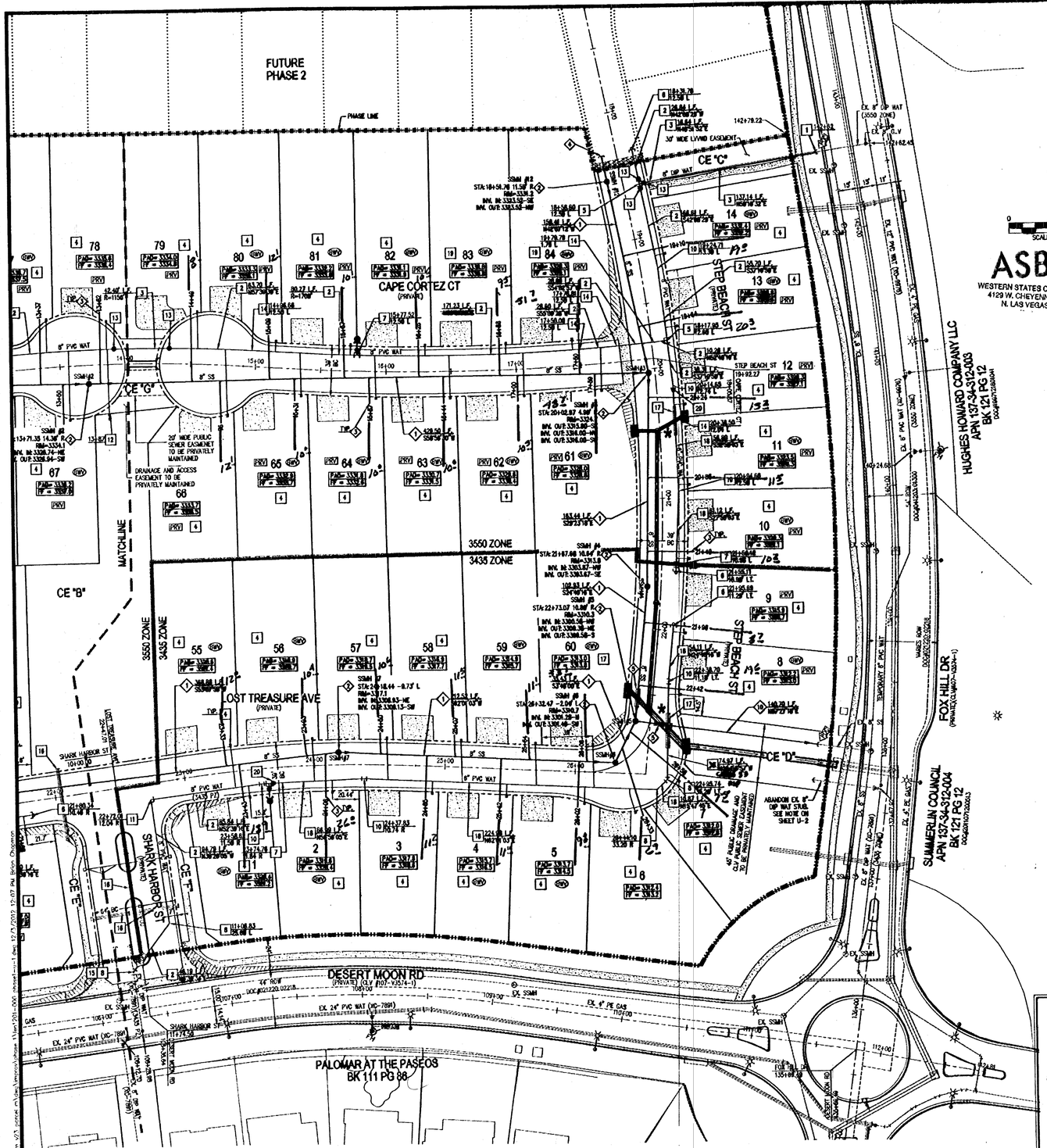
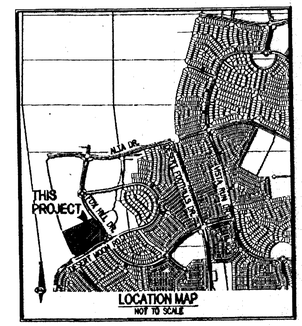




