

| DESCRIPTION                                                      | PUBLIC | PRIVATE      |
|------------------------------------------------------------------|--------|--------------|
| 2" RPPA<br>PER UDACS PLATE NO. 11A                               |        | 1 EA.        |
| 4" PVC FIRE LINE (RATED FOR 200 PSI)                             |        | ±151.00 L.F. |
| 4" 90° ELL                                                       |        | 1 EA.        |
| 4" DOUBLE CHECK DETECTOR ASSEMBLY<br>PER UDACS PLATE NO. 20B     | 1 EA.  |              |
| 6" PVC FIRE LINE                                                 |        | ±71.0 L.F.   |
| 6" TAPPING VALVE, SLEEVE AND COVER                               | 1 EA.  |              |
| 6" x 6" x 6" MECHANICAL JOINT,<br>TAPPING TEE & 6" TAPPING VALVE | 1 EA.  |              |
| FIRE HYDRANT ASSEMBLY<br>PER UDACS PLATE NO. 7                   | 1 EA.  |              |
| 6" 90° ELL                                                       | 1 EA.  |              |

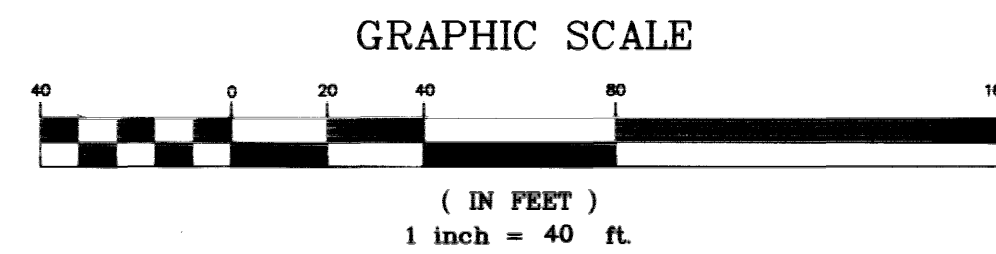
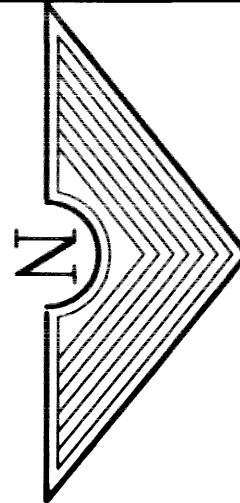
#### NOTES:

- ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- UDACS = UNIVERSAL DESIGN AND CONSTRUCTION STANDARDS

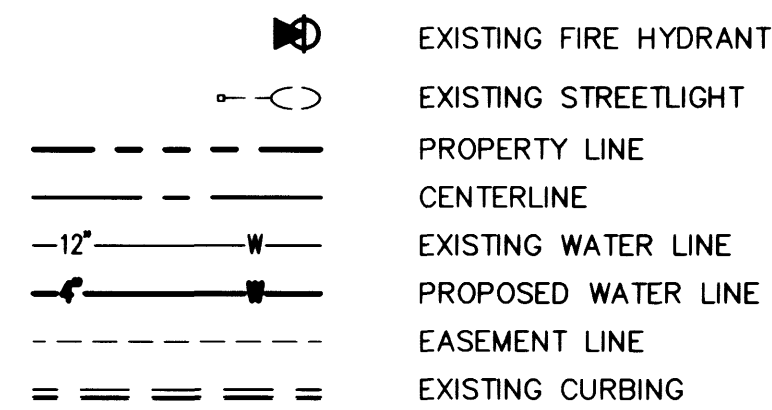
#### INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (1) - 4"

THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 20B. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

SCALE 1" = 40'  
RedRock  
ENGINEERING & SURVEYING, INC.



