



- VALVE MANHOLE NOTES**

 1. CONCRETE SUPPORTS SHALL BE PROVIDED FOR EACH CLEANOUT ASSEMBLY, BEND, TEE, WYE, CROSS AND AIR RELEASE VALVE.
 2. MANHOLE OPENINGS FOR FORCE MAIN SHALL BE SEALED WITH A FLEXIBLE WATER TIGHT CONNECTION. CONNECTION SHALL BE MADE USING KOR-N-SEAL, LINK SEAL OR EQUAL.
 3. EACH CLEANOUT ASSEMBLY SHALL BE PROVIDED WITH A BRASS TAG PERMANENTLY ATTACHED TO EACH CAP INDICATING "WARNING - NON POTABLE WATER."
 4. VALVES, CLEANOUTS AND AIR RELEASE VALVES SHALL BE LOCATED IN MANHOLES ACCORDING TO THE DETAILS SHOWN ABOVE, AS REQUIRED FOR THE NUMBER OF LINES PASSING THRU THE MANHOLE.
 5. MANHOLES DESIGNATED AS AIR RELEASE VALVES, CLEANOUTS AND AIR RELEASE VALVES AS SHOWN ABOVE, MANHOLES DESIGNATED AS VALVE MANHOLES ON THE DRAWINGS SHALL INCLUDE VALVES AND CLEANOUTS AS SHOWN ABOVE.
 6. ALL FORCE MAIN SHALL HAVE 6.5' MIN. COVER.
 7. FOR PIPE SIZES LESS THAN 3" THE MANHOLES SHALL BE 4' IN DIAMETER. FOR 3" AND 4" DIAMETER THE MANHOLES SHALL BE 5' IN DIAMETER.
 8. CONCRETE PIPE SUPPORTS AND PIPE BLOCKING SHALL BE INCLUDED IN COST OF MANHOLES.

GRINDER PUMP NOTES

 1. CONTRACTOR SHALL FOUR CONCRETE ANCHOR AROUND ENTIRE UNIT TO ELIMINATE POTENTIAL FLOATING OF UNIT FROM HIGH GROUNDWATER LEVELS. DIMENSIONS OF CONCRETE ANCHOR SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 2. PLUMBING AND ELECTRICAL CONNECTIONS BETWEEN BUILDING AND GRINDER PUMP UNIT SHALL BE BY OTHERS. OPENINGS PROVIDED FOR THESE CONNECTIONS SHALL BE COVERED OR SEALED DURING INSTALLATION OF THE UNIT TO PROTECT THEM.
 3. EXACT LOCATION OF INDIVIDUAL GRINDER PUMPS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IN GENERAL UNITS SHALL BE NOT LESS THAN 25' FROM PRIVATE WELLS AND 15' FROM A HOUSE.
 4. ALL SERVICE LATERALS SHALL HAVE 6' MINIMUM COVER.
 5. CURB BOX COVERS SHALL BE UNMARKED.
 6. INLET IE'S SHOWN ON PLANS FOR EACH UNIT ARE MAXIMUM INLET ELEVATIONS. CONTRACTOR SHALL LOWER INLET IE AS REQUIRED TO MAINTAIN 6" GROUND SURFACE CLEARANCE WITH COVER.
 7. REDUNDANT CHECK VALVES SHALL BE LOCATED IMMEDIATELY ADJACENT TO CURB VALVES.
 8. CONTRACTOR SHALL BACKFILL GRINDER PUMP EXCAVATION BEHIND DISCHARGE PIPING WITH BEDDING STONE.
 9. CONTRACTOR SHALL INSTALL 2 GUARD POSTS AT GRINDER PUMPS INSTALLED WITHIN ROAD ROW.

Deck is ~ 10' deep at 3196 Aalseth

Lateral Inlets

MIN. DIM FOR INLET?



KEGONSA SANITARY DISTRICT
SANITARY SEWERS
PRESSURE SEWER DETAILS