

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.

2. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION (INCLUDING BUT NOT LIMITED TO, NO. 1000) OF EXISTING UTILITIES. UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600).

3. CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.

4. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL STREET INTERSECTIONS PER CLARK COUNTY STANDARD DRAWING 235 EXACT LOCATION OF RAMP TO BE DETERMINED IN FIELD BY A CLARK COUNTY INSPECTOR.

5. STANDARD STREET SECTIONS PER CLARK COUNTY STANDARD DRAWINGS UNLESS OTHERWISE NOTED.

6. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE FORMED BY FORMING EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.

7. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE LIP OF THE GUTTER (INCLUDING OPEN GRADE).

8. EXACT LOCATION OF ALL SAWCUTS TO BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.

9. VALLEY GUTTER WITH A GRADE OF FOUR TENTHS OF ONE PERCENT OR LESS SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE PROPER DRAINAGE ACROSS ALL VALLEY GUTTERS.

10. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA" AND "CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS", LATEST REVISION.

11. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITIES REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.

12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

13. FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET R/W SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.

14. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, WALL SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.

15. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL MANUAL, 1986 PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT DRAWINGS.

16. THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 609 OF THE "STANDARD SPECIFICATIONS".

18. ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS PREPARED BY **Nova Geotechnical & Inspection Services** PROJECT NUMBER **2020-085** DATED **JULY 17, 2020** AND ADDENDUM BY UNYVERSAL ENGINEERING SERVICES, DATED MARCH 28, 2022

19. WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.

20. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

NV ENERGY

PHONE - (702) 402-8400

CENTRAL TELEPHONE COMPANY

PHONE - (702) 244-7058

SOUTHWEST GAS CORPORATION

PHONE - (702) 651-2111

LAS VEGAS VALLEY WATER DISTRICT

PHONE - (702) 870-2011

PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW CONSTRUCTION NOTES

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE (702) 455-4610. THE PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.

2. EXACT LOCATION OF ALL SAW-OUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.

3. CURB AND GUTTER WITH A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.

4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).

5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES.

QPL CAN BE FOUND ONLINE AT
[HTTP://WWW.CLARKCOUNTYNV.GOV/GOVERNMENT/DEPARTMENTS/PUBLIC_WORKS_DEPARTMENT/PROGRAMS_AND_SERVICES/LED_UPGRADE.PHP](http://www.clarkcountynv.gov/government/departments/public_works_department/programs_and_services/led_upgrade.php)

6. PRIVATE STREETS CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.

7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.

8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", TRAFFIC SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS OFFSITE INSPECTOR AT (702) 455-4610.

9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.

10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.

11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.

12. COMPACTION TESTS ARE REQUIRED.

REVISED TBD 2021

CLARK COUNTY FIRE DEPARTMENT

GENERAL

a. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS) AS ADOPTED BY CLARK COUNTY AND THE CURRENTLY ADOPTED EDITION OF NFPA 24.

b. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH FIRE PREVENTION AND IN SERVICE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE IFC, AS AMENDED. FIRE HYDRANTS SHALL BE WITHIN 300 FEET OF COMBUSTIBLE MATERIALS.

c. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE CLARK COUNTY FIRE PREVENTION PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.

FIRE HYDRANTS

a. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF UDACS, NFPA 24 AND THIS GUIDELINE. FIRE HYDRANTS SHALL BE MAINTAINED IN ACCORDANCE WITH NFPA 25 AND KEPT IN AN OPERATIVE CONDITION WITH THE REQUIRED WATER SUPPLY.

b. MANUFACTURER AND MODEL OF FIRE HYDRANTS SHALL CONFORM TO THE APPROVED MATERIALS LIST OF THE WATER PURVEYOR.

c. HYDRANTS SHALL BE INSTALLED WITH THEIR PUMPER OUTLET NOZZLE (STEAMER CONNECTION) FACING THE FIRE ACCESS ROAD, A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS, WHERE HYDRANTS ARE SUBJECT TO IMPACT BY MOTOR VEHICLES, GUARD POSTS (PIPE BOLLARDS) SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 312.

d. PUBLIC HYDRANTS SHALL BE PAINTED SAFETY YELLOW AND PRIVATE HYDRANTS SHALL BE PAINTED RED.

e. FIRE HYDRANTS SHALL BE LOCATED 4 TO 7 FEET FROM BACK OF CURB.

