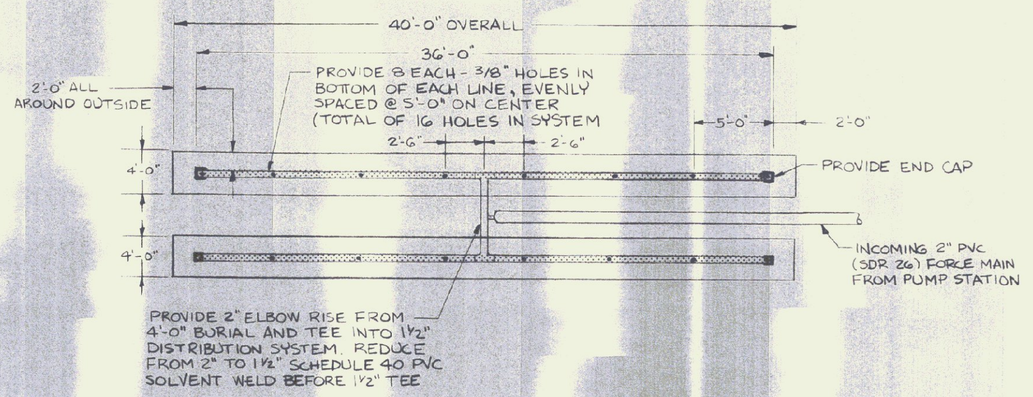
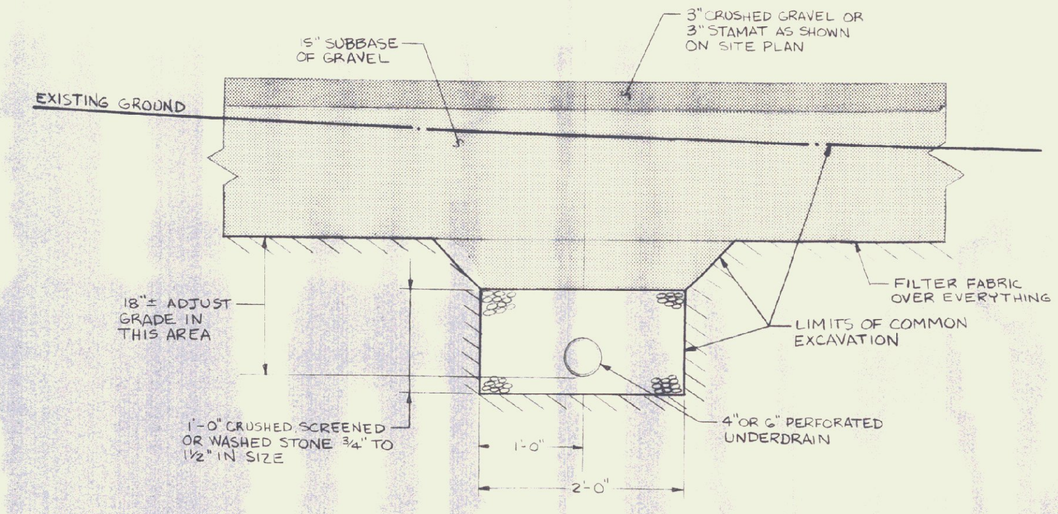