N

SCALE 1"=40 FEET

ASBUILT

WESTERN STATES CONTRACTING, INC.
4129 W. CHEYENNE AVE, SUITE B
N. LAS VEGAS, NV 89032

THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

ADJUST ALL EXISTING WATER VALVE BOXES TO FINISHED GRADE PER UDACS PLATE NO. 38. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.

ABOVE GROUND UTILITY NOTE

ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.08 UTILITY SCREENING REQUIREMENTS. ALL ABOVE GROUND UTILITIES GREATER THAN 27 CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3 FEET FROM THE BACK OF SIDEWALK AND SHALL INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEWS

ABANDONED VALVES CUT AND CAP

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 COMPREHENSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON 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 INSTALL 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 37.

BENCHMARK

RIVET & PLUG IN TOP OF CURB IN THE SOUTHEAST CORNER OF DESERT MOON ROAD & DESERT SUNRISE ROAD, TLV0934-SWSA

NAVD 88 ELEVATION = 1008.289 METERS = 3306.47 FEET

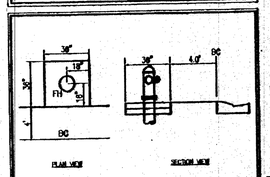
BASIS OF BEARING

NORTH 05°59'50" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 58 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 145, PAGE 47 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

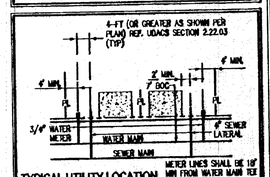
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15

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.



TYPICAL FIRE HYDRANT LOCATION DETAIL



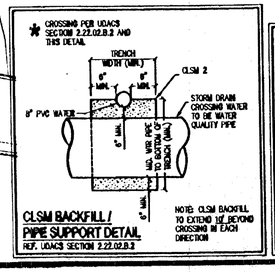
TYPICAL UTILITY LOCATION
UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)

WATER LINES SHALL BE 18" MIN FROM WATER MAIN TEE INTERSECTIONS, CROSSINGS, AND VALVES

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 18.12.04

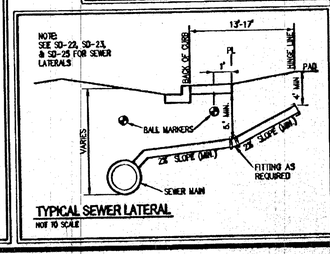
DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



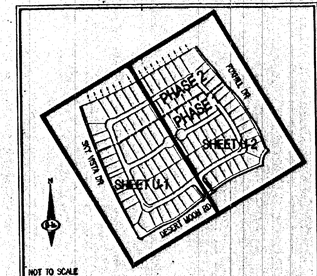
CLSM BACKFILL / PIPE SUPPORT DETAIL
REF. UDACS SECTION 2.22.02.B.2

NOTE: CLSM BACKFILL TO EXTEND 1FT BEYOND CROSSING IN EACH DIRECTION



TYPICAL SEWER LATERAL
NOT TO SCALE

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY (S) SHALL BE INSTALLED PER THE UDACS 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 CHAIN 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



