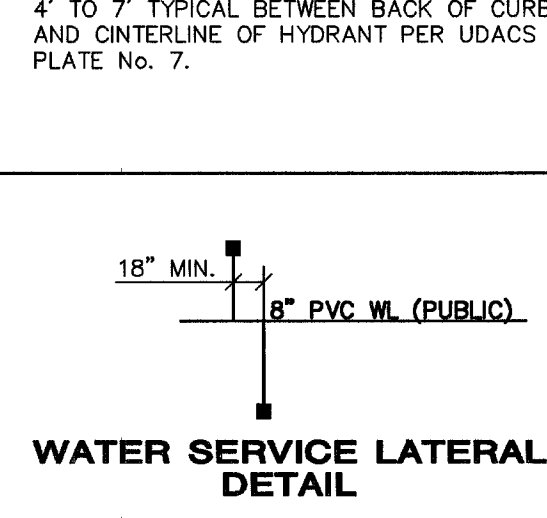
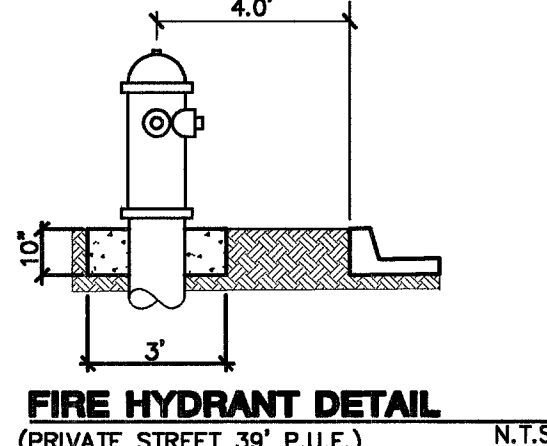