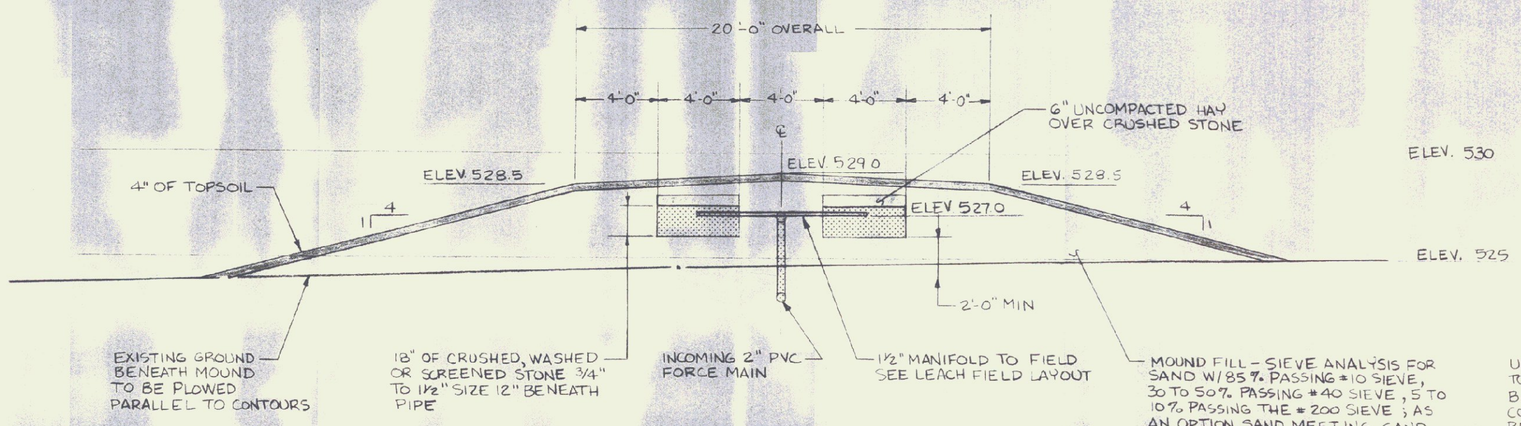
LEACH FIELD LAYOUT

NTS



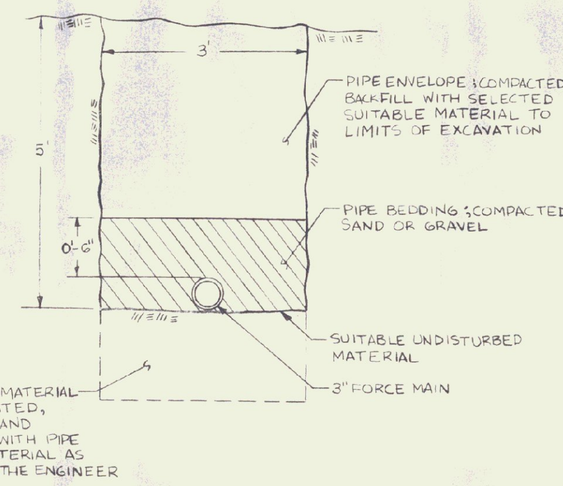
TYPICAL PARKING LOT SECTION

SCALE 1"=1'-0"



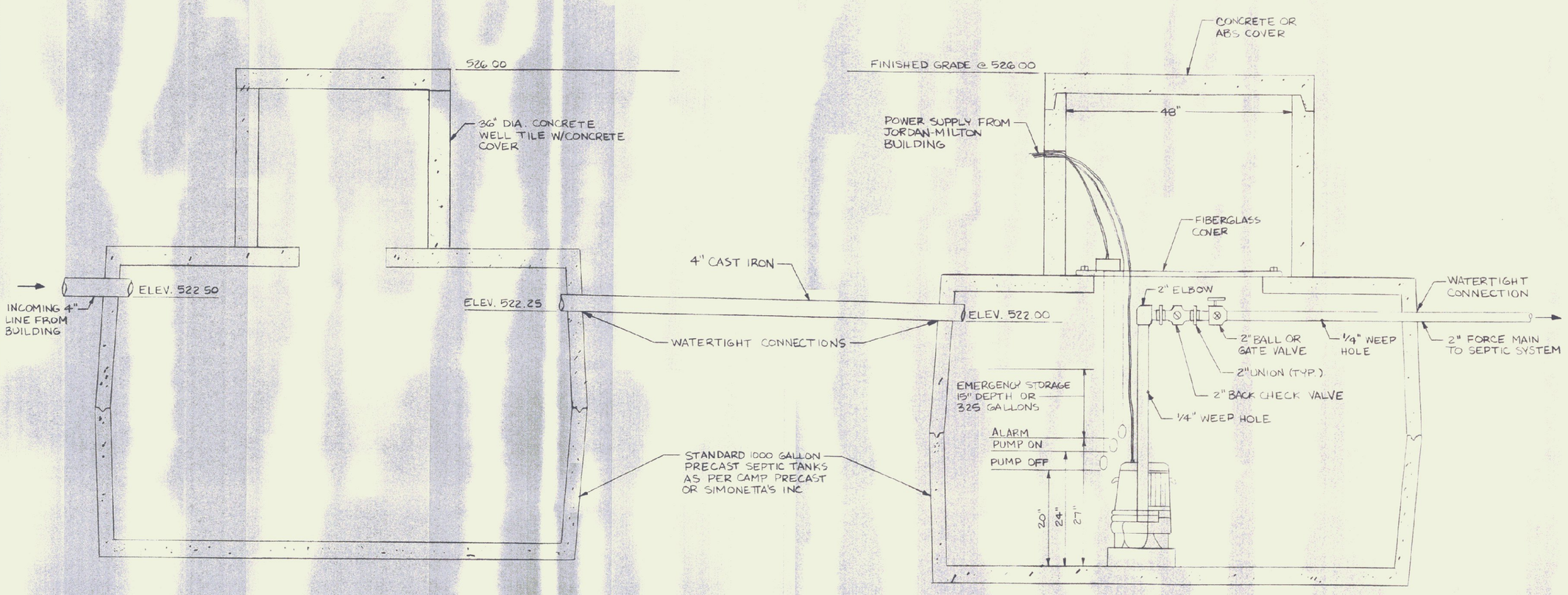
MOUND SECTION A-A

SCALE 1"=5'-0"



