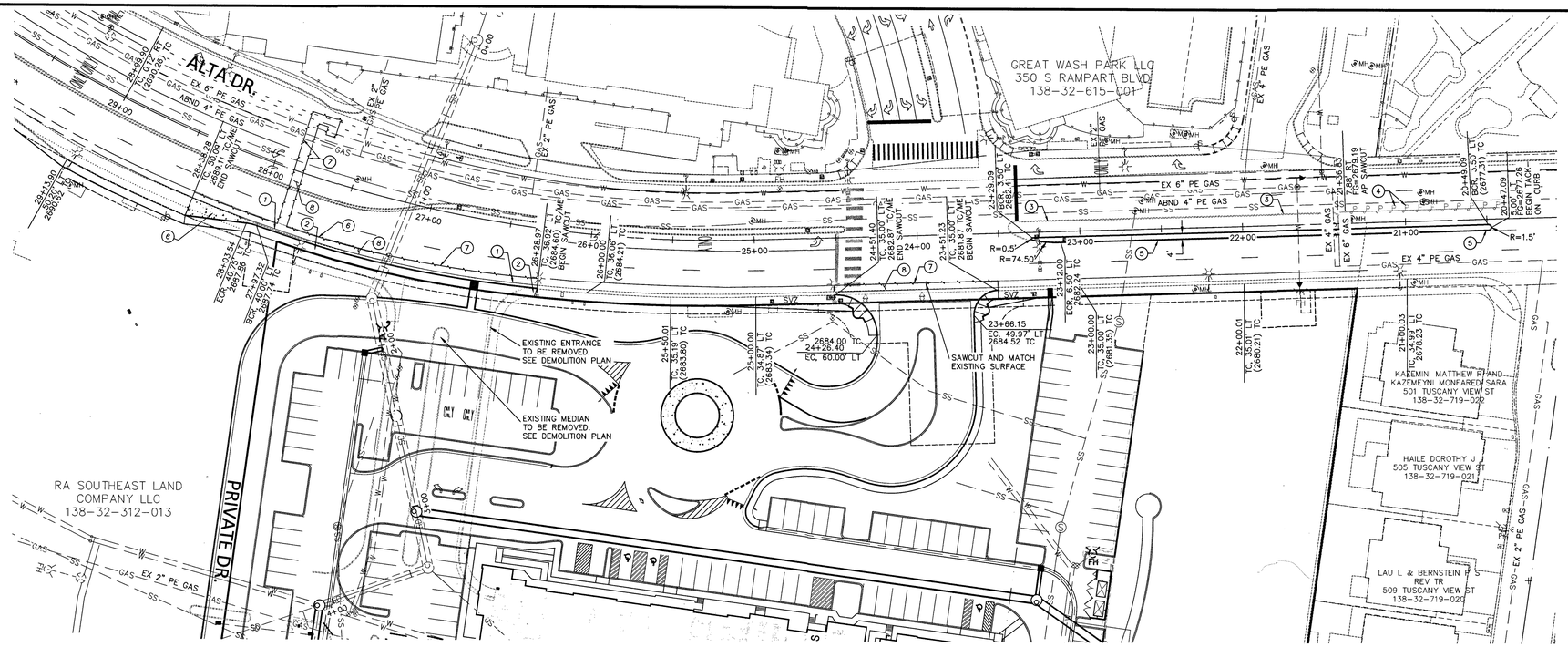
REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP
1	3/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSWGP & SSMP, ADJUST RIM TO GRADE			

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:32:48

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\8942c015 - GP-5.dwg
Hung Le

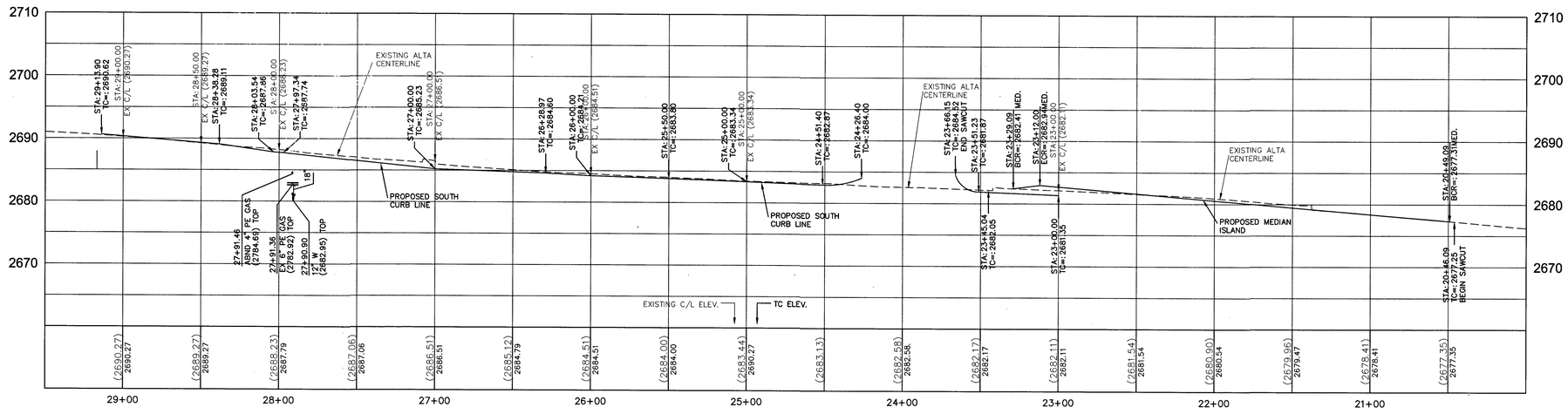
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
GRADING PLAN 5

DRAWING GP-5
15 OF 37 SHTS



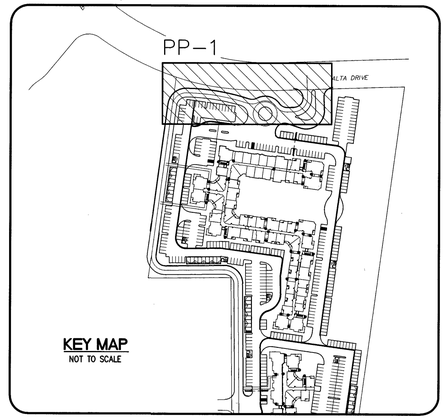
ALTA DR. PLAN VIEW

SCALE: 1"=40' HORIZONTAL



ALTA DRIVE SOUTH CURB & PROPOSED MEDIAN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=10' VERTICAL



KEY MAP
NOT TO SCALE

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OR 1-800-227-2600

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NORTH

40' 0' 20' 40'
SCALE: 1" = 40'

CONSTRUCTION NOTE

1. INSTALL 24" "L" TYPE CURB PER USDCCA DWG NO. 216.
2. CONSTRUCT 5' WIDE CONCRETE SIDEWALK PER USDCCA DWG NO. 234.
3. REMOVE EXISTING TACK-ON CURB MEDIAN.
4. REMOVE EXISTING BUMPER BLOCKS & DEFECTOR POSTS.
5. CONSTRUCT NEW TACK-ON CURB MEDIAN PER USDCCA DWG NO. 220.
6. REPLACE TURN LANE WITH BUS TURN OUT TAPPER PER USDCCA DWG NO. 234.1.
7. SAWCUT & MATCH EXISTING SURFACE PER CCAUSD 500.5 & 503.
8. INSTALL 4.5" AC OVER 4.0" TYPE II AGGREGATE BASE.

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19

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CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 14471 — CIVIL — Exp. 6/30/2019
DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

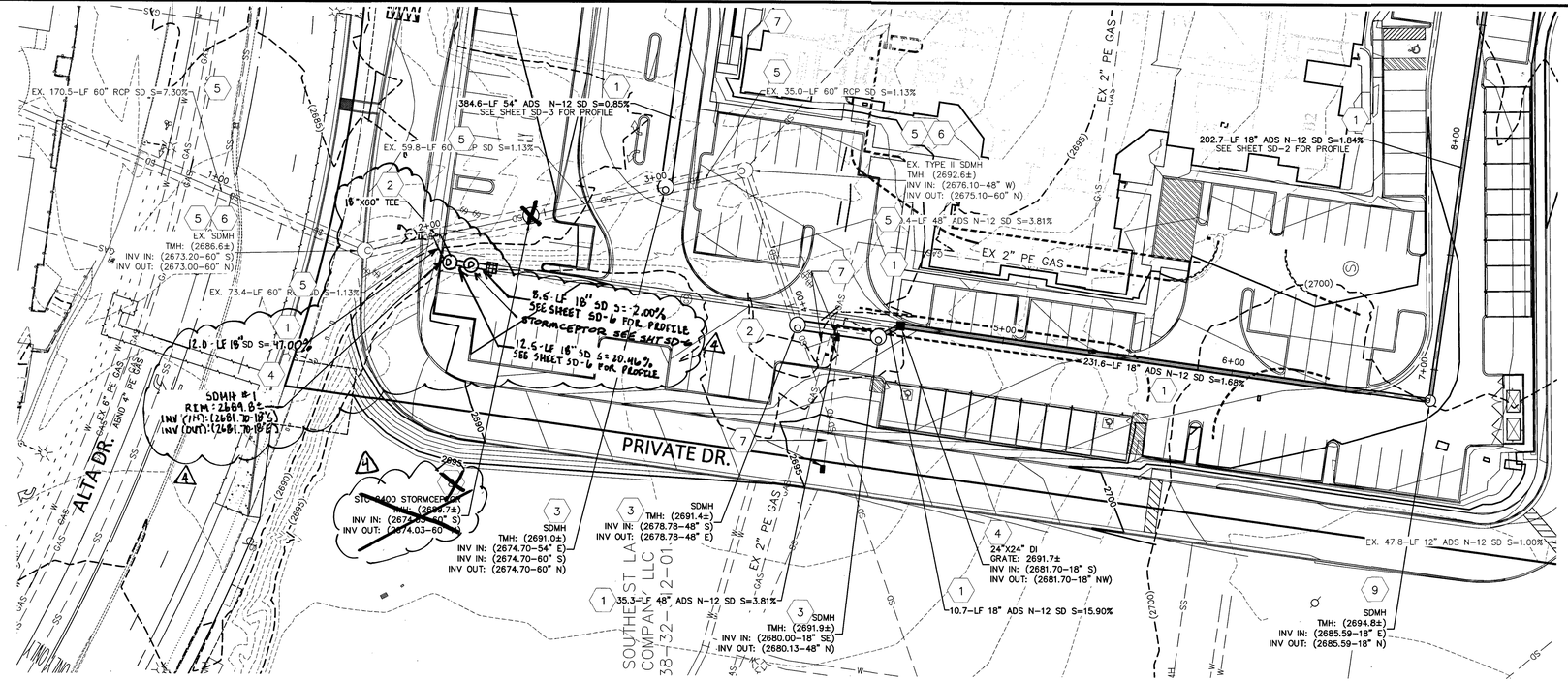
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE 02-14-19
PLOT TIME 14:33:12

GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
ENGINEERS \ SURVEYORS gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894zc016 - PP-1.dwg
Hung Le

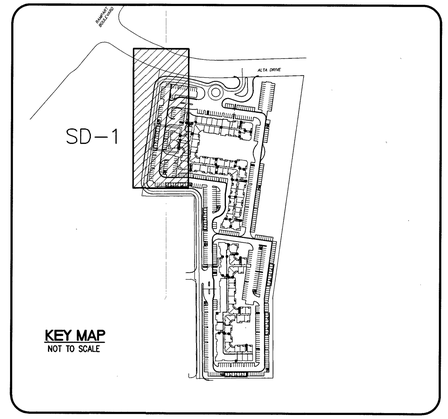
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
ALTA PLAN AND PROFILE

DRAWING
PP-1
16 OF 37 SHTS



SD-1 PLAN VIEW

SCALE: 1"=30' HORIZONTAL



NORTH

30' 0' 15' 30'

SCALE: 1" = 30'

APPROVED FOR CONSTRUCTION

SOUTHWEST GAS CORP. — DATE 11/28/19

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

FAST Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N–12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSEN PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D–2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. ~~INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL 6 SHT DT 2.~~
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

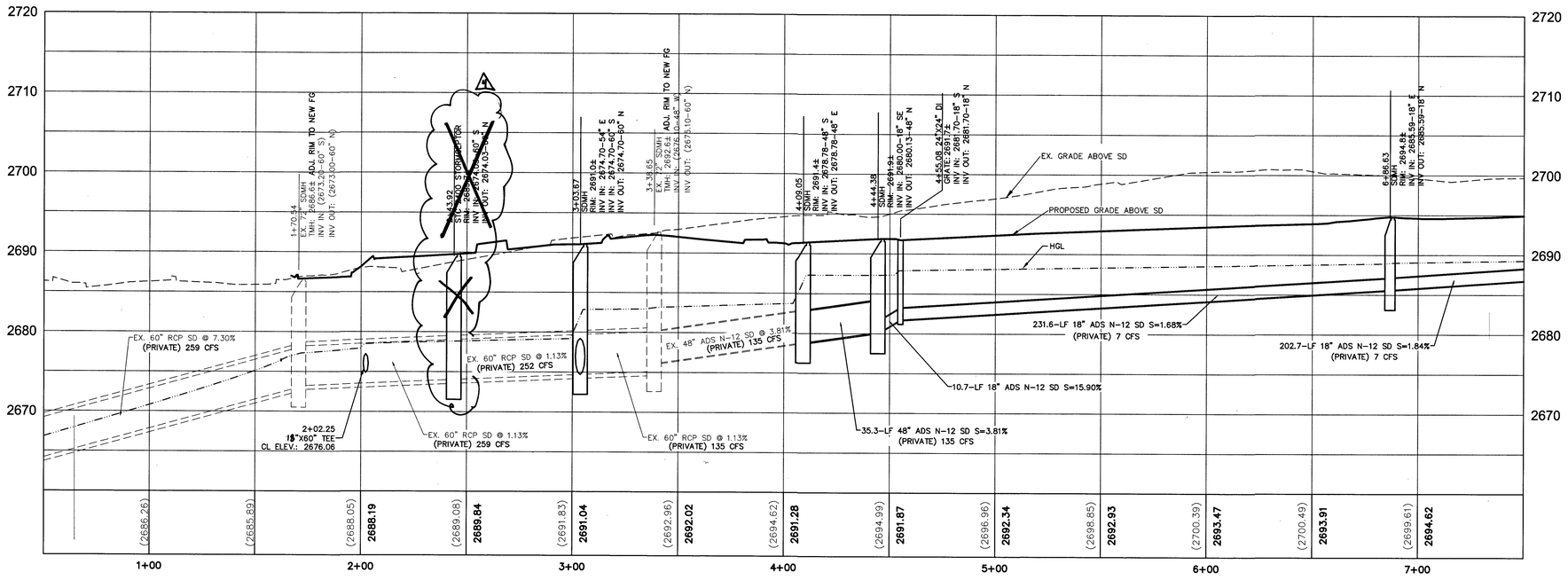
STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	S E T 820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE–OBSERVED 2005–2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.



SD-1 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL

L18–01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — KELLY N. KELLY — No. 14737 — CIVIL — DATE: 2-14-19

REV	DATE	DESCRIPTION	AGEN APP	DATE	CCW APP
3	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSWT & SDMH ADJUST RIM TO GRADE			

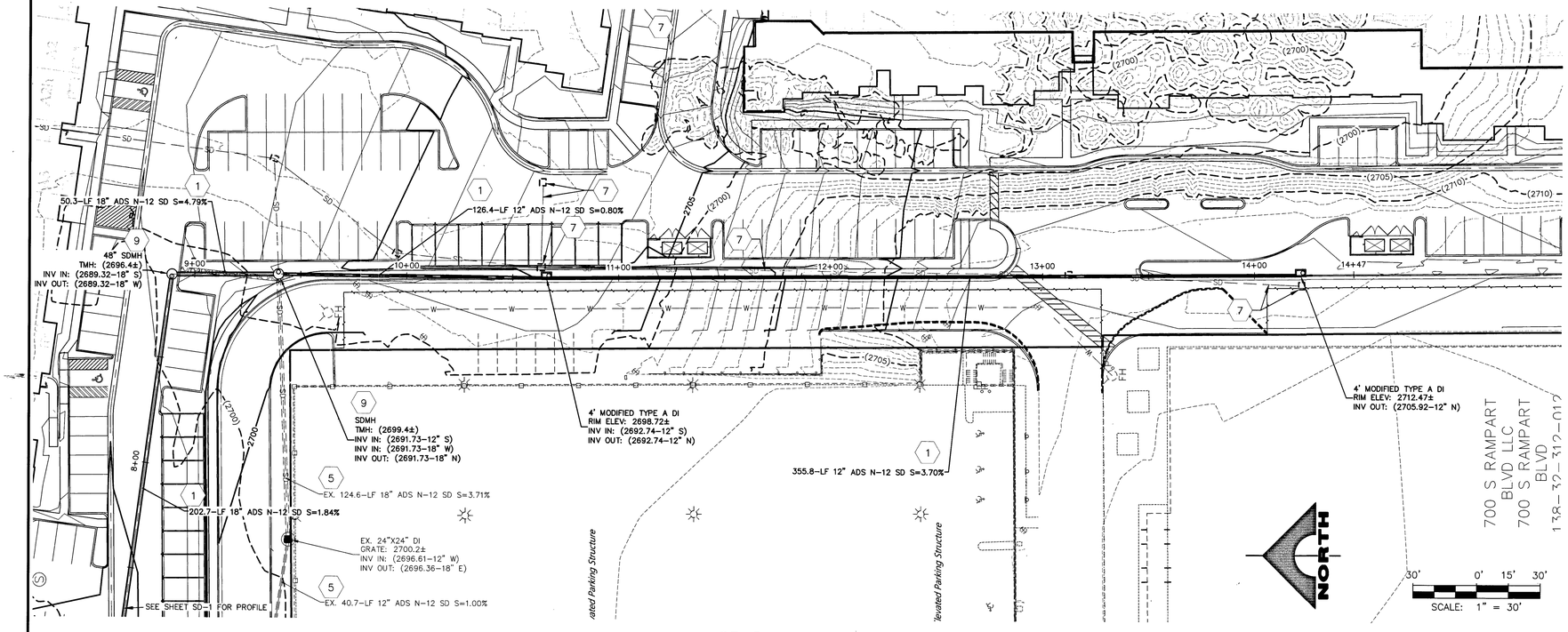
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:33:34

GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894sd017 – SD–1.dwg
Hung Le

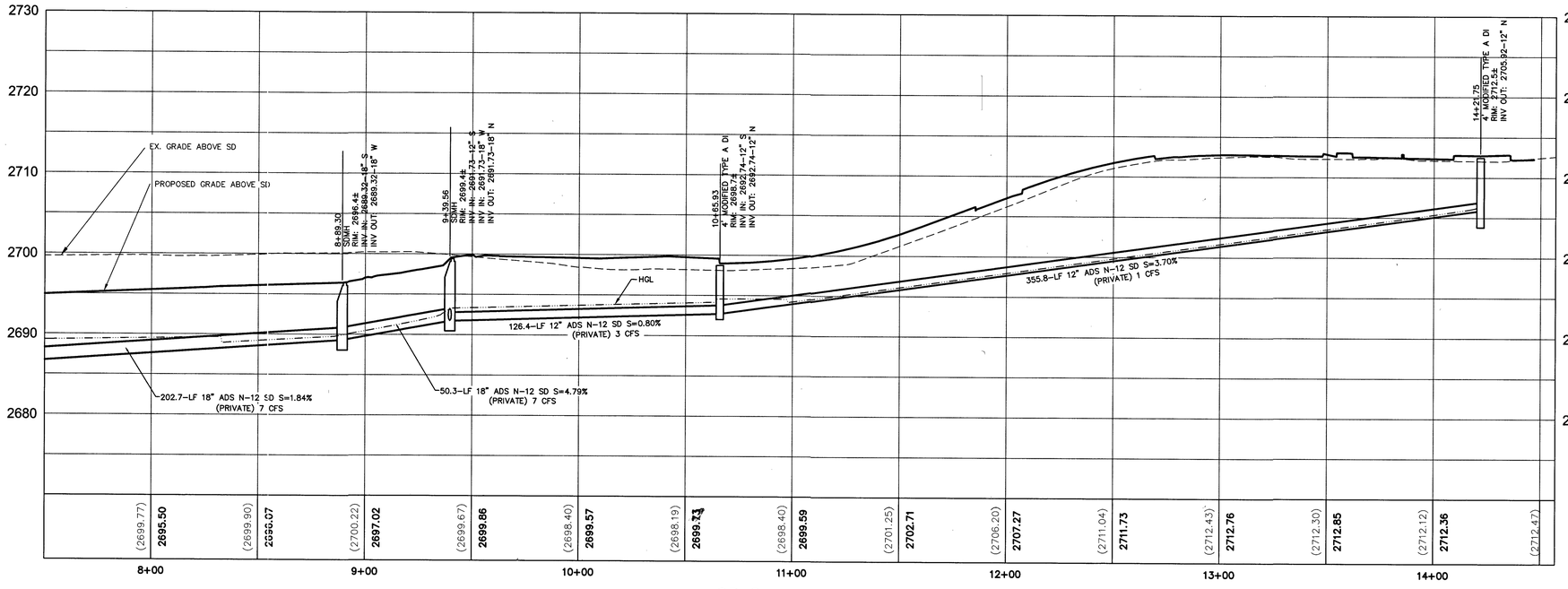
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 1

DRAWING
SD-1
17 OF 37 SHTS



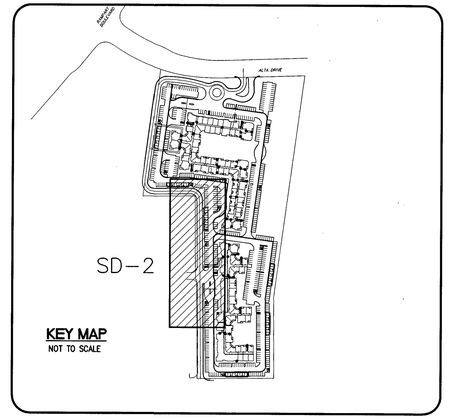
SD-2 PLAN VIEW

SCALE: 1"=30' HORIZONTAL



SD-2 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600

FAST. Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT (EXCEPT PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D-2, SEE PLAN FOR SIZE, USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	S E T	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — Exp. 9/30/2019 — CIVIL — No. 14711 — DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

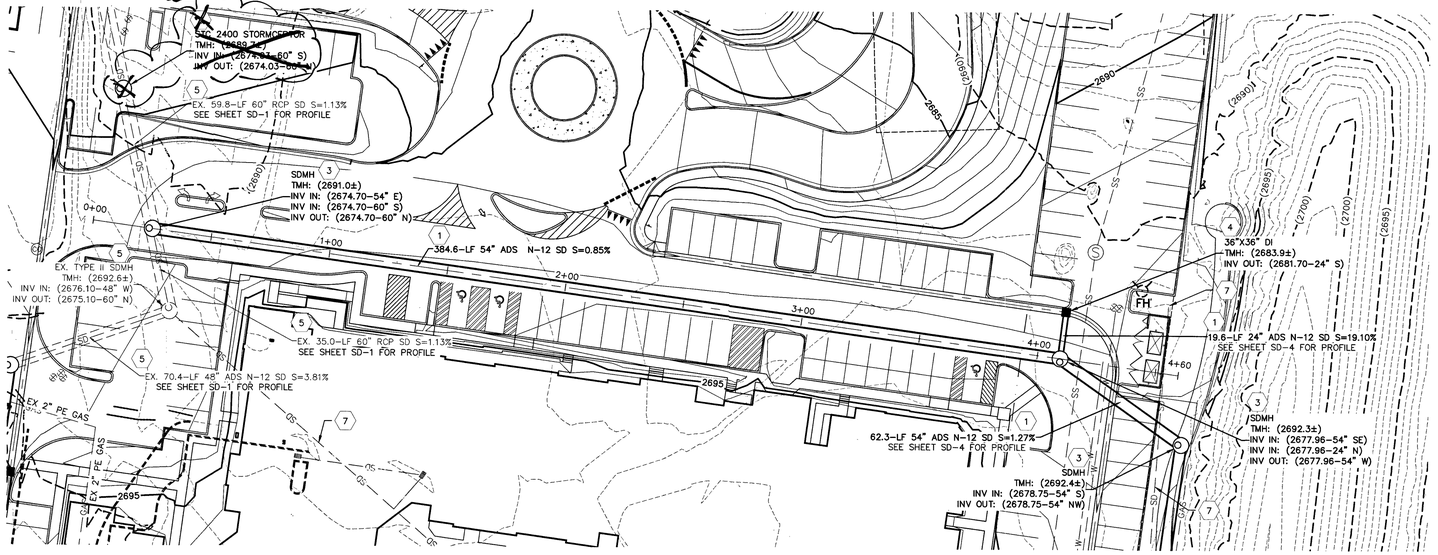
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:34:03

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894zc018 - SD-2.dwg
Hung.Le

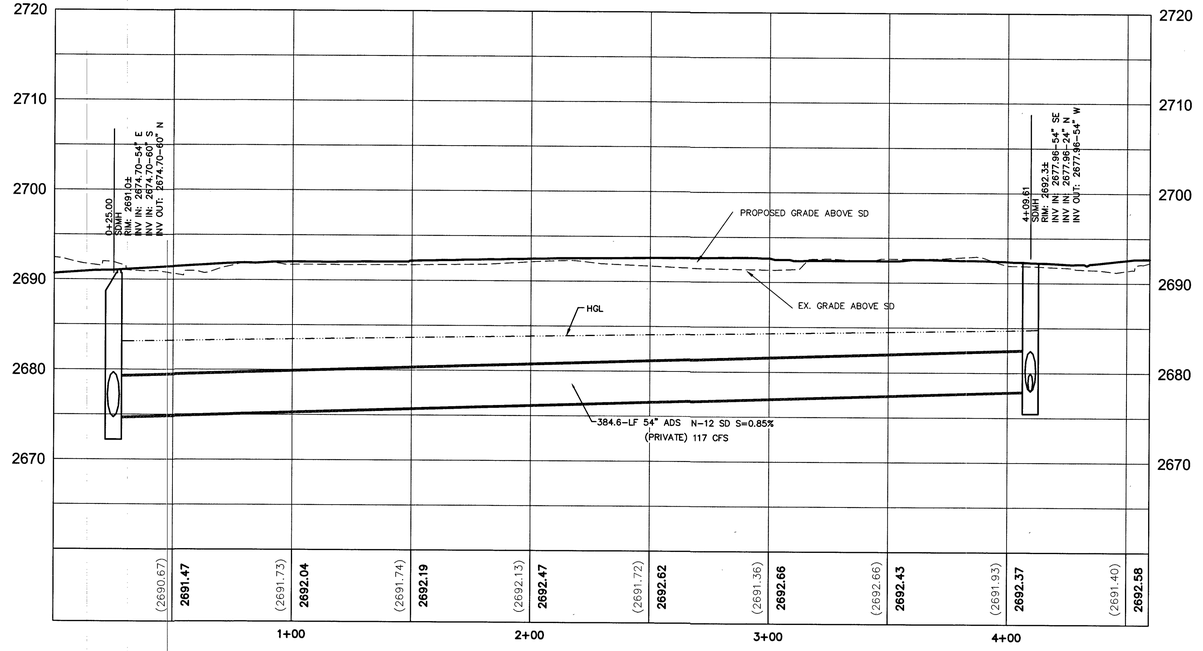
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 2

