



- CONSTRUCTION NOTES**
- (A) WET TAP W/ 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS SECTION 2.24.01 A
  - (B) INSTALL 8" 90° BEND
  - (C) INSTALL 8" DIP WATER PER UDACS
  - (D) INSTALL 8"x8" CROSS PER UDACS PLT NO. 31
  - (E) RELOCATE EXISTING FIRE HYDRANT PER UDACS PLT NO. 40 TO NEW LOCATIONS SHOWN ON PLANS
  - (F) CUT & CAP EXISTING WATER MAIN AFTER NEW MAIN IS IN SERVICE (ABANDON IN PLACE) PER UDACS SECT 2.12
  - (G) EXISTING WATERLINE TO BE ABANDONED IN PLACE
  - (H) INSTALL 8" GATE VALVE PER UDACS PLT. NO. 30
  - (I) INSTALL 8" COUPLING
  - (J) RELOCATE 6" GATE VALVE
  - (K) EX. GATE VALVES TO BE REMOVED.
  - (L) WET TAP W/ 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS SECTION 2.24.01 B.
  - (M) INSTALL 6" PVC WATER PER UDACS
  - (N) INSTALL 1" COPPER IRRIGATION WATER LINE WITH 3/4" WATER METER PER UDACS PLT. NO. 8 AND A 1" RPPA PER UDACS PLT. NO. 8.
  - (O) INSTALL 1" COPPER PIPE PER UDACS.
  - (P) INSTALL 1" BRASS PIPE PER UDACS.
  - (Q) WET TAP W/ 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS SECTION 2.24.01 A
  - (R) INSTALL 6" 90° BEND
  - (S) INSTALL 8"x8" REDUCER
  - (T) INSTALL 6" DIP WATER PER UDACS
  - (U) INSTALL 1" SERVICE SADDLE & LATERAL PER UDACS PLT. NO. 2.

**WATERLINE TRENCH NOTE**  
CONSTRUCT WATERLINE TRENCH SECTION AND BACKFILL PER UDACS PLATE NO. 17.

APPROVED FOR CONSTRUCTION  
*Y. D. DISHARI FOR DOA HEAD*  
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
 DATE 5/15/13 PROJECT NO. 116883

**RELOCATION OF FIRE HYDRANTS**  
 (EXTENSION OF EXISTING LATERAL)  
 THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF EXISTING FIRE HYDRANT(S) WHERE SHOWN, EXTEND THE EXISTING LATERAL AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER THE DIRECTION OF THE DISTRICT, TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE NO. 40. LATERALS MADE OF UNAPPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW.

**FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT**  
 (EXISTING LATERAL TO BE ABANDONED)  
 WHERE SHOWN ON THE DRAWING(S), THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE NO. 40. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI. THE LATERAL SHALL BE CUT WITH ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE NO. 31.

**EXTEND SERVICE LATERALS 2" AND SMALLER**  
 WATER METERS IN FINISHED ROADWAYS SHALL BE RELOCATED TO BACK OF CURB, AND SHALL BE INSTALLED PER THE UDACS PLATE NO. 4.  
 ALL SERVICE LATERALS 2" AND SMALLER MAY BE EXTENDED, PROVIDING THE FOLLOWING CRITERIA ARE MET:  
 • LATERAL CAN ONLY BE EXTENDED IF CONNECTING TO THE COPPER.  
 • LATERAL MUST BE INSTALLED AT 90 DEGREES TO THE MAIN  
 • AN EXISTING SERVICE LATERAL THAT IS NOT COPPER IS TO BE ABANDONED FROM THE EXISTING WATER MAIN, AND REPLACED WITH A COPPER SERVICE LATERAL PER UDACS PLATE NO. 2 OR 4. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION.

**ABANDONED VALVES**  
 ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH THE CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI. REFER TO THE CUT & CAP NOTE FOR THE LATERAL ABANDONMENT.  
 ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.

**SHUTDOWN 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. THE CONTRACTOR IS TO INSTALL A TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.  
 THIS PROJECT PROVIDES FOR THE INSTALLATION OF OFF-SITE MAINS ONLY, AND DOES NOT PROVIDE OR IMPLY ANY WATER COMMITMENT.

**CUT & CAP**  
 THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING, AND INSTALL A CAP COMPLETE WITH A THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION(S), THE INSTALLATION OF A PLUG MAYBE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE NO. 31.

**ACP DISPOSAL NOTE**  
 DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

**SHALLOW ACP WATERLINE**  
 THIS PROJECT CONTAINS AREAS OF EXISTING ASBESTOS CEMENT PIPE (ACP) INSTALLATION. DUE TO THE AGE AND BRITTLINESS OF THIS PIPE IT IS MANDATORY THAT A MINIMUM OF TWO (2) FEET OF COVER BE MAINTAINED OVER THE PIPE DURING ALL CONSTRUCTION WORK.

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

AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY!  
 Call before you Dig  
 Avoid cutting underground utility lines. It's costly!  
 Call 811  
 1-702-227-2929

**BASIS OF BEARINGS**  
 NORTH 27°39'52" EAST, BEING THE BEARING OF THE CENTERLINE OF MAIN STREET BETWEEN COOLIDGE AVENUE AND HOOVER AVENUE AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 184 AT PAGE 25.

**PROJECT BENCHMARK**  
 PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)  
 CITY OF LAS VEGAS BENCHMARK: 2LV01-2756  
 NAVD88 ELEVATION: 613.0214 METERS (2011.22 FEET)  
 NDOT MON IN TOP OF CURB ONE CORNER OF BONANZA AND MAIN.

PUBLIC WORKS DEPARTMENT 333 N. RANCHO DRIVE 702-229-8106		2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148 333 N. RANCHO DRIVE LAS VEGAS, NV 702 362-2897 WWW.VNWN.COM	
WATERLINE RELOCATION PLAN "GA" 10+75.00 TO 13+00.00 GARCES AVENUE		DOWNTOWN PEDESTRIAN & BICYCLE IMPROVEMENTS GARCES AVENUE MAIN STREET TO 6TH STREET	
DRAWN BY: DAM	11/29/12	DESIGNED BY: DAM	11/29/12
CHECKED BY: RCH	11/29/12	PROJECT NO.: 73590	SCALE: AS SHOWN
APPROVED FOR CONSTRUCTION Y. D. DISHARI FOR DOA HEAD LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE 5/15/13 PROJECT NO. 116883		APPROVED FOR CONSTRUCTION ROBERT HOSEA CIVIL EXP. 04/02/08 5.13.13	
H#38974		107V6884-GARCES	