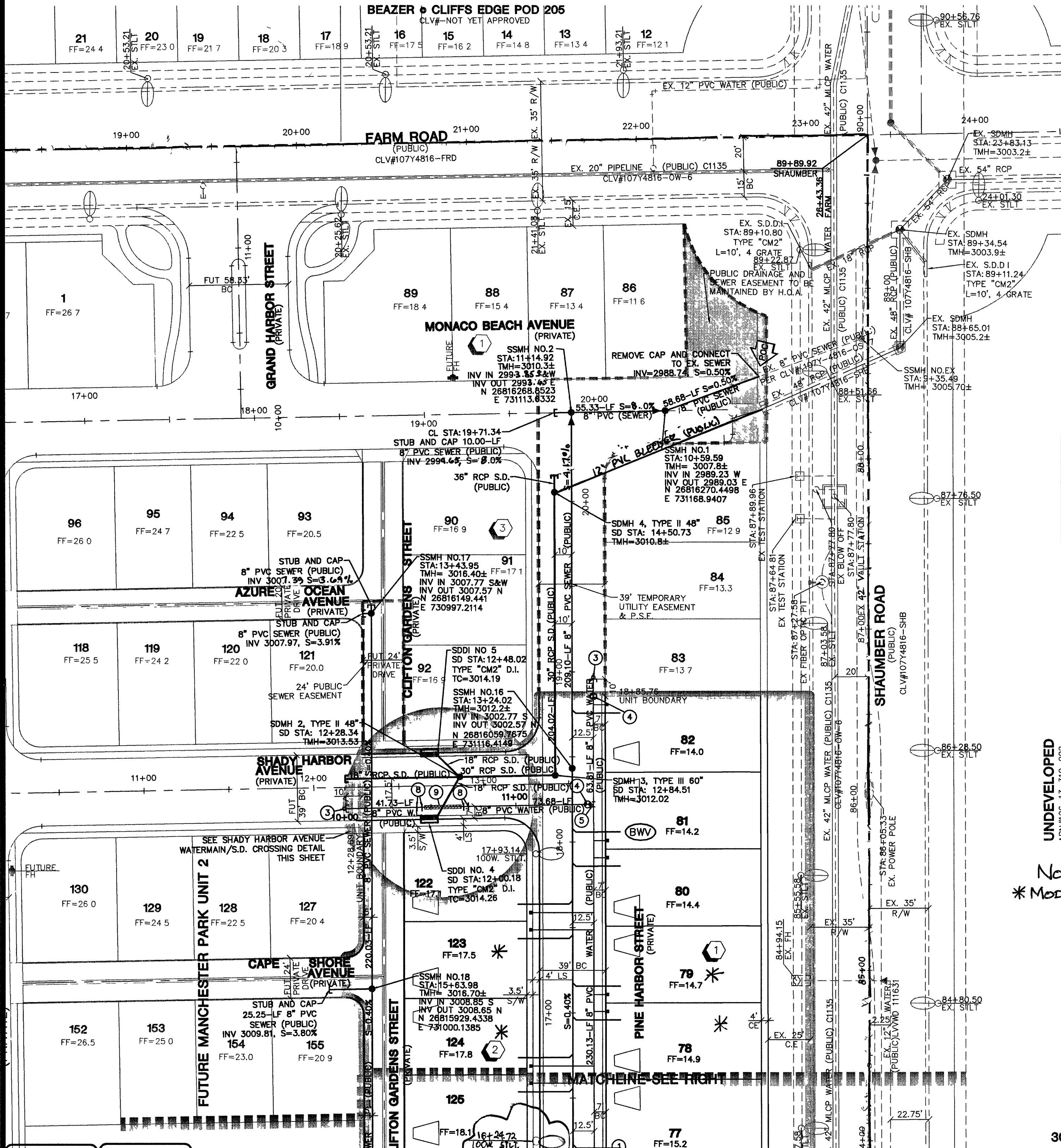
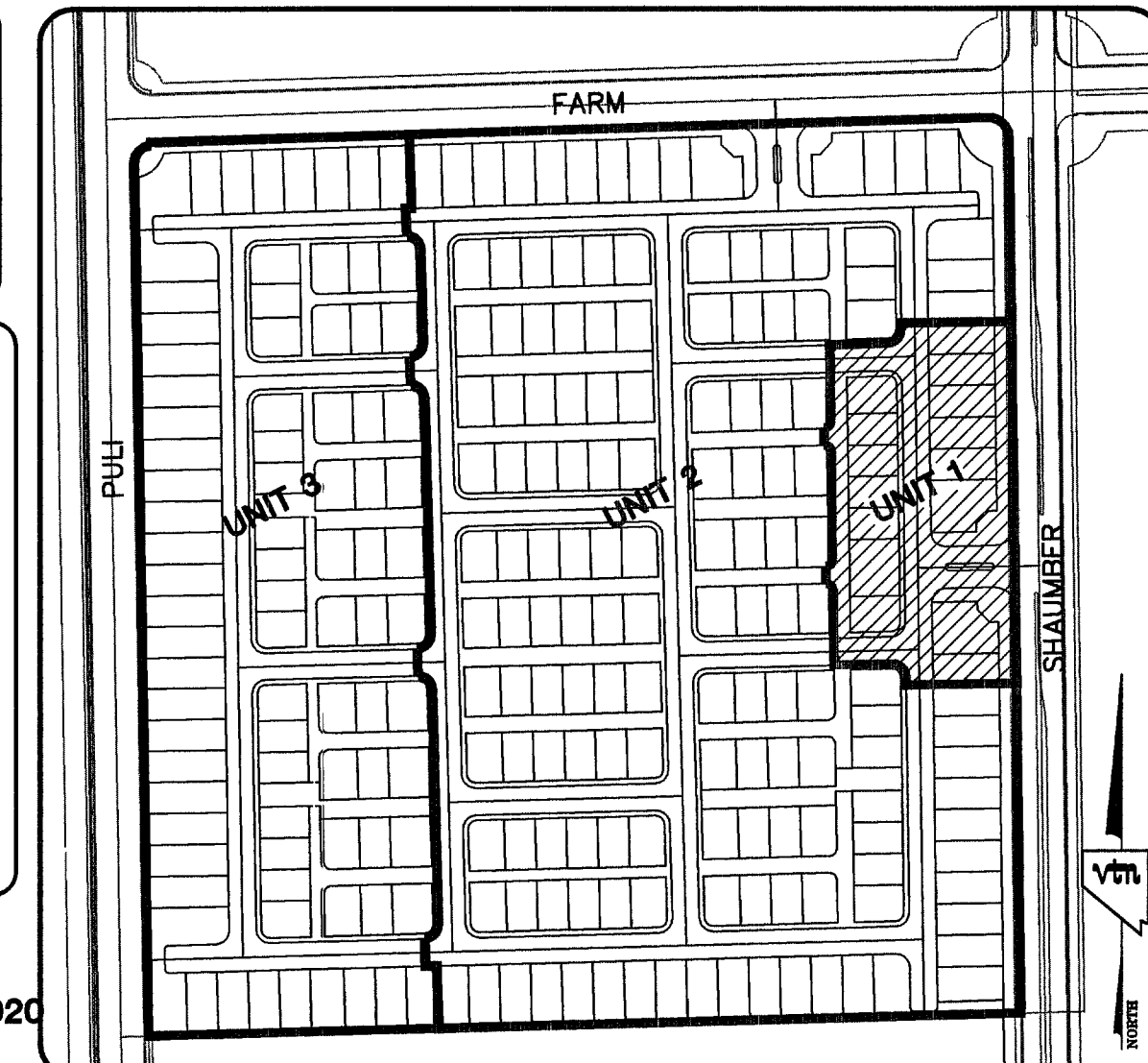