DRAWING
SD-2
18 OF 37 SHTS



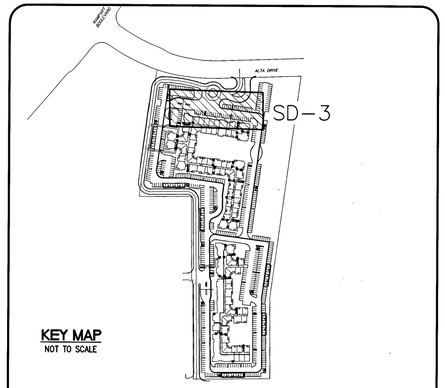
SD-3 PLAN VIEW

SCALE: 1"=30' HORIZONTAL



SD-3 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



KEY MAP
NOT TO SCALE

NORTH

30' 0' 15' 30'
SCALE: 1" = 30'

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2800

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N–12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSEN PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D–2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT–2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE–OBSERVED 2005–2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

APPROVED FOR CONSTRUCTION

SOUTHWEST GAS CORP. DATE 03/28/19

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — Exp. 6/30/2019 — CIVIL — No. 11871 — DATE: 2-14-19

REV	DATE	DESCRIPTION	AGEN. APP	DATE	GCW APP
4	3-4-19	RELOCATE STORMCEPTOR			

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:34:28

GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
ENGINEERS \ SURVEYORS
F:\Projects\800\894-002\DWG\Production\8942c019 - SD-3.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 3

DRAWING
SD-3
19 OF 37 SHTS

L18-01454 | CLV DWG#: 107V7415



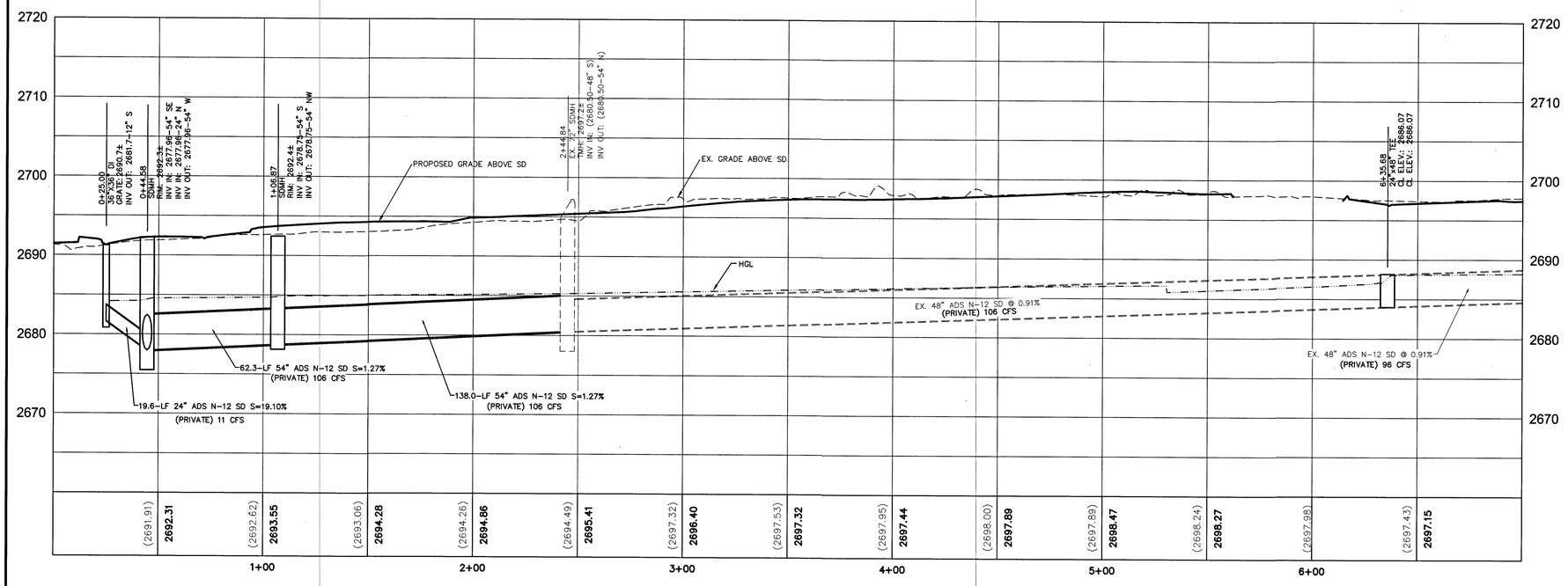
SD-4 PLAN VIEW

SCALE: 1"=30' HORIZONTAL

NORTH

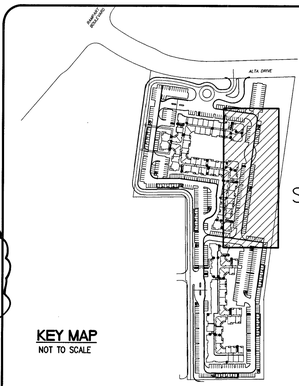
30' 0' 15' 30'

SCALE: 1" = 30'



SD-4 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



KEY MAP
NOT TO SCALE

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. DATE 02/25/19

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

FAST Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSEN PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D-2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.
10. INSTALL CDS STORMWATER TREATMENT PER MANUFACTURER'S DESIGN.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18-01454 | CLV DWG#: 107V7415

ENGINEER'S STAMP OF NEVADA — TODD N. KELLEY — Exp. 9/30/2019 — CIVIL — No. 14711 — DATE: 2-14-19

REV	DATE	DESCRIPTION	AGEN APP	DATE	GOW APP
1	2/15/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMP & SDMH ADJUST RIM TO GRADE.			

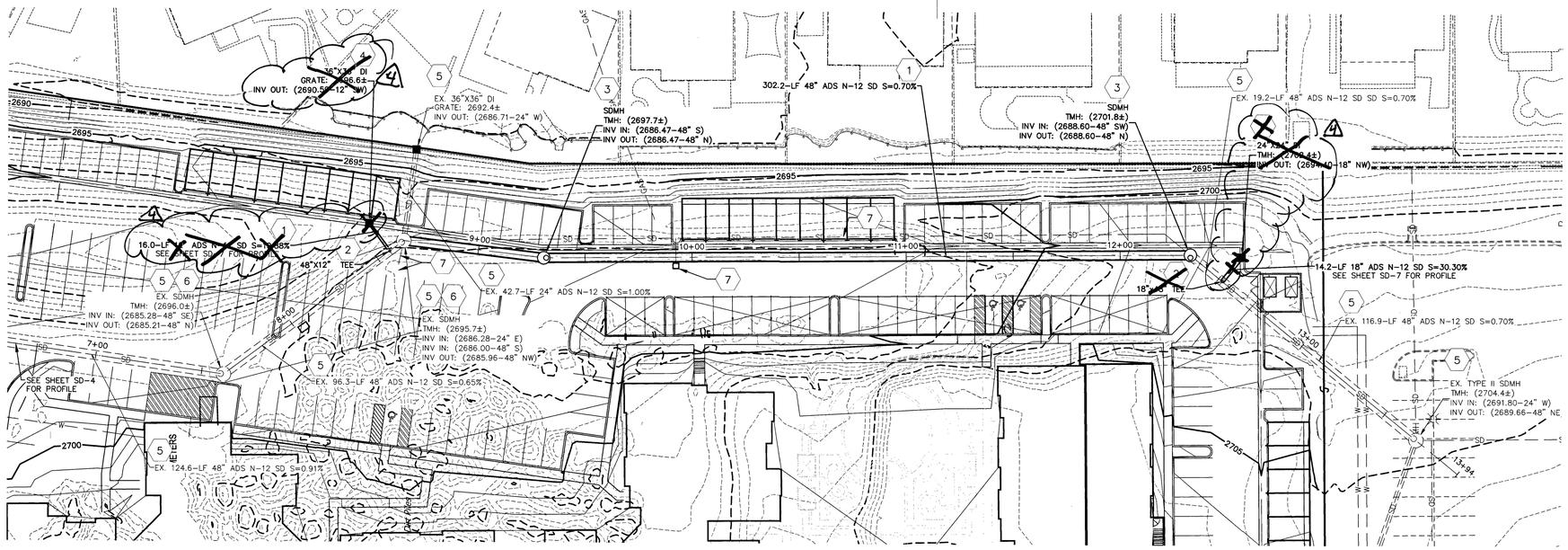
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:34:54

GCV
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894x020 - SD-4.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 4

DRAWING
SD-4
20 OF 37 SHTS



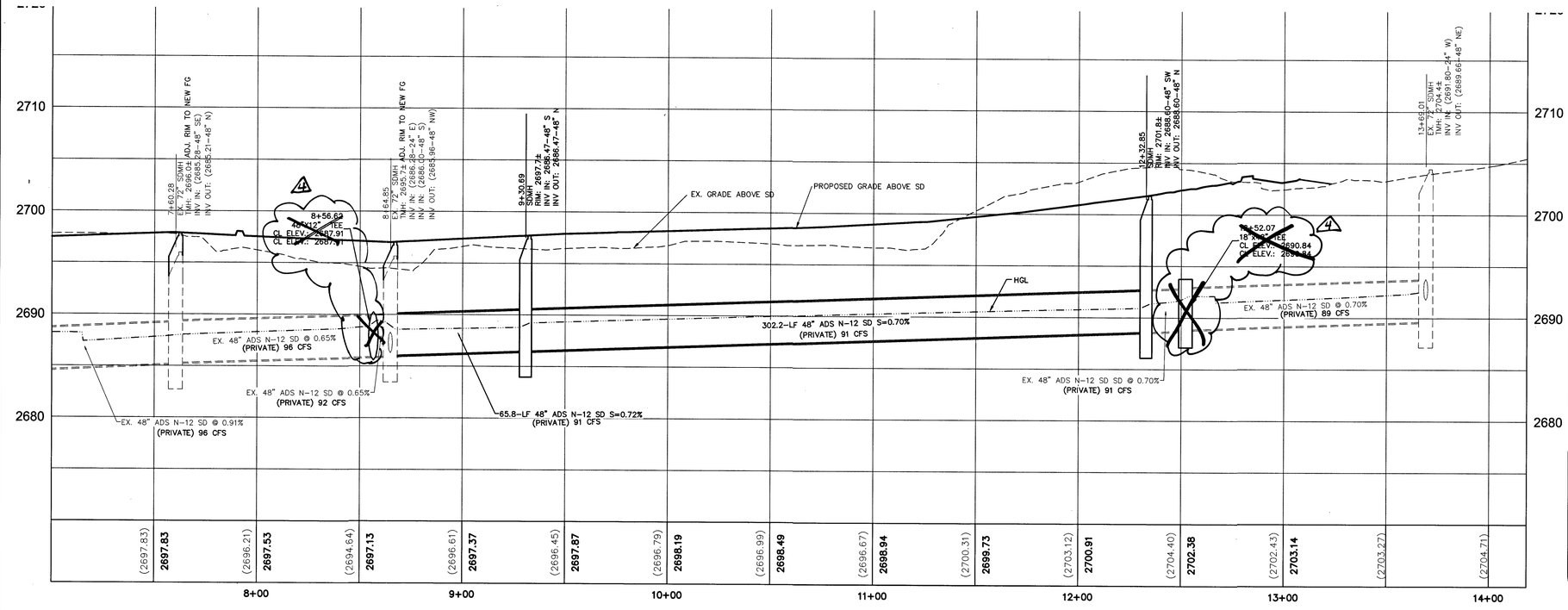
SD-5 PLAN VIEW

SCALE: 1"=30' HORIZONTAL

NORTH

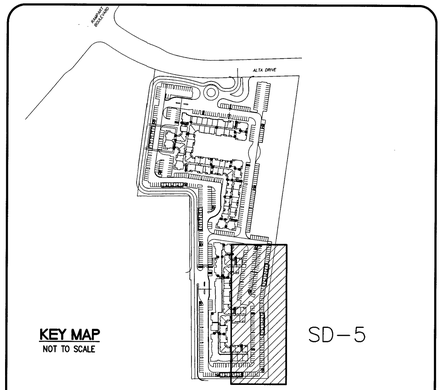
30' 0' 15' 30'

SCALE: 1" = 30'



SD-5 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2800

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N–12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSEN PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D–2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT–2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE–OBSERVED 2005–2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18–01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N KELLEY — No. 9871 — Exp. 6/30/2019 — CIVIL — DATE: 2-14-19

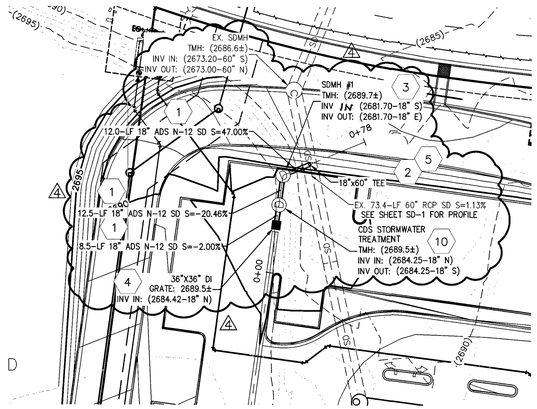
REV	DATE	DESCRIPTION	AKERN APP	DATE	GCW APP	DATE
A	4-17-18	Rebrand Dr, SD #'s & TEE				

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:35:15

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\894\894-002\DWG\Production\894s2c021 – SD–5.dwg
Hung La

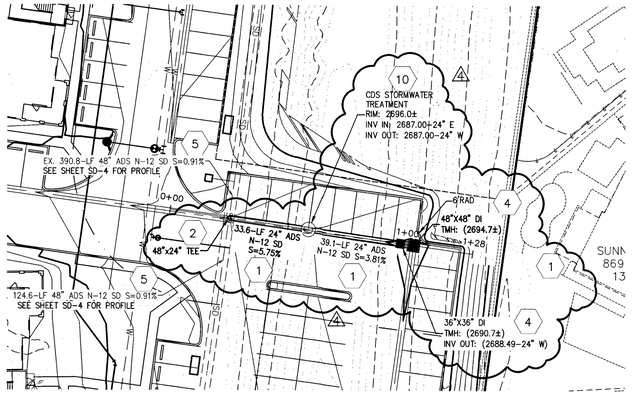
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 5

DRAWING
SD-5
21 OF 37 SHTS



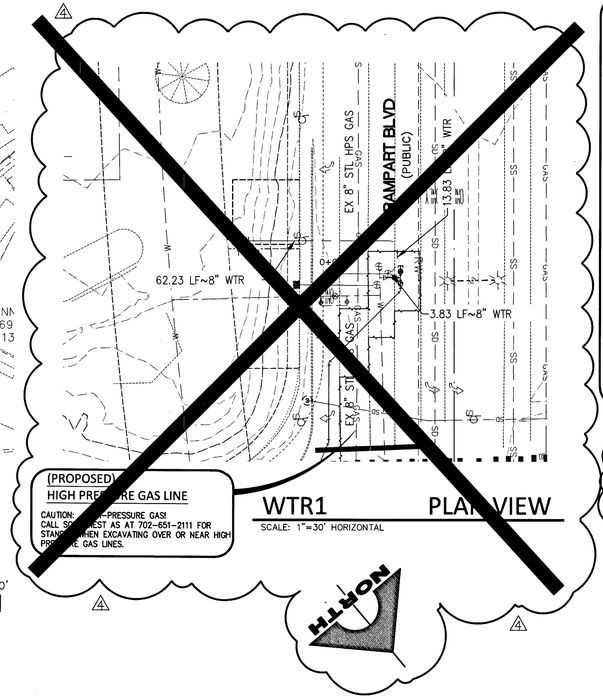
SD-6A PLAN VIEW

SCALE: 1"=30' HORIZONTAL



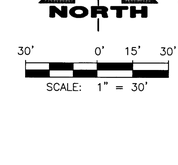
SD-6B PLAN VIEW

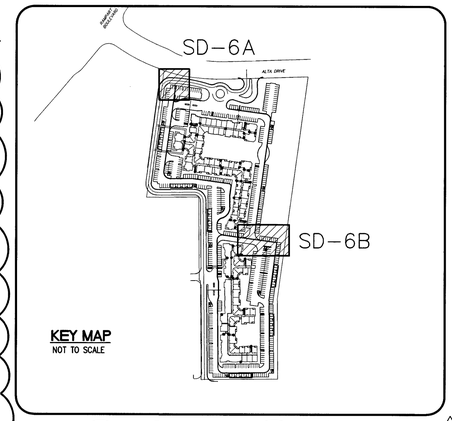
SCALE: 1"=30' HORIZONTAL



WTR1 PLAN VIEW

SCALE: 1"=30' HORIZONTAL





APPROVED FOR CONSTRUCTION

SOUTHWEST GAS CORPORATION DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.1, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSEN PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D-2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.
10. INSTALL CDS STORMWATER TREATMENT PER MANUFACTURER'S DESIGN.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

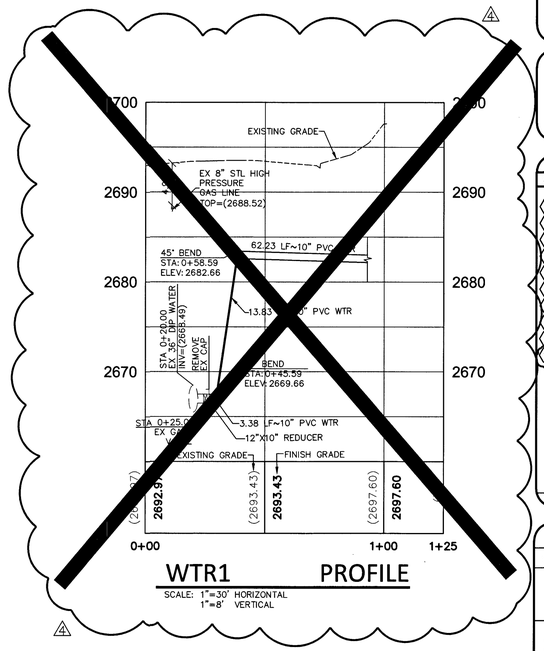
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

SD-6A PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL

SD-6B PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



WTR1 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL

ENGINEER - STATE OF NEVADA - TODD N. KELLEY - No. 14711 - PROFESSIONAL - DATE: 11-7-19

REV	DATE	DESCRIPTION	DSGN	DRWN	CHKD
1	9/30/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SDMH ADJUST RIM TO GRADE.	TLK	HL	TLK

PROJECT NO. 894-002

DESIGN:
DRAWN:
CHECK:

PLOT DATE: 11-07-19
PLOT TIME: 11:01:09

GCV ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

F:\Projects\800\894-002\DWG\Production-R\894x022 - SD-6-R.dwg
Hung Le

THE CALIDA GROUP

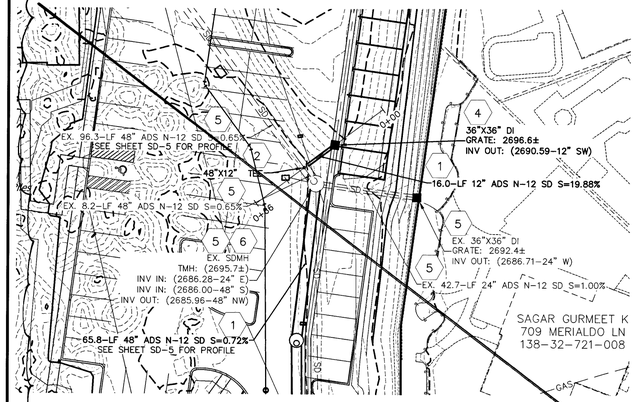
ELYSIAN AT RENAISSANCE

STORM DRAIN PLAN AND PROFILE 6

DRAWING
SD-6
22 OF 43 SHTS

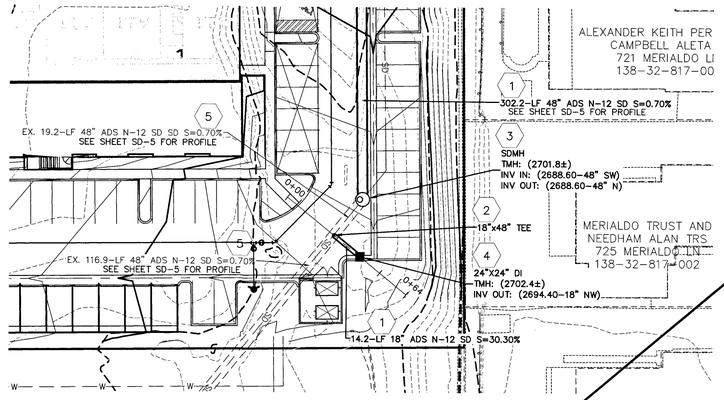
L18-01454

CLV DWG#: 107V7415



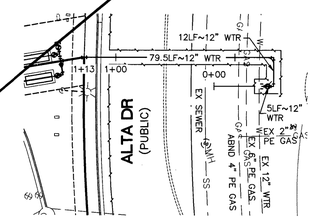
SD-7A PLAN VIEW

SCALE: 1"=30' HORIZONTAL



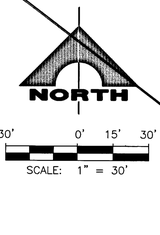
SD-7B PLAN VIEW

SCALE: 1"=30' HORIZONTAL

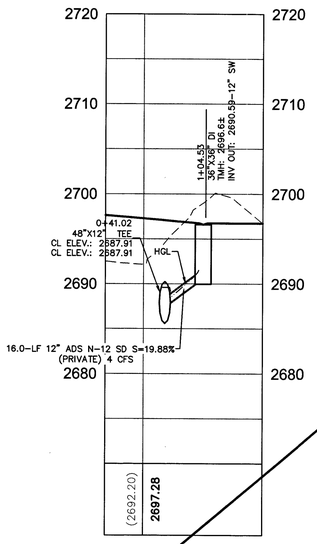


WTR2 PLAN VIEW

SCALE: 1"=30' HORIZONTAL

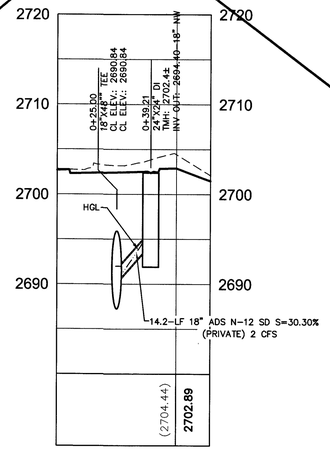






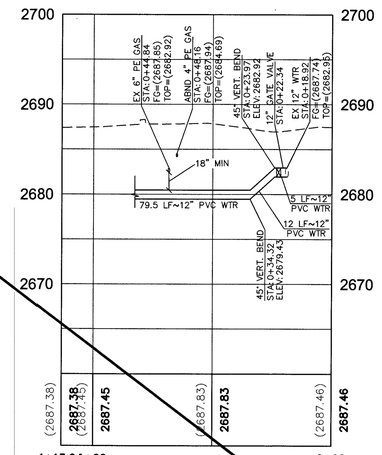
SD-7A PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



SD-7B PROFILE

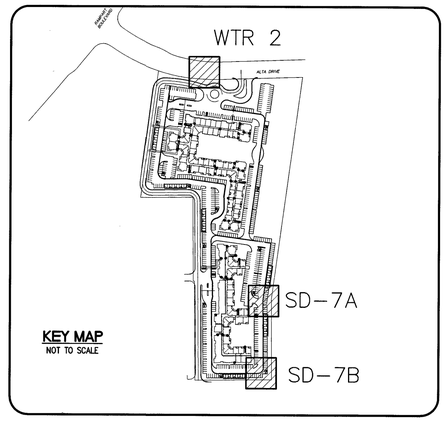
SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL



WTR2 PROFILE

SCALE: 1"=30' HORIZONTAL
1"=8' VERTICAL

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. 135281 First Approved Date: 2-15-19



KEY MAP
NOT TO SCALE

APPROVED FOR CONSTRUCTION
SOUTHWEST GAS CORP. 02/28/19 DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
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FAST
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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NOTE

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CONSTRUCTION NOTES

STORM DRAIN

1. INSTALL ADS N-12 STORM DRAIN PIPE, SEE PLAN FOR SIZE.
2. INSTALL ADS INSERTA TEE, SEE PLAN FOR SIZE.
3. CONSTRUCT TYPE II SD MANHOLE PER USDCCA DWG NO. 405.2, SEE PLAN FOR SIZE.
4. CONSTRUCT JENSON PRECAST SD DROP INLET WITH TRAFFIC FRAME AND GRATE PER DETAIL SHEET D-2, SEE PLAN FOR SIZE. USE EXTENSIONS AS NEEDED.
5. RETAIN AND PROTECT EXISTING STORM DRAIN STRUCTURE.
6. ADJUST TO NEW FINISH GRADE.
7. ABANDON EXISTING STORM DRAIN STRUCTURE.
8. INSTALL RINKER 2400 STC STORMCEPTOR PER DETAIL C SHT DT-2.
9. INSTALL TYPE 1 SDMH PER USDCCA DWG NO. 403.

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SEA LEVEL	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — TODD N. KELLEY — No. 14719 — PROFESSIONAL ENGINEER — CIVIL — Exp. 6/30/2019
DATE: 2-14-19

REV	DATE	DESCRIPTION
4	2-14-19	DELETE ALT. DETAILS

	DATE	APP
		GCW
		HUNG APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:36:16

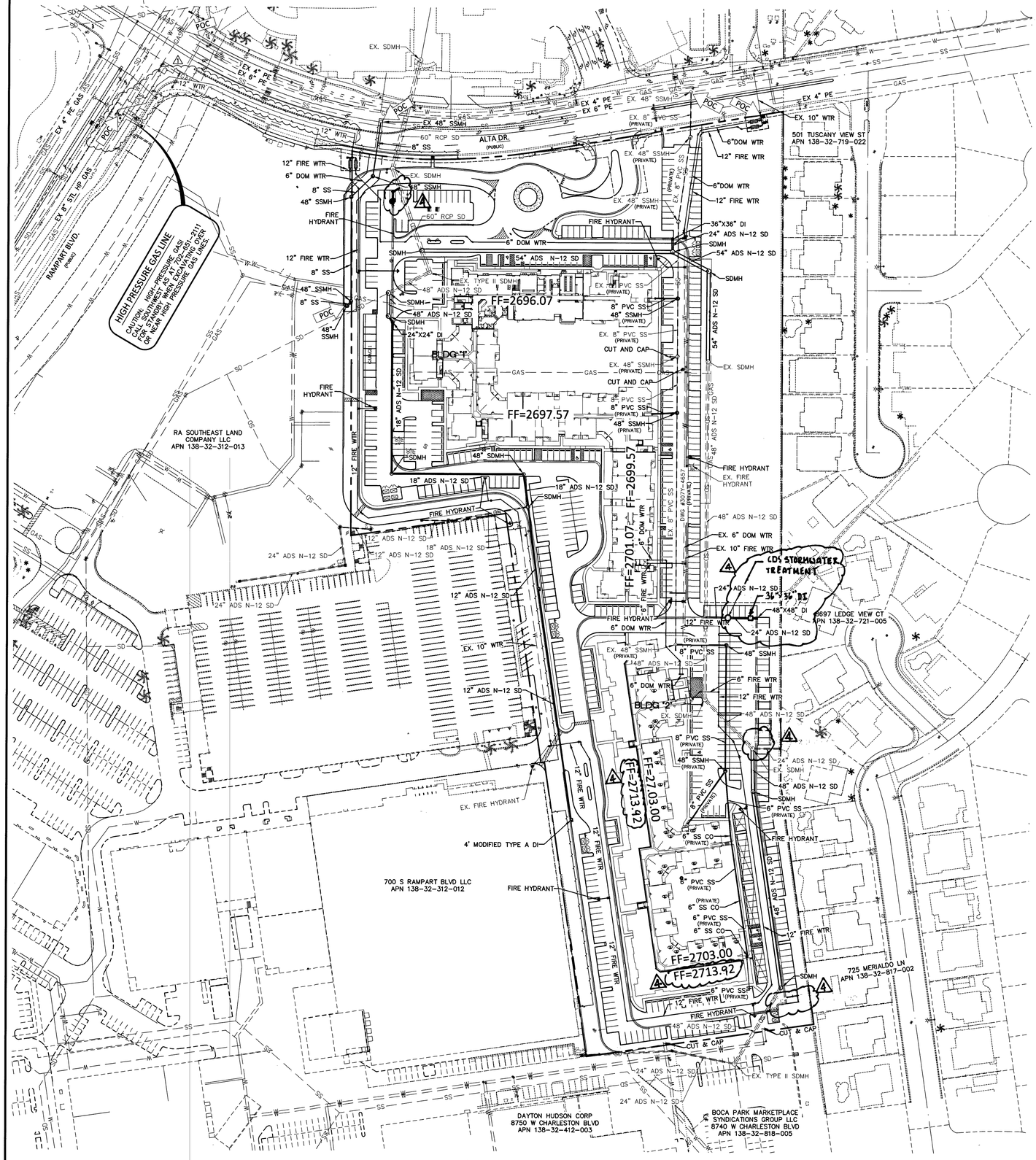
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\8942sd23 - SD-7.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
STORM DRAIN PLAN AND PROFILE 7

DRAWING
SD-7
23 OF 37 SHTS

PRO.#:135281A QS:138-32-SE



LAS VEGAS VALLEY WATER DISTRICT NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATING WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

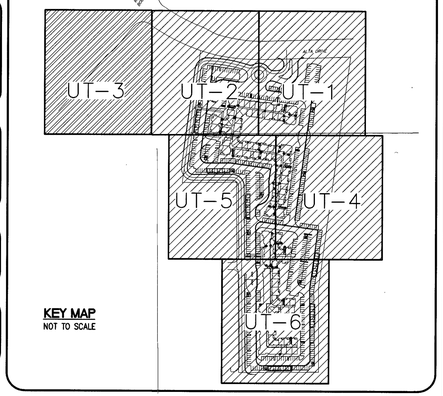
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE ENVENT NO OTHER APPURTENANCES ARE AVAILABLE.

