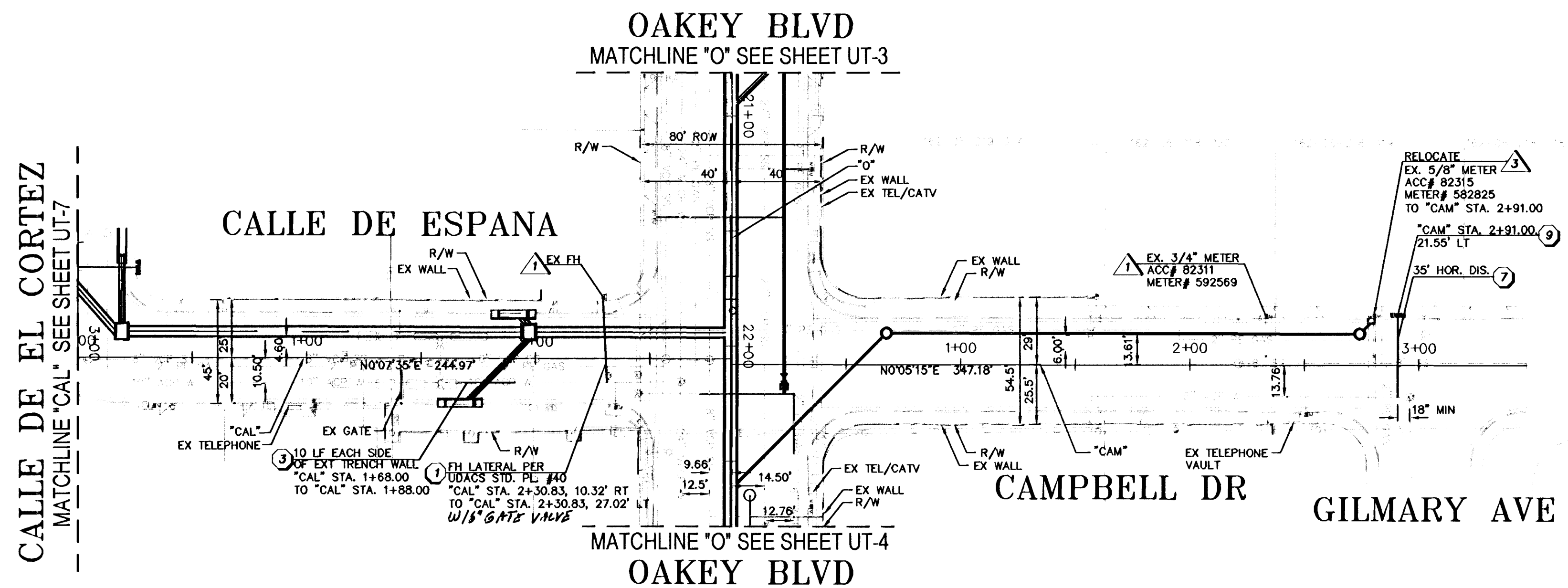


BASIS OF BEARINGS

N 89°55'18\"/>

BENCHMARK

CITY OF LAS VEGAS BM 1LV115 CA: RIVET & PLATE IN TOP OF CURB, AT SOUTHWEST CORNER OF OAKEY BOULEVARD AND CAMPBELL DRIVE. ELEVATION: 2106.93' (NAVD88)

CAUTION:

EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

UTILITY NOTES:

1. PROTECT IN PLACE AND ADJUST TO FINISHED GRADE EXCEPT AS OTHERWISE NOTED
2. RELOCATE

WATER LINE NOTES:

1. INSTALL 6\"/>

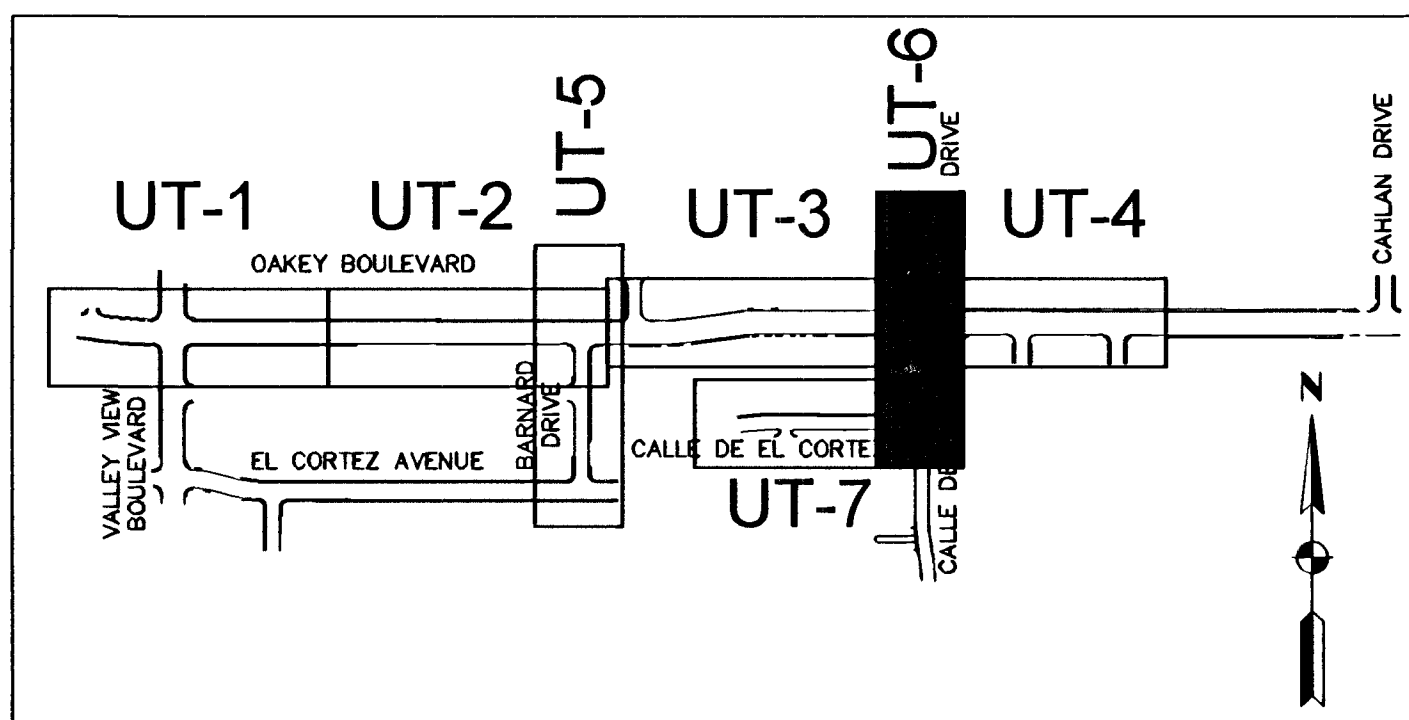
SEWER LINE NOTES:

1. INSTALL SS LATERAL
2. CONSTRUCT 8\"/>

GENERAL WATER LINE NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING WATERLINE PIPES, SERVICE LATERALS AND OTHER UTILITIES PRIOR TO INSTALLATION OF NEW PIPELINES AND/OR APPURTENANCES.
2. CONTRACTOR SHALL TIE EXISTING AND PROPOSED WATERLINE LATERALS TO THE PROPOSED WATERLINE ALONG OAKEY BOULEVARD AND THE EXISTING AND PROPOSED SERVICE LATERALS TO THE PROPOSED WATERLINE ALONG OAKEY BOULEVARD AND STREET LATERALS.
3. FOR ALL MATERIALS NOT ON THE APPROVED PRODUCTS LIST, SHOP DRAWINGS FOR ALL POLYVINYL CHLORIDE PRESSURE PIPE (C-905) FITTINGS, ACCESSORIES, AND APPURTENANCES SHALL BE SUBMITTED TO THE LAS VEGAS VALLEY WATER DISTRICT, ENGINEERING SERVICES DIVISION, FOR REVIEW AND APPROVAL.
4. ALL WATER PIPE DIMENSIONS SHOWN ARE GIVEN FROM FITTING TO FITTING AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
5. 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 SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
6. CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO LVWMD BEFORE CONSTRUCTION, TO SHOW HOW WATERLINES SPANNING A TRENCH WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. DRAWINGS WILL INCLUDE ALL LOCATIONS WHERE WATERLINES SPAN A TRENCH GREATER THAN FOUR (4) FEET WIDE.
7. RECONNECTION OF SERVICE LATERAL TO BE DONE PER UDACS PLATE NO. 2. AN EXISTING SERVICE LATERAL THAT IS NOT COPPER IS TO BE ABANDONED FROM THE EXISTING WATERMAIN AND REPLACED WITH A COPPER SERVICE LATERAL PER UDACS PLATE NO. 2.
8. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET 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 THRUST BLOCK, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE 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 31.
9. 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 CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.
10. DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. SEE SPECIAL PROVISIONS SECTION 609.
11. ALL EXISTING ACP WATERLINE CROSSING A TRENCH GREATER THAN 6 FEET WIDE SHALL BE REPLACED WITH DUCTILE IRON PIPE (DIP). ALL OTHER WATERLINES CROSSING TRENCHES GREATER THAN 6 FEET SHALL HAVE A SUPPORT DETAIL SUBMITTED TO THE LVWMD FOR APPROVAL PRIOR TO CONSTRUCTION.
12. EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWO (2) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. 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 DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVWMD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE RELOCATED TO THE NOTED LOCATION. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING Voids, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.
13. CONTRACTOR IS RESPONSIBLE FOR ON-SITE RESTORATION.
14. MAINTAIN MINIMUM EIGHTEEN (18) INCHES OF SEPARATION BETWEEN PROPOSED WATER LATERAL EXISTING WATER SERVICE LATERALS DURING INSTALLATION OF NEW SERVICE LINES.
15. WATER MAIN JOINT DEFLECTION (PVC 4\"/>

KEY MAP

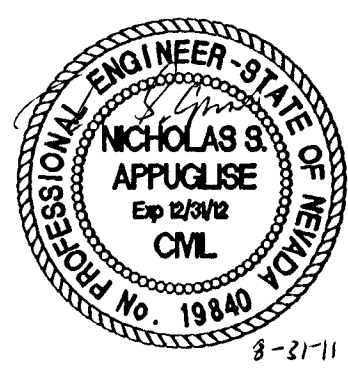


APPROVED FOR CONSTRUCTION

William Carey

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 10/04/11 PROJECT No. 116388



Sheet

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DRAWING NO. 327V288

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