FIRE DEPARTMENT CONNECTIONS

a. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT AS MEASURED BY AN APPROVED UNOBSTRUCTED ROUTE. AN APPROVED ROUTE IS DEFINED AS AN UNOBSTRUCTED PATH OF TRAVEL ON WHICH HOSE CAN EASILY BE LAID.

b. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE FIRE DEPARTMENT ACCESS SIDE OF BUILDINGS, FUNGIBLE AND RECOGNIZABLE FROM THE ADJACENT ROAD OR NEAREST POINT OF FIRE DEPARTMENT VEHICLE ACCESS (FIRE LANE) OR AS OTHERWISE APPROVED BY THE FIRE CHIEF.

c. FIRE DEPARTMENT CONNECTIONS SHALL NOT BE CLOSER THAN 3 FEET TO ANY DOOR OR WINDOW OPENING AND SHALL NOT BE OBSTRUCTED BY TREES, SHRUBS, PARKING SPACES, ETC.

d. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18 INCHES AND NOT MORE THAN 48 INCHES ABOVE THE LEVEL OF THE ADJACENT GRADE OR ACCESS LEVEL.

UNDERGROUND PIPING & VALVES

a. UNDERGROUND PIPING SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI (CLASS 235). UNDERGROUND PIPING CONNECTED TO A FIRE PUMP OR A FIRE DEPARTMENT CONNECTION (FDC) SHALL HAVE A MINIMUM WORKING PRESSURE OF 200 PSI (CLASS 305).

b. FOR PRIVATE FIRE SERVICE MAINS TWO SOURCES OF WATER SUPPLY ARE REQUIRED WHENEVER A 4" OR MORE FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. WATER SYSTEMS UNDER THE PURVIEW OF THE LAS VEGAS VALLEY WATER DISTRICT SHALL CONFORM TO THE LAS VEGAS VALLEY WATER DISTRICT RULES.

c. FOR PRIVATE FIRE SERVICE MAINS SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER IN BUILDING RISERS (LEAD-INS) ARE INSTALLED TO A BREAK IN A WATER MAIN. WATER SYSTEMS UNDER THE PURVIEW OF THE LAS VEGAS VALLEY WATER DISTRICT SHALL CONFORM TO THE LAS VEGAS VALLEY WATER DISTRICT RULES.

d. ALL PIPING AND VALVES SUPPLYING FIRE SPRINKLER SYSTEMS SHALL BE PROTECTED FROM FREEZING WHEN EXPOSED TO TEMPERATURES LESS THAN 40°F. FREEZE PROTECTION SHALL BE APPROVED BY CLARK COUNTY FIRE PREVENTION AND BE DURABLE AND PERMANENT.

e. ALL REQUIRED HYDROSTATIC TESTING AND FLUSHING OF THE PRIVATE FIRE SERVICE MAIN OR UNDERGROUND FIRE SPRINKLER/STANDPIPE WATER SUPPLY PIPING SHALL BE PERFORMED IN THE PRESENCE OF CLARK COUNTY FIRE PREVENTION STAFF. THE PIPING JOINTS SHALL BE UNCOVERED UNTIL INSPECTED. THE INSTALLING CONTRACTOR SHALL FURNISH A "CONTRACTOR'S MATERIAL AND TESTING CERTIFICATE" (CM&T) COUNTERSIGNED BY THE PROPERTY OWNER OR REPRESENTATIVE. THE CM&T SHALL BE FILLED OUT COMPLETELY WITH THE INSPECTOR'S INITIALS, WITNESSING EACH TEST. A COPY OF THE UNDERGROUND FLUSH AND HYDROSTATIC TESTING DOCUMENTATION SHALL BE ON-SITE AND SIGNED PRIOR TO THE CONNECTION OF THE UNDERGROUND WATER SUPPLY TO THE FIRE SPRINKLER SYSTEM.

GATES

a. SHOP DRAWINGS FOR ALL GATES AND MOTORIZED OPENERS SERVING FIRE DEPARTMENT ACCESS ROADS SHALL BE SUBMITTED SEPARATELY UNDER A SEPARATE PERMIT FOR REVIEW BY THE CLARK COUNTY BUILDING DEPARTMENT AND FIRE PREVENTION AND RECEIVE APPROVAL PRIOR TO THEIR INSTALLATION.

FIRE APPARATUS ACCESS ROADS

a. SPEED BUMPS AND/OR SPEED HUMPS SHALL NOT BE PERMITTED WITHIN THE REQUIRED WIDTH OF FIRE APPARATUS ACCESS ROADS.

EXCEPTIONS:

1. SPEED HUMPS ARE ALLOWED ON PRIVATE FIRE APPARATUS ACCESS ROADS SERVING COMMERCIAL AND INDUSTRIAL BUILDINGS WHEN APPROVED BY THE FIRE CODE OFFICIAL.