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ON-SITE UTILITY NOTE:
UNLESS NOTED OTHERWISE, ALL ON-SITE DOMESTIC AND FIRE WATER, SANITARY AND STORM SEWER LINES ARE PRIVATELY OWNED AND MAINTAINED. SEE GRADING PLANS FOR STORM DRAIN CONSTRUCTION NOTES.

CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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



KEY MAP
NOT TO SCALE

NORTH
80' 0' 40' 80'
SCALE: 1" = 80'

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Call 811
or
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FAST
Call before you UnderGround.
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

FIRE FLOW CALCULATIONS

BLDG "1" BASED ON:

SQUARE FOOTAGE:	242,404	SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A	SQUARE FEET
BUILDING HEIGHT:	46'	FEET
NUMBER OF STORIES:	4	FLOOR
TYPE OF CONSTRUCTION: OCCUPANCY:	TYPE V-A	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES	
HIGH PILED COMBUSTIBLE STORAGE:	NO	
TOTAL FIRE FLOW:	4,000 GPM	

BLDG "2" BASED ON:

SQUARE FOOTAGE:	171,660	SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A	SQUARE FEET
BUILDING HEIGHT:	46'	FEET
NUMBER OF STORIES:	4	FLOOR
TYPE OF CONSTRUCTION: OCCUPANCY:	TYPE V-A	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES	
HIGH PILED COMBUSTIBLE STORAGE:	NO	
TOTAL FIRE FLOW:	3,750 GPM	

FIRE FLOW REQUIREMENT IS: 4,000 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE. SPRINKLER DEMAND 450 GPM/HOSE STREAM – GPM REFERENCE AMEND IFC SECTION B105.2

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 8/29/19

BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	S E T	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE — DATE 8/21/19
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES — 8-22-19
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY No. 14711 — CIVIL — Exp. 6/30/2021 — DATE: 8-20-2019

REV	DATE	DESCRIPTION
3	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SDMH ADJUST RIM TO GRADE
2	7/10/19	RELOCATE OFFSITE WATER MAIN
1	5-2-19	AGEN APP
	8-20-19	CCNV APP

PROJECT NO. 894-002
DESIGN: DEMOLITION PLAN
DRAWN:
CHECK:
PLOT DATE: 08-20-19
PLOT TIME: 08:18:11

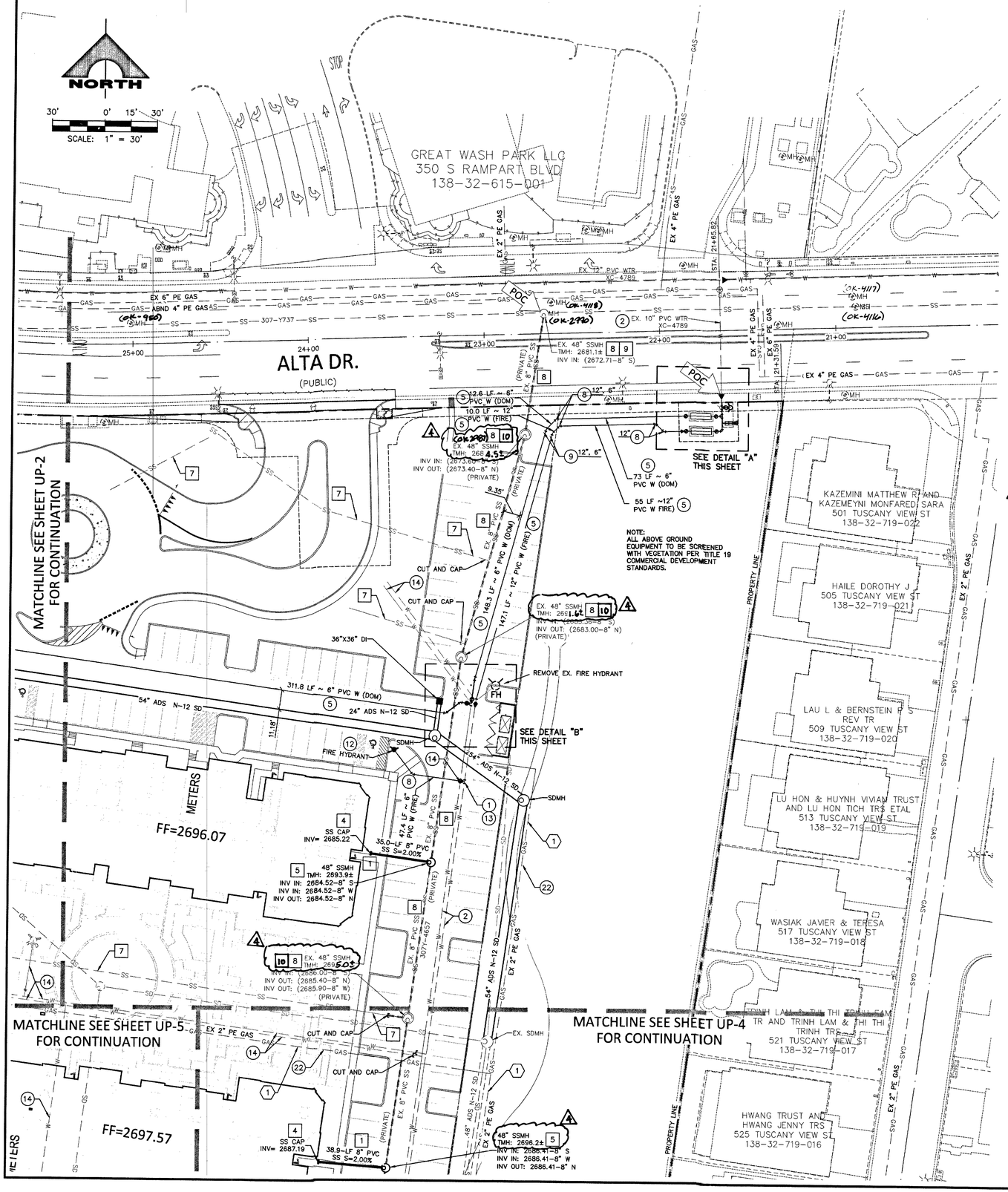
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production-R\8942o24-MU-1-R.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
MASTER UTILITY PLAN

DRAWING
MU-1
24 OF 37 SHTS

PROJ#:135281A QS:138-32-SE



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CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE ENVENT NO OTHER APPURTENANCES ARE AVAILABLE.

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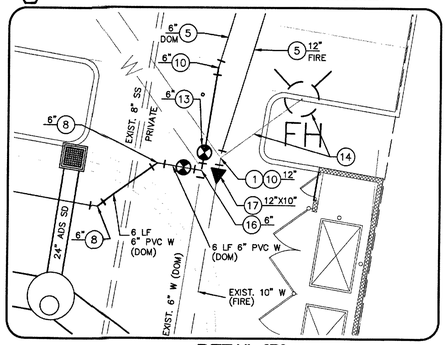
ON-SITE UTILITY NOTE:
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SOUTHWEST GAS CORPORATION APPROVAL

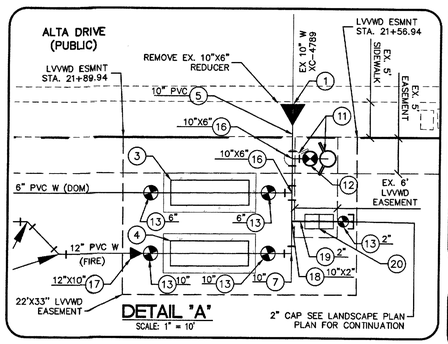
SOUTHWEST GAS CORP. — 02/20/19 DATE

SEWER CONSTRUCTION NOTES

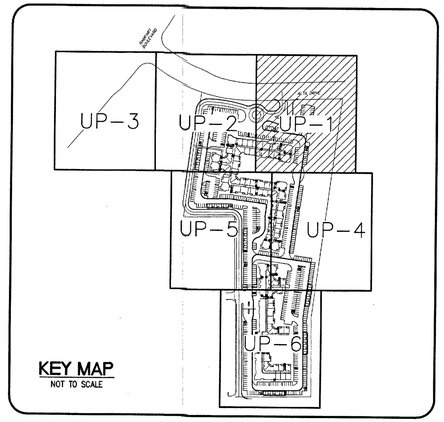
NO.	ITEM
	DCSWCS: DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1	INSTALL (PRIVATE) SEWER LATERAL PER DCSWCS DWG. NO. SD-20. SEE PLAN FOR SIZE
2	INSTALL SEWER LATERAL CLEANOUT PER DCSWCS DWG. NO. SD-26.
3	INSTALL (PRIVATE) PVC SEWER LINE (SDR-35) PER DCSWCS DWG. NO. SD-16, SD-17, AND SD-18. SIZE PER PLAN.
4	BLDG. POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
5	INSTALL 48" CAST-IN-PLACE MANHOLE ALONG EXISTING SEWER PER DCSWCS DWG. NO. SD-7.
6	INSTALL 48" PRECAST MANHOLE PER DCSWCS DWG. NO. SD-1A AND SD-1B.
7	ABANDON EXISTING SEWER PER DCSWCS SECTION 3.18.1
8	RETAIN AND PROTECT EXISTING SEWER.
9	FIELD APPLIED CORROSION PROTECTION PER DCSWCS SECTION 3.16.8B.
10	ADJUST RIM TO MEW FG.
1	CONTACT SW GAS CORPORATION FOR ABANDONMENT SCHEDULE.



DETAIL "B"
SCALE: 1" = 10'



DETAIL "A"
SCALE: 1" = 10'



KEY MAP
NOT TO SCALE

WATER CONSTRUCTION NOTES

NO.	ITEM
	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
1	FIELD VERIFY LOCATION & CONNECT TO EX. WATER (SEE PLAN FOR SIZE).
2	RETAIN AND PROTECT EXISTING WATER LINE.
3	INSTALL 4" OCTAVE-ULTRASONIC METER AND 6" RPPA ASSEMBLY, CONCRETE PAD AND ENCLOSURE PER DETAIL "B" SHEET DT-2.
4	INSTALL 10" RPDA PER UDACS PLATE NO. 59.
5	INSTALL WATER LINE PER UDACS PLATE NO. 17 (SEE PLAN FOR SIZE).
6	BLDG. FIRE WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
7	INSTALL 90° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
8	INSTALL 45° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
9	INSTALL 22.5° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
10	INSTALL 11.25° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
11	RELOCATE FIRE HYDRANT PER UDACS PLATE NO. 40 AND SEC. 2.21.06.B
12	INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
13	INSTALL GATE VALVE PER UDACS PLATE NO. 30 & 39 (SEE PLAN FOR SIZE).
14	ABANDON EX. WATER SERVICE.
15	BLDG. DOM. WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
16	INSTALL TEE PER UDACS PLATE NO 31 (SEE PLAN FOR SIZE).
17	INSTALL REDUCER (SEE PLAN FOR SIZE).
18	INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
19	INSTALL COPPER SERVICE LATERAL PER UDACS PLATE NO. 4.
20	INSTALL 2" WATER METER AND 2" RPPA PER UDACS PLATE NO. 4 AND 8.
21	INSTALL 12"X12" TAPPING SLEEVE WITH 12" TAPPING VALVE PER UDACS PLATE NO. 34.

BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE — 2/14/19 DATE
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 or 1-800-227-2600

FAST — Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

L18-01454 | QLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY No. 14711 — CIVIL — Exp. 6/30/2019 — DATE: 2-14-19

NO.	DATE	REV'D	DESCRIPTION
1	9/19/19	GCW	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SSMH ADJUST RIM TO GRADE

DATE AGEN APP | DATE GCW APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:36:56

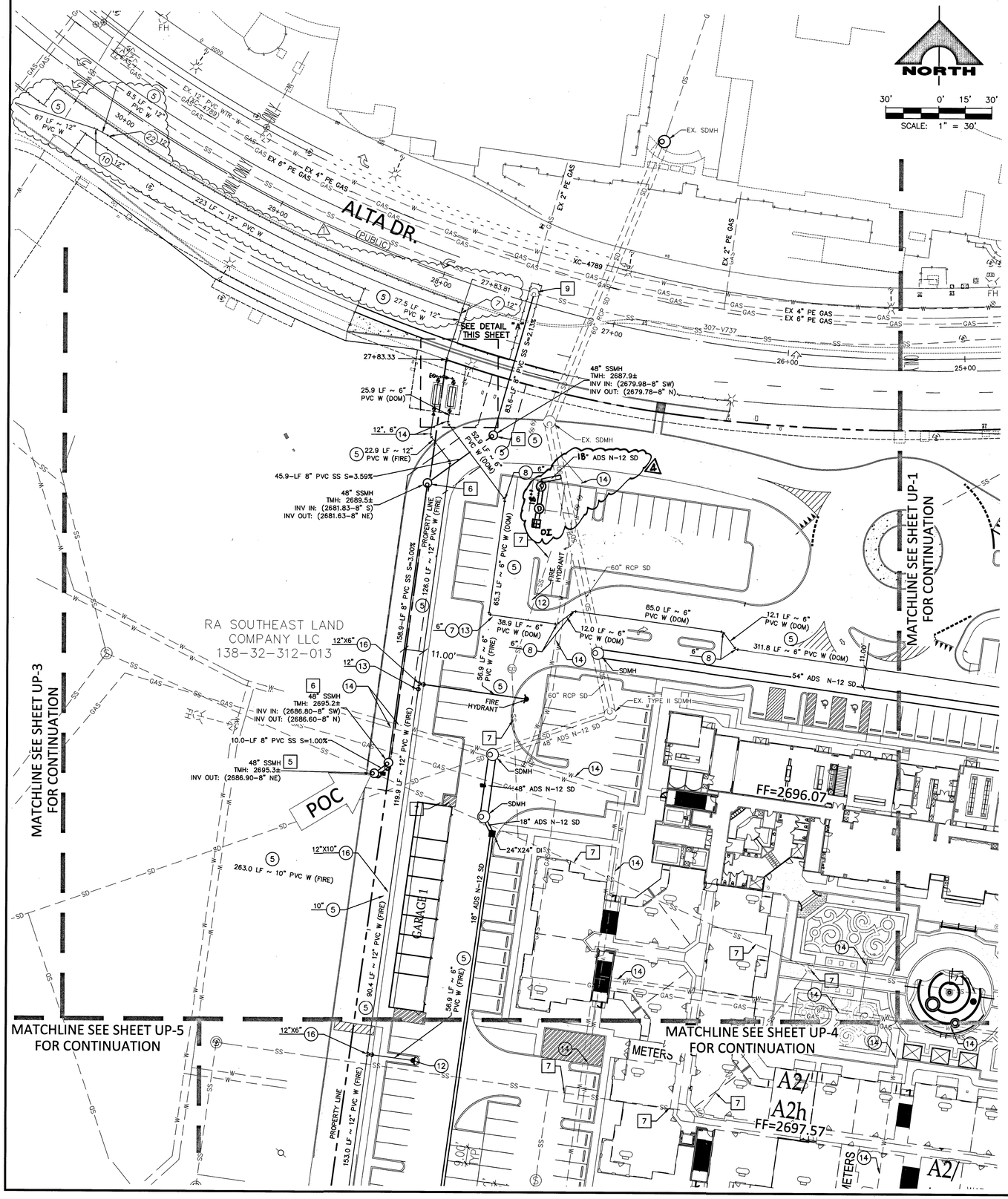
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\8942025 - UP-1.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 1

DRAWING
UP-1
25 OF 37 SHTS

PRO.J#:135281A QS:138-32-SE



LAS VEGAS VALLEY WATER DISTRICT NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATING WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

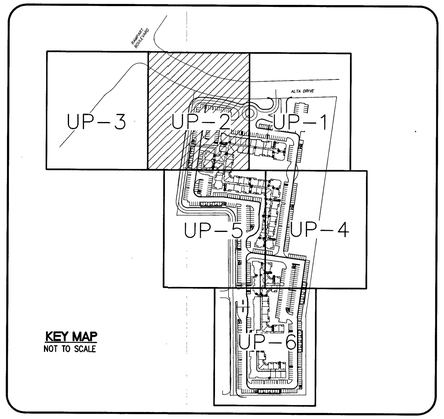
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE ENVENT NO OTHER APPURTENANCES ARE AVAILABLE.

EXISTING UTILITY NOTE:
EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY AND MAY NOT SHOW ALL EXISTING FACILITIES WITHIN THE PROJECT AREA. CONTRACTOR MUST FIELD VERIFY AND POTHOLE EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON DRAWINGS. CONTACT UTILITY COMPANIES AT LEAST 24 HOURS PRIOR TO INTERRUPTION OF SERVICE.

ON-SITE UTILITY NOTE:
UNLESS NOTED OTHERWISE, ALL ON-SITE DOMESTIC AND FIRE WATER, SANITARY AND STORM SEWER LINES ARE PRIVATELY OWNED AND MAINTAINED. SEE GRADING PLANS FOR STORM DRAIN CONSTRUCTION NOTES.

SEWER CONSTRUCTION NOTES

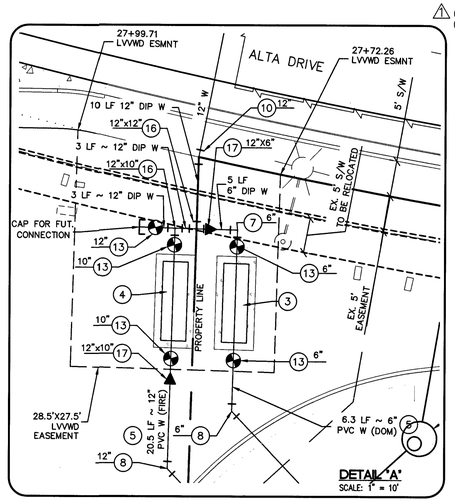
NO.	ITEM	DCSWCS: DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1		INSTALL (PRIVATE) SEWER LATERAL PER DCSWCS DWG. NO. SD-20. SEE PLAN FOR SIZE.
2		INSTALL SEWER LATERAL CLEANOUT PER DCSWCS DWG. NO. SD-26.
3		INSTALL (PRIVATE) PVC SEWER LINE (SDR-35) PER DCSWCS DWG. NO. SD-16, SD-17, AND SD-18. SIZE PER PLAN.
4		BLDG. POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
5		INSTALL 48" CAST-IN-PLACE MANHOLE ALONG EXISTING SEWER PER DCSWCS DWG. NO. SD-7.
6		INSTALL 48" PRECAST MANHOLE PER DCSWCS DWG. NO. SD-1A AND SD-1B.
7		ABANDON EXISTING SEWER PER DCSWCS SECTION 3.18.1
8		RETAIN AND PROTECT EXISTING SEWER.
9		CONNECT TO EXISTING SEWER MANHOLE.



KEY MAP
NOT TO SCALE

WATER CONSTRUCTION NOTES

NO.	ITEM	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
1		FIELD VERIFY LOCATION & CONNECT TO EX. WATER (SEE PLAN FOR SIZE).
2		RETAIN AND PROTECT EXISTING WATER LINE.
3		INSTALL 4" OCTAVE-ULTRASONIC METER AND 6" RPPA ASSEMBLY, CONCRETE PAD AND ENCLOSURE PER DETAIL "B" SHEET DT-2.
4		INSTALL 10" RPDA PER UDACS PLATE NO. 59.
5		INSTALL WATER LINE PER UDACS PLATE NO. 17 (SEE PLAN FOR SIZE).
6		BLDG. FIRE WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
7		INSTALL 90° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
8		INSTALL 45° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
9		INSTALL 22.5° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
10		INSTALL 11.25° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
11		RELOCATE FIRE HYDRANT PER UDACS PLATE NO. 40 AND SEC. 2.21.06.B
12		INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
13		INSTALL GATE VALVE PER UDACS PLATE NO. 30 & 39 (SEE PLAN FOR SIZE).
14		ABANDON EX. WATER SERVICE.
15		BLDG. DOM. WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
16		INSTALL TEE PER UDACS PLATE NO 31 (SEE PLAN FOR SIZE).
17		INSTALL REDUCER (SEE PLAN FOR SIZE).
18		INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
19		INSTALL COPPER SERVICE LATERAL PER UDACS PLATE NO. 4.
20		INSTALL 2" WATER METER AND 2" RPPA PER UDACS PLATE NO. 4 AND 8.
21		INSTALL 12"X12" TAPPING SLEEVE WITH 12" TAPPING VALVE PER UDACS PLATE NO. 34.
22		INSTALL 5' BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).



SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 8/5/19

BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION	ELEVATION	DESCRIPTION
OLVOO 32C4	S E T 820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE — DATE 8/21/19
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES — 8-22-19
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600

FAST — Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 14711 — Exp. 4/30/2021 — CIVIL — DATE: 7-30-2019

REV	DATE	DESCRIPTION	AGEN APP	DATE	CCW APP
1	8/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SSMH ADJUST RIM TO GRADE		8-22-19	
0	7/09/19	RELOCATE OFFSITE WATER MAIN		8-21-19	

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 07-30-19
PLOT TIME: 17:06:37

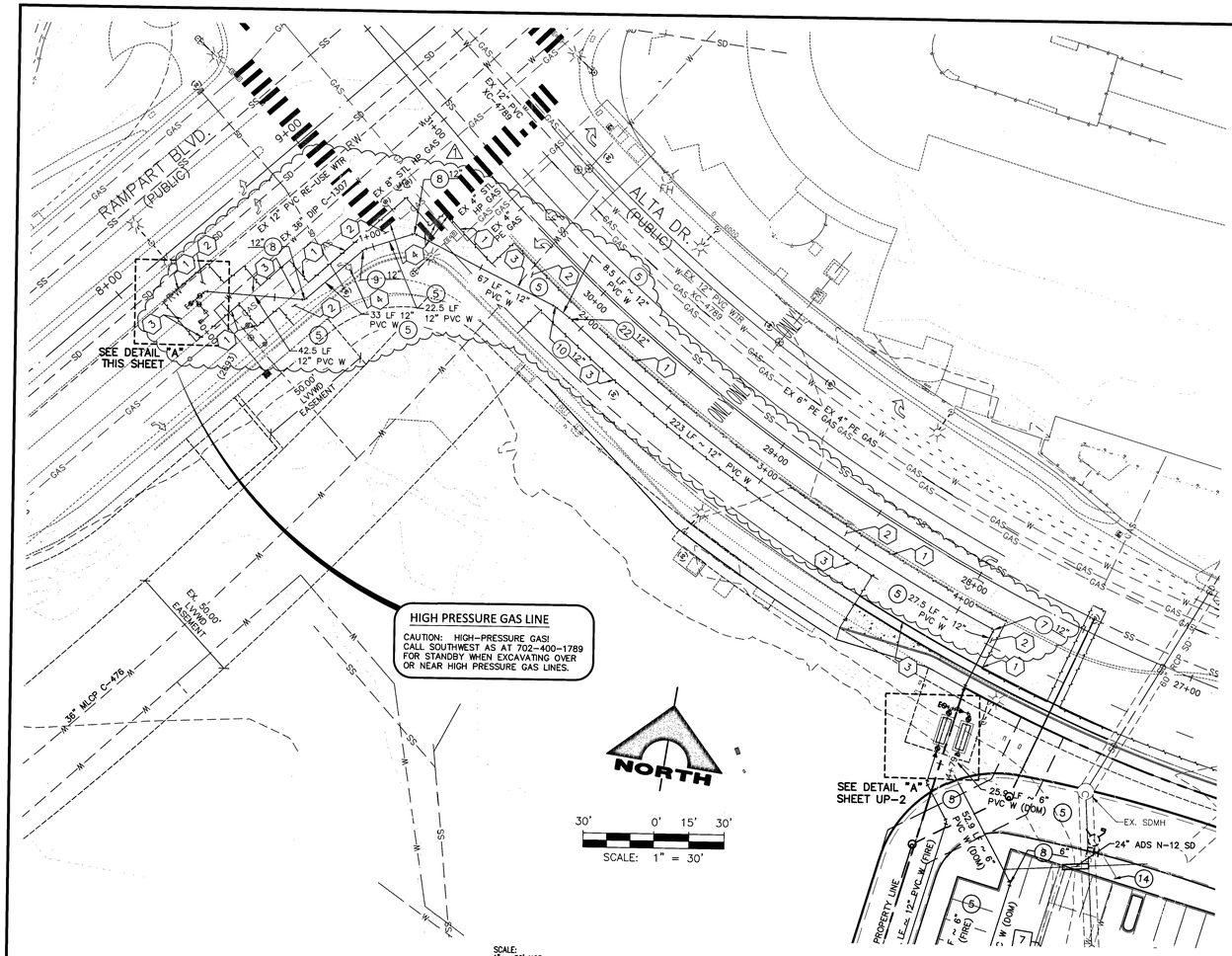
GCW ENGINEERS\SURVEYORS
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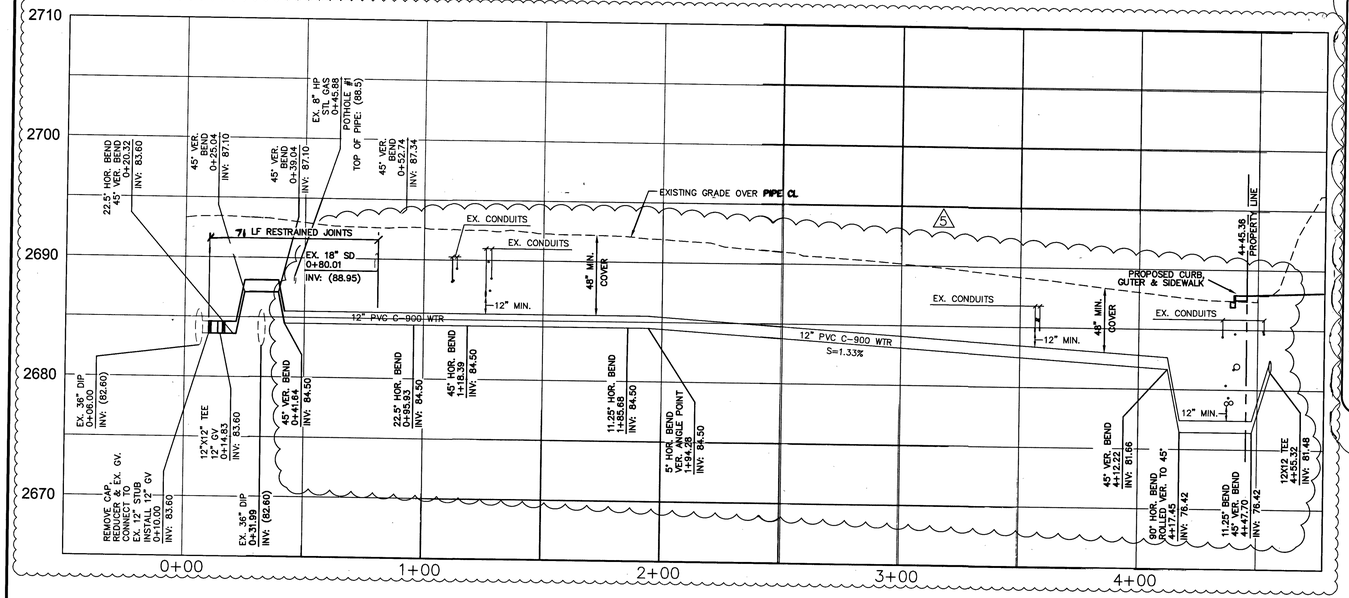
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Todd Kelley

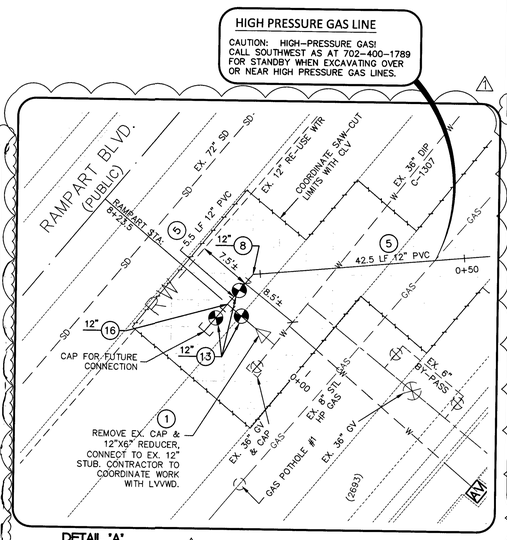
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 2

DRAWING
UP-2
26 OF 37 SHTS

PROJ.#:135281A QS:138-32-SE





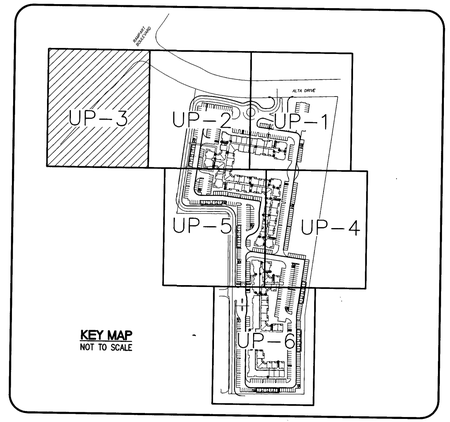


LAS VEGAS VALLEY WATER DISTRICT NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATING WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE ENVENT NO OTHER APPURTENANCES ARE AVAILABLE.

