

CLV FIRE DEPT. NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT'S ORDINANCE #5667, "HYDRANT SPECIFICATIONS", AND "HYDRANT INSTALLATION SPECIFICATION".
- AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY - GUARDIAN MODELS K81A AND K81D
 - MUELLER - SUPER CENTURION 250 MODEL A-423
 - CLOW - MEDALLION MODEL F-2546LVD
 - TROY VALVE - PATRIOT MODEL PT8100N NEVADA HYDRANT
 - U.S. PIPE - METROFLOW/M-03
- 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.
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE #5667.
- ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CALL THE CITY OF LAS VEGAS INSPECTION HOT-LINE AT 229-2071 TO REQUEST AN INSPECTION BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- PAINTING OF THE CURBS AND FIRE HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE #5667, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
- PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
- PRIOR TO THE FINAL OCCUPANCY, A FLOW TEST MUST BE WITNESSED BY THE CITY OF LAS VEGAS FIRE DEPARTMENT TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
- 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.
- FIRE HYDRANTS SPACING SHALL BE:
 - RESIDENTIAL - 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
 - COMMERCIAL - 300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
- 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 MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR 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.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
- TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEADS WHICH ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
- 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.
- THE GRADIENT FOR A 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%.
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS.
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
- FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT FOR THE APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FEET FLOW LINE TO THE FLOW LINE (THIS WIDTH MAY BE REDUCED TO 24 FEET, IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR MAIN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET. PRIVATE DRIVE AISLES, DRIVEWAYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FEET WIDE FLOW LINE TO THE FLOW LINE WHEN SERVING NO MORE THAN 6 RESIDENCES, AND WHEN ON STREET PARKING IS DISALLOWED.
- ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FEET (FLOW LINE TO THE FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE; 32 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON ONE SIDE ONLY; AND 40 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. THESE WIDTHS MAY BE REDUCED BY 4 FEET IF ALL BUILDINGS ARE SPRINKLERED.
- A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET OF A SINGLE EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING.
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FEET IF THE BUILDING IS SPRINKLERED.
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FEET, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS.
- ALL DEAD-END FIRE APPARATUS ACCESS ROADS AND OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET.
- 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 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF A CURB IS NOT PROVIDED SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

LVVWD STANDARD NOTES

LVVWD PROJECT # 114344

- 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.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2003 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS).
- 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 OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.19 OF THE 2003 EDITION OF THE UDACS.
- 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.
- 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.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.13.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600.

WATER NOTES

NO.	ITEM
(1)	INSTALL 8" P.V.C. WATER LINE C900 CLASS 150
(1A)	INSTALL 6" P.V.C. 200 PSI WATER LINE C900
(1B)	INSTALL 6" P.V.C. WATER LINE STUB OUT C-900 CLASS 150 W/ 6"GV & CAP
(2)	INSTALL 8"x6" TEE PER UDACS PLATE No. 5
(2A)	INSTALL 6"x6" TEE PER UDACS PLATE No. 5
(3)	INSTALL 8" 90° BEND
(3A)	INSTALL 6" 90° BEND
(3B)	INSTALL 8" 45° BEND
(3C)	INSTALL 8" 157.5° BEND
(3D)	INSTALL 8" 112.5° BEND
(3E)	INSTALL 8"x6" REDUCER
(4)	INSTALL 8" M.J. TAPPING SLEEVE OR APPROVED EQUAL & 8" TAPPING VALVE AS PER UDACS PLATES No. 8 & 22
(4A)	INSTALL 6" M.J. TAPPING SLEEVE OR APPROVED EQUAL & 6" TAPPING VALVE
(5)	INSTALL 6" D.C.D.A. ASSEMBLY PER UDACS PLATE No. 11C
(6)	INSTALL 1 1/2" R.P.P.A. PER UDACS PLATE No. 11A
(7)	INSTALL 1 1/2" WATER SERVICE WITH 1 1/2" W.M. PER UDACS PLATE No. 1D
(8)	3/4" CONDUIT FOR WIRING
(9)	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 7
(10)	REPLACED 6" POST INDICATOR VALVE (P.I.V.) WITH 2-4" GATE VALVES AT RISER ROOM
(11)	INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS OR FIRE LANES; ON ROADWAYS WITH NO PARKING PERMITTED ON HYDRANT SIDE; PLACE THE MARKER EIGHT (8) FEET FROM THE FACE OF THE CURB ON HYDRANT SIDE. ON ROADWAYS WITH PARKING PERMITTED ON HYDRANT SIDE; PLACE THE MARKER SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON HYDRANT SIDE.
(12)	INSTALL 8" GATE VALVE AS PER UDACS PLATE No. 8

Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS AND
1-702-432-5300
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

NOTICE
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)

Call before you Overhead
1-702-402-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

CLV SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- 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.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREET LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.10) 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.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

DEVIATIONS FROM STANDARDS COMMERCIAL DRIVEWAY PER STD. DWG. NO. 222A.