2. RUMBLE STRIPS ARE ALLOWED ON PRIVATE FIRE APPARATUS ACCESS ROADS SERVING RESIDENTIAL, COMMERCIAL AND INDUSTRIAL BUILDINGS WHEN APPROVED BY THE FIRE CODE OFFICIAL.

b. A MAXIMUM OF SIX (6) SINGLE FAMILY HOMES (IBC GROUP R-3) OR STRUCTURES CONSTRUCTED IN ACCORDANCE WITH THE IRC, MAY BE SITUATED ON A 25 FOOT WIDE STREET (STUB STREET) HAVING A MAXIMUM LENGTH OF 150 FEET WHEN ALL HOMES ARE PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM. THE MINIMUM WIDTH SHALL BE 25 FEET MEASURED FROM BACK-OF-CURB TO BACK-OF-CURB AND ON-STREET PARKING SHALL BE PROHIBITED ON SUCH STUB STREETS.

c. 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.

d. FIRE APPARATUS ACCESS ROADS INCLUDING ELEVATED PORTIONS SHALL BE DESIGNED WITH A GROUND BEARING CAPACITY NOT LESS THAN 75 PSI OVER THE GROUND CONTACT AREA.

FIRE FLOW CALCULATIONS

TYPE OF CONSTRUCTION:TYPE IB

TOTAL LIVING AREA (RESIDENTIAL SQ FT):N/A

TOTAL FIRE AREA:22,848

NUMBER OF STORIES:2 (MAX)

TYPE IA OR IB CONSTRUCTION:

AREA OF THREE (3) LARGEST FLOORS:23,087

BUILDING HEIGHT:56'4"

HIGH-RISE BUILDING:YES ☐ NO ☒

MID-RISE BUILDING:YES ☐ NO ☒

IBC USE GROUP:12

SPRINKLER SYSTEM:YES ☐ NO ☐

NUMBER OF HYDRANTS INSTALLED:2

FIRE FLOW ONSITE:1750

TOTAL FIRE FLOW:1750 GPM at 20 PSI

LAS VEGAS VALLEY WATER DISTRICT

LVVWD PROJECT # XXXXXX

(REVISED 10/18/2021)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS), THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.

3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB 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 AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.

10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, 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 APPROVED PRODUCTS' LIST (APL) FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.

13. TELEPHONE USA NORTH 811 "CALL 811 BEFORE YOU DIG" AT 811 OR 1-800-642-2444.

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:

TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

16. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS PLATES. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

17. DRY UTILITY NOTES: MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING. MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.

REVISED 09/16/20

LAS VEGAS VALLEY CONSTRUCTION STORMWATER

RUNOFF MANAGEMENT - STANDARD NOTES

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 CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SITE STABILIZATION REQUIREMENTS, SCHEDULES AND DEADLINES.

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, INSPECTIONS SECTION.

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.

6. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL RESPOND TO STORMWATER INSPECTION CORRECTIVE ACTIONS IN THE MANNER PRESCRIBED BY CLARK COUNTY, INCLUDING BUT NOT LIMITED TO PROVIDING PHOTOS AND DESCRIPTIONS OF THE CORRECTION COMPLETED BY THE CONTRACTOR OR HIS AGENT.

FEMA FLOOD ZONE DESIGNATION

THIS PROJECT IS LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE X PER FIRM PANEL 32003C1745E DATED SEPTEMBER 27, 2002. ZONE X IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN.

CLARK COUNTY TRAFFIC NOTES

1. 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 HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

3. ALL CONSTRUCTION SIGNING, BARRICADEING AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1986 AND TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.

4. 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 COUNTY TRAFFIC MANAGER.

5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.

6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.

7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.

8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PESTANALS FOR CABINETS AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A123.

9. ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA LATEST EDITION OF EACH EXCEPT AS NOTED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES.

QPL CAN BE FOUND ONLINE AT
[HTTP://WWW.CLARKCOUNTYNV.GOV/GOVERNMENT/DEPARTMENTS/PUBLIC_WORKS_DEPARTMENT/PROGRAMS_AND_SERVICES/LED_UPGRADE.PHP](http://www.clarkcountynv.gov/government/departments/public_works_department/programs_and_services/led_upgrade.php)

10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.

11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. \$2,500 PER INST DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.

12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WRING, SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX, AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.

13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE LED TYPE.

14. ELECTRICAL POWER SERVICE POINT LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.

15. WHEN STREETLIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.

16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPED" APPEARANCE.

17. TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.

18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

REVISED 11/17/2020

PROJECT NO. 398-8287

DESIGN: GCM
DRAWING: GCM
CHECK: GCM
PLOT DATE: 01-19-23
PLOT TIME: 10:50:57

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

EMERUS
NW COMMUNITY HOSPITAL

GENERAL NOTES

DRAWING
C2
2 OF 6 SHTS

AASHTO	AIR AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DG D/I, D.I. DIA, Ø DIP	DESIGN GRADE DROP INLET DIAMETER DUCTILE IRON PIPE	No. NOSH	NUMBER STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMIN.	SECT SF SHDR	SECTION SQUARE FOOT/FEET SHOULDER
AC	ASPHALT CONCRETE, ACRE	DIA, Ø DIST	DISTANCE	NPC	NEVADA POWER COMPANY	SHT	SHEET
ACP	ASBESTOS CEMENT PIPE	DR	DRIVE	NST	NOT TO SCALE	SIS	SUMMERLIN IMPROVEMENT STDS.
ADD/L	ADDITIONAL	DS	DOWNSPOUT	NVE	NO ENERGY	SL	STREET LIGHT
AG	AGGREGATE BASE	DTL	DETAIL	OB	OVERBUILD	SP	SERVICE POINT
AP	ANGLE POINT	DRW, DRV	DRIVEWAY	OC	ON CENTER	SQ	SQUARE
APN	APPLICANT'S PARCEL NUMBER	DWG	DRAWING	OH	OVERHEAD COX COMMUNICATION	SR	SEWER RECLAIM MAIN
APPROX	APPROXIMATELY	E	EAST	PHP	POWER LINE	SS, SSWR	SANITARY SEWER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ECR	EAST CURB RETURN	P, PWR	POWER LINE	SSMH	SANITARY SEWER MANHOLE
AVE	AVENUE	E	EAST	PAE	PEDESTRAIN ACCESS EASEMENT	STA	STATION
AVAR	AIR VALVE, AIR RELEASE	ELEC, ELE	ELECTRICAL	PB	PULL BOX	STD	STREET
	ASSEMBLY	ELEV	ELEVATION	PBS	PLANT/BOX BITUMINOUS SURFACE	STD	STANDARD
AWWA	AMERICAN WATER WORKS ASSOCIATION	EP, EOP	EDGE OF PAVEMENT	PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE	STL	STEEL
BC	BACK OF CURB	ESMT	EASEMENT	PDE	PROJECT ENGINEER	STRUCT	STRUCTURE
BCR	BEGIN CURB RETURN	EVC	END VERTICAL CURVE	PE	PROJECT ENGINEER OR POLYETHYLENE	SVZ	SIGHT VISIBILITY ZONE
BLM	BUREAU OF LAND MANAGEMENT	EX, EXIST	EXISTING	PED	PEDESTRIAN	TNG	TANGENT
BLVD	BOULEVARD	EXP	EXPANSION JOINT	PEH	PEDESTRIAN	TB	TOP OF BERM
BM	BENCHMARK	FC	FACE OF CURB	PGL	PROFILE GRADE LINE	TC	TOP OF CURB
BO	BORDER	FF, FFE	FINISH FLOOR ELEVATION	PH	POTHOLE	TCB	TEMPORARY CONSTRUCTION ESMT
BVCE	BEGIN VERTICAL CURVE	FG	FINISH GRADE	PI	POINT OF INTERSECTION	TEL, TELE	TELEPHONE
	ELEVATION	FI	FIRE HYDRANT	PIV	POST INDICATOR VALVE	TEMP	TEMPORARY
BVCS	BEGIN VERTICAL CURVE STATION	FL	FLOW LINE	PL, P/L	PROPERTY LINE	TF	TOP OF FOOTING
BVP	BEGIN VERTICAL POINT	FO	FIBER OPTIC	PLCP	POLYURETHANE LINED AND COATED	TG	TOP OF GATE
C	CENTERLINE	FRP	FIBERGLASS REINFORCED PLASTIC	PLT	STEEL PIPE	TMH	TOP OF MANHOLE
C, CL	CENTERLINE	FS	FINISH SURFACE	PMF	PAVEMENT MARKING FILM	TOP	TOP OF POLE
C&G	CURB & GUTTER	FTG	FOOTING	POB	POINT OF BEGINNING	TP	TELEPHONE POLE
C&TV	UNDERGROUND CABLE TV	FUT	FUTURE	POC	POINT ON CURVE, POINT OF CONN.	TRANS	TRANSITION
CCBM	CLARK COUNTY BENCH MARK	G	GAS	POT	POINT OF TANGENT	TR, TRW	TOP OF RETAINING WALL
CCCTV	CLARK COUNTY PUBLIC WORKS	GA	GAGE, QTY ANCHOR	PP	POWER POLE	TSW	TOP OF SCREEN WALL
CCWD	CLOSED-CIRCUIT TELEVISION	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE	TS&V	TAPPING SLEEVE & VALVE
	CLARK COUNTY WATER	GND	GROUND	PRVC	POINT OF REVERSE VERTICAL CURVE	TYD	TYPICAL
	RECLAMATION DISTRICT	GRD	GRADE, GROUND	PROP	PROPOSED	UDAC	UNIFORM DESIGN AND CONSTRUCTION
CE	CENTER ELEVATION	H, HGT	HEIGHT	PSI	POUNDS PER SQUARE INCH	US	STANDARDS FOR WATER
CFS	CUBIC FEET PER SECOND	HDWL	HEADWALL	PT	POINT OF TANGENCY	USDB	DISTRIBUTION SYSTEMS (LATEST ED.)
CIP	CAPITAL IMPROVEMENTS	HGL	HYDRAULIC GRADE LINE	PUB	PUBLIC	UG	UNDERGROUND
	PROJECT, CORRUGATED IRON PIPE	HORIZ	HORIZONTAL	PUE	PUBLIC UTILITY EASEMENT	UL	ULTIMATE
CIPM	CURB-IN-PLACE MANHOLE	HP	HIGH POINT, HIGH PRESSURE	PVC	POLYVINYL CHLORIDE	USDOCA,	UNIFORM STD. DRAWINGS FOR
CIPP	CURB-IN-PLACE PIPE	HPS	HIGH PRESSURE SODIUM	PVDE	PRIVATE DRAINAGE EASEMENT	USD	PUBLIC WORKS' CONSTRUCTION
CIR	CIRCLE	IBC	INTERNATIONAL BUILDING CODE	PVI	POINT OF VERTICAL INTERSECTION		OFF-SITE IMPROVEMENTS CLARK
CLR	CLEAR OR CLEARANCE	INV	INVERT	PVM	PAVEMENT		COUNTY AREA, NEVADA (LATEST
CLSM	CONTROLLED LOW STRENGTH	INT	INTERIM	PVYDE	PRIVATE DRAINAGE EASEMENT		EDITION)
	MATERIAL	JOINT	JOINT	PZ	PRIVATE DRAINAGE EASEMENT		UNDERGROUND TELEPHONE
CLV	CITY OF LAS VEGAS	L	LENGTH	R, RAD	RADIAL, RADII	VAR	VARIABLE /VARIES
CMP	CORRUGATED METAL PIPE	LT	LEFT	RCB	REINFORCED CONCRETE BOX	VAR	VERTICAL CURVE
CMU	CONCRETE MASONRY UNIT	LF	LINEAR FEET	RC	REINFORCED CONCRETE PIPE	VCP	VERTIFIED CLAY PIPE
CNLV	CITY OF NORTH LAS VEGAS	LIP	LIP OF GUTTER	RD	ROAD	VERT	VERTICAL
CO	CLEANOUT	LN	LANE	RDW	ROADWAY	VGT	VALLEY GUTTER
CONC	CONCRETE	LP	LOW POINT, LIGHT POLE	REC	RECTANGULAR	VOL	VOLUME
COND	CONDUIT	LS, LSCP	LANDSCAPE	REF	REFERENCE	W	WATER OR WEST
CONST	CONSTRUCT OR CONSTRUCTION	LVVMD	LAS VEGAS VALLEY WATER DISTRICT	REIN	REINFORCED	W/	WITH
COORD	COORDINATE	MAX	MAXIMUM	REQD	REQUIRED	WMH	WATER MANHOLE
COR	CORNER	MH	MANHOLE	RIM	TOP OF RIM ELEVATION	WS	WATER SUPPLY
CPEP	CORRUGATED POLYETHYLENE PIPE	MIN	MINIMUM	RND	ROUND	WT	WEIGHT
CPR	COPPER	MLTMC	MORTAR LINED TAPE & MORTAR	R/W, ROW	RIGHT OF WAY	WTR	WATER
CT	COURT	COATED PIPE	COATED PIPE	RP	RADIUS POINT	XING	CROSSING
CY	CUBIC YARD(S)	MOD	MODIFY/MODIFIED	RP	RAISED PAVEMENT MARKERS	YD	YARD, YARD DRAIN
DEL	DELETED	MON	MONUMENT	RSOV	RESILIENT SEAT GATE VALVE	Z	PRESSURE ZONE
DBL	DOUBLE	MPH	MILES PER HOUR	RT	RIGHT		