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UNLESS NOTED OTHERWISE, ALL ON-SITE DOMESTIC AND FIRE WATER, SANITARY AND STORM SEWER LINES ARE PRIVATELY OWNED AND MAINTAINED. SEE GRADING PLANS FOR STORM DRAIN CONSTRUCTION NOTES.



KEY MAP
NOT TO SCALE

SEWER CONSTRUCTION NOTES

NO.	ITEM
	DCSWCS: DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1	INSTALL (PRIVATE) SEWER LATERAL PER DCSWCS DWG. NO. SD-20. SEE PLAN FOR SIZE.
2	INSTALL SEWER LATERAL CLEANOUT PER DCSWCS DWG. NO. SD-26.
3	INSTALL (PRIVATE) PVC SEWER LINE (SDR-35) PER DCSWCS DWG. NO. SD-16, SD-17, AND SD-18. SIZE PER PLAN.
4	BLDG. POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
5	INSTALL 48" CAST-IN-PLACE MANHOLE ALONG EXISTING SEWER PER DCSWCS DWG. NO. SD-7.
6	INSTALL 48" PRECAST MANHOLE PER DCSWCS DWG. NO. SD-1A AND SD-1B.
7	ABANDON EXISTING SEWER PER DCSWCS SECTION 3.18.1
8	RETAIN AND PROTECT EXISTING SEWER.

ROADWAY CONSTRUCTION NOTES

1. SAWCUT EXISTING PAVEMENT PER USDCCA DWG NO. 500.3, 500.4, 503.
2. REMOVE AND REPLACE EXISTING PAVEMENT. MATCH EXISTING PAVEMENT SECTION.
3. REMOVE EXISTING RAISED PAVEMENT MARKERS AND REPLACE TO MATCH EXISTING CONDITION.
4. REMOVE EXISTING PAVEMENT MARKINGS AND REPLACE TO MATCH EXISTING CONDITION.

WATER CONSTRUCTION NOTES

NO.	ITEM
	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
1	FIELD VERIFY LOCATION & CONNECT TO EX. WATER (SEE PLAN FOR SIZE).
2	RETAIN AND PROTECT EXISTING WATER LINE.
3	INSTALL 4" OCTAVE-UTRASONIC METER AND 6" RPPA ASSEMBLY, CONCRETE PAD AND ENCLOSURE PER DETAIL "8" SHEET DT-2.
4	INSTALL 10" RPDA PER UDACS PLATE NO. 59.
5	INSTALL WATER LINE PER UDACS PLATE NO. 17 (SEE PLAN FOR SIZE).
6	BLDG. FIRE WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
7	INSTALL 90° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
8	INSTALL 45° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
9	INSTALL 22.5° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
10	INSTALL 11.25° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
11	RELOCATE FIRE HYDRANT PER UDACS PLATE NO. 40 AND SEC. 2.21.06.B
12	INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
13	INSTALL GATE VALVE PER UDACS PLATE NO. 30 & 39 (SEE PLAN FOR SIZE).
14	ABANDON EX. WATER SERVICE.
15	BLDG. DOM. WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
16	INSTALL TEE PER UDACS PLATE NO 31 (SEE PLAN FOR SIZE).
17	INSTALL REDUCER (SEE PLAN FOR SIZE).
18	INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
19	INSTALL COPPER SERVICE LATERAL PER UDACS PLATE NO. 4.
20	INSTALL 2" WATER METER AND 2" RPPA PER UDACS PLATE NO. 4 AND 8.
21	INSTALL 12"X12" TAPPING SLEEVE WITH 12" TAPPING VALVE PER UDACS PLATE NO. 34.
22	INSTALL 5' BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).

SOUTHWEST GAS CORPORATION APPROVAL
SOUTHWEST GAS CORP. — 8/5/19 DATE

BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE — 8/21/19 DATE
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135281 FIRST APPROVED DATE: 8-22-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 or 1-800-227-2600

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L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD M. KELLEY — No. 14714 — CIVIL — Exp. 6/30/2021 — DATE: 7-22-2019

REV	DATE	DESCRIPTION	BY	CKD	APP	DATE
1	7/22/20	WATER MAIN VERT. ALIGNMENT TO AVOID EX. CONDUITS	JAS	TMK	TMK	7/22/20
2	7/10/19	RELOCATE OFFSITE WATER MAIN	JAS	TMK	TMK	7/22/19

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 07-31-19
PLOT TIME: 10:37:48

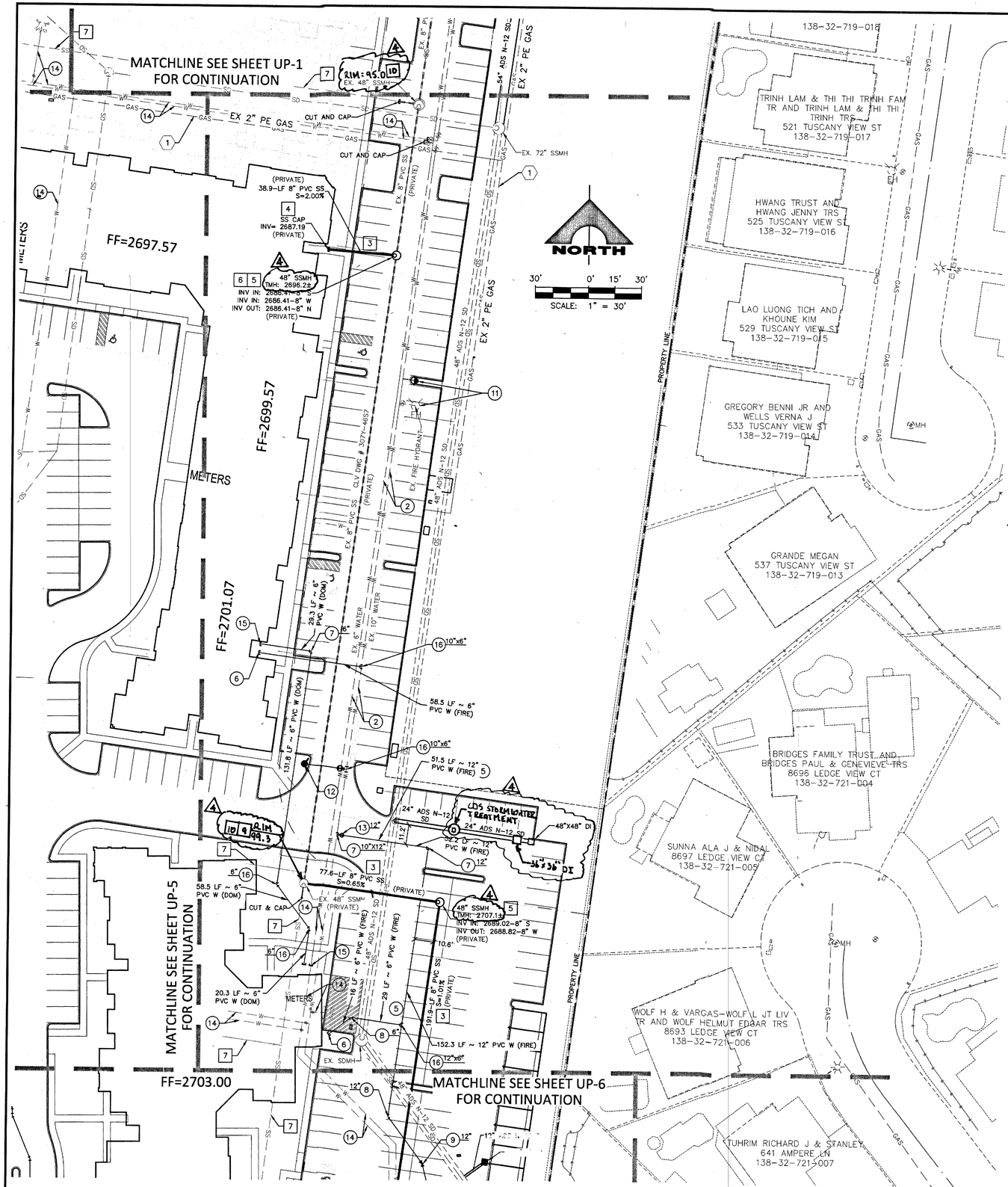
GCW ENGINEERS\SURVEYORS
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F:\Projects\600\894-002\DWG\Production-R\8942c027 - UP-3-R.dwg
Todd Kelley

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 3

DRAWING
UP-3
27 OF 37 SHTS

PRO.#:135281A OS:138-32-SE



LAS VEGAS VALLEY WATER DISTRICT NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATING WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

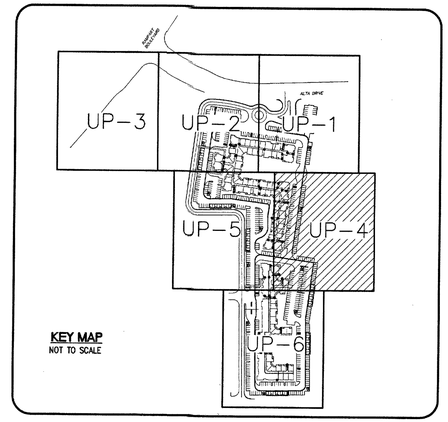
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SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/20/19



KEY MAP
NOT TO SCALE

SEWER CONSTRUCTION NOTES

NO.	ITEM
	DCSWCS: DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1	INSTALL (PRIVATE) SEWER LATERAL PER DCSWCS DWG. NO. SD-20. SEE PLAN FOR SIZE.
2	INSTALL SEWER LATERAL CLEANOUT PER DCSWCS DWG. NO. SD-26.
3	INSTALL (PRIVATE) PVC SEWER LINE (SDR-35) PER DCSWCS DWG. NO. SD-16, SD-17, AND SD-18. SIZE PER PLAN.
4	BLDG. POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
5	INSTALL 48" CAST-IN-PLACE MANHOLE ALONG EXISTING SEWER PER DCSWCS DWG. NO. SD-7.
6	INSTALL 48" PRECAST MANHOLE PER DCSWCS DWG. NO. SD-1A AND SD-1B.
7	ABANDON EXISTING SEWER PER DCSWCS SECTION 3.18.1
8	RETAIN AND PROTECT EXISTING SEWER.
9	CONNECT TO EXISTING SSMH.
10	ADJUST RIM TO NEW FG.

(1) CONTACT SW GAS CORPORATION FOR ABANDONMENT SCHEDULE.

WATER CONSTRUCTION NOTES

NO.	ITEM
	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
1	FIELD VERIFY LOCATION & CONNECT TO EX. WATER (SEE PLAN FOR SIZE).
2	RETAIN AND PROTECT EXISTING WATER LINE.
3	INSTALL 4" OCTAVE-ULTRASONIC METER AND 6" RPPA ASSEMBLY, CONCRETE PAD AND ENCLOSURE PER DETAIL "B" SHEET DT-2.
4	INSTALL 10" RPDA PER UDACS PLATE NO. 59.
5	INSTALL WATER LINE PER UDACS PLATE NO. 17 (SEE PLAN FOR SIZE).
6	BLDG. FIRE WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
7	INSTALL 90° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
8	INSTALL 45° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
9	INSTALL 22.5° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
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11	RELOCATE FIRE HYDRANT PER UDACS PLATE NO. 40 AND SEC. 2.21.06.B
12	INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
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14	ABANDON EX. WATER SERVICE.
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18	INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
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20	INSTALL 2" WATER METER AND 2" RPPA PER UDACS PLATE NO. 4 AND 8.
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BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE — DATE 2/14/19
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

L18-01454 | CLV DWG#: 107V7415

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600

FAST — Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

STATE OF NEVADA — ENGINEER — TODD N. KELLEY — No. 14711 — Exp. 9/30/2019 — CIVIL — DATE: 2-14-19

REV	DATE	DESCRIPTION	AGEN. APP	DATE	GCW APP
1	9/19/19	ADD STORMCEPTOR, REVISE FF & PAD ELEVATION, SSMH & SSMH ADJUST RIM TO GRADE			

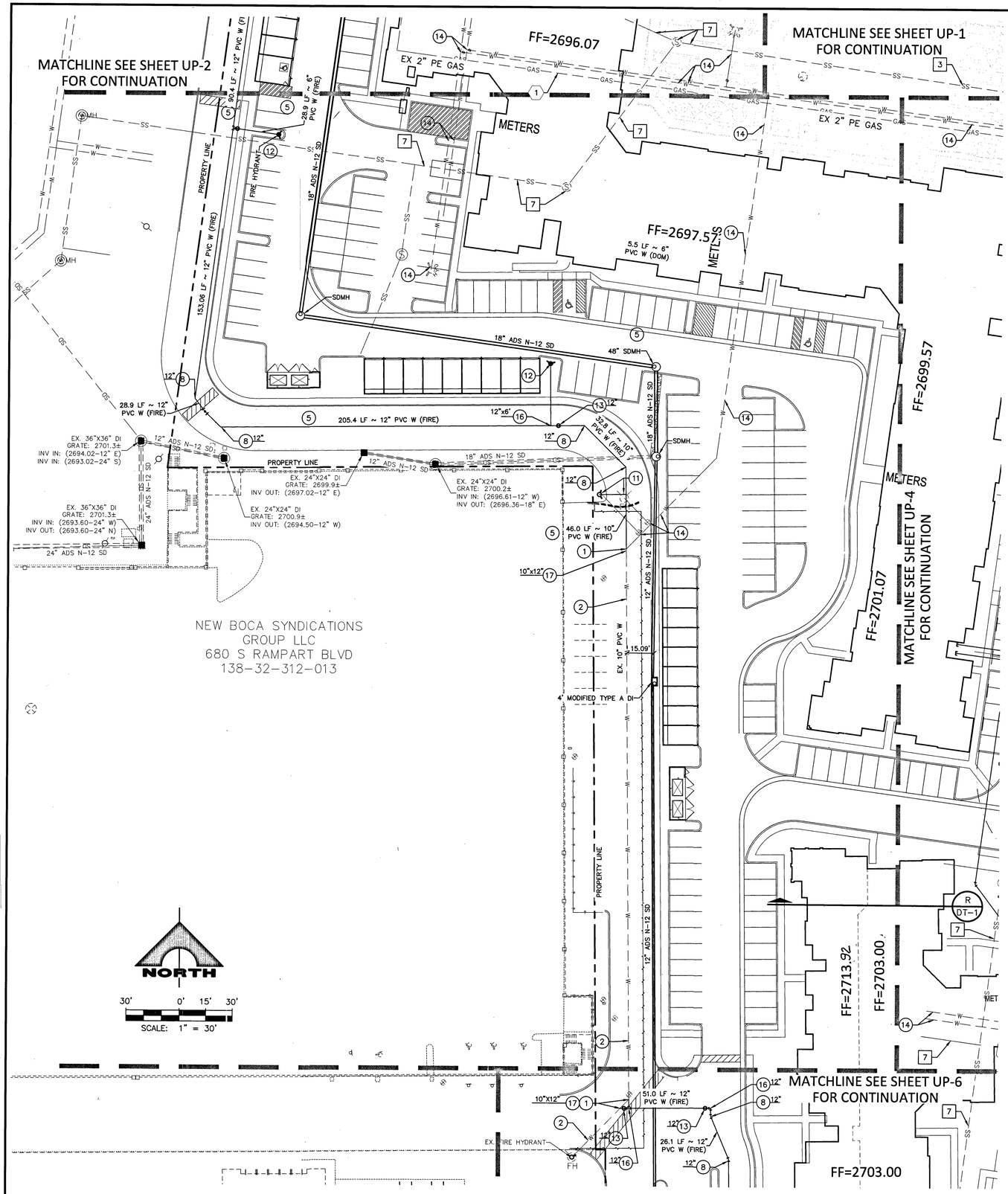
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:37:52

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146
T: 702.804.2000 F: 702.804.2299 gcwengineering.com
F:\Projects\800\894-002\DWG\Production\894x028 -UP-4.dwg Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 4

DRAWING UP-4
28 OF 37 SHTS

PRO.#:135281A QS:138-32-SE



LAS VEGAS VALLEY WATER DISTRICT NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATING WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

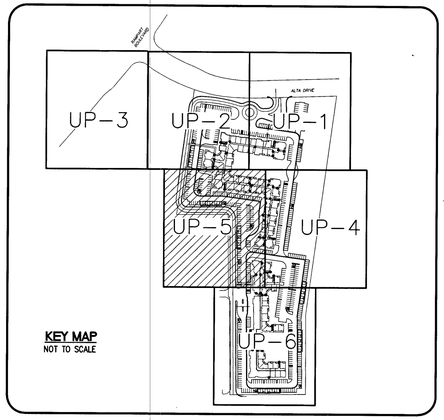
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE ENVENT NO OTHER APPURTENANCES ARE AVAILABLE.

EXISTING UTILITY NOTE:
EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY AND MAY NOT SHOW ALL EXISTING FACILITIES WITHIN THE PROJECT AREA. CONTRACTOR MUST FIELD VERIFY AND POTHOLE EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON DRAWINGS. CONTACT UTILITY COMPANIES AT LEAST 24 HOURS PRIOR TO INTERRUPTION OF SERVICE.

ON-SITE UTILITY NOTE:
UNLESS NOTED OTHERWISE, ALL ON-SITE DOMESTIC AND FIRE WATER, SANITARY AND STORM SEWER LINES ARE PRIVATELY OWNED AND MAINTAINED. SEE GRADING PLANS FOR STORM DRAIN CONSTRUCTION NOTES.

SOUTHWEST GAS CORPORATION APPROVAL

SOUTHWEST GAS CORP. — DATE 02/28/19



KEY MAP
NOT TO SCALE

SEWER CONSTRUCTION NOTES

NO.	ITEM
	DCSWCS: DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1	INSTALL (PRIVATE) SEWER LATERAL PER DCSWCS DWG. NO. SD-20. SEE PLAN FOR SIZE.
2	INSTALL SEWER LATERAL CLEANOUT PER DCSWCS DWG. NO. SD-26.
3	INSTALL (PRIVATE) PVC SEWER LINE (SDR-35) PER DCSWCS DWG. NO. SD-16, SD-17, AND SD-18. SIZE PER PLAN.
4	BLDG. POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
5	INSTALL 48" CAST-IN-PLACE MANHOLE ALONG EXISTING SEWER PER DCSWCS DWG. NO. SD-7.
6	INSTALL 48" PRECAST MANHOLE PER DCSWCS DWG. NO. SD-1A AND SD-1B.
7	ABANDON EXISTING SEWER PER DCSWCS SECTION 3.18.1
8	RETAIN AND PROTECT EXISTING SEWER.

(1) CONTACT SW GAS CORPORATION FOR ABANDONMENT SCHEDULE.

WATER CONSTRUCTION NOTES

NO.	ITEM
	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
1	FIELD VERIFY LOCATION & CONNECT TO EX. WATER (SEE PLAN FOR SIZE).
2	RETAIN AND PROTECT EXISTING WATER LINE.
3	INSTALL 4" OCTAVE-UTRASONIC METER AND 6" RPPA ASSEMBLY, CONCRETE PAD AND ENCLOSURE PER DETAIL "B" SHEET DT-2.
4	INSTALL 10" RPDA PER UDACS PLATE NO. 59.
5	INSTALL WATER LINE PER UDACS PLATE NO. 17 (SEE PLAN FOR SIZE).
6	BLDG. FIRE WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
7	INSTALL 90° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
8	INSTALL 45° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
9	INSTALL 22.5° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
10	INSTALL 11.25° BEND PER UDACS PLATE NO. 31 (SEE PLAN FOR SIZE).
11	RELOCATE FIRE HYDRANT PER UDACS PLATE NO. 40 AND SEC. 2.21.06.B
12	INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
13	INSTALL GATE VALVE PER UDACS PLATE NO. 30 & 39 (SEE PLAN FOR SIZE).
14	ABANDON EX. WATER SERVICE.
15	BLDG. DOM. WATER POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
16	INSTALL TEE PER UDACS PLATE NO 31 (SEE PLAN FOR SIZE).
17	INSTALL REDUCER (SEE PLAN FOR SIZE).
18	INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
19	INSTALL COPPER SERVICE LATERAL PER UDACS PLATE NO. 4.
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BASIS OF BEARINGS
SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

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APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 2/14/19
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19
LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM

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L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 10401 — CIVIL — Exp. 6/30/2019 — DATE 2-14-19

REV	DESCRIPTION	DATE	AGEN APP	DATE	CCW APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:38:07

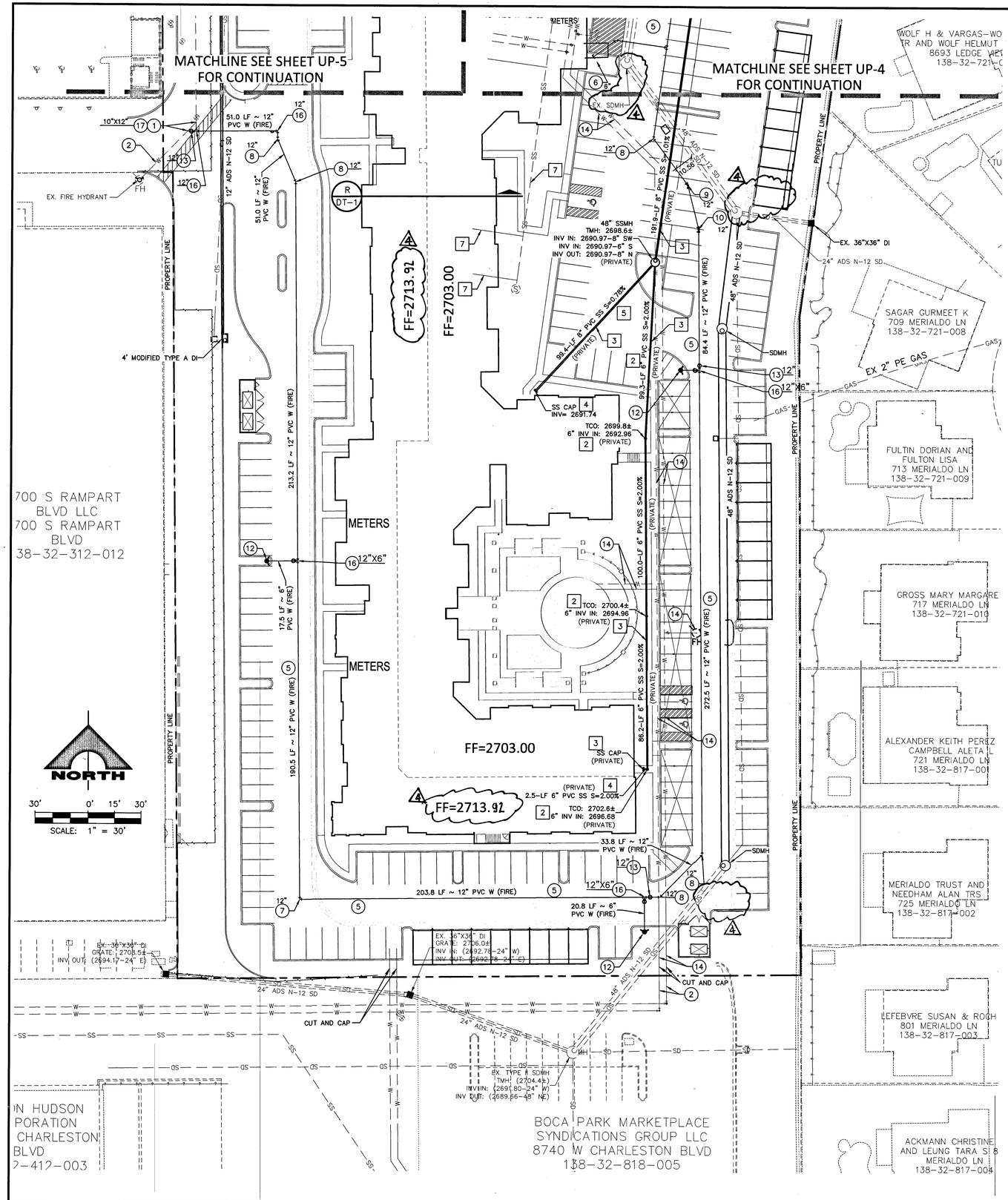
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\8942c029 -UP-5.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 5

DRAWING
UP-5
29 OF 37 SHTS

PROJ.#:135281A QS:138-32-SE



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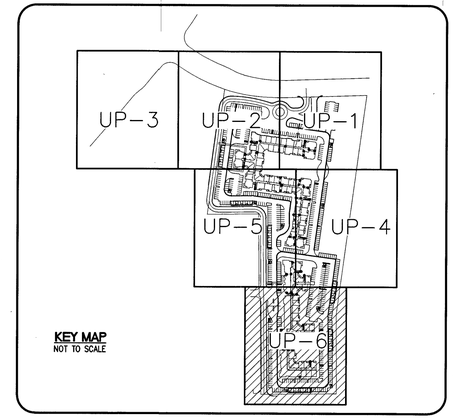
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L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 14471 — CIVIL — Exp. 6/30/2019 — DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGCN APP	DATE	GCW APP
3	9/19/19	ADD SYPHONICPOR, REVISE FF & PAD ELEVATION, SSMH & SSMH ADJUST RIM TO GRADE.				

