

GROUND CONSTRUCTION
 ***PRIOR TO CONSTRUCTION ALL MATERIALS SHALL BE APPROVED BY THE DESIGNER.

THE FOLLOWING IS THE PROCEDURE FOR MOUND CONSTRUCTION. ANY VARIATIONS SHOULD BE DISCUSSED WITH THE DESIGNER BEFORE ANY MOUND CONSTRUCTION BEGINS. MOUND FAILURE MAY RESULT FROM IMPROPER CONSTRUCTION TECHNIQUES AND PROCEDURES. PROPER EQUIPMENT IS ESSENTIAL. SMALL TRACK, TYPE DOZERS OR EXCAVATORS WORK BEST. WHEEL TYPE TRACTORS MAY COMPACT THE SUBSOIL.

CONSTRUCTION ON WET SOIL CAUSES SOIL SMEARING AND COMPACTION AND POSSIBLE FUTURE FAILURE. MOUND CONSTRUCTION SHOULD ONLY BE DONE DRY WEATHER FROM JUNE - NOVEMBER. CONDITIONS PERMITTING AND DURING NO CONSTRUCTION DURING FREEZING TEMPERATURES.

1. PREPARE ENTIRE AREA TO BE COVERED BY MOUND FILL. CUT TREES TO GROUND LEVEL. NO TOP REMOVALS. REMOVE MOW VEGETATION AND LEAVES. SITE MUST BE DRY BEFORE FLOWING.
2. DIG TRENCH AND LAY DELIVERY PIPE IF IT IS TO BE BURIED BELOW GRADE UNDER THE MOUND. LEAVE PIPE END CAPPED AND EXCAVATE IT AFTER FLOWING.
3. FLOW ENTIRE AREA TO BE COVERED BY MOUND FILL. FLOW ALONG THE CONTOUR OF THE SLOPE WITH A MOUND BOARD PLOW TO A DEPTH OF 8" THROWING THE SOIL UP-SLOPE. PLACEMENT OF THE FILL ON PLOWED AREA IMMEDIATELY AFTER PLOWING IS REQUIRED. DO NOT LET FLOWED AREA BE TRAMPLED ON. KEEP ALL TRAFFIC OFF PLOWED AREA UNLESS SLOPE SIDE OF PLOWED AREA.
4. PLACE APPROVED SAND FILL AROUND THE UPHILL AND SIDE EDGES OF THE PLOWED AREA. KEEP WHEELS OF TRUCKS OFF PLOWED AREA. NO TRAFFIC DOWN-SLOPE SIDE OF PLOWED AREAS. WORK FROM ENDS AND UP-SLOPE SIDE ONLY.
5. MOVE THE SAND FILL INTO PLACE USING A SMALL TRACK-TYPE DOZER. ALWAYS KEEP AT LEAST 1" OF SAND BENEATH TRACKS TO PREVENT COMPACTION OF THE PLOWED AREA. PLACE SAND FILL TO THE REQUIRED DEPTH, WHICH IS THE SAME ELEVATION AS THE TOP ELEVATION OF THE STONE IN THE BED OF TRENCHES. MARK SIDES TO THE DESIRED SLOPE.
6. WITH DOZER BLADE OR BACKHOE, FORM THE TRENCHES IN THE SAND FILL TO A DEPTH OF 12". HAND LEVEL THE BOTTOM OF THE TRENCHES TO MAKE SURE THEY ARE ALL LEVEL AND AT EQUAL ELEVATION ALONG THE ENTIRE LENGTH. BAKE TRENCH BOTTOM AND SIDEWALLS PRIOR TO PLACEMENT OF STONE.
7. PLACE CLEAN WASHED, GRADED OR CRUSHED STONE (1/4" - 1 1/2") IN TRENCHES TO A DEPTH OF 12". FORM 4" DEEP CHANNELS IN THE STONE IN WHICH TO LAY THE PIPING NETWORK. DO NOT USE LIMESTONE.
8. LAY PIPE LEVEL IN CHANNELS AND CONNECT MANFOLD PIPE TO FORCE MAIN. DO NOT SOLVENT CEMENT. PLACE PERFORATIONS UPWARD FOR PRESSURE TESTING. PUMPING CHAMBER MUST BE FILLED WITH CLEAN WATER AND ALL ELECTRICAL CONNECTIONS MUST BE MADE. SYSTEM IS TO BE FLOW TESTED. WATER PRESSURE TEST TO SHOW THAT THERE IS NO FLOW THROUGH PERFORATIONS IN THE LATERALS ARE LESS THAN 15%.
9. TURN PIPE OVER AND PLACE ORIFICE SHIELD OVER THE HOLES. WELD ALL JOINT CONNECTIONS AND SOLVENT CEMENT PIPING SECURELY IN PLACE. PLACE ORIFICE SHIELDS OVER ALL OF THE HOLES.
10. PLACE 1" 2" STONE OVER LATERAL PIPES. PLACE 1 LAYER OF FILTER FABRIC OVER ALL OF THE STONE.
11. PLACE 9" OF SUBSOIL OR TOPSOIL (SOIL LESS PERMEABLE THAN SAND FILL) OVER ALL SAND. INCREASE DEPTH TO 15" OVER TOP CENTER OF MOUND. PLACE 1" OF GOOD QUALITY TOPSOIL OVER ENTIRE MOUND SURFACE. THIS SOIL MAY BE TAKEN FROM ELSEWHERE ON SITE, BUT NOT FROM WITHIN 50' DOWN-SLOPE OF MOUND OR FROM REPLACEMENT AREA.
12. SEED AND MULCH ENTIRE MOUND SURFACE IMMEDIATELY TO PREVENT EROSION.