#### LEGEND



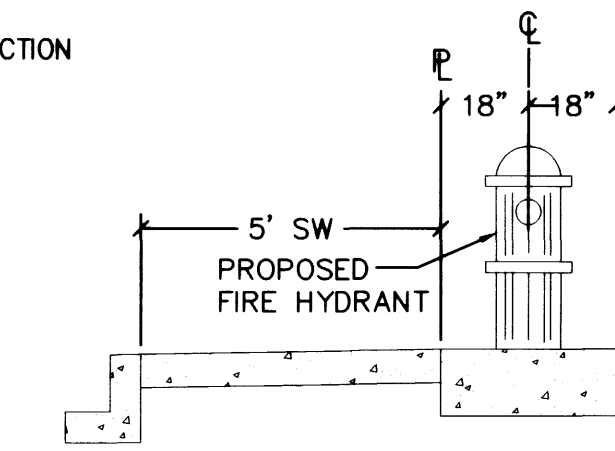
#### ABBREVIATIONS

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| AC - ASPHALT                            | LF - LINEAR FEET                       |
| ACP - ASPHALT CEMENT PIPE               | LT - LEFT                              |
| AVE - AVENUE                            | LVWD - LAS VEGAS VALLEY WATER DISTRICT |
| BC - BACK OF CURB                       | MAX - MAXIMUM                          |
| BVC - BEGINNING OF VERTICAL CURVE       | MH - MANHOLE                           |
| BM - BENCHMARK                          | MIN - MINIMUM                          |
| BW - BACK OF WALK                       | NTS - NOT TO SCALE                     |
| CL - CENTERLINE                         | OC - ON CENTER                         |
| CLV - CITY OF LAS VEGAS                 | P - POWER                              |
| COH - CITY OF HENDERSON                 | PC - POINT OF CURVE                    |
| CONV - CITY OF NORTH LAS VEGAS          | PI - POINT OF INTERSECTION             |
| CC - CLARK COUNTY                       | PP - POWER POLE                        |
| CCSD - CLARK COUNTY SANITATION DISTRICT | PVI - POINT OF VERTICAL INTERSECTION   |
| CO - CLEANOUT (SEWER)                   | PT - POINT OF TANGENCY                 |
| CONC - CONCRETE                         | PB - PULL BOX                          |
| CMP - CORRUGATED METAL PIPE             | PL - PROPERTY LINE                     |
| CIP - CAST IRON PIPE                    | RCP - REINFORCED CONCRETE PIPE         |
| DIA - DIAMETER                          | R - RADIUS                             |
| DI - DROP INLET                         | RPT - RADIUS POINT                     |
| E - EACH                                | RD - RIGHT OF WAY                      |
| EP - EDGE OF PAVEMENT                   | SD - STORM DRAIN                       |
| EM - ELECTRIC METER                     | SW - STREETLIGHT                       |
| ELEV - ELEVATION                        | SS - SANITARY SEWER                    |
| EVC - END OF VERTICAL CURVE             | STA - STATION                          |
| EXIST - EXISTING                        | SMH - SEWER MANHOLE                    |
| F.D.C. - FIRE DEPARTMENT CONNECTION     | SW - SIDEWALK                          |
| FF - FINISHED FLOOR                     | TC - TOP OF CURB                       |
| FL - FLOW LINE                          | TYP - TYPICAL                          |
| FT - FEET OR FOOT                       | T - TELEPHONE                          |
| FG - FINISHED GRADE                     | TOW - TOP OF WALL                      |
| PH - FIRE HYDRANT                       | TW - TOP OF WALK                       |
| GB - GRADE BREAK                        | WM - WATER METER                       |
| GM - GAS METER                          | WV - WATER VALVE                       |
| GV - GATE VALVE                         | Δ - DELTA                              |
| INV - INVERT                            |                                        |

#### REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) - 2"

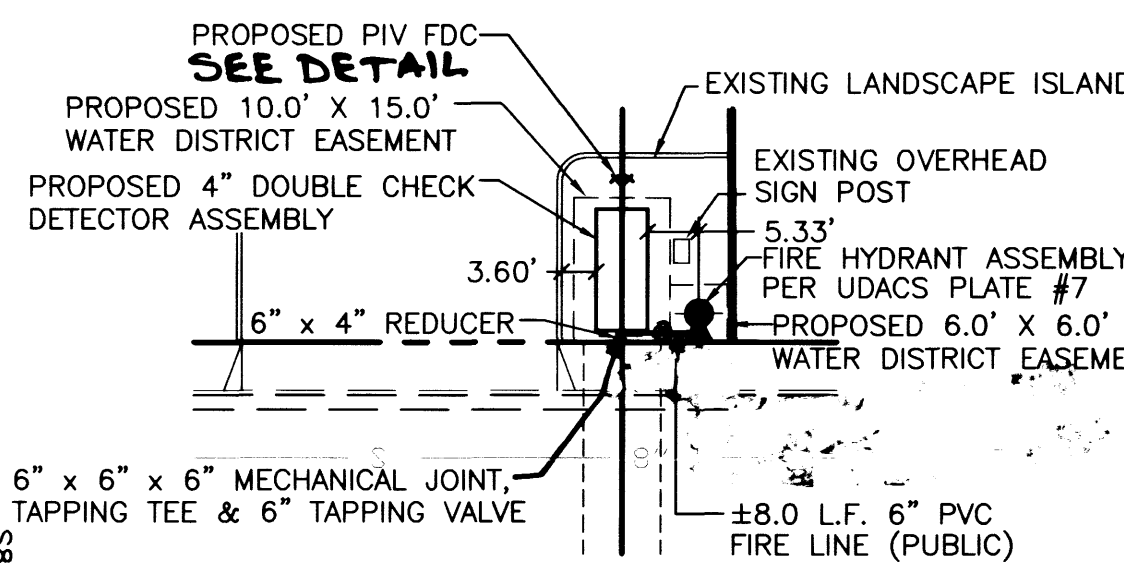
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