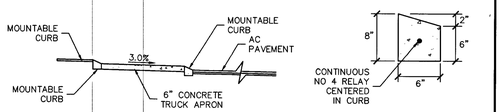
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:38:22

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\GWC\Production\894z030 - UP-6.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
UTILITY PLAN 6

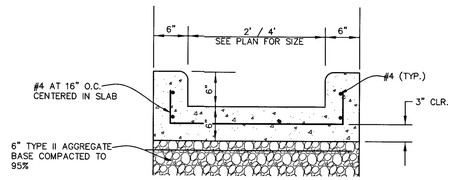
DRAWING UP-6
30 OF 37 SHTS

PRO.#:135281A QS:138-32-SE



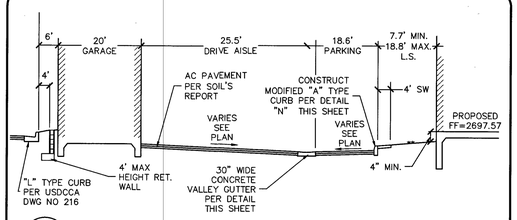
S — ROUND-A-BOUT - TRUCK RING

NOT TO SCALE



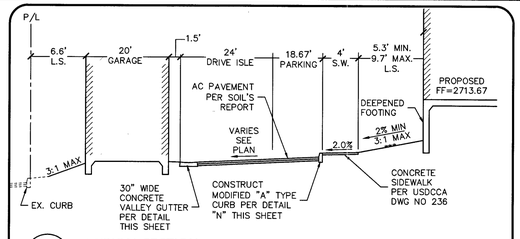
O — 2' OR 4' CONCRETE U-CHANNEL

NOT TO SCALE



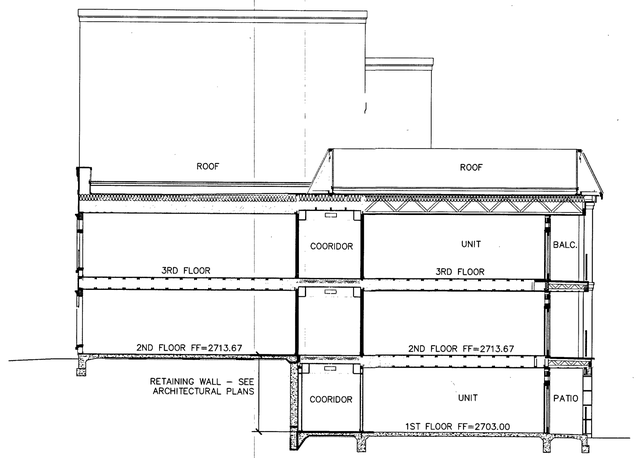
J — TYPICAL SECTION

NOT TO SCALE



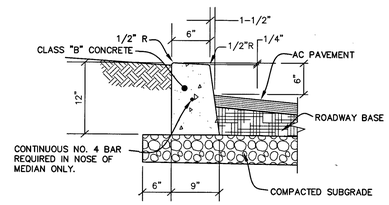
E — TYPICAL SECTION

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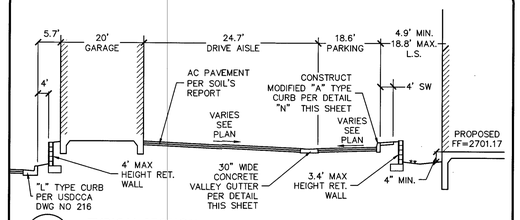
R — BUILDING SECTION

NOT TO SCALE



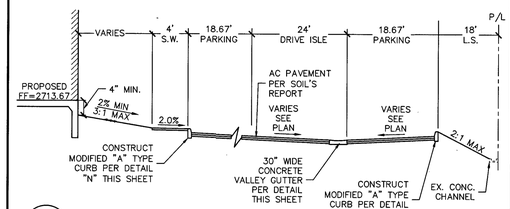
N — MODIFIED "A" CURB DETAIL

NOT TO SCALE



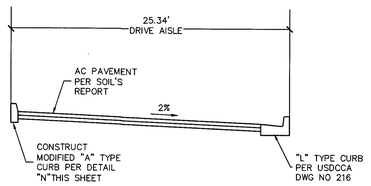
I — TYPICAL SECTION

NOT TO SCALE



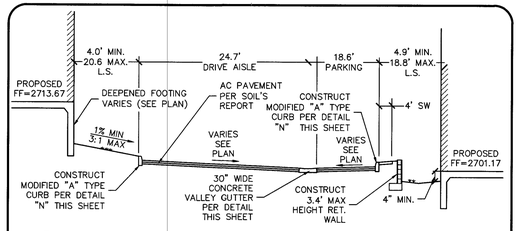
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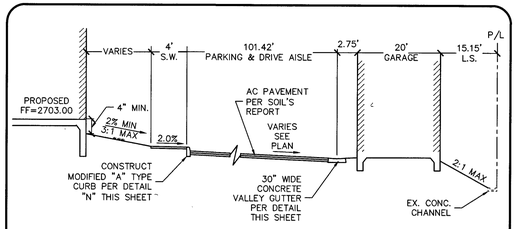
M — TYPICAL SECTION

NOT TO SCALE



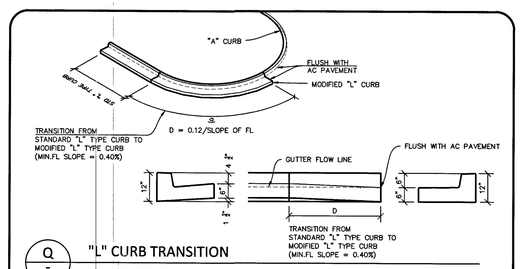
H — TYPICAL SECTION

NOT TO SCALE



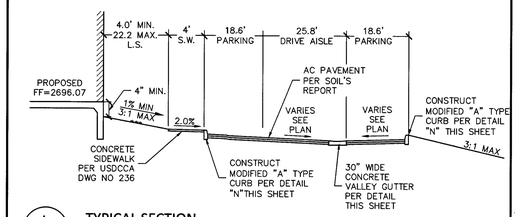
C — TYPICAL SECTION

NOT TO SCALE



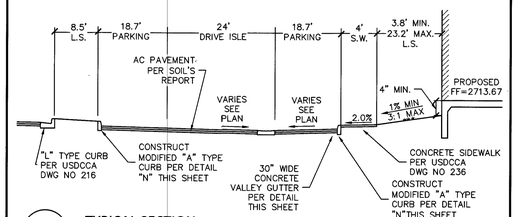
Q — "L" CURB TRANSITION

NOT TO SCALE



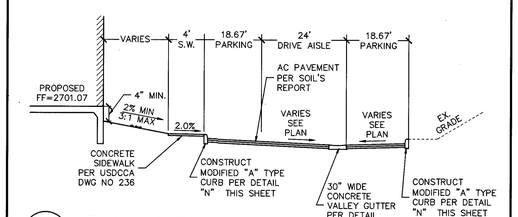
L — TYPICAL SECTION

NOT TO SCALE



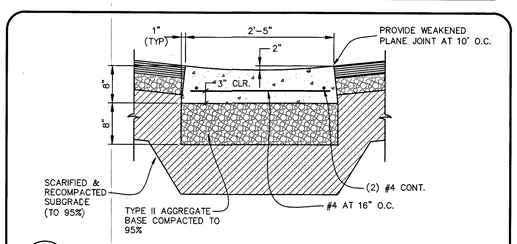
G — TYPICAL SECTION

NOT TO SCALE



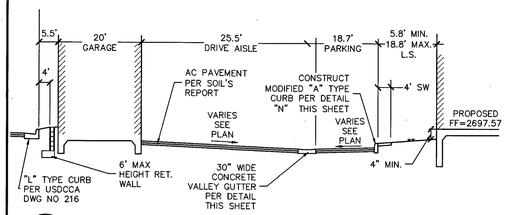
B — TYPICAL SECTION

NOT TO SCALE



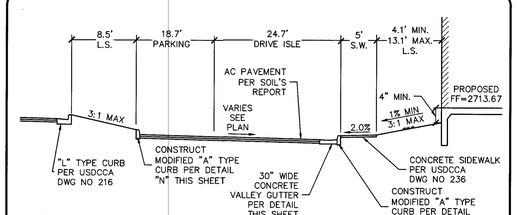
P — TYPICAL SECTION

NOT TO SCALE



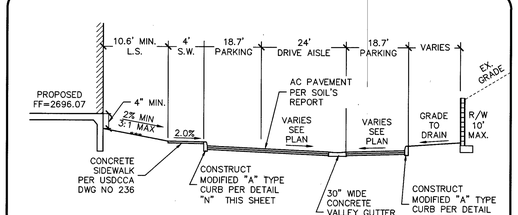
K — TYPICAL SECTION

NOT TO SCALE



F — TYPICAL SECTION

NOT TO SCALE



A — TYPICAL SECTION

NOT TO SCALE

L18–01454 | CLV DWG#: 107V7415

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — No. 14471 — CIVIL — Exp. 6/30/2019

DATE: 2-14-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 894-002

DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:38:29

GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\8942c031 - DT1.dwg
Hung Le

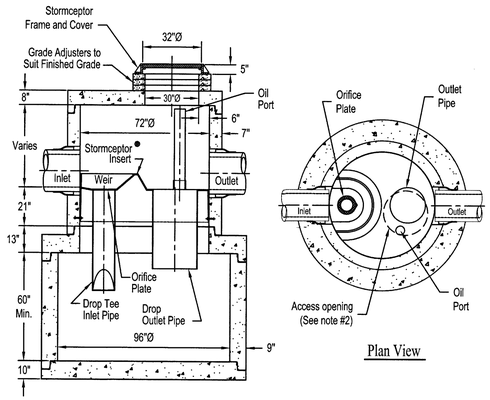
THE CALIDA GROUP

ELYSIAN AT RENAISSANCE

SECTIONS AND DETAILS I

DRAWING
DT-1
31 OF 37 SHTS

STC 2400 Precast Concrete Stormceptor®
(2400 U.S. Gallon Capacity)



Section Thru Chamber

Plan View

Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #5753115, #5849181, #6068765, #6371690, #7582216, #7666303.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 031

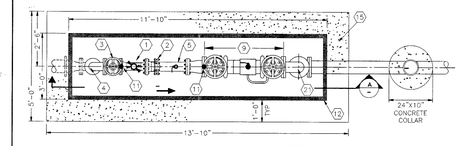
C RINKER STC 2400
NTS

APPROVED FOR CONSTRUCTION

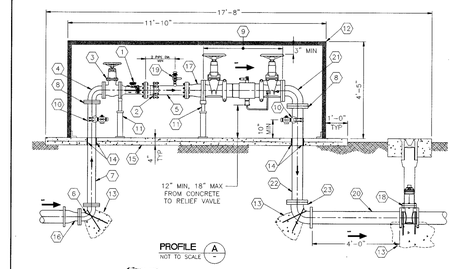
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135281 FIRST APPROVED DATE: 2-25-19

LVVWD APPROVED FIRE FLOW: TOTAL 4000 GPM / ONSITE 4000 GPM



PLAN VIEW OF 4" METER ASSEMBLY WITH 6" RPPA
NOT TO SCALE



MATERIAL LIST

1. 4" WATER METER (OCTAVE-ULTRASONIC)
2. 4" RFCA RESTRAINED FLANGED COUPLING ADAPTER
3. 4" FLG X FLG NRS GATE VALVE
4. 4" FLG X FLG 90° BEND
5. 4" FLG X PE DIP SPOOL WITH 2" TEST PORT
6. 4" FLG X MJ OR FLG X FLG 90° BEND
7. 4" FLG x PE DIP SPOOL (CUT AS REQUIRED)
8. ADAPTER FLANGE (RESTRAINED)
9. APPROVED IN LINE 6" REDUCED PRESSURE PRINCIPLE ASSEMBLY RPPA (WITH NRS VALVES)
10. 2" SERVICE SADDLE AND 2" N.P.T. CORP STOP W/ BRASS CAP (BYPASS TO BE INSTALLED 45° OFFSET FROM FLOW)
11. ADJUSTABLE PIPE SUPPORT
12. INSULATED ENCLOSURE
13. CONCRETE THRUST/ANCHOR BLOCK
14. 1/2" EXPANSION JOINT MATERIAL
15. CONCRETE PAD (4" THICK) WITH WELDED WIRE FABRIC, 4 x 4 – W1.4 x W1.4
16. 6" X 4" REDUCER FLANGED TO 90° BEND (FOR 3" OR 4" METER INSTALLATION ONLY)
17. 6" X 4" FLG REDUCER
18. PO X PO GATE VALVE TO MATCH PIPE SIZE
19. 2" BALL VALVE WITH 2.5"x2" ADAPTER AND BRASS CAP
20. 6" PE X PE PIPE SPOOL
21. 6" FLG X FLG 90° BEND
22. 6" FLG x PE DIP SPOOL (CUT AS REQUIRED)
23. 6" FLG X MJ OR FLG X FLG 90° BEND

DIMENSION NOTES:

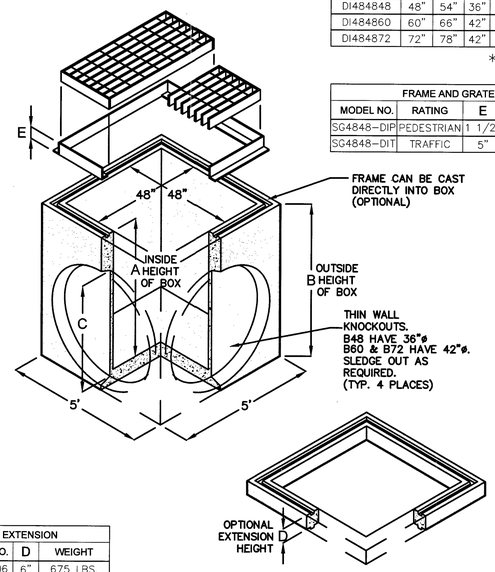
1. FOR 6" METER INSTALLATION, ALL PIPE SIZE AS SHOWN WILL INCREASE TO 6", WITH 8" PIPE AFTER AN 8" RPPA INSTALLATION
2. 8" X 6" REDUCER IS REQUIRED BETWEEN THE RFCA RESTRAINED FLANGED COUPLING ADAPTER AND THE RPPA FOR THE INSTALLATION OF AN 8" RPPA
3. ENCLOSURE SIZE FOR A 6" METER WITH A 6" RPPA (L x W x H) IS: 12FT X 3FT X 4.5FT (FOR ASSEMBLIES WITH NRS GATE VALVES)
4. ENCLOSURE SIZE FOR A 6" METER WITH AN 8" RPPA (L x W x H) IS: 14.5FT X 3.5FT X 5.5FT (FOR ASSEMBLIES WITH NRS GATE VALVES)
5. IF USING WATTS 909 SERIES PRRA, DIMENSIONS ARE: (L + 2FT) X (W+1FT) X H

B ULTRA SONIC METER WITH RPPA ASSEMBLY
NTS

DROP INLET				
MODEL NO.	A	B	C	*WEIGHT
DI484848	48"	54"	36"	4995 LBS.
DI484860	60"	66"	42"	6433 LBS.
DI484872	72"	78"	42"	7872 LBS.

*BOX ONLY

FRAME AND GRATE			
MODEL NO.	RATING	E	WEIGHT
SG4848–DIP	PEDESTRIAN	1 1/2"	242 LBS.
SG4848–DIT	TRAFFIC	5"	1000 LBS.



EXTENSION		
MODEL NO.	D	WEIGHT
RS484806	6"	675 LBS.
RS484812	12"	1350 LBS.

- FRAME AND GRATE ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- FRAME AND SOLID COVER ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- DESIGN FOR H-20-44 BRIDGE LOADING.
- ASSEMBLY TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.
- ILLUSTRATION IS TYPICAL ONLY OF GENERAL SERIES CONFIGURATION. FOR SPECIFIC CONFIGURATION, CALL JENSEN PRECAST.

48" X 48" DRAIN INLET

ORIG. DWG. DATE: 11-28-00 | REV. DWG. DATE:

JENSEN PRECAST

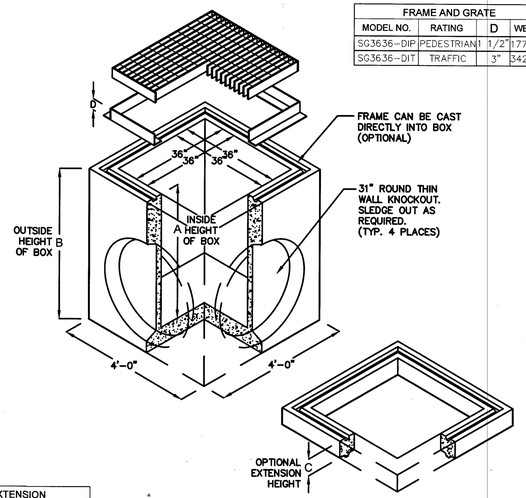
DI4848

8.07

DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI363636	36"	42"	3748 LBS.
DI363648	48"	54"	4752 LBS.

*BOX ONLY

FRAME AND GRATE			
MODEL NO.	RATING	D	WEIGHT
SG3636–DIP	PEDESTRIAN	1 1/2"	177 LBS.
SG3636–DIT	TRAFFIC	3"	342 LBS.



EXTENSION		
MODEL NO.	C	WEIGHT
RS363606	6"	525 LBS.
RS363612	12"	1050 LBS.

- FRAME AND GRATE ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- FRAME AND SOLID COVER ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- DESIGN FOR H-20-44 BRIDGE LOADING.
- ASSEMBLY TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.
- ILLUSTRATION IS TYPICAL ONLY OF GENERAL SERIES CONFIGURATION. FOR SPECIFIC CONFIGURATION, CALL JENSEN PRECAST.

36" X 36" DRAIN INLET

ORIG. DWG. DATE: 11-28-00 | REV. DWG. DATE:

JENSEN PRECAST

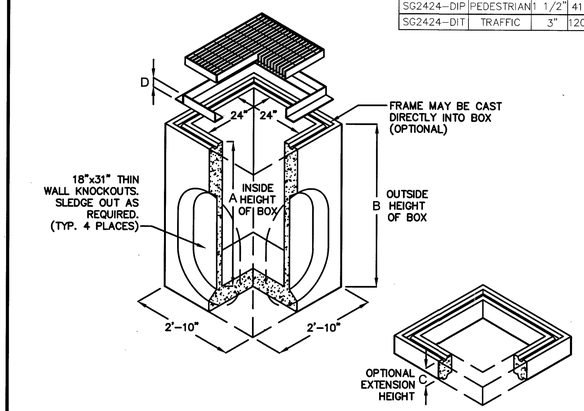
DI3636

8.05

DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI242436	36"	42"	1900 LBS.
DI242448	48"	54"	2500 LBS.

*BOX ONLY

FRAME AND GRATE			
MODEL NO.	RATING	D	WEIGHT
SG2424–DIP	PEDESTRIAN	1 1/2"	41 LBS.
SG2424–DIT	TRAFFIC	3"	120 LBS.



EXTENSION		
MODEL NO.	C	WEIGHT
RS242406	6"	300 LBS.
RS242412	12"	600 LBS.

- FRAME AND GRATE ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- FRAME AND SOLID COVER ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- DESIGN FOR H-20-44 BRIDGE LOADING.
- ASSEMBLY TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.
- ILLUSTRATION IS TYPICAL ONLY OF GENERAL SERIES CONFIGURATION. FOR SPECIFIC CONFIGURATION, CALL JENSEN PRECAST.

24" X 24" DRAIN INLET

ORIG. DWG. DATE: 11-28-00 | REV. DWG. DATE:

JENSEN PRECAST

DI2424

8.01

A JENSEN PRECAST DRAIN INLET
NTS

STATE OF NEVADA — PROFESSIONAL ENGINEER — TODD N. KELLEY — Exp. 6/30/2019 — CIVIL — No. 14471 — DATE: 2-19-19

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOW APP

PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-14-19
PLOT TIME: 14:38:35

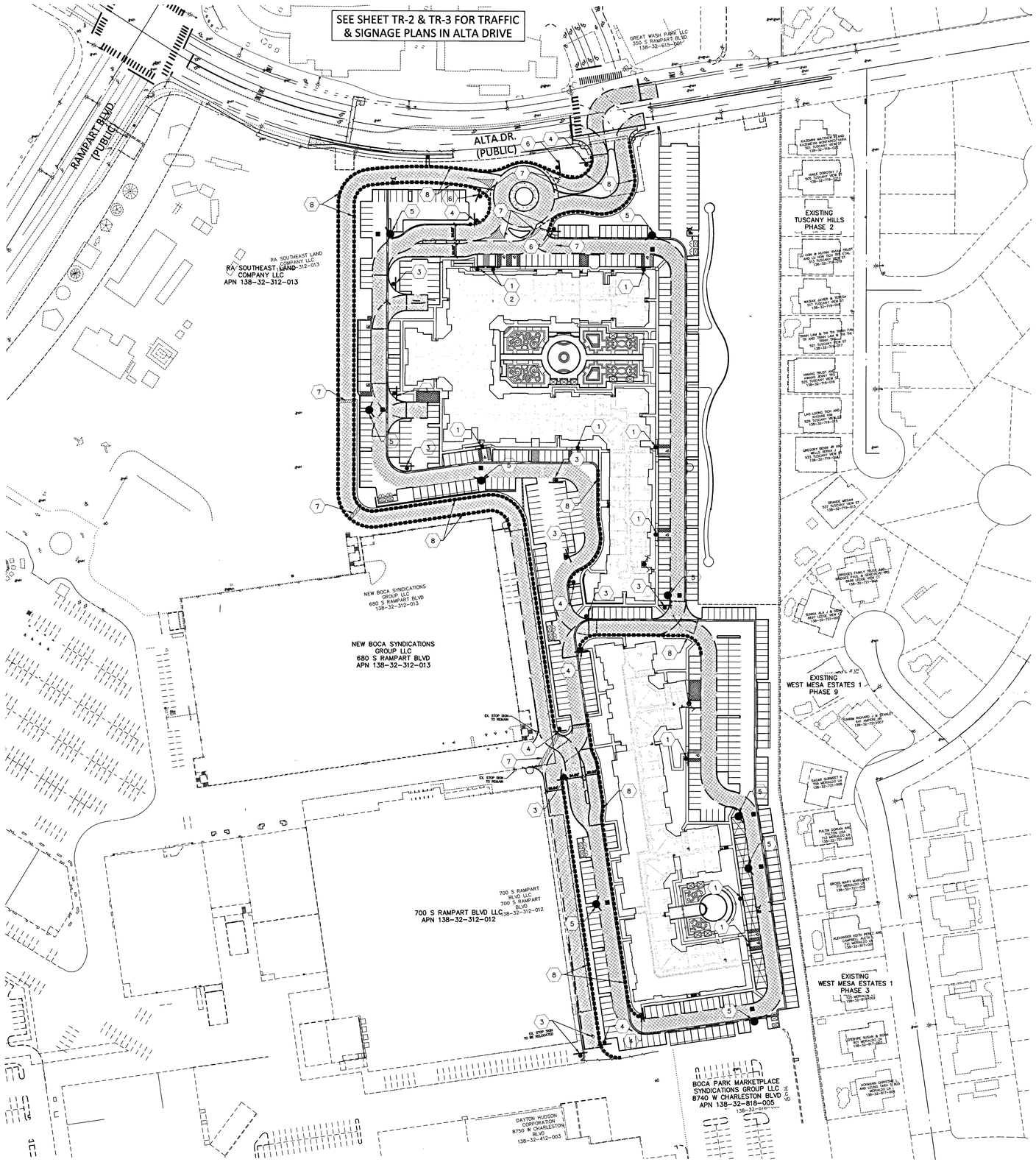
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\8942c031 - DT1.dwg
Hung Le

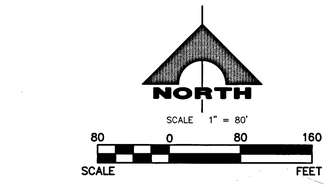
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
SECTIONS AND DETAILS 2

L18-01454 | CLV DWG#: 107V7415

DRAWING
DT-2
32 OF 37 SHTS

PRO.#:135281A QS:138-32-SE





ON-STREET PARKING IN MARKED FIRE LANE AREAS **PROHIBITED**

- RED OPAQUE LETTERING
- WHITE REFLECTIVE BACKGROUND
- 3/8-INCH RED OPAQUE BORDER

A - TYPE B "FIRE LANE" SIGN DETAIL 24"X18"



R1-1

B - R1-1 36"X36"



C - R1-2 24"

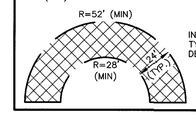
RED ENAMEL BACKGROUND — 36" X 4" WHITE LETTERING

NO PARKING FIRE LANE

D - TYPE C FIRE LANE SIGN

FIRE LANE LEGEND

- INDICATES RED PAINTED CURB WITH "NO PARKING – FIRE LANE" PAINTED EVERY 50 FT. PER CLARK COUNTY FIRE DEPARTMENT GUIDELINES.
- INDICATES PROPOSED LOCATION OF FIRE LANE SIGNS TO BE PLACED AT EVERY ENTRANCE STATING "ON-STREET PARKING IN FIRE LANES PROHIBITED". FIRE LANE SIGNS SHALL CONFORM TO CLARK COUNTY FIRE DEPARTMENT UNIFORM GUIDELINES.
- INDICATES PROPOSED LOCATION OF BLUE FIRE HYDRANT REFLECTIVE MARKER PER CLARK COUNTY FIRE DEPARTMENT GUIDELINES.
- FIRE PREVENTION DIVISION CONNECTION



INDICATES 24' MINIMUM WIDTH FIRE LANE AND TYPICAL TURNING RADIUS PER CLARK COUNTY FIRE DEPARTMENT GUIDELINES.

ON-SITE SIGNAGE CONSTRUCTION NOTES

NO.	ITEM
	UDACS: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
1	INSTALL HANDICAP PARKING SIGN–INSTALL R7–8 (12"x16") WITH $100.00 FINE IF USED BY OTHERS. NRS 484–408 ANSI 4.3 AND 4.28/ FOR INSTALLATION SEE USD #249.1.
2	INSTALL R7–8B, VAN ACCESSIBILITY, SIGN
3	INSTALL R1–1 "STOP" SIGN PER USDCCA DWG. NO. 249.1 AND PER DETAIL 'B' ON THIS SHEET.
4	INSTALL "FIRE LANE" SIGN PER DETAIL "A" ON THIS SHEET.
5	INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40.
6	INSTALL R1–2 "YIELD" SIGN PER DETAIL 'C' THIS SHEET.
7	INSTALL PAVEMENT MARKINGS.
8	INSTALL TYPE C FIRE LANE SIGN (CURB PAINT MARKING) PER DETAIL D THIS SHEET AT 50' O.C. ALONG FIRE ACCESS LANE.

Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 or 1-800-227-2600

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

FAST — Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Fire Lanes

Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7315 mm), exclusive of shoulders, except for approved access gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm)

Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus, with a minimum vehicle load of 33,000 pounds per axle, and shall be surfaced and paved so as to provide all-weather driving capabilities

The required turning radius of a fire apparatus access road shall be no less than 28 feet inside turning radius and 52 feet outside turning radius.

The grade of the fire apparatus access road shall not exceed 12 percent

Fire apparatus access roads shall be marked to prohibit parking and other obstructions. Marking shall consist of painting the curb, or the side of the street, where no curb is present, with a suitable coat of industrial red enamel along the entire length of road where parking is prohibited. Each section of curb that is painted red shall also be marked by signage stating "NO PARKING FIRE LANE" (Type A sign). Signs are to be installed no higher than 10 feet or less than 6 feet from the surface of the roadway. Signs shall be located at each end of painted curb, and additionally in between so that the maximum separation between signs is 100 feet, as measured along the centerline of the fire apparatus access road.

In lieu of providing multiple signs, where a minimum of one sign is provided at every entrance stating "ON-STREET PARKING IN MARKED FIRE LANES PROHIBITED" (Type B sign), fire lanes may be marked by painting the words "NO PARKING FIRE LANE", over the face of the red-painted curbs (Type C sign). The words on the curbs shall be painted in white letters not less than 4 inches in height with a brush stroke of not less than ¾ inch. The maximum separation between words shall be 50 feet, as measured along the centerline of the fire apparatus access lane.

APPROVED FOR CONSTRUCTION

7/14/19 DATE

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	S.E.T.	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE–OBSERVED 2005–2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2000 TO ALL SPOT ELEVATION TAGS.

L18–01454 | CLV DWG#: 107V7415

ENGINEER'S CERTIFICATE — STATE OF NEVADA — TODD M. KELLEY — No. 17881 — PROFESSIONAL — CIVIL — Exp. 6/30/2019 — DATE 2-14-19

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 894-002
DESIGN DEMOLITION PLAN
DRAWN:
CHECK:
PLOT DATE 02-14-19
PLOT TIME 15:27:17

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\8942c032.dwg
Hung Le

THE CALIDA GROUP

ELYSIAN AT RENAISSANCE

FIRE LANE, ONSITE SIGNAGE AND STRIPING PLAN

DRAWING TR-1
33 OF 37 SHTS

CONSTRUCTION NOTES

SIGNAGE AND STRIPING

1. TYPE 1 CENTERLINE (RPM) (USDCCA STD. DWG. NO. 244)
2. 24-INCH WHITE CROSSWALK (PMF-TYPE 2) (USDCCA STD. DWG. NO. 254)
3. 24-INCH WHITE STOP LINE (PMF-TYPE 2) (USDCCA STD. DWG. NO. 254)
4. STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
5. WHITE PAVEMENT ARROW (PMF-TYPE 2)
6. 6-INCH SOLID WHITE (USDCCA STD. DWG. NO. 244.5)
7. MEDIAN NOSE MARKING (USDCCA STD. DWG. NO. 248)
8. CAT TRACK LINE (SEE DETAIL 1, THIS SHEET)
9. INSTALL NEW SIGN(S)
10. REMOVE EXISTING STRIPING IN CONFLICT

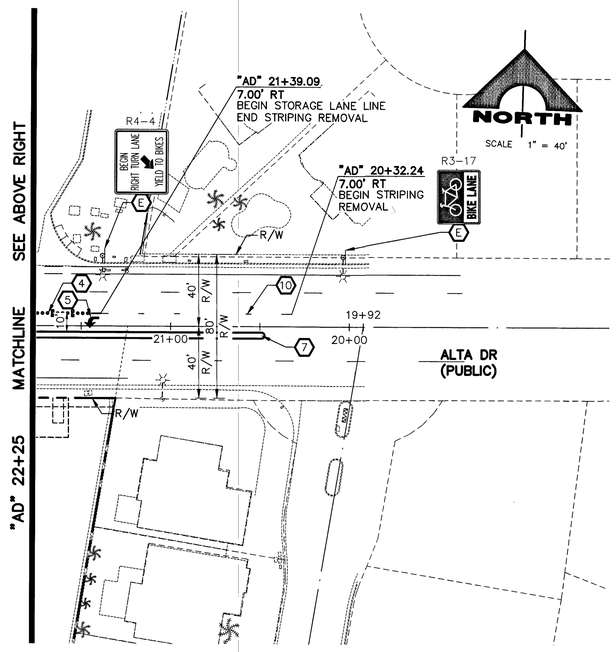
R. REMOVE AND SALVAGE SIGN(S)

E. EXISTING SIGN(S) TO REMAIN

NOTE: SEE SHEET C2, C3 & C4 FOR ABBREVIATIONS AND QUANTITIES

NORTH
SCALE 1" = 40'

RAMPART BLVD (PUBLIC)
ALTA DR (PUBLIC)
"AD" 22+25 MATCHLINE SEE BELOW LEFT
"AD" 28+38.41 34.00' LT BEGIN 6-INCH SOLID WHITE
"AD" 26+21.60 30.60' LT END 6-INCH SOLID WHITE MATCH EXISTING
"AD" 23+95 END CAT TRACK
"AD" 24+31 END CAT TRACK
"AD" 23+32 BEGIN CAT TRACK
"DR-1" 0+40 BEGIN CAT TRACK
PROJECT ACCESS "DR-1" 0+00.00
ALTA DR "AD" 24+13.73
R=75'
R=85'
R6-1R 36"X12"
R3-7R RIGHT LANE MUST TURN RIGHT BUSES EXEMPT W16-12
R3-7R (SPECIAL) RIGHT LANE MUST TURN RIGHT
R3-7R RIGHT LANE MUST TURN RIGHT
R3-7R RIGHT LANE MUST TURN RIGHT
R3-7R RIGHT LANE MUST TURN RIGHT
R3-17 BIKE LANE
R3-2
R1-1 STOP
R1-1 STOP
R8-3d SPECIAL
R2-1 R5-2 SPEED LIMIT 30
RTC STOP
RTC STOP
RTC STOP
R/W
6'
11'
+55
+90
+26
+00
22+00
23+00
24+00
25+00
26+00
27+00
28+00
29+00
30+00
31+00
32+00
1+00
2+00
3+00
4+00
5+00



DIRECTION OF TRAVEL
1' 1' 6'
TYPE F RPM FOR THROUGH LANE EXTENSION.
TYPE E FOR MULTIPLE LEFT EXTENSION.
(TYPE PER USD DWG. NO. 247)
TYPE A RPM
(TYPE PER USD DWG. NO. 247)

CAT TRACK LINE DETAIL
SCALE: NONE
1 TR-2

SCALE 40 0 40 80 FEET

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2000 TO ALL SPOT ELEVATION TAGS.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

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

FAST
Call before you UnderGround.
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA REGISTERED PROFESSIONAL ENGINEER JOHN R. ROBIN No. 8195 Exp. 06/30/2020 CIVIL

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP	DATE:
						9/17/19

PROJECT NO. 894-002
DESIGN: DEMOLITION PLAN
DRAWN:
CHECK:
PLOT DATE: 03-07-19
PLOT TIME: 15:43:33

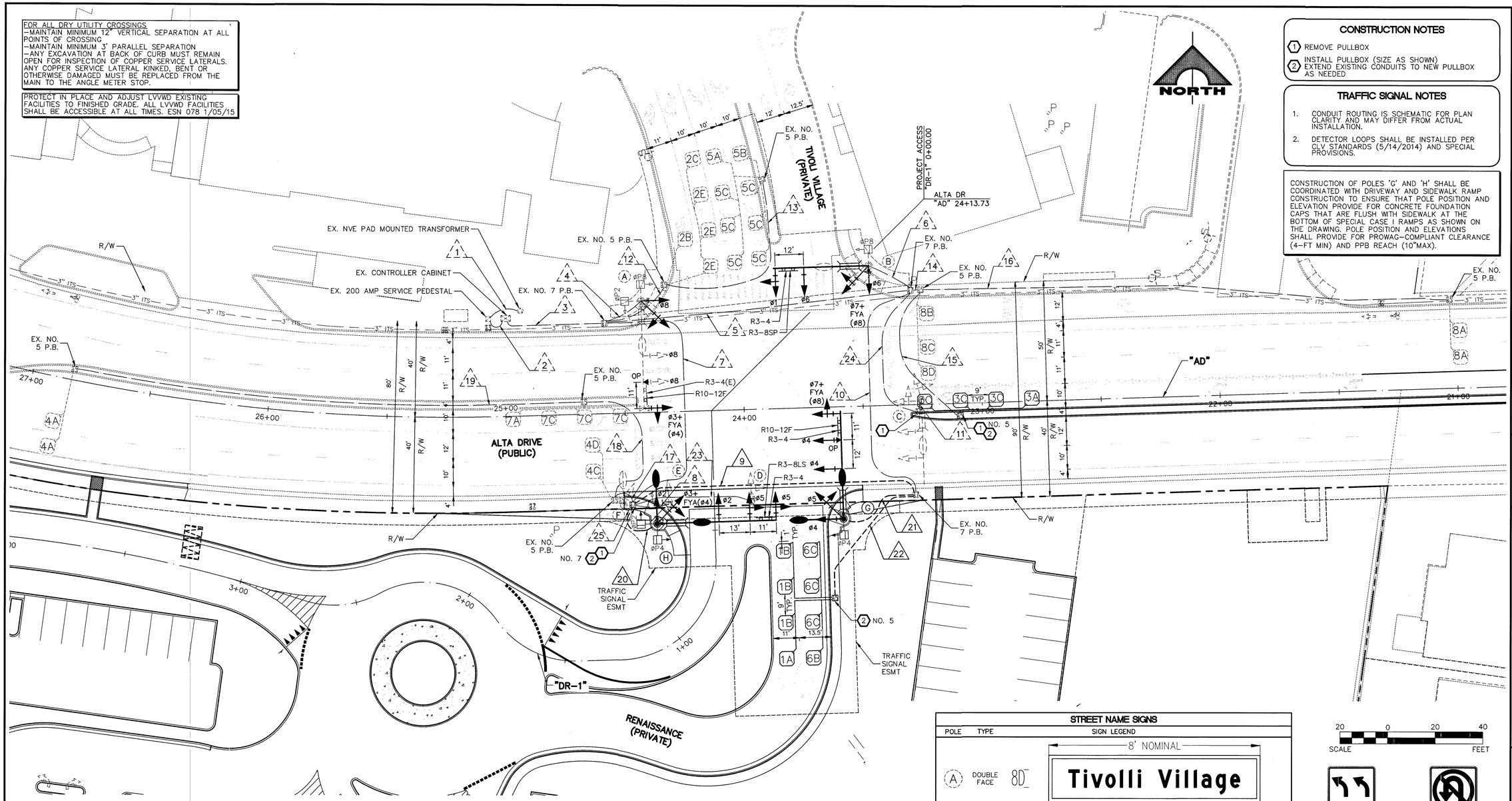
GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\8601\894-002\DWG\Production\8942c034 - TR-2.dwg
Hung Le

THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
OFFSITE SIGNAGE AND STRIPING PLAN

DRAWING TR-2
34 OF 37 SHTS

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

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES. ESN 078 1/05/15



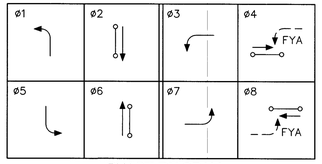
CONSTRUCTION NOTES

1. REMOVE PULLBOX
2. INSTALL PULLBOX (SIZE AS SHOWN) EXTEND EXISTING CONDUITS TO NEW PULLBOX AS NEEDED

TRAFFIC SIGNAL NOTES

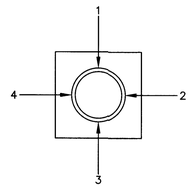
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
2. DETECTOR LOOPS SHALL BE INSTALLED PER CLV STANDARDS (5/14/2014) AND SPECIAL PROVISIONS.

CONSTRUCTION OF POLES 'G' AND 'H' SHALL BE COORDINATED WITH DRIVEWAY AND SIDEWALK RAMP CONSTRUCTION TO ENSURE THAT POLE POSITION AND ELEVATION PROVIDE FOR CONCRETE FOUNDATION CAPS THAT ARE FLUSH WITH SIDEWALK AT THE BOTTOM OF SPECIAL CASE I RAMPS AS SHOWN ON THE DRAWING. POLE POSITION AND ELEVATIONS SHALL PROVIDE FOR PROWAG-COMPLIANT CLEARANCE (4-FT MIN) AND PPB REACH (10"MAX).



PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED
OPTICOM PHASES 4 & 8
ø3 AND ø7 SHALL OPERATE AS FLASHING YELLOW ARROW



QUADRANT LOCATOR

ARM OR SIGNAL LOCATION (TOP VIEW)

STREET NAME SIGNS

POLE	TYPE	SIGN LEGEND (8' NOMINAL)
A	DOUBLE FACE 8D	Tivolli Village
B	DOUBLE FACE 8D 5C	W Alta Dr 8800 5C 5C
G	DOUBLE FACE 8D	Renaissance
H	DOUBLE FACE 8D 5C	W Alta Dr 8900 5C 5C

NOTE:
1. CONTRACTOR TO VERIFY STREET NAME, SUFFIX, DIRECTION, AND BLOCK NUMBER WITH CLV PLANNING DEPARTMENT PRIOR TO ORDERING SIGNS.
2. DIRECTION, BLOCK NO., SUFFIX: 5" HWY "D" STREET NAME: 12" UPPERCASE, 9" LOWERCASE HWY "D" OR "C" ONLY IF NECESSARY.
3. BORDER REQUIRED. 3M GREEN ON WHITE DIAMOND SHEETING. DOUBLE-SIDED.
4. POWER ILLUMINATED SIGN WITH LUMINARE DIRECTLY ABOVE TRAFFIC SIGNAL MAST ARM.

SCALE 20 0 20 40 FEET



R3-8LS
36" X 36"

R3-4
30" X 30"



R10-12F
30" X 36"
(SEE DETAIL ON DRAWING TR-4)



R3-8SP
36" X 36"





GCW
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1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production\894z036 - TR-4.dwg
Yung Le

THE CALIDA GROUP

ELYSIAN AT RENAISSANCE

ALTA DRIVE/PROJECT DW
TRAFFIC SIGNAL PLAN

DRAWING
TR-3
35 OF 37 SHTS

PROJECT NO. 894-002
DESIGN: DEMOLITION PLAN
DRAWN:
CHECK:
PLOT DATE: 03-07-19
PLOT TIME: 15:44:17

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP	DATE

STATE OF NEVADA – REGISTERED PROFESSIONAL ENGINEER – JOHN R. DOBIN – No. 8159 – CIVIL – EXP. 06/30/2020 – DATE: 3/7/19

L18-01454 | CLV DWG#: 107V7415

CLV TRAFFIC SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA 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	1-702-432-5300

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 AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 644, AND SHALL HAVE A MENERALLAC SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.

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 #3/0 AWG THW, LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).

6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 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 SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.

7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623 T.02.16 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 NO. 705, NO. 706, AND NO. 707.

10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.

11. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH IN2 PUSH BUTTON STATIONS AND SHELF-MOUNT BIU CONTROL UNIT WITH SDLC CABLE) OR CAMPBELL COMPANY WIAPPS WIRELESS PEDESTRIAN PUSHBUTTON SYSTEM WITH APC IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3E PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"X12" SIGN, AND SHALL BE PORCELAIN-ENAMELED METAL. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. NO. 235 (1-4) LATEST EDITION. WHEN AN EXISTING SIGNAL WITH EXISTING AUDIBLE-TACILE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.

12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.

13. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD. WHERE FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12P "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.

14. TRAFFIC SIGNAL CABINET SHALL BE A TYPE VIII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET, SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS,SHALL BE A 48 DETECTOR CHANNEL R CABINET AND SHALL INCLUDE TWO (2) RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS, WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE AND 4 CHANNEL SLOTS THAT CAN ACCOMMODATE VIDEO DETECTION CARDS. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR IN A 760 RACK, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES.

15. THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) AND TRAFFIC SIGNAL CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING PURPOSES. THE CONTROLLER SHALL BE A NAZTEC 980 ATC TS2 TYPE 2 NTCIP COMPLIANT SIGNAL CONTROLLER WITH INTSTALLED AND LICENSED APOGEE CONTROLLER SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-16O0SE AS MANUFACTURED BY RENO A&E., OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO, AND PICKUP THE CONTROLLER AT 2985 RONEMUS DRIVE. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6076) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL OF MMU OR CONTROLLER FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE CONTROLLER OR MMU AFTER THE PROJECT IS ACCEPTED.

16. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.

17. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.

18. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #UXM-400-***-VEU, OR DIALIGHT MODEL #430-6479-001X, OR APPROVED EQUAL. THE "COUNTDOWN" MESSAGE SHALL NOT FLASH. WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.

19. VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2 WITH EDGECONNECT PAK, (IP ADDRESSABLE); PEEK VIDEOTRAK IQ (WITH ETHERNET PORT); OR TRAFICON VIP WITH VIEWCOM (IP ADDRESSABLE). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS, ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ANY NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTAOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCS) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 8281 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND COAXIAL CABLE INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AB-0166-5-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.

20. WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 T.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

21. OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE. THE SOUTHBOUND OPTICOM DETECTOR SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.

22. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.

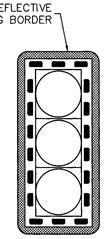
23. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.

24. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.

25. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.

26. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED 2/27/18

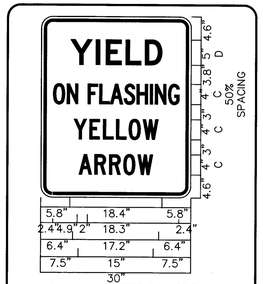


(NTS)

BACKPLATE WITH RETROREFLECTIVE SHEETING BORDER

NOTES:

1. ALL MAST ARM MOUNTED TRAFFIC SIGNAL BACKPLATES SHALL HAVE A 2-INCH RETROREFLECTIVE ADHESIVE SHEETING BORDER ON THE ENTIRE OUTER PERIMETER OF THE FRONT SIDE OF THE BACKPLATE.
2. RETROREFLECTIVE SHEETING SHALL BE FLUORESCENT YELLOW, ASTM TYPE IV OR BETTER.
3. THE RETRORETLECTIVE SHEETING BORDER SHALL HAVE A MINIMUM OF ½ INCH CLEARANCE FROM ALL LOUVERS. NO RETROREFLECTIVE SHEETING SHALL BE PLACED OVER ANY LOUVERED AREA.
4. RETROREFLECTIVE SHEETING BORDER SHALL BE INSTALLED BY THE MANUFACTURER, AND MODIFICATIONS SHALL NOT BE MADE BY THE CONTRACTOR.
5. THE BACKPLATE WITH RETROREFLECTIVE SHEETING BORDER SHALL BE FROM THE SAME MANUFACTURER AS THE SIGNAL HEAD ASSEMBLY. THE COMPLETE SIGNAL HEAD ASSEMBLY, INCLUDING THE BACKPLATE, SHALL BE CAPABLE OF WITHSTANDING WINDS OF 90 MPH WITHOUT DAMAGE OR SEPARATION OF ANY PARTS FROM THE SIGNAL HEAD ASSEMBLY.
6. PICTURE SHOWN IS AN EXAMPLE OF A THREE SECTION HEAD. OVERALL LENGTH OF THE BACKPLATE AND NUMBER OF LOUVERS WILL VARY FOR OTHER SIGNAL HEAD ASSEMBLIES.



1.9" RADIUS, 0.8" BORDER, 0.5" INDENT
BLACK LETTERING ON WHITE PANEL

SIGN DETAIL R10-12F

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	VIA CONDUIT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EXISTING	NPC TRANS.(E)	SERVICE PED.(E)	E																								
EXISTING	SERVICE PED.(E)	CONTROLLER(E)		E																							
EXISTING	CONTROLLER(E)	POLE A(E)			E	E																					
EXISTING	CONTROLLER(E)	POLE B(E)			E		E	E																			
EXISTING	CONTROLLER(E)	POLE C(E)			R		R					R														R	
EXISTING	CONTROLLER(E)	POLE D(E)			R				R																R		
EXISTING	CONTROLLER(E)	POLE E(E)			R				R	R																	
EXISTING	CONTROLLER(E)	POLE F(E)			R				R																		R
25 CONDUCTOR #14 SIG. CABLE (IMSA 20-1) 2-#10 AWG. THW-2 OR XHHW-2 OPTICOME M-138 CABLE	CONTROLLER(E)	POLE G		X		X					X								X				X			
25 CONDUCTOR #14 SIG. CABLE (IMSA 20-1) 2-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E)	POLE H		X					X									X				X				
6 PAIR #18 AWG MULTI-CONDUCTORS LOOP LEAD-IN CABLES	CONTROLLER(E)	DET ø1A, ø1B(3), DET ø6B, ø6C(3)		X					X														X			
EXISTING	CONTROLLER(E)	DET ø2B, ø2C, ø2E(E)		E									E														
6 PAIR #18 AWG MULTI-CONDUCTORS LOOP LEAD-IN CABLES	CONTROLLER(E)	DET ø3A, ø3B(3)		X		X											X										
EXISTING	CONTROLLER(E)	DET ø4A(E)		E					E										E	E	E						
EXISTING	CONTROLLER(E)	DET ø4C, ø4D(E)		E					E										E								
EXISTING	CONTROLLER(E)	DET ø5A, ø5B, ø5C(E)		E									E	E													
EXISTING	CONTROLLER(E)	DET ø7A, ø7C(E)		E		E													E	E							
EXISTING	CONTROLLER(E)	DET ø8A(E)		E		E											E		E								
EXISTING	CONTROLLER(E)	DET ø8B, ø8C, ø8D(E)		E		E											E										
CONDUIT SIZE			1-3" (E)	1-3" (E)	6-3" (E)	1-3" (E)	2-3" (E)	1-3" (E)	3-3" (E)	1-3" (E)	2-3"	2-3" (E)	1-3" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-2" (E)	1-3"	1-3"	1-2"	1-3" (E)	1-3" (E)	1-3" (E)

A NO. 8 GREEN GROUNDING WIRE SHALL BE RUN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
R = REMOVE AND SALVAGE WIRE AND CABLE TO POLES TO BE REMOVED.
E = EXISTING WIRE AND CABLE TO REMAIN. REMOVE AND REPULL AS NEEDED.
CONDUIT AND WIRE SCHEDULE REFLECTS RECORD DRAWINGS. ACTUAL WIRING MAY DIFFER.

POLE SCHEDULE

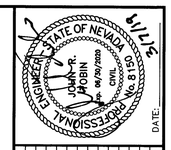
POLE	LOCATION STATION (OFFSET)	POLE TYPE	SIGNAL ARM QUAD.	SIGNAL ARM LENGTH	LUMINAIRE ARM QUAD.	LUMINAIRE ARM LENGTH	VEHICULAR SIGNALS TYPE	VEHICULAR SIGNALS QUAD.	PEDESTRIAN SIGNALS TYPE	PEDESTRIAN SIGNALS QUAD.	PEDESTRIAN PUSH BUTTON QUAD. (PHASE)	PEDESTRIAN PUSH BUTTON SIGN	REMARKS
(A)	EXISTING	XX-A(E)	3(E)	45'(E)	3(E)	15'(E)	M-4 M-2(2)(E) B-2T	MAST ARM(E) MAST ARM(E) 1(E)	W-3T(E)	1(E)	2(ø2)(E) 3(ø8)(E)	LT(E) RT(E)	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE EXISTING B-1T SIGNAL ASSEMBLY. MOUNT R3-4 AND R10-12P ON MAST ARM. INSTALL OPTICAL DETECTOR (ONE-WAY) ON M-2. REMOVE AND SALVAGE EXISTING OPTICAL DETECTOR (TWO-WAY).
(B)	EXISTING	XX-A(E)	4	40'	4(E)	15'(E)	M-2(2) B2-43	MAST ARM(E) 2(E)	W-0T(E)	2(E)	3(ø8)(E)	LT(E)	MOUNT NEW MAST ARM ON EXISTING POLE. REMOVE AND SALVAGE EXISTING B1-4 SIGNAL ASSEMBLY. MOUNT R3-4, AND R3-8SP ON MAST ARM. MOUNT STREET NAME SIGN PER SCHEDULE.
(C)	EXISTING	XX(E)	3(E)	35'(E)	3(E)	15'(E)	M-2(2)(E) B2-43(E)	MAST ARM(E) 1(E)	-	-	-	-	EXISTING POLE ASSEMBLY TO BE REMOVED AND SALVAGED UPON ACTIVATION OF POLE G. REMOVE FOUNDATION TO 18" BELOW GRADE.
(D)	EXISTING	1-A(E)	-	-	-	-	A-2T(E)	POST TOP(E)	-	-	-	-	EXISTING POLE ASSEMBLY TO BE REMOVED AND SALVAGED UPON ACTIVATION OF POLE H. REMOVE FOUNDATION IN ITS ENTIRETY.
(E)	EXISTING	1-A(E)	-	-	-	-	A-2T(E)	POST TOP(E)	W-0T(E)	4(E)	4(ø2)(E)	LT(E)	EXISTING POLE ASSEMBLY TO BE REMOVED AND SALVAGED UPON ACTIVATION OF POLE H. REMOVE FOUNDATION IN ITS ENTIRETY.
(F)	EXISTING	STREET LIGHT(E)	-	-	1(E)	8'(E)	B-1T(E)	3(E)	-	-	-	-	EXISTING POLE ASSEMBLY TO BE REMOVED SALVAGED UPON ACTIVATION OF POLE H. REMOVE FOUNDATION TO 18" BELOW GRADE.
(G)	ALTA DRIVE 23+59.7 46.8' LT	XX-30	1	45'	1 4	15' 15'	M-4 M-2(2) B-2T	MAST ARM MAST ARM 3	W-0T	3	1(ø4)	RT	INSTALL NEW POLE ON TYPE H FOUNDATION. MOUNT R3-4 AND R10-12P ON MAST ARM. MOUNT STREET NAME SIGN PER SCHEDULE. INSTALL OPTICAL DETECTOR (ONE-WAY) ON M-2.CONCRETE CAP SHALL BE FLUSH WITH SIDEWALK. POLE POSITION AND ELEVATION SHALL BE COORDINATED WITH SIDEWALK CONSTRUCTION TO PROVIDE PROWAG-COMPLIANT CLEARANCE (4-FT MIN) AND PPB REACH (10" MAX).
(H)	ALTA DRIVE 24+38.0 46.6' LT	XX-30	2	50'	1 2	15' 15'	M-2(3) B2-43	MAST ARM 4	W-3T	4	1(ø4) 2(ø2)	LT RT	INSTALL NEW POLE ON TYPE H FOUNDATION. MOUNT R3-4 ON MAST ARM. MOUNT STREET NAME SIGN PER SCHEDULE. CONCRETE CAP SHALL BE FLUSH WITH SIDEWALK. POLE POSITION AND ELEVATION SHALL BE COORDINATED WITH SIDEWALK CONSTRUCTION TO PROVIDE PROWAG-COMPLIANT CLEARANCE (4-FT MIN) AND PPB REACH (10" MAX).

(E) = EXISTING
ALL MAST ARM SIGNAL HEADS SHALL INCLUDE RETROREFLECTIVE SHEETING BORDERS, SEE DETAIL ON THIS SHEET.