INSPECTION

1. THE SYSTEM MUST BE INSPECTED BY HIGH KNOB DESIGN ASSOCIATES LLC TO ENSURE COMPLIANCE WITH THE DESIGN. HIGH KNOB DESIGN ASSOCIATES LLC ASSUMES NO RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM FAILURE TO FOLLOW THE PLANS AND SPECIFICATION AND FAILURE TO HAVE BEEN NOTIFIED BY THE CONTRACTOR FOR THE REQUIRED INSPECTIONS DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY HIGH KNOB DESIGN ASSOCIATES LLC A MINIMUM OF 72 HOURS IN ADVANCE FOR THE FOLLOWING INSPECTIONS:
 - A) THE PLOWED EXISTING GROUND PRIOR TO PLACEMENT OF SAND FILL
 - B) THE FORCE MAIN PRESSURE TEST
 - C) THE SEPTIC TANK AND PUMP STATION PRIOR TO BACKFILLING
 - D) THE PRESSURE DISTRIBUTION SYSTEM TEST
 - E) FINAL GRADING AND SEEDING

OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A QUALIFIED CONTRACTOR FOR THE LIFE OF THE SYSTEM.

INSTALLER MUST INSTALL FLOTATION ANCHORS
 ANCHORS TO BE INSTALLED IN BASEMENT AND CONNECTED TO A SEPARATE CIRCUIT BREAKER
 ALL WORK TO BE DONE IN ACCORDANCE WITH ALL ELECTRICAL AND SAFETY CODES
 REQUIRED BY STATE, LOCAL AND OTHER GOVERNMENT AGENCIES. WORK SHALL COMPLY WITH ALL REQUIREMENTS OF PUMP AND OTHER COMPONENTS MANUFACTURERS.
 PUMP MUST BE CAPABLE OF DELIVERING 26.24 GPM AGAINST A 35.1 FEET OF HEAD

CROMAGLASS MODEL CA-5

NTS

PUMPS
 P1 - AERATION
 P2 - DISCHARGE

FLOAT SETTINGS
 AL - 27" WD
 LW - 38" WD
 LW - 38" WD
 LW - 38" WD (PLC ONLY)
 LA - 45.5" (PLC ONLY)

INLET 4"

OUTLET 1.5"

SECTION VIEW



SCREEN BAFFLE A-A
NTS

CLARIFIER BAFFLE B-B
NTS

SCREEN BAFFLE