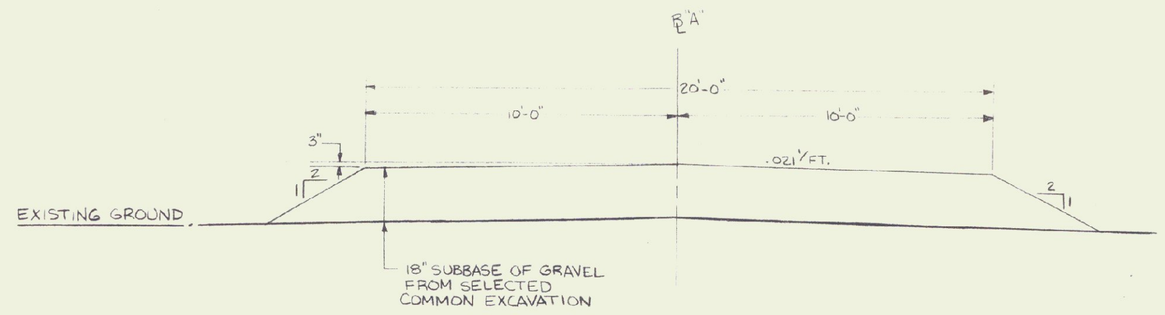
TYPICAL TRENCH DETAIL

NTS



PUMPING STATION SECTION B-B

SCALE 3/4"=1'-0"



20' HAUL ROAD TYPICAL

NTS

MATERIAL SPECIFICATIONS

1. THE 15" LAYER OF GRAVEL USED ON THIS PROJECT SHALL MEET THE VERMONT HIGHWAY DEPARTMENT SPECIFICATIONS FOR SUBBASE OF GRAVEL ITEM 301.15 EXCEPT THAT UP TO 12% OF THE SAND PORTION IS ALLOWED TO PASS THE 200 SIEVE. THE PLACEMENT OF GRAVEL SHALL BE AS DIRECTED IN SECTION 301.03 AND .04 EXCEPT THAT IT MAY BE PLACED IN ONE 15" LAYER TO PROTECT THE FILTER FABRIC AND COMPACTION BY A POWER ROLLER IS NOT NECESSARY UNLESS IT SPEEDS UP THE PROCESS.
2. THE TOP COURSE OF CRUSHED GRAVEL SHALL MEET THE SPECIFICATIONS OF ITEM 301.25. THIS LAYER SHALL BE FINE GRADED TO THE EXACT CONTOURS SHOWN ON THE SITE PLAN.
3. STAMAT AS MANUFACTURED BY COOLEY ASPHALT COMPANY SHALL BE USED ON THE EMPLOYEE PARKING LOT AND EQUIPMENT DISPLAY AREA AS SHOWN ON THE PLAN. THE 3" LAYER OF STAMAT SHALL BE COMPACTED WITH A 8-10 TON POWER ROLLER AND FINE GRADED WITH A GRADER.
4. THE LEACH FIELD STONE FOR THE MOUND SYSTEM AND THE UNDER DRAIN SHALL BE EITHER CRUSHED, SCREENED OR WASHED STONE WITH A SIZE RANGING FROM 3/4" to 1½".
5. THE UNDER DRAIN USED ON THIS PROJECT SHALL BE SDR PVC AS MANUFACTURED BY JOHNS-MANVILL, CARLON PVC PERFORATED HIGHWAY UNDER DRAIN, OR STANDARD GALVANIZED METAL UNDER DRAIN. THE UNDER DRAIN SHALL BE WRAPPED IN CRUSHED STONE AND FILTERED FABRIC AS SHOWN ON THE TYPICAL SECTION. THE CARRIER PIPES MUST ALSO MEET EITHER OF THE ABOVEMENTIONED SPECIFICATIONS WITH THE EXCEPTION THAT IT WOULD BE NON PERFORATED.
6. SAND USED TO CONSTRUCT THE MOUND SYSTEM OR FOR USE IN ANY UNDER CUT AREAS THAT MIGHT ARISE SHALL MEET THE SPECIFICATIONS OF SAND BORROW ITEM 203.31 OF THE VERMONT HIGHWAY DEPARTMENT SPECIFICATIONS. THE FILTER FABRIC USED ON THIS PROJECT SHALL BE EITHER DUPONT TYPAR STYLE 3401, OR MIRAFI 500X FABRIC. THE JOINTS OF THE FILTER FABRIC SHALL BE OVERLAPPED BY 6". THE FABRIC SHALL BE PLACED ON A SMOOTH SUBGRADE SURFACE.