L18-01454 | CLV DWG#: 107V7415



DATE: | GCW APP | DATE | AGEN APP | DATE | DESCRIPTION | REV | DATE

PROJECT NO. 894-002
DESIGN: EVOLUTION PLAN
DRAWN:
CHECK:
PLOT DATE: 03-07-19
PLOT TIME: 15:44:48

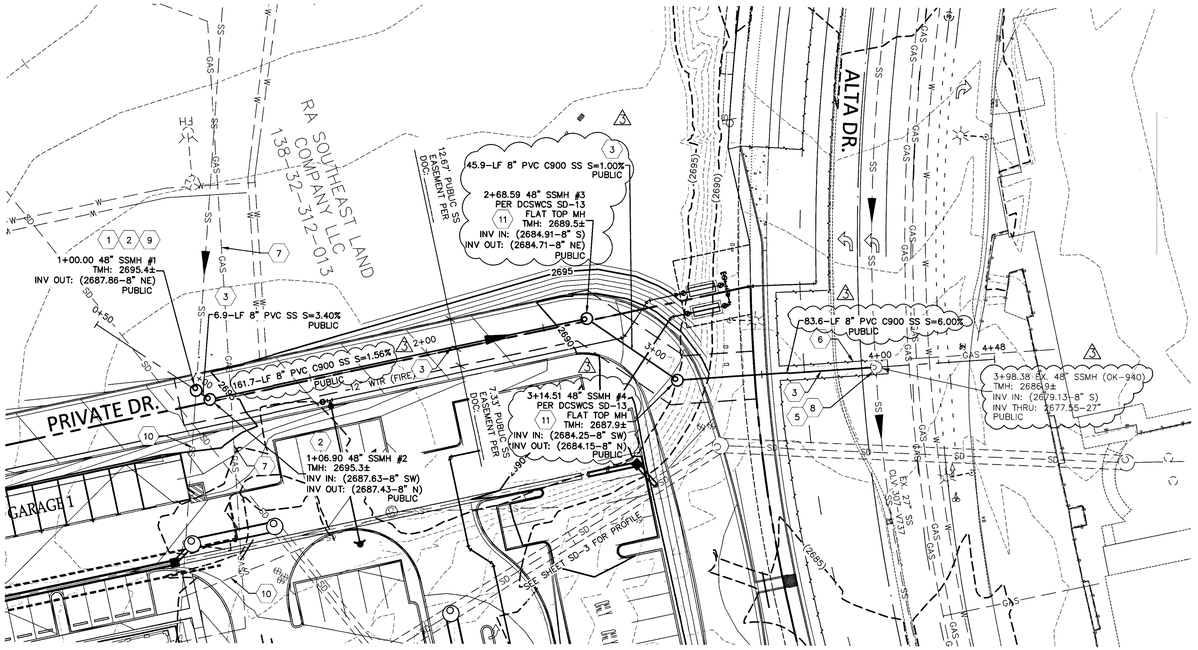
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\800\894-002\DWG\Production\B942c036 - TR-4.dwg
Hung Le

THE CALIDA GROUP

ELYSIAN AT RENAISSANCE

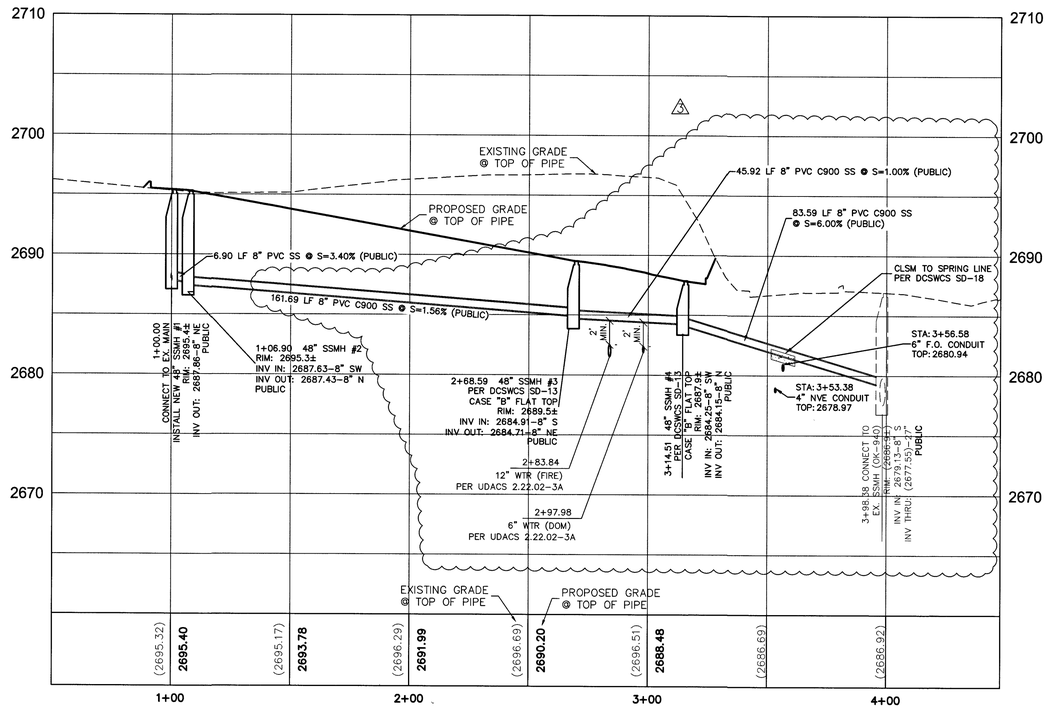
TRAFFIC SIGNAL SCHEDULES AND DETAILS

DRAWING
TR-4
36 OF 37 SHTS



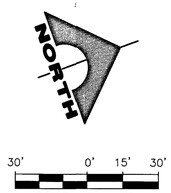
OSS PLAN VIEW

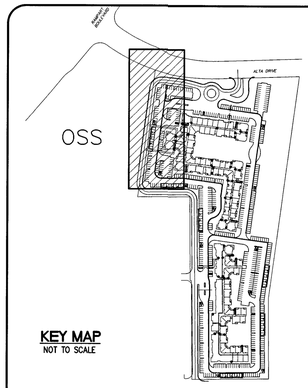
SCALE: 1"=30' HORIZONTAL



OSS PROFILE

SCALE: 1"=30' HORIZONTAL
1"=6' VERTICAL





KEY MAP
NOT TO SCALE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2800

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

NOTE TO CONTRACTOR

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

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED.

PUBLIC SANITARY SEWER MANHOLE TABLE

ID #	LATITUDE	LONGITUDE
SSMH #1	N 36°09'56.01199"	W 115°17'13.87850"
SSMH #2	N 36°09'56.05286"	W 115°17'13.81116"
SSMH #3	N 36°09'57.63650"	W 115°17'13.54010"
SSMH #4	N 36°09'57.90296"	W 115°17'13.08672"
OK-940	N 36°09'58.69724"	W 115°17'12.80491"

CONSTRUCTION NOTES

SANITARY SEWER

1. CONNECT TO EXISTING PIPE AND VERITY INVERT ELEVATION.
2. CONSTRUCT 48" SANITARY SEWER MANHOLE PER DCSWCS SD-1, W SINGLE 24" LID (PUBLIC).
3. INSTALL SANITARY SEWER PIPE.
4. INSTALL 6" SANITARY SEWER LATERAL (PRIVATE).
5. INSTALL FIELD APPLIED CORROSION PROTECTION PER DCSWCS 2.3.19H & 3.16.8B.
6. TRENCH BACKFILL AND AC RESTORATION PER CCAUSD DWG NO 503 & 500.5.
7. CONTACT SW GAS CORPORATION FOR ABANDONMENT SCHEDULE.
8. CONNECT TO EXISTING SSMH, VERIFY INVERT ELEV.
9. CONSTRUCT CAST-IN-PLACE MANHOLE BASE PER DCSWCS SD-7.
10. ABANDON EX. SEWER, SEE DEMOLITION PLAN.
11. CONSTRUCT 48" SANITARY SEWER MANHOLE PER DCSWCS SD-13 CASE "B" FLAT TOP MH.

BENCHMARK

STATION		ELEVATION	DESCRIPTION
OLVOO 32C4	SET	820.819 (M) 2692.97 (FT.)	BEING A RIVET & PLATE TOP CURB SE CORNER OF RAMPART AND ALTA.

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED 2005-2007) BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

ADD 2600 TO ALL SPOT ELEVATION TAGS.

BASIS OF BEARINGS

SOUTH 00°32'07" EAST, BEING THE BEARING OF THE CENTERLINE OF RAMPART BOULEVARD AS SHOWN IN FILE 117, PAGE 83 OF PARCEL MAPS ON FILE AT CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L18-01454 | CLV DWG#: 107V7415

STATE OF NEVADA — TODD N. KELLEY — No. 14711 — PROFESSIONAL ENGINEER — DATE: 2-28-20

REV	DATE	DESCRIPTION	DATE	AGENT APP	DATE	CCW APP
1	8/22/19	SS PIPE SLOPE & MH'S FOR FS/AVE CONDUIT CONFLICTS	8/19/19			

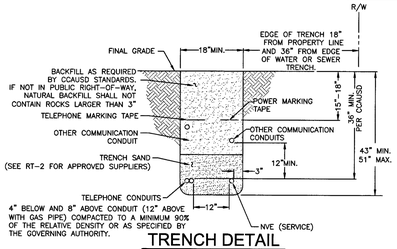
PROJECT NO. 894-002
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 08-28-19
PLOT TIME: 13:11:08

GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\800\894-002\DWG\Production-R\8942c037 - OSS.dwg
Todd Kelley

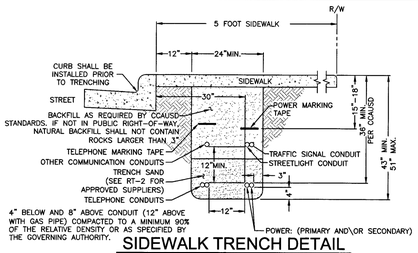
THE CALIDA GROUP
ELYSIAN AT RENAISSANCE
OFFSITE SANITARY SEWER PLAN AND PROFILE

DRAWING
OSS
37 OF 37 SHTS



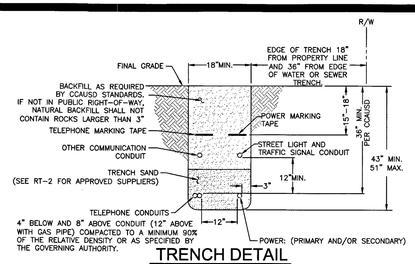
TRENCH DETAIL

NVE U.G. STD. RT-8 (REV. 10/27/2014)
(RESIDENTIAL SERVICE)



SIDEWALK TRENCH DETAIL

NVE U.G. STD. RT-7 (REV. 10/27/2014)
(RESIDENTIAL OR COMMERCIAL)



TRENCH DETAIL

NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)

CIVIL LINETYPE LEGEND

CENTERLINE
PROPERTY LINE/ROW
CURB
EDGE OF PAVEMENT
EDGE OF SIDEWALK
SEWER LINE (S)
WATER LINE (W)
COHW WATER LINE (COHW)
LVWD WATER LINE (LVWD)
SNWA WATER LINE (SNWA)
GAS LINE (GAS)
TELEPHONE LINE (TEL)
CABLE TV LINE (CATV)
CABLE TV LINE (FIBER)
STORM DRAIN LINE (SD)
FIRE HYDRANT
SERVICE INDICATOR
SIGNAL LIGHT
STREET LIGHT

SOURCE FC OR RISER	PH.	PROJECT CONNECTED LOAD (3ø) EX: KVA	ADDED KVA	TOTAL KVA	LOOP FC OR RISER
FC3082	A	75	725	800	DFC9200
UGM10860	B	75	725	800	UGM42530
HU1205	C	75	725	800	HU1205

GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90', 45') WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90', 45') WITH 36" MIN. RADIUS.
(USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90', 45') WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

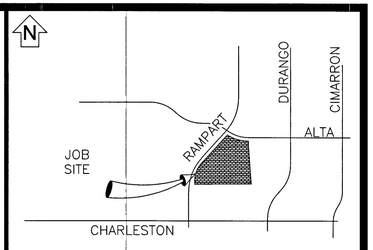
NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

NVE STANDARDS

T,R,S: 20-60-32

APN: 13832723003



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 DO OVERHEAD
CALL 1-702-402-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	UPDATED DESIGN TO REFLECT FIELD CONDITIONS. SHT.3 - N.Y.	7/1/2019	---

NON-STANDARD

PROJECT PURPOSE:

PROVIDE NEW 600A, 800A, 1000A & 1200A 120/208V 3ø SERVICES & (2)125AMP 120/208V 3ø TO NEW APARTMENT COMPLEX.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SALIMA, HOWARD
PHONE: 702-419-6872 D.F. LOWELL, KEN
DESIGNER: YOSEF, NEAL
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT
JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: DC RAMPART OWNER LLC
ENGINEER: GCW ENGINEERS
CONTACT: RIAL, RICH ** 702-276-0527
APPROVAL DATE: 6/17/2019
GOVERNMENT INFORMATION:
AGENCY: CLV I
APPROVAL DATE: ---- I

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

NVEnergy

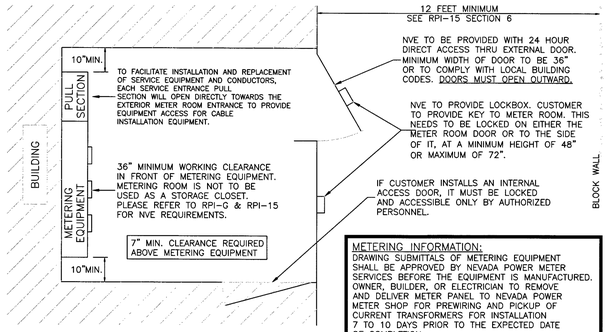
ELYSIAN AT RENAISSANCE

ALTA / RAMPART 38

PROJ #3003140296	SCALE: 1"=30'
SHEET # 1 OF 6	DATE: 3/7/2019

7/1/2019 8:56 AM

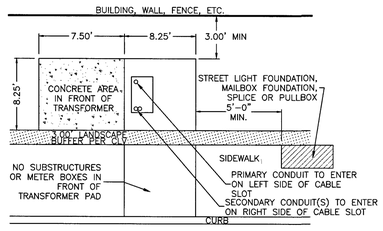
ny29922



METER ROOM DETAIL

NVE U.G. STD. RPI-G & RPI-15
(NOT TO SCALE)

METERING INFORMATION:
DRAWING SUBMITTALS OF METERING EQUIPMENT SHALL BE APPROVED BY NEVADA POWER METER SERVICES BEFORE THE EQUIPMENT IS MANUFACTURED. OWNER, BUILDER, OR ELECTRICIAN TO REMOVE AND DELIVER METER PANEL TO NEVADA POWER METER SHOP FOR PREWIRING AND PICKUP OF CURRENT TRANSFORMERS FOR INSTALLATION 7 TO 10 DAYS PRIOR TO THE EXPECTED DATE OF COMPLETION.
DELIVER TO: 7155 LINDELL ROAD
(702) 402-6119



THREE-PHASE TRANSFORMER LOCATION DETAIL

WITHIN CITY OF LAS VEGAS ONLY (ALONG STREETS THAT BORDER NON-RESIDENTIAL DEVELOPMENT)
NPC U.G. STD. RS-5 & RS-35 OR RS-37
CLV MUNICIPAL CODE: TITLE 19.06 AND 19.08

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

FIRE HYDRANT CLEARANCE:

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

NOTE:

NVE FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NVE CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

RTC NOTES:

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

1	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
2	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
3	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
4	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
5	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
6	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
7	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
8	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
9	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
11		BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
12	234	SIDEWALK
13	506	UTILITY POTHOLE REPAIR
14	216	"L" TYPE CURB AND GUTTER

NVEnergy REQUIRES 24 HOUR ACCESS TO EQUIPMENT

!!!! CAUTION !!!!

ENERGIZED CABLES...
CALL BEFORE YOU DIG

SERVICE PANEL SCHEDULE - 120/208 V, 3ø PHASE, 4 WIRE (3 TON PER UNIT)				
MTR. PANEL #	MAIN PANEL SIZE	# OF MTRS	E.P.D.	SVC. CABLE SIZE
MS1A1	1200A	37	90	500Q
MS1A2	1200A	24	96	500Q
MS1A3	600A	1	66	500Q
MS1B1	1000A	26	64	500Q
MS1B2	1200A	19	90	500Q
MSCH	1000	1	195	500Q
MS1C1	1200A	33	76	500Q
MS1C2	1200A	19	77	500Q
MS1C3	600A	1	66	500Q
MS1D1	1200A	36	86	500Q
MS1D2	1000A	16	44	500Q
MS1D3	600A	1	66	500Q
MS2A1	1200A	31	74	500Q
MS2A2	1000A	20	73	500Q
MS2A3	800A	1	75	500Q
MS2B1	1200A	30	72	500Q
MS2B2	1000A	19	62	500Q
MS2B3	600A	1	64	500Q
MS2C1	1200A	32	76	500Q
MS2C2	1000A	16	62	500Q
SERVICE PANEL SCHEDULE - 120/208 V, SINGLE PHASE, 4 WIRE (3 TON PER UNIT)				
MTR. PANEL #	MAIN PANEL SIZE	# OF MTRS	E.P.D.	SVC. CABLE SIZE
MS2C3	600	1	64	500Q
GP1	125A	1	2	2/0Q
GP2	125A	1	2	2/0Q

METER LOCATION & ACCESS REQUIREMENTS

(NV ENERGY STANDARDS RPI-15 & RPI-G)

THIS STANDARD SPECIFIES THE REQUIREMENTS FOR THE LOCATION OF ALL NVENERGY (NVE) METERS AND SERVICE EQUIPMENT WITH THE EXCEPTION OF SINGLE-FAMILY RESIDENTIAL METERS (SEE RPI-2 FOR RESIDENTIAL METERS). REQUIREMENTS IN THIS STANDARD FACILITATE ACCESS TO SERVICE EQUIPMENT BY NVE PERSONNEL FOR PERFORMING OPERATIONS AND MAINTENANCE FUNCTIONS AS WELL AS FOR FIRE AND POLICE AGENCIES IN EMERGENCY SITUATIONS.

METER AND SERVICE ENTRANCE INSTALLATIONS MUST CONFORM TO THE LATEST REVISIONS OF RPI-G AND, SPECIFICALLY, THE "METER ACCESS" AND "METER LOCATIONS" SECTIONS OF RPI-G. THE STANDARD SERVICE POINT WILL BE LOCATED AT THE CORNER OF THE BUILDING NEAREST THE NV ENERGY SUPPLY. ALTERNATE SERVICE POINTS AND METER ROOMS, ALTHOUGH NOT PREFERRED, MAY, AT THE DISCRETION OF NVENERGY, BE ALLOWED PROVIDED THAT THEY MEET THE REQUIREMENTS OF SECTION 6 "ACCESS TO SERVICE EQUIPMENT" AND SECTION 8 "METER ROOMS".

ELECTRIC METER AND SERVICE EQUIPMENT INSTALLATIONS MUST BE READILY ACCESSIBLE TO AUTHORIZED REPRESENTATIVES OF NVE FOR READING, TESTING, AND INSPECTION AT ALL TIMES. CUSTOMER CONTACT WILL NOT BE REQUIRED FOR METER READING. PERMANENT VEHICLE ACCESS TO THE SERVICE EQUIPMENT IS REQUIRED FOR THE INSTALLATION AND MAINTENANCE OF SERVICE CABLES AND METERING EQUIPMENT.

THE SERVICE EQUIPMENT MUST BE ACCESSIBLE 24 HOURS/7 DAYS WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT.

SERVICES 600V AND LESS, THE VEHICLE ACCESS WILL BE A MINIMUM 12' WIDE, 20' HIGH DIRECT PATH TO THE METERING EQUIPMENT.

ALL SERVICES GREATER THAN 600V (PRIMARY SERVICE) OR WHERE THE SERVICES INCLUDE THE INSTALLATION OF THREE-PHASE TRANSFORMERS, SWITCH OR FUSE CABINETS, CAPACITOR BANKS, OR OTHER LARGE EQUIPMENT, THE VEHICLE ACCESS WILL BE A MINIMUM 23' WIDE, WITH NO OVERHEAD OBSTRUCTION.

CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstruction5/servicestandards.cfm

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:
1. BOTTOM SAND AND CONDUIT INSTALLED
2. TOP SAND INSTALLED
3. BACKFILL INSTALLED

CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
- [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
- APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm

CUSTOMER OUTAGE REQUIRED!

OUTAGE NOTICE REQUIRED

NIGHT TIME OUTAGE:

ADDRESS(ES): METER QTY:
510 S. RAMPART 1

CUSTOMER NOTE:

UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMERS CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

NOTICE:

THIS EXHIBIT IS THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF NV ENERGY AND MAY NOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF NV ENERGY.

THE IMAGES HEREON ARE NOT ORTHOPHOTOGRAPHIC. ANY LOCATIONS DEPICTED HEREON ARE APPROXIMATE ONLY. THIS EXHIBIT WAS CREATED FOR GENERAL PRESENTATION AND DISCUSSION PURPOSES ONLY AND IS NOT PURPORTED TO REPRESENT ANY MEASURE OF ACCURACY. THIS EXHIBIT IS NOT TO BE UTILIZED IN ANY MANNER NOT CONSISTENT WITH THE INTENT OF ITS' CREATION AS STATED ABOVE.

CONDUIT SEALING REQUIREMENT:

CONDUIT SEALING PER NESC AND OR NEC LATEST VERSION:
ALL ELECTRIC CONDUITS ENTERING BUILDING THROUGH OR PENETRATING CONCRETE SLAB SHALL BE SEALED AT BOTH ENDS WITH EXPANDING PLUG(S) AFTER CONDUIT IS MANDRILLED.
NVE WILL INSTALL A PERMANENT SEAL, AFTER CONDUCTORS ARE INSTALLED.

NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

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DEVELOPER'S OFFSITE ENCROACHMENT PERMIT

TO BE UTILIZED FOR THE INSTALLATION OF NVEnergy FACILITIES

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

APPROVED FOR CONSTRUCTION

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. SEE COVER OF CIVIL PLAN ----
APPROVAL BY: DATE

CITY OF LAS VEGAS PERMIT REQUIRED*

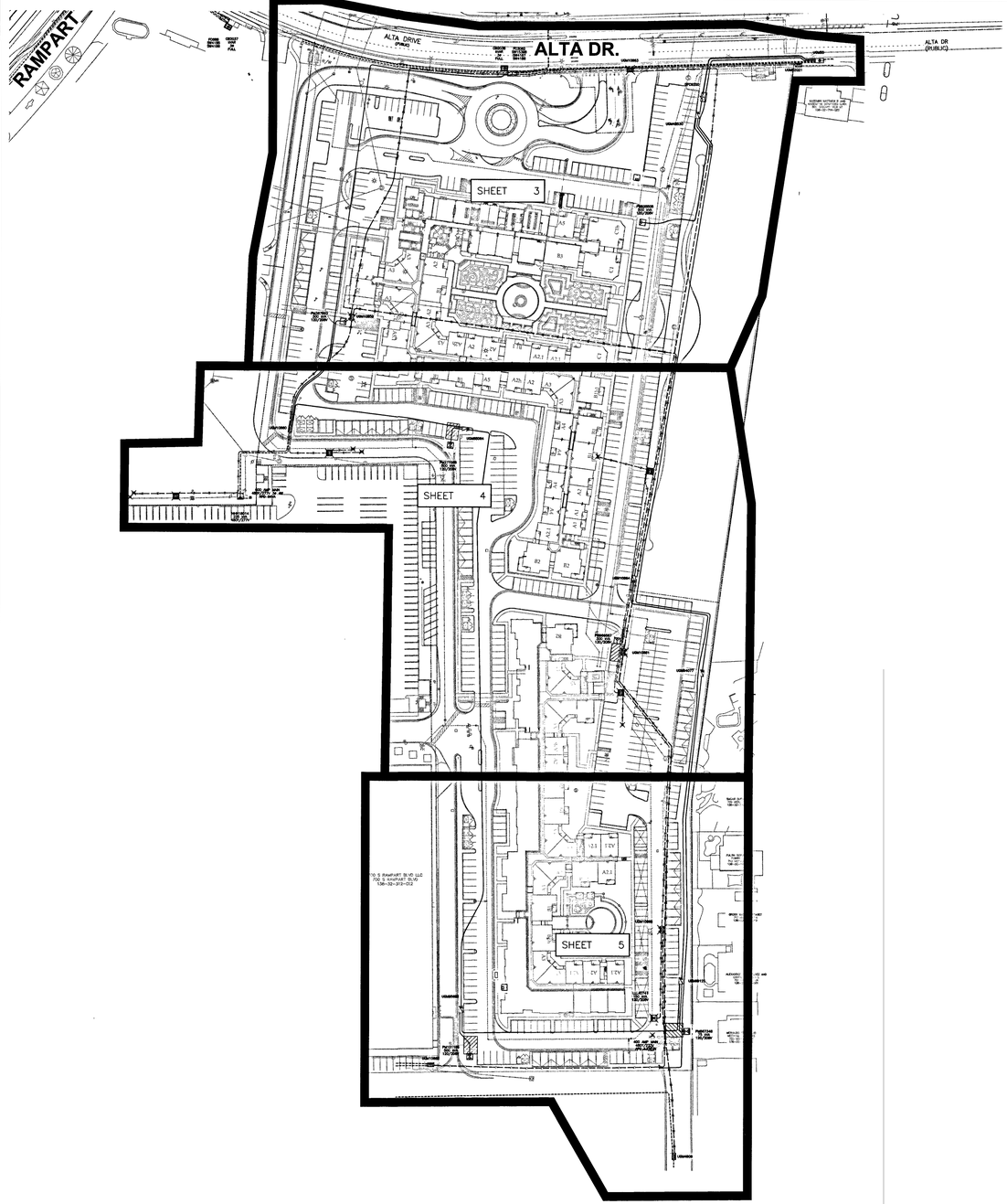
CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6377)

HANSEN .
DATE##########

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

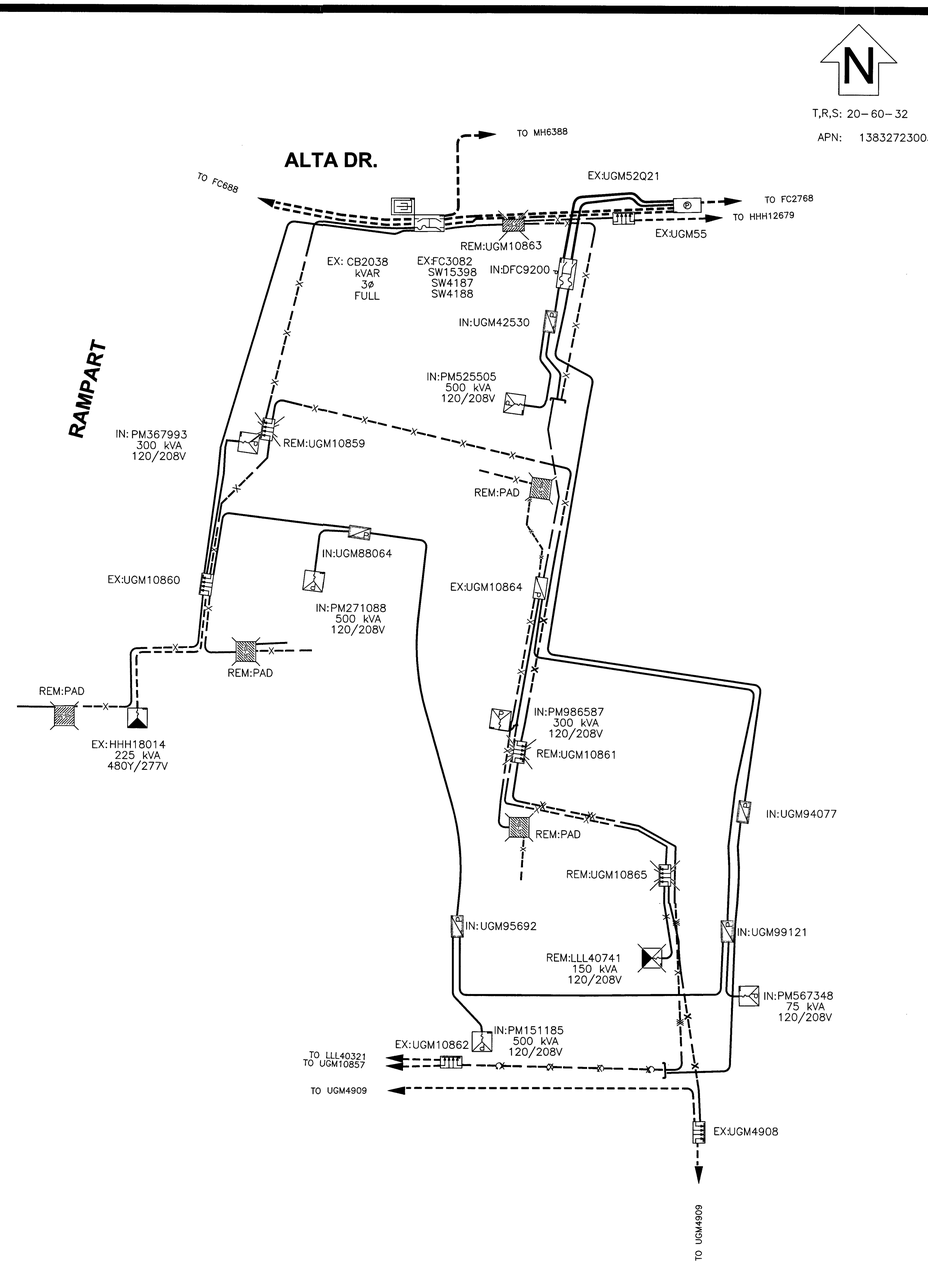
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L18-01454 CLV DWG #: 107V7415 1 REVISION(S)



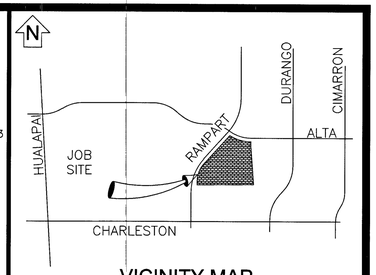
OVERALL MAP

–NVE USE ONLY–



SINGLE LINE DIAGRAM

–NVE USE ONLY–

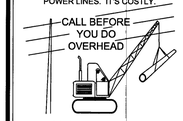


VICINITY MAP

(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.