ESTIMATE OF WATER QUANTITIES

8" P.V.C. WATER LINE C900 CLASS 150	(407 LF + 381 LF)	788 LF
6" P.V.C. 200 PSI WATER LINE C900		144 LF
8" 90° BEND		3 EA
8" 45° BEND		2 EA
8" 157.5° BEND		1 EA
8" 112.5° BEND		1 EA
6" 90° BEND		1 EA
6"x6" TEE PER UDACS PLATE No. 5		1 EA
8"x6" TEE PER UDACS PLATE No. 5	(2 EA + 2 EA)	4 EA
6" CHECK VALVE		2 EA
4" GATE VALVE		2 EA
6" GATE VALVE		1 EA
8" GATE VALVE		1 EA
FIRE DEPARTMENT CONNECTION		1 EA
FIRE HYDRANT ASSEMBLY AS PER UDACS PLATE No. 7		3 EA
8" M.J. TAPPING SLEEVE & 8" TAPPING VALVE		1 EA
6" D.C.D.A. ASSEMBLY PER UDACS PLATE No. 11C		1 EA
1" D.C.V.A.		1 EA
1" R.P.P.A. PER UDACS PLATE No. 11A		6 EA
1-1/2" R.P.P.A. PER UDACS PLATE No. 11A		1 EA
1-1/2" WATER SERVICE W/ 1-1/2" W.M. PER UDACS PLATE No. 1D		1 EA

ESTIMATE OF SEWER QUANTITIES

STANDARD MANHOLE (PUBLIC)	2 EA
8" P.V.C. SEWER (PUBLIC)	84 LF
10" P.V.C. SEWER (PUBLIC)	101 LF
6" P.V.C. SEWER LATERAL (PRIVATE)	18 LF
SEWER C.O.	1 EA

NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED

AN APPROVED NDOT OCCUPANCY PERMIT SHALL BE OBTAINED THROUGH THE DISTRICT PRIOR TO ANY CONSTRUCTION WITHIN THE NDOT RIGHT-OF-WAY. PLANS SHOWING WORK IN NDOT RIGHT-OF-WAY MUST SHOW NDOT STATIONING. THE DEVELOPER ASSUMES ALL LIABILITY FOR WORK CONDUCTED UNDER THE DISTRICT OBTAINED PERMIT THROUGH WARRANTY EXPIRATION.

NDOT OCCUPANCY PERMIT REQUIREMENTS

ESN.024 REV. 08/05/05
PLANS FOR THE PROJECT SHOW PROPOSED WORK WITHIN EXISTING NDOT RIGHT-OF-WAY. DRAWING MUST BE SUBMITTED TO NDOT FOR REVIEW PRIOR TO SUBMITTAL OF MYLARS TO LVVWD FOR APPROVAL. THE LAS VEGAS VALLEY WATER DISTRICT (LVVWD) WILL SUBMIT APPLICATION FOR ENCROACHMENT PERMIT AFTER PLAN APPROVAL. NDOT REQUIRES THAT THE FOLLOWING INFORMATION BE INCLUDED ON THE PLANS:

STREET NAME (NDOT RIGHT-OF-WAY IDENTIFIED AS SR140, ETC.)
NDOT RIGHT-OF-WAY BOUNDARY IDENTIFIED AND CLEARLY STATED
NDOT TRENCH DETAIL OR BORE DETAIL
MAJOR CROSS STREETS
NDOT STATIONING
UNDERLYING FEE OWNERSHIP OF PARCEL

ESN.024 REV. 08/05/05
DISTANCE FROM WORK LOCATION TO MAJOR CROSS STREET
DIMENSION OF TRENCH OR WORK AREA IDENTIFY NDOT CENTERLINE

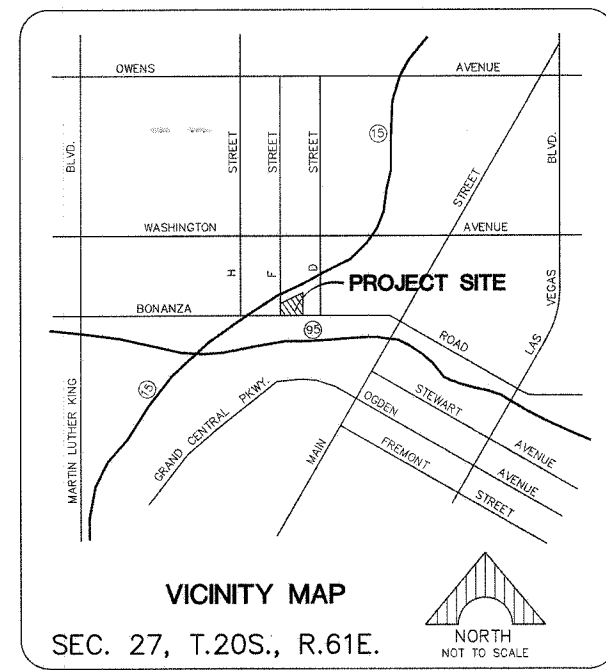
ENGINEER TO COORDINATE WITH NDOT @ 702-385-6509 TO DETERMINE IF RIGHT-OF-WAY IS OWNED BY NDOT OR ONLY MAINTAINED BY NDOT. IF RIGHT-OF-WAY IS ONLY MAINTAINED BY NDOT, THE ENGINEER/DEVELOPER WILL PROVIDE LVVWD WITH EASEMENT FOR RIGHT-OF-WAY FOR UNDER SURFACE INSTALLATION PRIOR TO WATER PLAN APPROVAL.
ESN.024 REV. 08/05/05