	TYPICAL EXISTING LINEWORK		DETAIL BUBBLE W/ REF.
	TYPICAL FUTURE LINEWORK		BENCHMARK
	TYPICAL PROPOSED LINEWORK		GATE VALVE
	TYPICAL SIDEWALK AND RAMP W/ CURB & GUTTER		PRESSURE REDUCING VALVE
	CENTERLINE		BACK WATER VALVE
	CONTOUR (MAJOR)		DROP INLET
	CONTOUR (MINOR)		FIRE HYDRANT
	DAYLIGHT GRADING		WATER METER
	EASEMENT LINE		WATER RPPA
	EDGE OF PAVEMENT		WATER RPDA
	ENCASEMENT (CONC OR STL)		TRAFFIC SIGNAL PULL BOX
	FENCE (CHAIN LINK)		STREET LIGHT CLARK COUNTY
	FENCE (WROUGHT IRON)		STREET LIGHT SUMMERLIN STD
	FENCE (POST & CABLE)		TRAFFIC SIGNAL/FLASHER
	FLOWLINE		EXISTING TELE POLE
	GRADE BREAK		EXISTING POWER POLE
	HYDRAULIC GRADE LINE		EXISTING POLE
	IRRIGATION SLEEVE		EX. ELEC MARKER
	LOTLINE		TRANSFORMER PAD
	PEDESTRIAN ACCESS		SERVICE PEDESTAL
	PROPERTY LINE/BOUNDARY		PULLBOX
	RETAINING WALL		PROPOSED CONTOUR
	RIGHT-OF-WAY LINE		EXISTING CONTOUR
	ROCKERY WALL		PROPOSED SPOT ELEVATION
	SAWOUT		EXISTING SPOT ELEVATION
	SCARPLINE		PROPOSED SLOPE
	SCREEN OR GROUTED WALL		SLOPE DIRECTION
	SEWER LINE W/ MANHOLE		TOE SLOPE
	SIGHT VISIBILITY ZONE		FINISH FLOOR ELEVATION
	STORM LINE W/ MANHOLE		
	SWALE FLOWLINE		
	WATER LINE W/ GATE VALVE		
	EX. CABLE TV		
	EX. ELECTRICAL		
	EX. ELEC & PWR POLES		
	EX. GAS LINE		
	EX. OVERHEAD POWER LINES		
	EX. TELEPHONE		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
TYPE II GRAVEL	CY		
2-INCH ASPHALTIC CONCRETE PAVING	SY		
"A" CURB "L" CURB & GUTTER ROLL CURB	LF		
SIDEWALK RAMP	EA		
COMMERICAL DRIVEWAY	SF		
CONCRETE CROSS GUTTER	SF		
4-INCH CONCRETE SIDEWALK	SF		
SIDEWALK UNDERDRAIN	EA		
SURVEY MONUMENTS: TYPE II	EA		

