

FOR CONTINUATION SEE SHEET C2.02

CITY OF LAS VEGAS JURISDICTION CLARK COUNTY NEVADA JURISDICTION

A.P.N.:125-19-202-007
GOVERNMENT LOT 18
NOT A PART

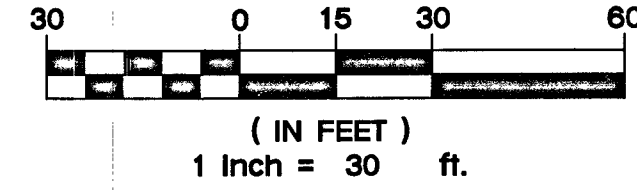
SEWER CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET -
- STUB & CAP SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - INSTALL 48" SANITARY SEWER MANHOLE & BASE PER DCSWCS DWG. NO. SD-1A & SD-1B, CONCRETE COLLAR PER SD-4, SINGLE COVER 24"
 - INSTALL WYE LATERAL CONNECTION PER DCSWCS DWG. NO. SD-22.
 - INSTALL SEWER CLEAN-OUT PER DCSWCS DWG. NO. SD-26.
 - INSTALL 1500 GALLON SAND/OIL INTERCEPTOR BY OTHERS
 - INSTALL 1500 GALLON GREASE INTERCEPTOR BY OTHERS
 - NOT USED
 - SAMPLE MANHOLE FOR INTERCEPTOR(S) BY OTHERS
 - INSTALL SEWER BACK WATER VALVE.

WATER CONSTRUCTION NOTES:

- ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
- NOT ALL NOTES USED ON THIS SHEET -
- INSTALL 10" RPPA PER UDACS PLATE NO. 59.
 - NOT USED.
 - INSTALL 3/4" METER PER DETAIL ON SHEET C2.03
 - INSTALL 1-1/2" RPPA PER DETAIL ON SHEET C2.03
 - INSTALL 1-1/2" METER PER DETAIL ON SHEET C2.03
 - INSTALL REDUCER (SAME SIZE AS PIPES)
 - INSTALL FIRE HYDRANT W/ GATE VALVE PER UDACS PLATE NO. 40.
 - INSTALL SERVICE SADDLE (SAME SIZE AS PIPE) PER UDACS PLATE NO. 30 AND 39.
 - INSTALL GATE VALVE (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL 22.5° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL 11.25° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL TEE (SAME SIZE AS PIPES) PER UDACS PLATE NO. 31.
 - STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
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 - INSTALL 11.25° BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
 - INSTALL 1" RPPA PER DETAIL ON SHEET C2.03
 - INSTALL 1" METER PER DETAIL ON SHEET C2.03
 - INSTALL RETAINING WALL WITH HANDRAIL PER STRUCTURAL DRAWINGS.
 - INSTALL 2" RPPA PER DETAIL ON SHEET C2.03
 - INSTALL 2" METER PER DETAIL ON SHEET C2.03

GRAPHIC SCALE



FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A" VERTICAL SEPARATION OF NO LESS THAN SIX INCHES. AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.03, 2.22.02.B1, AND 2.22.02.B2.

WARNING:

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

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

NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

NOTE:

ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.08.010 UTILITY SCREENING REQUIREMENTS. ALL ABOVE GROUND UTILITIES GREATER THAN 27" CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3' FROM THE BACK OF SIDEWALK AND 10' FROM THE BACK OF DRIVEWAY. INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEW.

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. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APURTANANCES ARE AVAILABLE.

NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY REMEDIATION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (2) 10"

THE REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 59. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE DETECTOR(S) SO AS TO ALLOW LVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (4) 1", (2) 1-1/2", (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER U.D.A.C.S. PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