BASIS OF BEARING

THE BEARING OF SOUTH 88°35'30" WEST BEING THE BEARING OF THE CENTERLINE OF BONANZA ROAD (ORIGINAL CLARK AVENUE) AS SHOWN BY A MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE AS FILE 01, PAGE 46 OF PLATS.

BENCHMARK

RIVET AND PLATE IN TOP OF CURB NE RETURN WASHINGTON AVENUE AND "D" STREET.
2LV01 27W6 NAVD88
ELEVATION = 2022.72 FEET
616.5268 METERS



BUILDING INFO.

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUND PER SQUARE INCH RESIDUAL

BASED ON:
SQUARE FOOTAGE 10771 S.F.

LARGEST AREA BETWEEN AREA SEPARATION WALLS
HEIGHT TWO (2) STOREY

TYPE OF CONSTRUCTION V-B NONRATED

EXPOSURES

SPRINKLER SYSTEM YES

OCCUPANCY

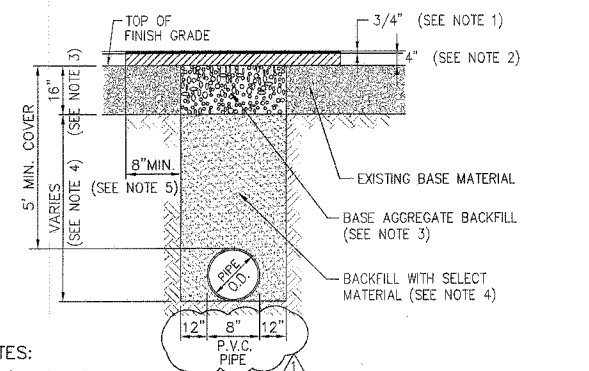
ROOF CONSTRUCTION BUILT-UP

REVIEWED BY: *[Signature]*
DATE: 6/29/09

LEGEND

- FIRE HYDRANT W/ 6" G.V.
- WATER LINE
- SEWER LINE
- SEWER LATERAL
- GATE VALVE
- SEWER MANHOLE
- 150 W HPS LUMINAIRE W/ 11 GA POLE
- STOP SIGN
- STREET SIGN

METHOD OF PATCHING ROADWAY WHERE TRENCHING IS NECESSARY FOR UTILITY OR OTHER INSTALLATIONS



- NOTES:
- 3/4 INCH OPEN GRADE.
 - 4 INCH MINIMUM DENSE GRADE OR MATCH EXISTING, WHICHEVER IS GREATER.
 - BASE AGGREGATE (AS PER NDOT SPECIFICATIONS; SECTION 704). A MINIMUM OF 16 INCHES TO BE LAID IN MAXIMUM 8 INCH LOOSE LIFTS. 95% COMPACTION REQUIRED.
 - BACKFILL WITH SELECT MATERIAL TO BOTTOM OF BASE AGGREGATE (AS PER NDOT SPECIFICATIONS; SECTION 207). 90% COMPACTION REQUIRED.
 - LIMITS OF PAVING SHALL BE DETERMINED BY THE NDOT INSPECTOR.

TRENCH BACKFILL - (NDOT R/W) PAVED AND UNPAVED AREAS

NOT TO SCALE

APPROVED
[Signature]
CITY OF LAS VEGAS - FIRE MARSHAL
DATE: 6/29/09

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT (SHEETS 1, 3, 4 & 5)
PROJECT #114344
DATE: 6/29/09

CLV APPROVAL
REV. DATE
DESCRIPTION
11/7/08
12/11/08
REVISIONS TO THIS DRAWING SHALL BE MADE AS PER NDOT REQUIREMENTS

DelUNA
ENGINEERING • PLANNING • SURVEYING
2875 SOUTH JONES BOULEVARD, STE. 104, LAS VEGAS, NV 89146, (702) 255-6242

SHEET CONTENTS:
LAS VEGAS RESCUE MISSION
DINING HALL FACILITY
MISC. UTILITY PLAN NOTES

SEAL
6/26/09
REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
NO. 2794
EXP. 12/31/10
SHEET 3
OF 8 SHEETS
CLV DWG. #
107V5009