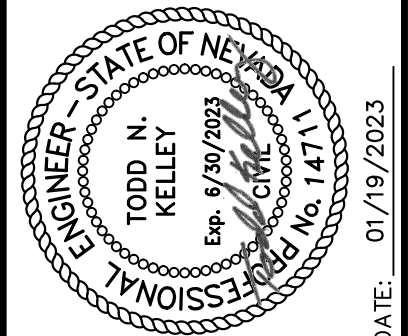
DESCRIPTION	UNIT	PUBLIC	PRIVATE
STREETLIGHT (STANDARD BASE)	EA		
STREETLIGHT, DOUBLE ARM (STANDARD BASE)	EA		
TRAFFIC SIGNAL POLE AND LUMINAIRE	EA		
PULLBOX, #3	EA		
STREETLIGHT CONDUIT, 1.25-INCH	LF		
SL 200 AMP SERVICE	EA		
STREET SIGNS	EA		
8-INCH WIDE WHITE PAINTED LINE	LF		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
8-INCH PVC STORM DRAIN	LF		4
18"x18" DROP INLET	EA		1
RIPRAP (D50 = 3") (THICKNESS=6")	CY		15

DESCRIPTION	UNIT	PUBLIC	PRIVATE
6--INCH WATER MAIN	LF		
8--INCH WATER MAIN	LF		
IRRIGATION SLEEVES	LF		
FIRE HYDRANT	EA		
WATER SERVICE W/ METER	EA		
6--INCH RPDA	EA		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
8-INCH SEWER	LF		
8-INCH SEWER, C900	LF		
SEWER MANHOLE (<6')	EA		
BACKWATER VALVES	EA		
SEWER SERVICE	EA		

CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND INVERT OF EXISTING PIPE, AND
NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW SEWER CONSTRUCTION

[illegible][illegible][illegible]

PROJECT NO.
398-B287

SIGN: GCW

DRAWN: GCW

CHECK: GCW

LOT DATE: 01-19-23

DANIEL LEE

GCv'
ENGINEERS \ SURVEYORS

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

F:\PROJECTS\300\398-B287\DWG\PRODUCTION\398-B287_C.DWG

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING
(INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE
GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
 - a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7855 14 DAYS PRIOR TO CONSTRUCTION
4. FOR ADJUSTMENT OF CATHODIC PROTECTION TEST POINTS CONTACT 702-528-7873 14 DAYS PRIOR TO CONSTRUCTION.
5. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099
6. FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. XXXXXX FIRST APPROVAL DATE: _____

LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM / ON-SITE XXXX GPM

EMERUS

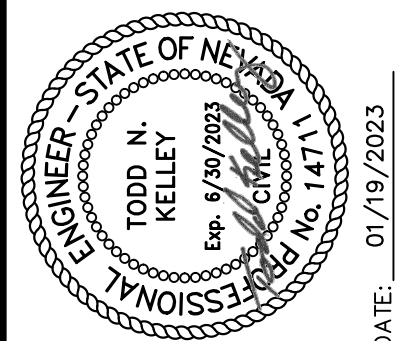
NW COMMUNITY HOSPITAL

PROJECT DATA

DRAWING

C3

3 OF 6 SHTS

[illegible][illegible]

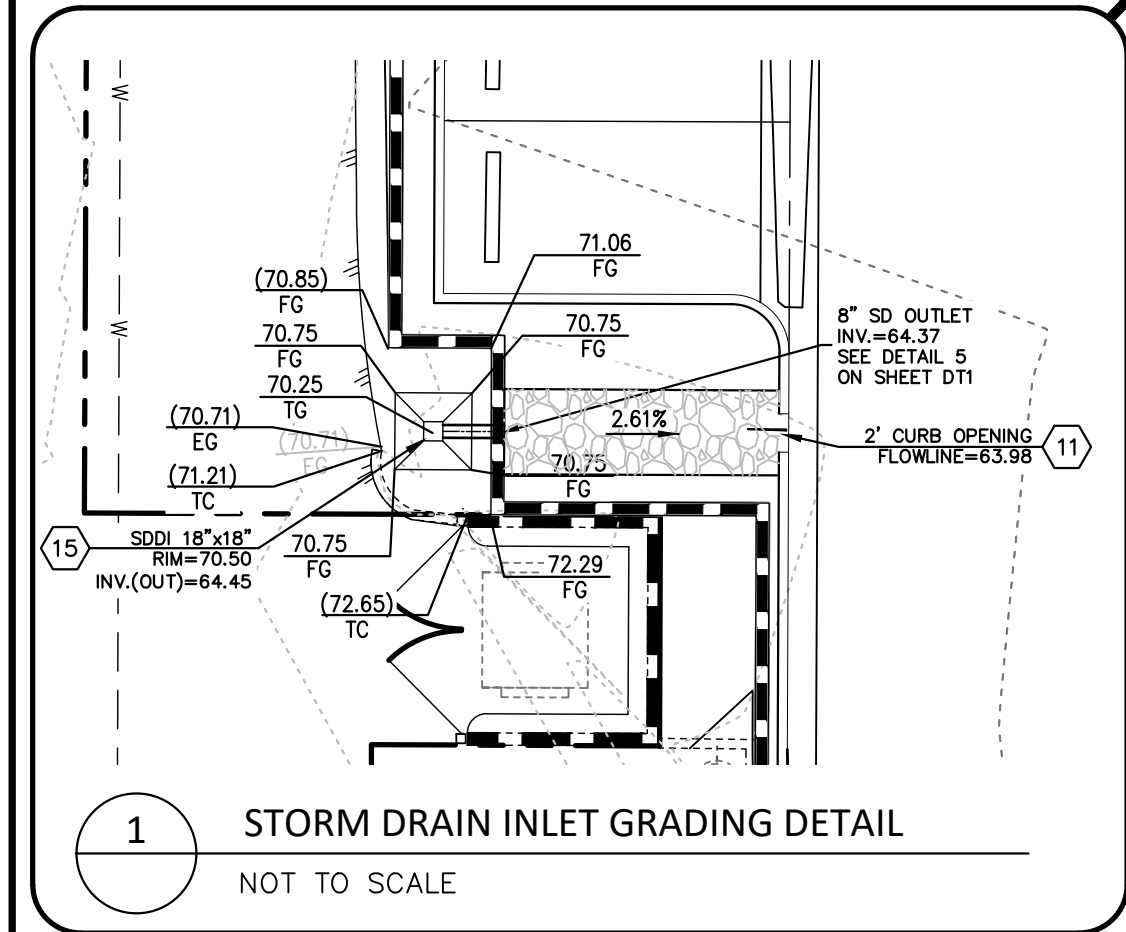
PROJECT NO.	398-B287
DESIGN:	GCW
DRAWN:	GCW
CHECK:	GCW
PLOT DATE:	01-19-23
PLOT TIME:	10:52:28

GCV
ENGINEERS SURVEYORS

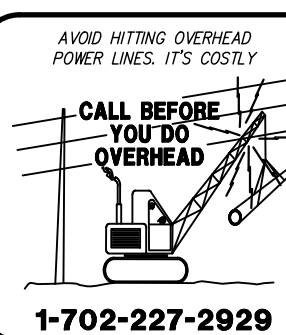
NW COMMUNITY HOSPITAL

GRADING PLAN 1

4 OF 6 SHTS



1. ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
2. CURB FLOW LINES LESS THAN 0.60% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST TO THE CITY.



THIS PROJECT IS LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE X PER FIRM PANEL 32003C1745E DATED SEPTEMBER 27, 2002. ZONE X IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN.

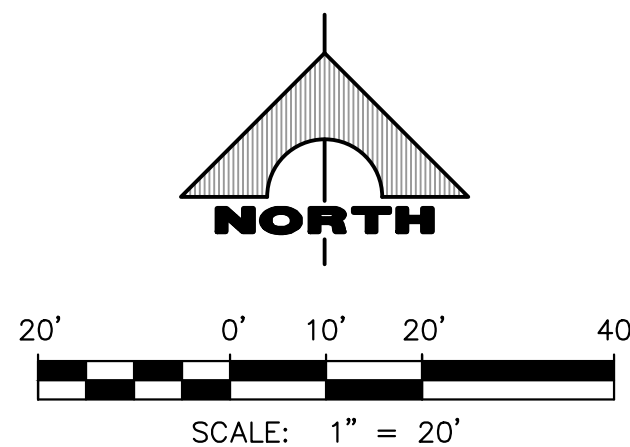
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON.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

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.

NO WALLS, FENCES, DRIBBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

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

TODD KELLEY, P.E. DATE
NEVADA PE #14711



- ① CONSTRUCT CONCRETE SIDEWALK PER USDOCA NO. 234.
- ② CONSTRUCT 8' WIDE VALLEY GUTTER PER USDOCA NO. 228.
- ③ CONSTRUCT MEDIAN "A" TYPE PER USDOCA NO. 218 & 219
- ④ CONSTRUCT "L" CURB PER USDOCA NO. 216.
- ⑤ CONSTRUCT PAVEMENT PER: GEOTECHNICAL REPORT PREPARED BY: NOVA GEOTECHNICAL PROJ: GA-20-085 SEE DETAIL 1 SHEET DT1.
- ⑥ CONSTRUCT HANDICAP RAMP PER USDOCA NO. 235 CASE 1 & NO. 235.1. SEE PLAN FOR "A" & "B" DIMENSION.
- ⑦ SAWCUT & REMOVE, MAKE IMPROVEMENTS TO MATCH EXISTING CURB, SIDEWALK, & AC. INSTALL AC TO SMOOTH EDGE AND FEATHER IN TO MATCH EXISTING AC GRADE. PAVEMENT RESTORATION PER USDOCA DWG. NO. 500.1, AND 500.2.
- ⑧ MATCH EX. CURB, GUTTER, AND SIDEWALK.
- ⑨ INSTALL LINED BMP SWALE WITH RIP-RAP D50=3" THICKNESS=6" PER: DETAIL G ON SHEET DT1. SEE GRADING PLAN FOR WIDTH.
- ⑩ INSTALL 0" CURB FLUSH WITH PAVEMENT PER DETAIL 4 ON SHEET DT1.
- ⑪ INSTALL 0" TO 6" CURB TRANSITION FOR "A" & "L" CURB CONDITIONS PER DETAIL 2, ON SHEET DT1.
- ⑫ INSTALL 3' WIDE CONCRETE VALLEY GUTTER PER DETAIL 3. ON SHEET DT1.
- ⑬ INSTALL RETAINING WALL, CONTRACTOR TO DETERMINE STEP LOCATIONS PER FIELD CONDITIONS. SEE ARCHITECTURAL PLANS FOR DETAILS.
- ⑭ INSTALL PRECAST BUMPER BLOCKS PER CCAUSD DWG. NO. 238.
- ⑮ INSTALL 18"x18" JENSEN DOW INLET (SKU D1818). SEE DETAIL 7 ON DT1.
- ⑯ INSTALL 2' CONCRETE DRAINAGE GUTTER PER DETAIL 8 ON SHEET DT1.

NORTH 89°55'50" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 20, TOWNSHIP 15 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN IN BOOK 166, PAGE 63 OF PLATS ON FILE AT THE CLARK COUNTY RECORDER'S OFFICE.

CITY OF LAS VEGAS VERTICAL CONTROL POINT "5LV902056", BEING A RIVET & PLATE
IN TOP OF CURB AT SW CORNER OF DURANGO DR. & WESTBOUND HIGHWAY 215 OF
RAMP.

ELEVATION: 2558.08 (FEET)
779.70 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL (DATE RE-OBSERVED: 2008)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

L#: XX-XXXXX	CLV#: 107YXXXX-XX
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