PUMP STATION NOTES

1. THE SEPTIC TANK AND PUMP STATION SHALL BE STANDARD 1,000 GALLON REINFORCED CONCRETE SEPTIC TANKS AS CONSTRUCTED BY CAMP PRECAST, SIMONETTA, INC. OR APPROVED EQUAL. THE HOLES IN THE ROOF SHALL BE POURED WITH EACH TANK AND THE FABRICATOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN AND ANY EXTRA REINFORCING WHICH MAY BE NECESSARY. A FOUR FOOT DIAMETER MANHOLE IS TO BE USED AS THE VALVE PIT FOR THE PUMP STATION AND A 36" DIAMETER WELL TILE FOR THE ACCESS HATCH TO THE SEPTIC TANK. THE JOINTS AND HOLES IN THE SEPTIC TANK AND VALVE KIT SHALL BE MADE WATER PROOF AND NO WEEP HOLES ARE ALLOWED IN THE TANKS.
2. THE PUMP STATION SHALL USE A CONTINUOUS DUTY, FULLY SUBMERSIBLE, ENPO SPRINT 1 EFFLUENT PUMP WITH A 2" DISCHARGE CAPABLE OF HANDLING 1¼" SOLIDS. THE MOTOR IS ½ HP, 230 VOLT SINGLE PHASE WITH FULL OVERLOAD PROTECTION. AN OPTIONAL PUMP IS A MYERS WHR5, ½ HP (230 VOLT SINGLE PHASE) WASTE HANDLING PUMP WITH A 2" DISCHARGE. OTHER PUMPS WITH SIMILAR PUMPING CHARACTERISTICS MUST RECEIVE PRIOR ENGINEERING APPROVAL AND BE CAPABLE OF PRODUCING 60 GPM AT A TOTAL DESIGN HEAD OF 18 FEET.
3. ALL PIPING SHALL BE 2" GALVANIZED STEEL TYPE L COPPER, OR SCHEDULED 40 PVC WITH A FULL FLOW SWING CHECK VALVE AND BALL VALVE CONNECTED TO A COMMON DISCHARGE THROUGH THE VALVE PIT. IMMEDIATELY OUTSIDE THE PUMP STATION THE 2" DISCHARGE LINE SHALL BE SCHEDULE 40 PVC.
4. THE STATION DESIGN IS BASED ON A THREE WIRE, SINGLE PHASE, 60 HZ, 230 VOLT ELECTRICAL POWER SUPPLY. A WATER GUARD MODEL AL 1 ALARM SYSTEM CONSISTING OF A FLASHING RED LIGHT MOUNTED ON A 6" X 6" X 4" STEEL ENCLOSURE RATED NEMA 3R FOR OUTDOOR USE SHALL BE MOUNTED ON THE OUTSIDE OF THE OFFICE BUILDING AS SHOWN ON THE PLANS. THE UNITS SHALL BE COMPLETELY WIRED AND A TERMINAL STRIP PROVIDED FOR CONNECTION OF POWER SUPPLY AND LEVEL SWITCH. A MERCURY FLOAT SWITCH MODEL 474E WITH RELAY HAVING A CORD LENGTH OF 10' FOR OPERATION WITH 230/60/SINGLE PHASE SHALL BE USED.
5. ALL GRAVITY SEWER PIPES OUTSIDE THE BUILDING FOUNDATION SHALL BE SCHEDULE 40, NO HUB CAST IRON. IF IT BECOMES NECESSARY TO RELAY THE SEWER PIPE FROM THE OFFICE BUILDING TO THE SEPTIC TANK, IT SHALL BE ENCASED ON BOTH SIDES AND TOP WITH A 2" X 10" WOOD BOX AND 2" FORMULA "R" SOLID INSULATION SHALL BE PLACED INSIDE THE WOODEN BOX AROUND THE PIPE, AND OVER THE BOX BEFORE BACKFILLING.

STATE OF VERMONT
CHARLES J. GRENIER
NO. 3242
REGISTERED PROFESSIONAL ENGINEER
Charles J. Grenier

JORDAN-MILTON - STANDARD DETAILS
BERLIN, VERMONT MAY 1984

CHARLES GRENIER CONSULTING ENGINEER
BOX 445, WATERBURY, VERMONT
244-6413

DATE = 5-21-84
DRN BY = C.G.M.
SCALE = A.N.
SHT 3 OF 3