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

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW CALCULATIONS

BASED ON:	BLDG 1	BLDG 2	C-STORE	CARWASH	STORAGE
SQUARE FOOTAGE:	2,061 SF	4,499 SF	3,868	2,154	94,055
LARGEST AREA BETWEEN SEPARATION WALL:	N/A	N/A	N/A	N/A	N/A
BUILDING HEIGHT:	24'-0"	23'-6"	19'-2"	22'-6"	21'-10 3/8"
NUMBER OF STORIES:	1 STORY	1 STORY	1 STORY	1 STORY	3 STORY
TYPE OF CONSTRUCTION:	V-B	V-B	V-B	V-B	II-B
EXPOSURES:	N/A	N/A	N/A	N/A	N/A
SPRINKLER SYSTEM:	NO	NO	NO	NO	YES
OCCUPANCY:	A-2	A-2/M	W	B	B/R-3/5-1
ROOF CONSTRUCTION:	WOOD TRUSSES W/ PLYWOOD SHEATHING	CLASS C	WOOD TRUSSES	WOOD TRUSSES	CLASS A
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,500 GPM	1,750 GPM	1,750 GPM	1,500 GPM	3,250 GPM

EX. STATIC WATER PRESSURE IS 67.4 psi IN STREET.

FIRE ACCESS NOTES/ LEGEND:

- INSTALL FIRE LANE SIGN AT A MAXIMUM DISTANCE OF EVERY 100' ALONG THE FIRE LANE PER FIRE LANE DETAIL, SHEET C2.01
 - INSTALL FIRE LANE ENTRANCE WARNING SIGN PER DETAIL ON SHEET C2.01.
- NOTE: CURB SHALL BE PAINTED RED ADJACENT TO DESIGNATED FIRE TRUCK ROUTE
- 24' WIDE FIRE TRUCK ACCESSIBLE ROUTE TURNING RADIUS OF 28' & 52' MIN.

NOTE:

REMOVAL OF EXISTING ACTIVE UTILITIES TO BE PHASED AS DIRECTED BY OWNER.

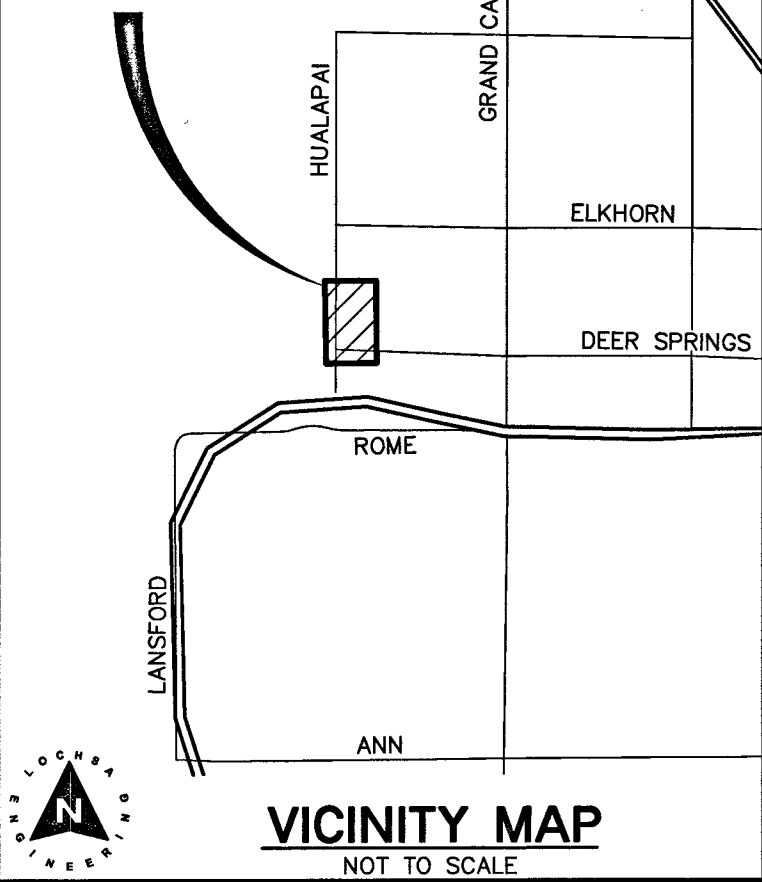
157 Approved 5/11/17
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 125376 FIRST APPROVED DATE: 5/11/18
LVWD APPROVED FIRE FLOW: TOTAL 3,200 GPM/ONSITE 3,200 GPM
NOTE: ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE

CITY OF LAS VEGAS

FIRE DEPARTMENT APPROVAL

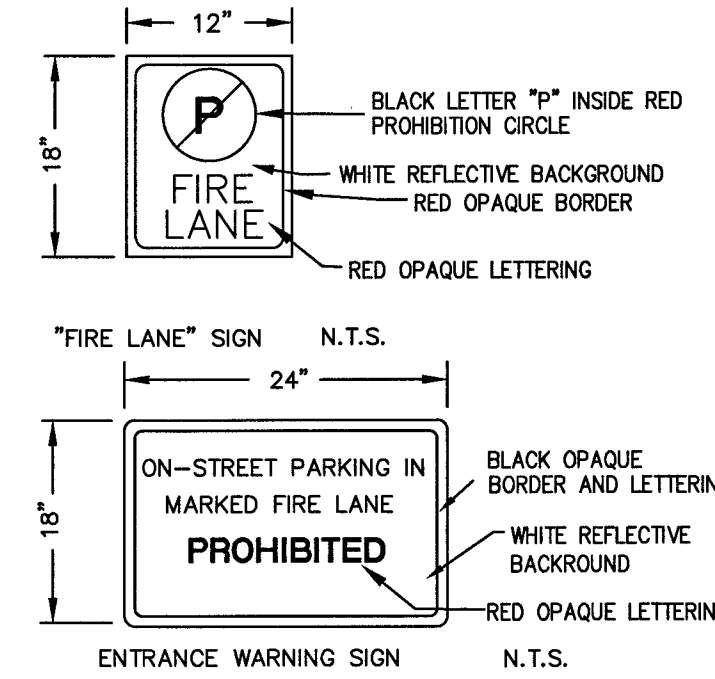
BY: *R. M. ...* DATE: 4/18/18
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. TOTAL FIRE FLOW=3,250 GPM AT 20 P.S.I. RESIDUAL.

PROJECT SITE



VICINITY MAP

NOT TO SCALE



GENERAL UTILITY NOTES:

- STATIC WATER PRESSURE IN ZONE 2975 = 67 PSI.
- THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
- TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDACS PLATE NO. 17, EXCEPT WITHIN RIGHT OF WAY. TRENCH BACKFILL TO BE CONSTRUCTED PER UDACS PLATE NO. 18.
- ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE DCSWCS SECTION 2.2.18 (TYPICAL).
- WATER AND SEWER TO BE INSTALLED IN SEPARATE TRENCHES WITH AT LEAST 10' MINIMUM SEPARATION FROM EXTERIOR PIPE WALLS (TYPICAL). SEE UDACS SECTION 2.22.
- CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
- THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE, TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
- CONTRACTOR/OWNER TO OBTAIN CITY OF LAS VEGAS OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
- CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
- ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
- ALL EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED GAS LINES SHOWN ON THESE PLANS ARE FOR INFORMATION PURPOSES ONLY. SEE SOUTHWEST GAS PLANS FOR CONSTRUCTION.
- ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

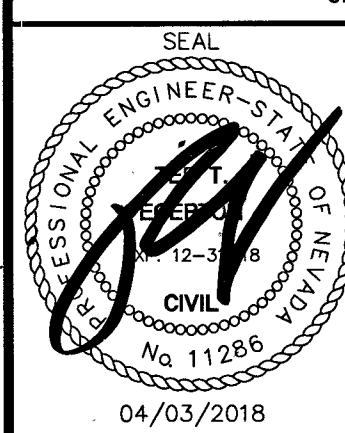
NOTE:

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

Call before you Dig
Avoid hitting overhead power lines. It's costly.

FAST
Call before you Dig
Underground

Call before you Dig
Avoid hitting overhead power lines. It's costly.



PROJECT NO. 161109

DATE: APRIL 3, 2018

SCALE: 1"=30'

DRAWN BY: MGZ

DESIGNED BY: MGZ

CHECKED BY: JLI

SHEET NO. C2.01

CLV NO. 69418

DATE: 17-19758

DATE: 04/03/2018

DATE: 04/03/2018

DATE: 04/03/2018