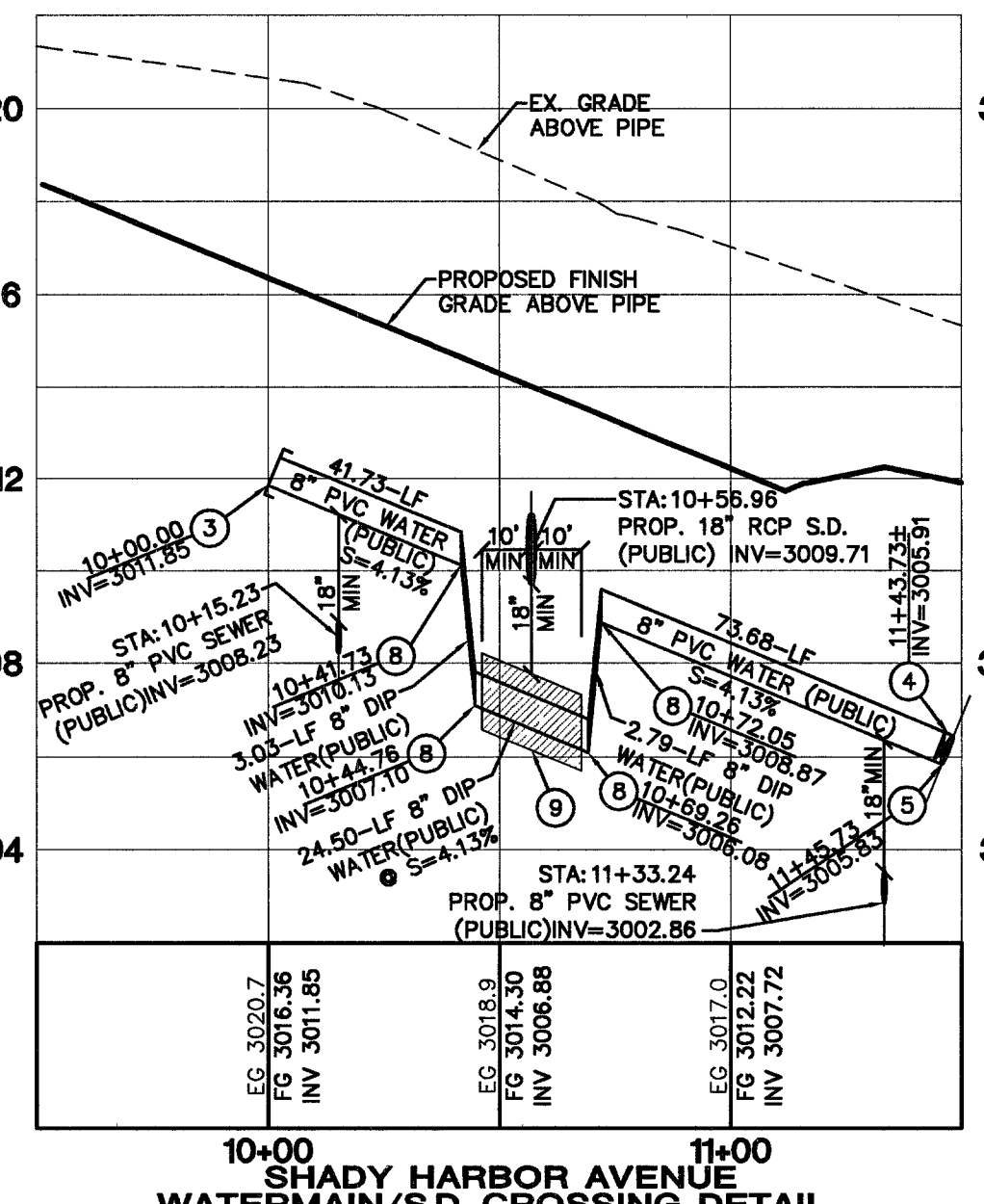
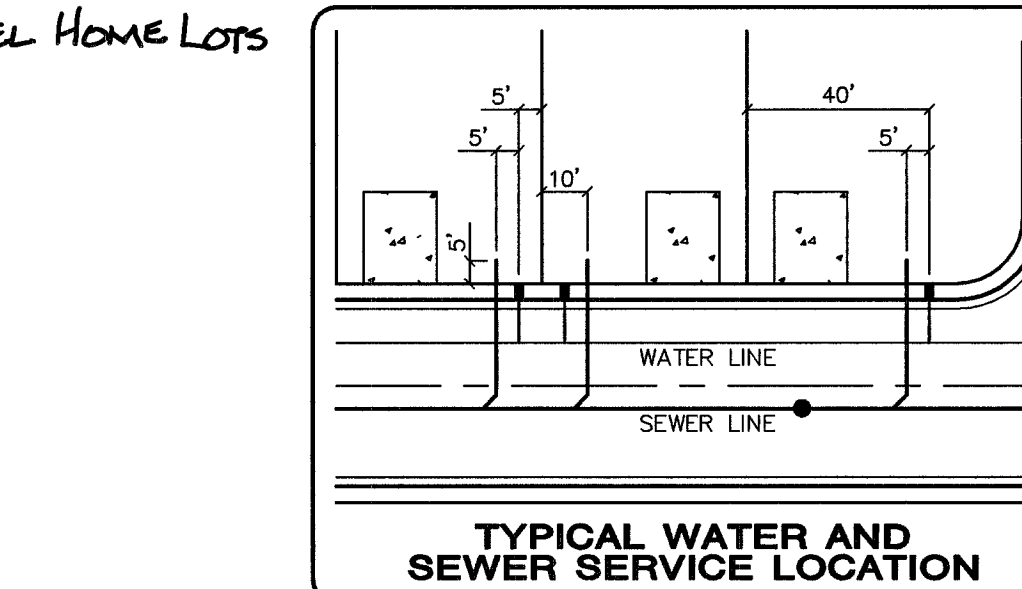