WATER NOTES

1. REMOVE EX. CAP AND BLOW-OFF ASSEMBLY AND CONNECT TO EX. 8" DIP WAT
2. INSTALL 8" PVC (CLASS 150) WATER PIPE
3. INSTALL 8" DIP (CLASS 53) WATER PIPE W/ MECHANICAL JOINTS IN SLEEVE PER PLATE #23. PIPE TO BE DOUBLE BAGGED. BACKFILL TRENCH WITH CLASS 1 CLSM. CARSONITE OR BRASS MARKERS TO BE LOCATED ALONG WATERLINE. (JOINTS ARE TO BE BONDED AND TEST STATIONS PLACED AT EACH END OF EASEMENT)
4. INSTALL 3/4" WATER METER PER UDACS PLATE # 2 (TYP)
5. INSTALL 8" x 8" TEE WITH THRUST BLOCKS PER UDACS PLATE # 38
6. INSTALL CAP AND 2" BLOWOFF VALVE PER UDACS PLATE # 38
7. INSTALL 8" x 8" TEE PER UDACS PLATE # 38 AND FIRE HYDRANT ASSEMBLY WITH 8" GATE VALVE PER UDACS PLATE # 40
8. INSTALL 45° BEND PER UDACS PLATE #38
9. INSTALL 22.5° BEND PER UDACS PLATE #38
10. INSTALL 5° HORIZONTAL BEND (RESTRAIN BOTH ENDS)
11. INSTAL 90° HORIZONTAL BEND PER UDACS PLATE #38
12. INSTALL 2" IRRIGATION METER PER UDACS PLATE NO. 4 WITH BACKFLOW PREVENTION ASSEMBLY PER UDACS PLATE NO. 8
13. 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 38 & 39
14. 11° MAX. DEFLECTION
15. CUT AND CONNECT TO EXISTING 8" PVC WAT.
16. ABANDON PIPE TO NORTH
17. 2-EA. 4" (SCH 40) PVC AND 1-EA. 8" (SCH 40) PVC SLEEVES
18. INSTALL CLSM BACKFILL / PIPE SUPPORT PER DETAIL ON SHEET U-2
19. INSTALL 8" PVC (CLASS 150) WATER PIPE
20. INSTALL 1" WATER METER PER UDACS PLATE NO. 4
21. INSTALL 8"x6" REDUCER

SEWER NOTES

1. INSTALL 8" PVC SANITARY SEWER PIPE
2. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCNCS SD-1A & SD-1B.
3. INSTALL 4" SEWER LATERAL PER SD-22, SD-23, & SD-25
4. W/ 4" X 4" WYE (TYPICAL)
5. STUB AND CAP 8" SS (WITH THRUST BLOCK PER DETAIL ON SHEET U-1)
6. INSTALL SEWER PROTECTION PER SD-21

SEE SHEET C-2 FOR QUANTITIES AND ABBREVIATIONS

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL NOT BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN ISEA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 6.23.5.01.02
3. ALL SEWER/ STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOOP AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVAL
K Mills 12/18/12
LAS VEGAS FIRE AND RESCUE DATE

APPROVED FOR CONSTRUCTION
Dan Theado
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 12/18/12 PROJECT NO. 120983
LVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL

SUMMERLIN
SUMMERLIN RESIDENTIAL DESIGN REVIEW COMMITTEE DATE
THIS SIGNATURE IS LIMITED TO APPROVAL OF THESE DOCUMENTS FOR CONFORMANCE TO THE DESIGN INTENT OF THE APPLICABLE DESIGN CRITERIA. NEITHER SUMMERLIN NOR THE SUMMERLIN RESIDENTIAL DESIGN REVIEW COMMITTEE ASSUMES RESPONSIBILITY FOR PLAN CONFORMANCE WITH APPLICABLE LAWS, ORDINANCES, AND CODES.

LENNAR® LAS VEGAS, NEVADA
ESPERANZA PHASE 1
UTILITY PLAN II

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
6140 S. JONES BLVD., STE. 100, LAS VEGAS, NV 89118
PHONE (702) 364-1000 FAX (702) 364-8380

NO.	DESCRIPTION	DATE	BY	CHK	APP.

DATE: 11/29/12
DRAFTER: BCC
DESIGNER: BCC
CHECKED: STS
PROJECT NO. LEN1201.000

PROFESSIONAL ENGINEER - STATE OF NEVADA
JERRY A. SLATER
No. 14187
EXP. 6/30/2014
CIVIL
12-3-12

U-2
SHEET 16 OF 18

ASBUILT

107V5900

H# 46516