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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
1	UPDATED DESIGN TO REFLECT FIELD CONDITIONS. SHT.3 – N.Y.	7/1/2019	

NON-STANDARD

PROJECT PURPOSE:

PROVIDE NEW 600A, 800A, 1000A & 1200A 120/208V 3ø SERVICES & (2)125AMP 120/208V 3ø TO NEW APARTMENT COMPLEX.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SALIMA, HOWARD
PHONE: 702–419–6872 D.F. LOWELL, KEN
DESIGNER: YOSEF, NEAL
DCA: N/A
INSPECTOR: 702–402–3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402–4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT
JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: DC RAMPART OWNER LLC
ENGINEER: GCW ENGINEERS
CONTACT: RIAL, RICH ** 702–276–0527
APPROVAL DATE: 6/17/2019
GOVERNMENT INFORMATION:
AGENCY: CLV I
APPROVAL DATE: ----- I

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.

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APPROVED FOR CONSTRUCTION
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. ----
APPROVAL BY: DATE

CITY OF LAS VEGAS
PERMIT REQUIRED*

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

HANSEN .
DATE ##########

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FAX PERMIT TO:
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LAS VEGAS SOUTH (BELTWAY CENTER): 402–6864

NVEnergy

ELYSIAN AT RENAISSANCE

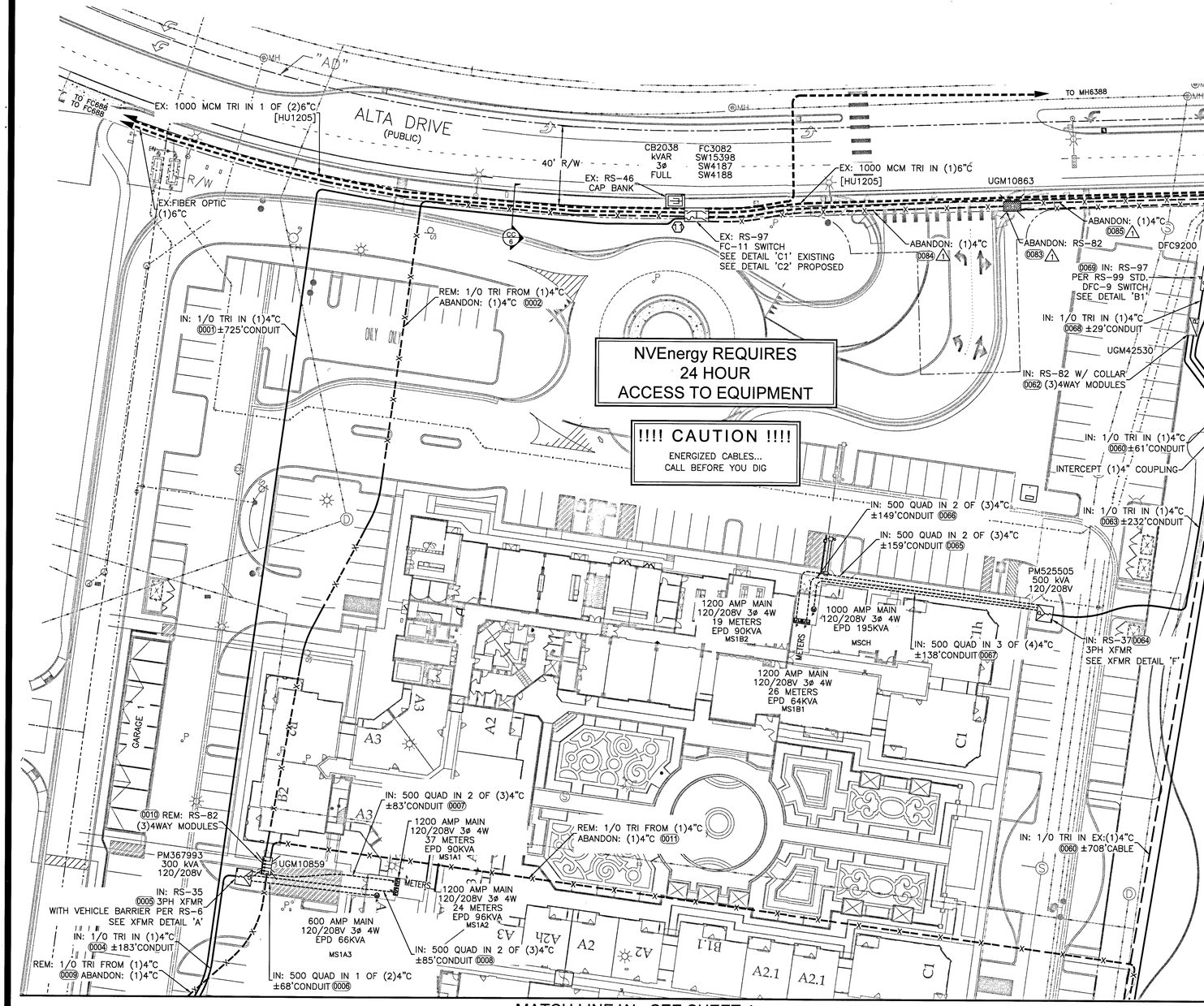
ALTA / RAMPART 39

PROJ #3003140296	SCALE: 1"=30'	
SHEET # 2	OF 6	DATE: 3/7/2019

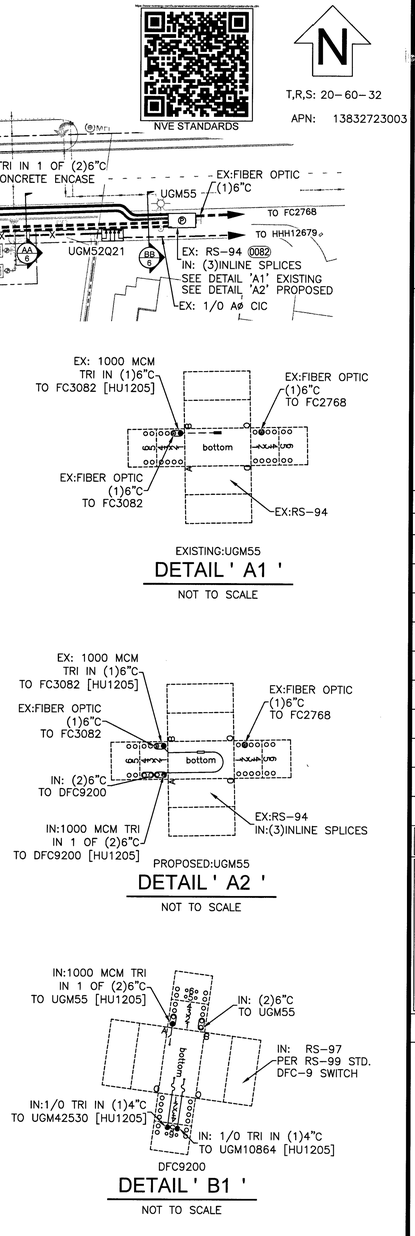
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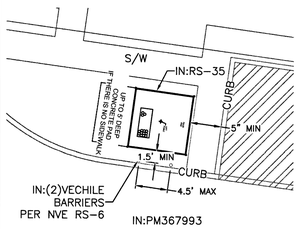
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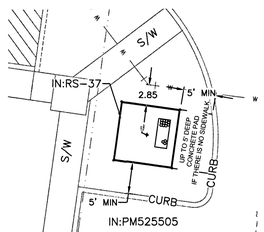
L18-01454 CLV DWG #: 107V7415 1 REVISION(S)

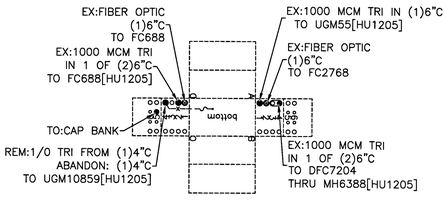


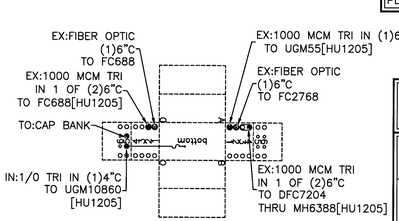
MATCH LINE 'A' - SEE SHEET 4











NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

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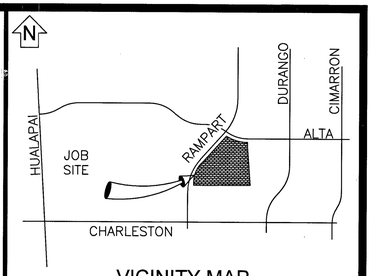
APPROVED FOR CONSTRUCTION
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. SEE Cover of Civil PLAN
APPROVAL BY: ---- DATE

CITY OF LAS VEGAS
PERMIT REQUIRED*
CONTACT CLV LAND DEVELOPMENT (229-6371) CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN .
DATE##########

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FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



VICINITY MAP
(NOT TO SCALE)

T,R,S: 20-60-32
APN: 13832723003

NVE STANDARDS

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	UPDATED DESIGN TO REFLECT FIELD CONDITIONS. SHT.3 - N.Y.	7/1/2019	

NON-STANDARD

PROJECT PURPOSE:

PROVIDE NEW 600A, 800A, 1000A & 1200A 120/208V 3ø SERVICES & (2)125AMP 120/208V 3ø TO NEW APARTMENT COMPLEX.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SALIMA, HOWARD
PHONE: 702-419-6872 D.F. LOWELL, KEN
DESIGNER: YOSEF, NEAL
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

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

CUSTOMER INFORMATION:
APPLICANT: DC RAMPART OWNER LLC
ENGINEER: GCW ENGINEERS
CONTACT: RIAL, RICH ** 702-276-0527
APPROVAL DATE: 6/17/2019

GOVERNMENT INFORMATION:
AGENCY: CLV 1
APPROVAL DATE: ---- 1

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

NVEnergy.

ny29922

ELYSIAN AT RENAISSANCE

ALTA / RAMPART 40

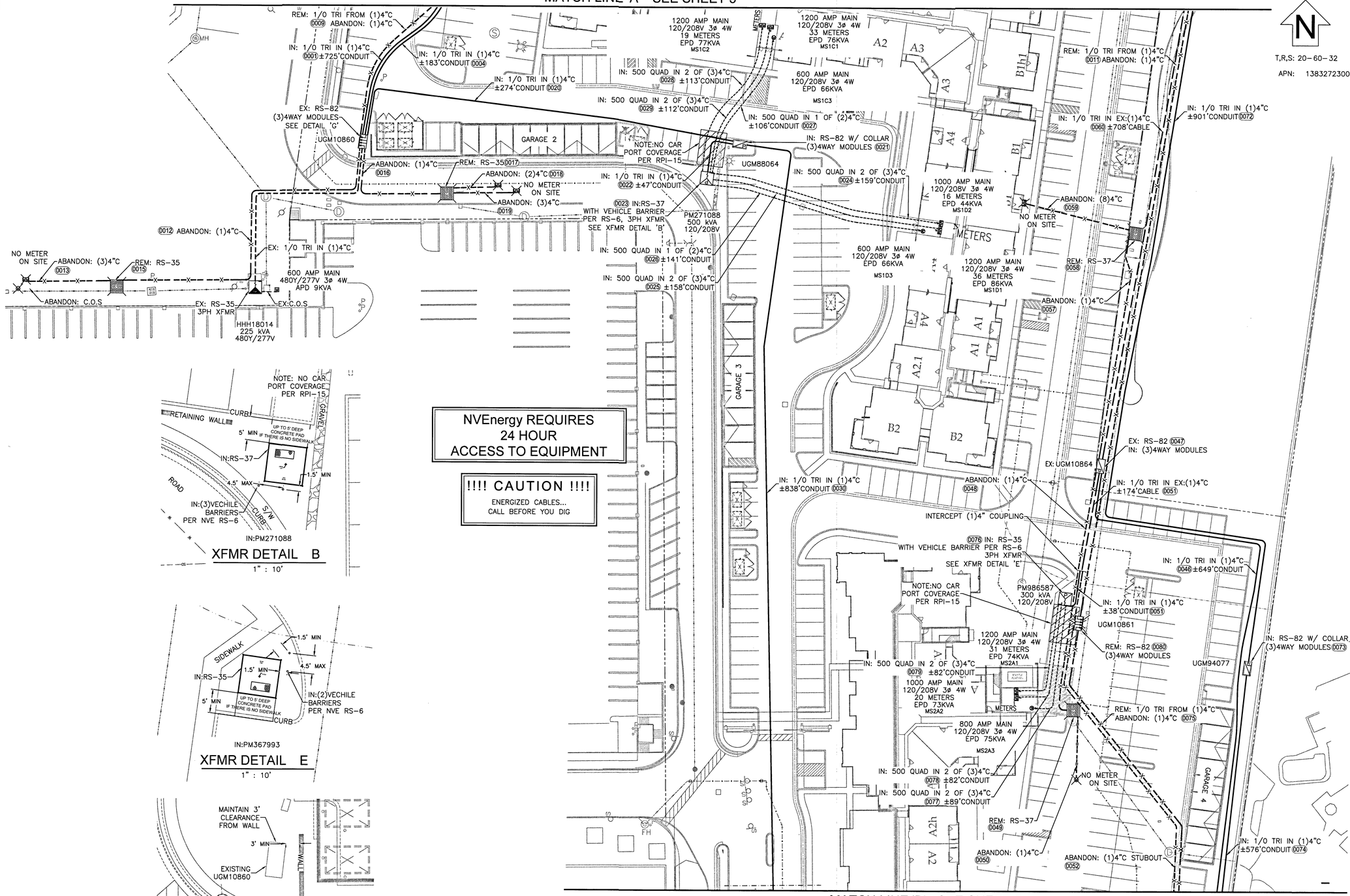
PROJ #3003140296	SCALE: 1"=30'
SHEET # 3 OF 6	DATE: 3/7/2019

7/1/2019 8:56 AM

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L18-01454 CLV DWG #: 107V7415 1 REVISION(S)

MATCH LINE 'A' - SEE SHEET 3

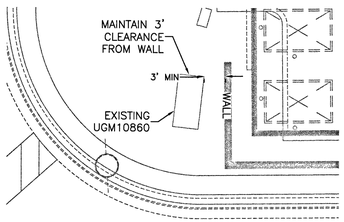


XFMR DETAIL B

1" : 10'

XFMR DETAIL E

1" : 10'



UGM DETAIL G

1" : 10'

MATCH LINE 'B' - SEE SHEET 5

NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

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APPROVED FOR CONSTRUCTION
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. per SER Comment of Civil Plan

APPROVED BY: DATE

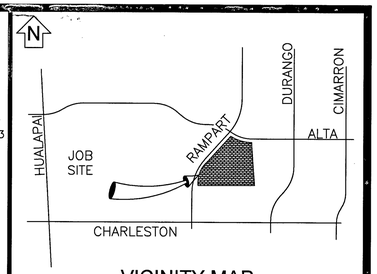
CITY OF LAS VEGAS
PERMIT REQUIRED*

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

HANSEN

DATE##########

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FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864



VICINITY MAP

(NOT TO SCALE)

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	UPDATED DESIGN TO REFLECT FIELD CONDITIONS. SHT.3 – N.Y.	7/1/2019	

NON-STANDARD

PROJECT PURPOSE:

PROVIDE NEW 600A, 800A, 1000A & 1200A 120/208V 3ø SERVICES & (2)125AMP 120/208V 3ø TO NEW APARTMENT COMPLEX.

EXHIBIT 'A'

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PHONE: 702-419-6872 D.F. LOWELL, KEN
DESIGNER: YOSEF, NEAL
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

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

CUSTOMER INFORMATION:
APPLICANT: DC RAMPART OWNER LLC
ENGINEER: GCW ENGINEERS
CONTACT: RIAL, RICH ** 702-276-0527
APPROVAL DATE: 6/17/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE: ----

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NVEnergy

ELYSIAN AT RENAISSANCE

ALTA / RAMPART 41

PROJ #3003140296	SCALE: 1"=30'
SHEET # 4 OF 6	DATE: 3/7/2019

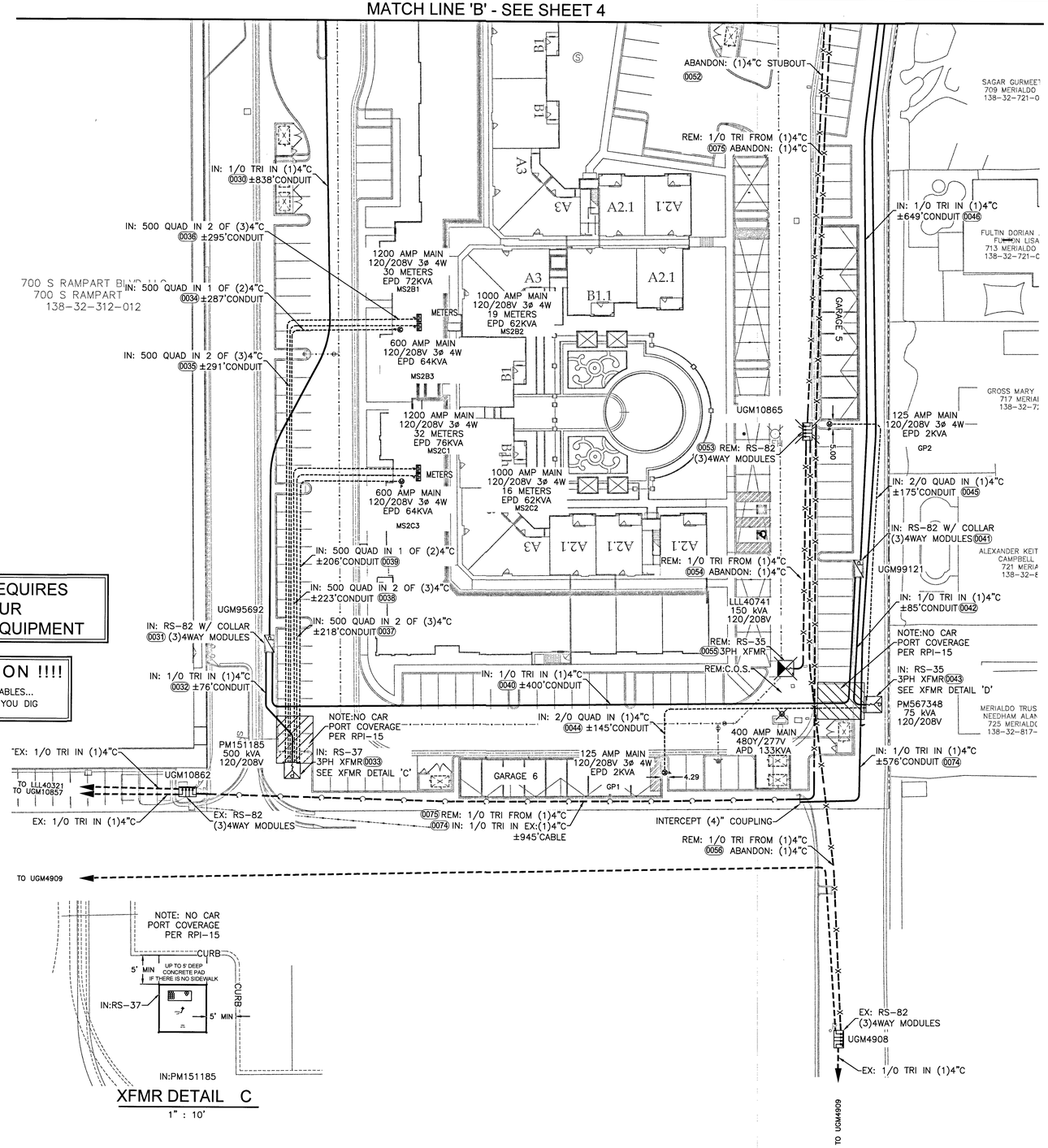
ny29922

7/1/2019 8:57 AM

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L18-01454 CLV DWG #: 107V7415 1 REVISION(S)

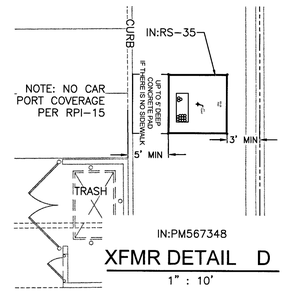
MATCH LINE 'B' - SEE SHEET 4



NVEnergy REQUIRES
24 HOUR
ACCESS TO EQUIPMENT

!!!! CAUTION !!!!
ENERGIZED CABLES...
CALL BEFORE YOU DIG

XFMR DETAIL C
1" : 10'



XFMR DETAIL D
1" : 10'

NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

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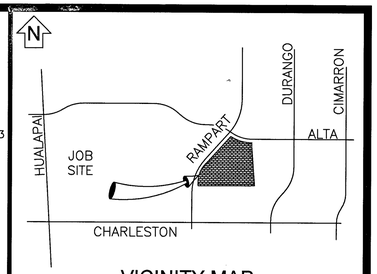
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. SEE COVER OF CIVIL PLAN
APPROVAL BY: DATE

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HANSEN
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NVE STANDARDS

N

T,R,S: 20-60-32
APN: 13832723003



VICINITY MAP
(NOT TO SCALE)

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OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	UPDATED DESIGN TO REFLECT FIELD CONDITIONS. SHT.3 – N.Y.	7/1/2019	

NON-STANDARD

PROJECT PURPOSE:

PROVIDE NEW 600A, 800A, 1000A & 1200A 120/208V 3ø SERVICES & (2)125AMP 120/208V 3ø TO NEW APARTMENT COMPLEX.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: SALIMA, HOWARD
PHONE: 702-419-6872 D.F. LOWELL, KEN
DESIGNER: YOSEF, NEAL
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

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

CUSTOMER INFORMATION:
APPLICANT: DC RAMPART OWNER LLC
ENGINEER: GCW ENGINEERS
CONTACT: RIAL, RICH ** 702-276-0527
APPROVAL DATE: 6/17/2019

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.

NVEnergy

ELYSIAN AT RENAISSANCE

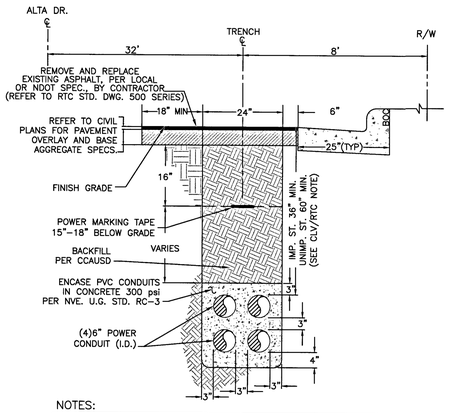
ALTA / RAMPART 42

PROJ #3003140296	SCALE: 1"=30'
SHEET # 5 OF 6	DATE: 3/7/2019

7/1/2019 8:57 AM ny29922

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L18-01454 CLV DWG #: 107V7415 1 REVISION(S)

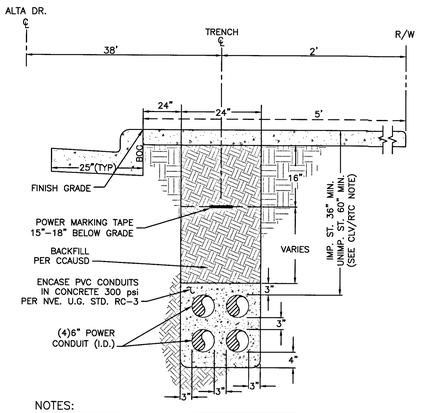


NOTES:

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
4-6" CONDUITS
SECTION "AA"

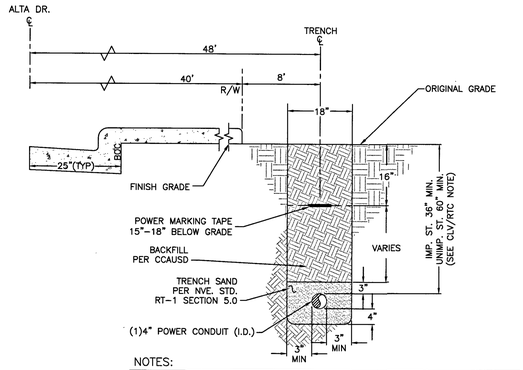


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TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL
4-6" CONDUITS
SECTION "BB"



NOTES:

REGIONAL TRANSPORTATION COMMISSION, CITY of HENDERSON, CITY of NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 503, 503.1 & 503.2):
METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

COH JURISDICTION:
FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.

NVE REQUIREMENTS:
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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

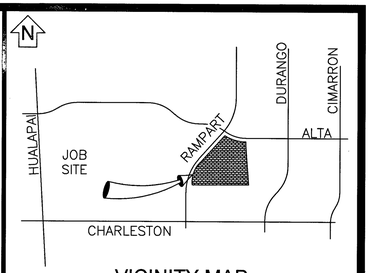
TRENCH DETAIL
1-4" CONDUITS
SECTION "CC"

NVE STANDARDS

N

T,R,S: 20-60-32

APN: 13832723003



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 1-702-402-2929

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NVEnergy.

ELYSIAN AT RENAISSANCE

ALTA / RAMPART 43

PROJ #3003140296	SCALE: 1"=30'
SHEET # 6 OF 6	DATE: 3/7/2019

DEVELOPER'S OFFSITE ENCROACHMENT PERMIT
TO BE UTILIZED FOR THE INSTALLATION OF NVEnergy FACILITIES

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.

. SEE CSV&R'S P Civil Plan ----
APPROVAL BY: DATE

CITY OF LAS VEGAS
PERMIT REQUIRED*

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

HANSEN
DATE#########

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

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