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

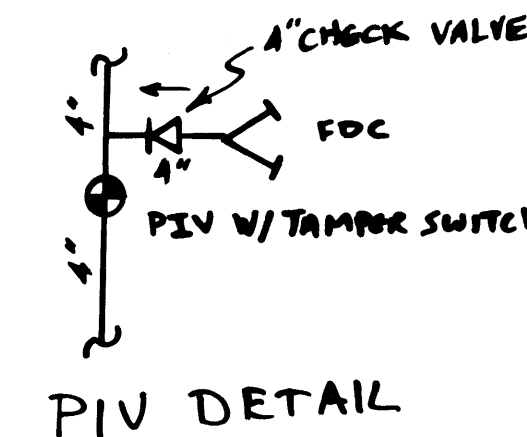


FIRE HYDRANT LOCATION DETAIL

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7



SCALE: 1" = 20.00'



PIV DETAIL

#### LVVWD STANDARD NOTES

LVVWD - PROJECT # 20370

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.  
WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWINGS AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHER OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE 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.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
  - POTABLE WATER SUPPLY QUALITY MATERIAL.
  - ENCASEMENT WITH FOUR (4) INCH CONCRETE (MINIMUM)
  - SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
 EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER ON EITHER SIDE OF THE MAIN, A MINIMUM TEN (10) FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.

A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR AS SHOWN ON THESE PLANS:

- WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP
- CONSTRUCTION MAY INTERRUPT SERVICE WITH LVVWD APPROVAL AND PROPER NOTIFICATION. BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEES BE INSTALLED WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEES MUST HAVE PRIOR LVVWD APPROVAL
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PREAPPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATES REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS

REV. JUNE 23, 1996

LAS VEGAS VALLEY WATER DISTRICT

DATE 6/09/20

#### FIRE DEPARTMENT APPROVAL

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

#### FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2,625 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SQUARE FOOTAGE:                                     | 38,611      | SQUARE FEET |
| LARGEST AREA BETWEEN 4'-HOUR AREA SEPARATION WALLS: | 0           | SQUARE FEET |
| BUILDING HEIGHT:                                    | 24          | FEET        |
| NUMBER OF STORIES:                                  | TWO         | FLOORS      |
| TYPE OF CONSTRUCTION:                               | V-N         |             |
| OCCUPANCY:                                          | AUTO RETAIL |             |

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☒ YES ☐ NO

REVIEWED BY: *[Signature]* DATE: 5.11.00

|                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.</p> <p><b>CALL BEFORE YOU Dig</b></p> <p>1-800-227-2600<br/>UNDERGROUND SERVICE (USA)</p> | <p>NOTICE !</p> <p>EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.</p> <p><b>CALL BEFORE YOU OVERHEAD</b></p> <p>1-702-593-6111<br/>NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPT.</p> | <p>AVOID OVERHEAD POWER LINE CONTACT.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|

AUTO-NATION INC.

FIRE- WATER PLAN

2333 S. DECATUR BLVD

LAS VEGAS, NEVADA

DRAWN BY : M.B.

DESIGNED BY : M.B.

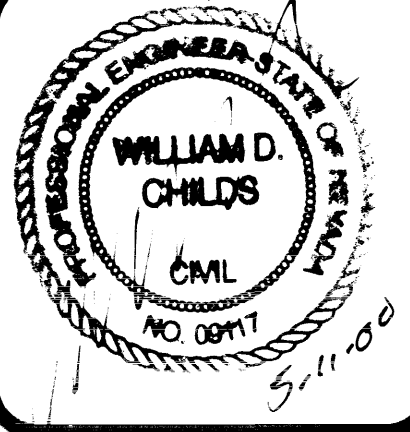
CHECKED BY : M.D.C.

DATE : 03/07/2000

JOB # : 20019

APN : 163-01-803-004

SECT 01 T 21 S R 60 E



SHEET #

C3

3 OF 3

107-V3259