NOTE: ALL PRIVATE STREETS AND DRIVES ARE P.U.E. PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

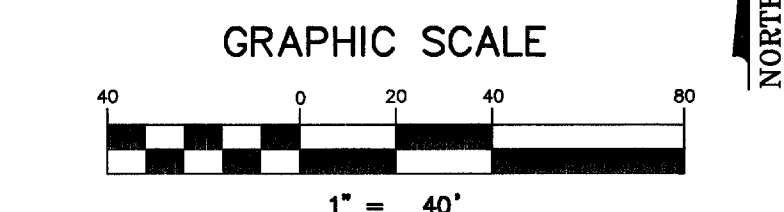
CONTINGENCY NOTE
THE SUBJECT SITE CAN NOT BE APPROVED UNTIL CORRECTION C-1107, 2975 ZONE RESERVATION NORTH AND 3090/3205 ZONE PUMPING STATION IS OPERATIONAL.

SANITATION SEWER NOTE
1. ALL SEWER STATIONING IS BASED ON CENTER OF PIPE LENGTHS FROM MANHOLE TO MANHOLE AND IS NOT RELATIVE IN ANY WAY TO STREET CENTERLINE STATIONING. STREET CENTERLINE STATIONING IS SHOWN ON PLAN FOR ROAD REFERENCE ONLY.
2. ALL MANHOLES ARE 48" SIZED MANHOLES PER STD DWG SD-1, UNLESS OTHERWISE NOTED ON PLAN.



BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 00°08'16" EAST BEING THE EAST LINE OF THE NORTHWEST QUARTER (NE 1/4) OF THE SECTION 24, TOWNSHIP 19 SOUTH, RANGE 59 EAST, N.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE IN FILE 123 AT PAGE 32.

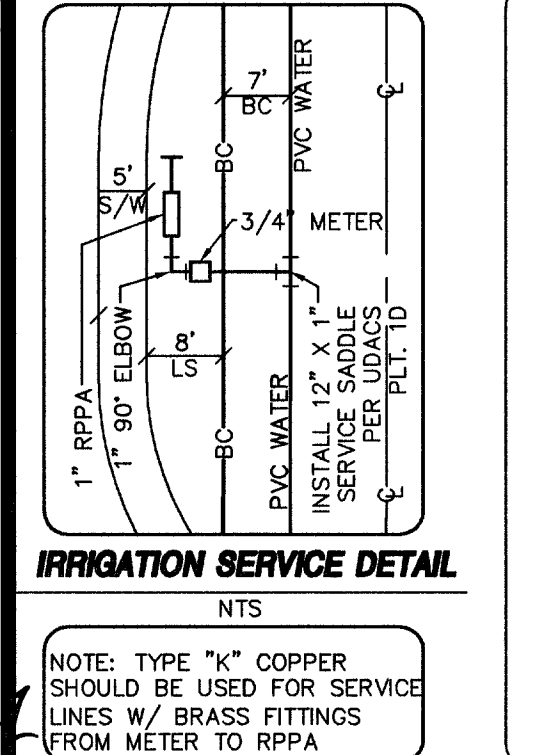
CITY OF LAS VEGAS BENCHMARK
PROJECT DATUM: THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: BLV89-135ES
NAVD88 ELEVATION: 869.606 METERS (2853.03 FEET)
RIVET AND PLATE IN CONCRETE CYLINDER NW CORNER OF HUALAPAI AND ELKHORN
NOTE: ADD 0.34' TO ABOVE CITY OF LAS VEGAS BENCHMARK BLV89-135ES TO MATCH ORIGINAL PROJECT BENCHMARK, CLARK COUNTY BENCHMARK 1000-626 (2584.62 FEET) AS SHOWN ON RECORD OF SURVEY FILE 124 PAGE 94.



