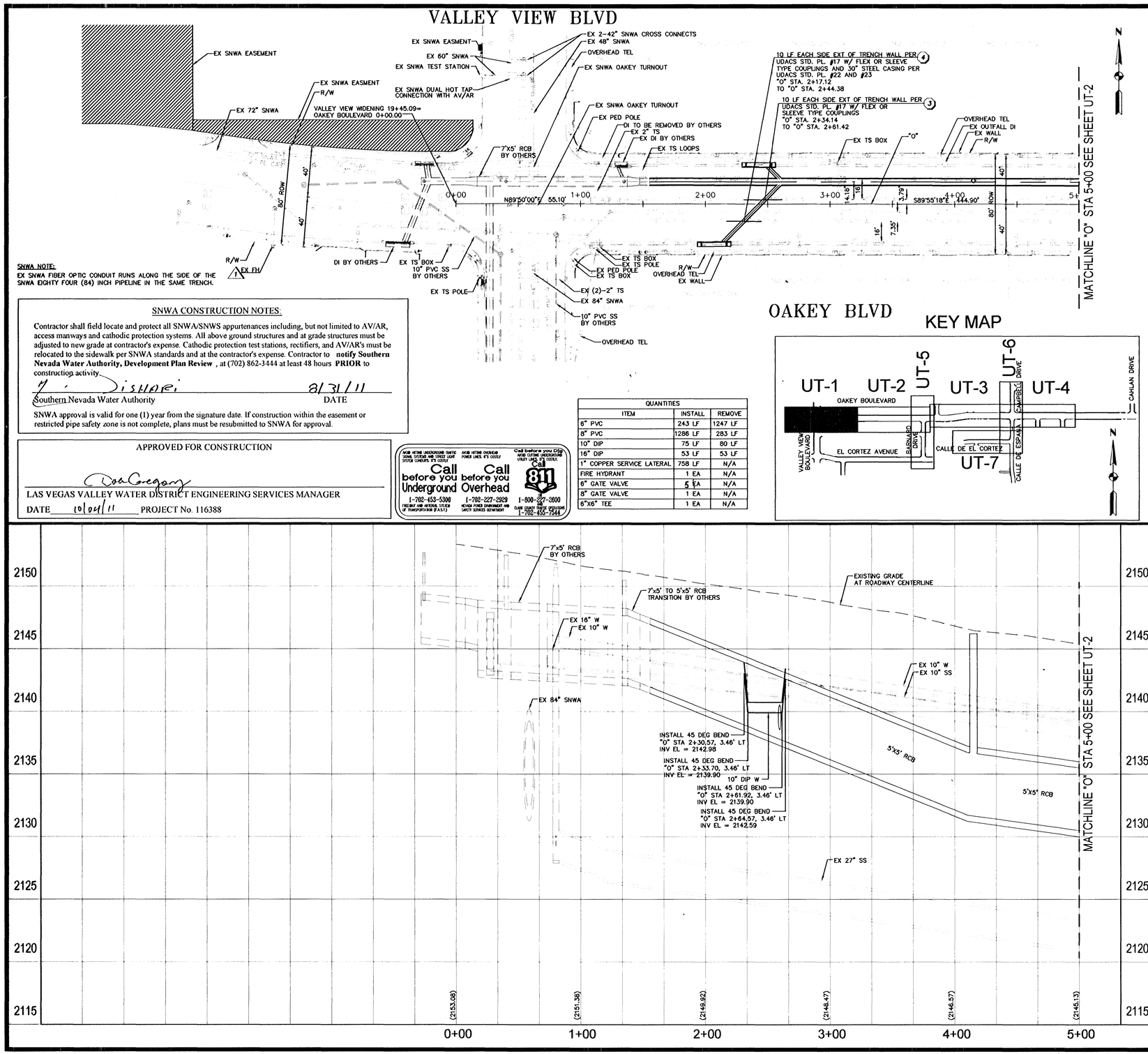

SNWA NOTE:
EX SNWA FIBER OPTIC CONDUIT RUNS ALONG THE SIDE OF THE SNWA EIGHTY FOUR (84) INCH PIPELINE IN THE SAME TRENCH.

SNWA CONSTRUCTION NOTES:

Contractor shall field locate and protect all SNWA/SNWS appurtenances including, but not limited to AV/AR, access manways and cathodic protection systems. All above ground structures and at grade structures must be adjusted to new grade at contractor's expense. Cathodic protection test stations, rectifiers, and AV/AR's must be relocated to the sidewalk per SNWA standards and at the contractor's expense. Contractor to **notify Southern Nevada Water Authority, Development Plan Review**, at (702) 862-3444 at least 48 hours **PRIOR** to construction activity.

Y. Dishari 8/31/11
Southern Nevada Water Authority DATE

SNWA approval is valid for one (1) year from the signature date. If construction within the easement or restricted pipe safety zone is not complete, plans must be resubmitted to SNWA for approval.

APPROVED FOR CONSTRUCTION

Don Gregory
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 10/04/11 PROJECT No. 116388

AVOID VISITING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY
Call before you Underground 1-702-453-5300 CHECKMAT AND MATERIAL SYSTEM OF TRANSPORTATION (FASTI)
AVOID VISITING OVERHEAD POWER LINES. IT'S COSTLY
Call before you Overhead 1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY
Call 811 1-800-227-2600 CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

QUANTITIES		
ITEM	INSTALL	REMOVE
6" PVC	243 LF	1247 LF
8" PVC	1286 LF	283 LF
10" DIP	75 LF	80 LF
16" DIP	53 LF	53 LF
1" COPPER SERVICE LATERAL	758 LF	N/A
FIRE HYDRANT	1 EA	N/A
6" GATE VALVE	5 EA	N/A
8" GATE VALVE	1 EA	N/A
6"X6" TEE	1 EA	N/A

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
HORIZ 1 inch = 40 ft. – VER 1 inch = 4 ft.

BASIS OF BEARINGS

N 89°55'18 W, BEING THE CENTERLINE OF OAKEY BOULEVARD, BETWEEN BARNARD DRIVE AND VALLEY VIEW BOULEVARD, AS SHOWN ON A RECORD OF SURVEY, RECORDED IN FILE 142 OF SURVEYS, PAGE 72, OFFICIAL RECORDS, CLARK COUNTY, NEVADA

BENCHMARK

CITY OF LAS VEGAS BM 1LV115 C4: 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" PVC
2. INSTALL 8" PVC
3. INSTALL 10" DIP
4. INSTALL 16" DIP
5. INSTALL 6" X 6" M.J. TAPPING SLEEVE OR APPROVED EQUAL WITH 6" TAPPING VALVE PER UDACS PLATE NO. 34
6. INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
7. INSTALL 1" COPPER SERVICE LATERAL PER UDACS PLATE NO. 2 AND CONNECT EXISTING/PROPOSED/RELOCATED METER
8. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40, CONDITION "A"
9. RELOCATE 3/4" WATER METER PER UDACS PLATE NO. 2
10. INSTALL 8" 45° BEND PER UDACS PLATE NO. 31
11. INSTALL 6" GATE VALVE PER UDACS PLATE NO. 30 AND 39
12. CUT AND CAP EXISTING 6" ACP A MINIMUM OF 3' FROM PROPOSED WET TAP AND PLACE A CONCRETE THRUST BLOCK IN ACCORDANCE WITH UDACS PLATE NO. 31
13. EXISTING 6" GATE VALVE TO BE ABANDONED IN PLACE
14. INSTALL 6"x6" TEE PER UDACS PLATE NO. 31
15. INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 AND 39

SEWER LINE NOTES:
1. INSTALL SS LATERAL
2. CONSTRUCT 8" PVC C900 SS PIPE PER SD-20 OF DCSWCS

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 TIE 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 LVVWD 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 629.
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 LVVWD 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 TWELVE (12) 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 LVVWD 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 SERVICE SADDLES PER UDACS SECTION 2.17.01(C).
15. PROTECT EXISTING WATER SERVICE LATERALS DURING INSTALLATION OF NEW SERVICE LINES.
16. WATER MAIN JOINT DEFLECTION (PVC 4" – 24"). PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

100% FINAL SUBMITTAL

NO.	DATE:	DESCRIPTION	APP'D
REVISIONS			

DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT

DESIGNED BY: NA
DRAWN BY: RM
CHECKED BY: EH
DATE: 8/31/11

PARSONS BRINCKERHOFF
3830 HOWARD HUGHES PARKWAY
SUITE 300
LAS VEGAS, NEVADA 89169

TITLE: OAKEY STORM DRAIN CAHLAN TO BARNARD

SHEET: UTILITY / WATER RELOCATION PLAN "O" STA: 0+00 TO 5+00

PROFESSIONAL ENGINEER STATE OF NEVADA
NICHOLAS S. APPUGLISE
Exp 12/31/12
CIVIL
No. 19840
8-31-11

Sheet
UT-1
33 of 46
DRAWING NO.
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