ESTIMATE OF QUANTITIES LEGEND

WATER	PUBLIC
1. FIRE HYDRANT ASSEMBLY, INCLUDING: 8" x 6" TEE, 6" GV (PER UDACS PLATE No. 7)	1 EA.
2. REMOVE CAP AND BLOW OFF PER UDACS PLT 4A, UNIT 1 AND CONNECT TO EX. MAIN	3 EA.
3. CAP & 2" B.O. ASSEMBLY (PER UDACS PLATE No. 4A)	3 EA.
4. 8" GATE VALVE.....	3 EA.
5. 8" X 8" TEE.....	2 EA.
6. 8" DIP WATER MAIN(PUBLIC).....	0 EA.
7. (2) 4" IRRIGATION SLEEVES	390 LF.
8. 4" 45° VERTICAL ELBOW	4 EA.
9. ENCASE 8" DIP WATER (PUBLIC) PER UDACS. PLT. 15 AND 16	1 EA.
1" SERVICE W/ 3/4" METER (PER UDACS PLATE 1B)	14 EA.
3/4" METER W/ 1" RPPA (PER UDACS PLATE 10 & 11A)	1 EA.
8" PVC WATER MAIN(PUBLIC).....	759 LF.
8" DIP WATER MAIN(PUBLIC).....	31 LF.
SEWER	
STANDARD MANHOLE (PUBLIC).....	6 EA.
4" SEWER LATERAL(S)(PRIVATE).....	438 LF.
8" SEWER MAIN(PUBLIC).....	1275 LF.
BWV BACK WATER VALVE	1 EA.
SEWER CONTRIBUTION (BASED ON 14 LOTS)	
AVERAGE DAILY FLOW =	0.0035 MGD.
PEAK FLOW (PF=3.5)=	0.01225 MGD.
MISC.	
DRIVEWAY LOCATION (SCHEMATIC ONLY)	14 EA.
POC POINT OF CONNECTION	
100 WATT H.P.S. (PRIVATE) SEE STREETLIGHT DETAIL SHEET G13	4 EA.
200 AMP SERVICE POINT	1 EA.

Call before you Overhead
1-702-227-2929



NOTE: ALL LOTS
THIS PROPERTY MAY HAVE STATIC WATER 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. PRVS ARE THE DEVELOPERS RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: <3600 SQ. FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: SQ. FT.
BUILDING HEIGHT: 26 FEET
NUMBER OF STORIES: 2
TYPE OF CONSTRUCTION: Y-N
OCCUPANCY: SF-D
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: N/A
REVIEWED BY: [Signature]
DATE: 1/20/06

SEWER CONNECTION NOTE
A SEGMENT OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY HAVE BEEN DEEMED AVAILABLE FOR SERVICE.

CONTRACTOR NOTE
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

UTILITY CROSSING NOTE
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR PORTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES. ESN.064

NOTE
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS.



10-00 SHADY HARBOR AVENUE WATERMAIN/S.D. CROSSING DETAIL

KB HOME
750 PILOT RD. SUITE F
LAS VEGAS, NV 89119
(702) 814-2800

MANCHESTER PARK
POD #207
UNIT 1

MASTER UTILITY PLAN

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
PROJECT NO: 5530
SCALE: 1"=40' HORIZ. NA

PROFESSIONAL ENGINEER
KENNETH E. JOHNSON
10639 TOWN CENTER DRIVE
EXP. 12-31-07

SHEET
5 OF 20 SHEETS
DRAWING NO. 1074924-1

CITY OF LAS VEGAS
2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550 FAX (702) 362-2597

neveda
CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS