POST-CLOSURE MONITORING AND MAINTENANCE PLAN
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE

Prepared for

MAINE BUREAU OF GENERAL SERVICES
Augusta, Maine

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POST-CLOSURE MONITORING AND MAINTENANCE PLAN
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1.0 INTRODUCTION AND PURPOSE

This Post-Closure Monitoring and Maintenance Plan (PCMMP and/or Plan) was prepared for the Dolby Landfill Facility (Facility) in general accordance with Chapter 401, Section 6 of the Maine Department of Environmental Protection's (MEDEP) Solid Waste Management Rules. This Plan is intended for use by the Maine State Department of Administrative and Financial Services (DAFS) – Bureau of General Services (BGS), BGS' post-closure landfill operator (i.e., the landfill operator), and MEDEP for the post-closure care of the Facility. Given that the Dolby Landfill Facility is closed to waste placement and each of the landfills at the Facility has received final cover, this Plan also serves as the Facility's Operations Manual.

DAFS owns the Dolby Landfill Facility and BGS is responsible for the Facility's overall operation. The Facility is located approximately 2-1/2 miles northwest of East Millinocket, Maine on Route 157. The Facility consists of three landfills: Dolby I, Dolby II, and Dolby III. Each landfill contains non-hazardous solid wastes generated from pulp and papermaking activities, woodland operations, biomass burning, and general mill and municipal trash collection. A copy of the MEDEP Board Order approved Solid Waste License – Final Closure (#S-000796-WO-AO-N) for the Facility is provided in Appendix A.

The Dolby II and Dolby III Landfills are contiguous and have a combined area of approximately 130 acres. The Dolby I Landfill has an area of approximately 20 acres and is located approximately 0.25 miles south of Dolby II and III. Figure 1-1 shows the location of the Facility and the landfill areas relative to major local landmarks. In the summer of 2016, Phase 1 of the Dolby III cover upgrade was completed. Phase 2 of the cover upgrade was completed in 2022, Phase 3 was completed in 2023, and Phase 4 (the final phase) was completed in 2024. The cover upgrade includes placement of a geomembrane over the entire Dolby III Landfill surface. Final closure of the Dolby II Landfill occurred in 1999 by placement of a soil cover over the lateral extent of that waste mass. The Dolby I Landfill was closed more than 30 years ago with a soil cover and is not subject to the requirements of this Plan unless specifically stated.

The Facility is supported by a lined leachate storage pond, a leachate pump station, and a leachate transport pipeline. Leachate and groundwater discharge from the Dolby II and Dolby III Landfill areas are collected by a system of perforated pipes and connecting manholes located along the perimeter of Dolby II and Dolby III, and by a groundwater/leachate collection layer beneath a portion of the Dolby III waste mass. The collected groundwater and leachate flows to the leachate storage pond (henceforth, the leachate pond) and from there the leachate is pumped via the pump station and leachate transport pipeline to the Town of East Millinocket's wastewater treatment plant (WWTP) (approximately 3.25 miles

to the south). Figure 1-1 shows the general location of the leachate transport pipeline and the Town's WWTP. Appendix B includes engineering drawings for the leachate management infrastructure.

A network of groundwater monitoring wells and surface water monitoring points are in place at the Facility and are routinely sampled and analyzed for water quality. The water quality monitoring and follow-up reporting is performed in accordance with an existing Environmental Monitoring Plan for the Facility prepared in 2012 (i.e., the 2012 EMP). The EMP is on file with the MEDEP and BGS.

The purpose of this PCMMP is to provide the landfill owner and the landfill operator with written guidance for the monitoring and maintenance of the Dolby Landfill Facility during its post-closure life. The remainder of this Plan describes responsibilities related to: performing inspections and maintenance of the Facility; site safety and emergency procedures; leachate management; water quality monitoring; and general management of the Facility. All persons assisting with the post-closure activities for the Dolby Landfill Facility must be familiar with the contents of this Plan and the need to maintain and monitor the Facility's environmental performance during the post-closure period.

A copy of this PCMMP and other relevant plans for the Facility are on file with BGS and are available upon request. This Plan will be revised as necessary; all changes must be coordinated through BGS and no change can be implemented until approved by the MEDEP.

NOTES

1. BASE MAP FROM GOOGLE EARTH PHOTO DATED SEPTEMBER 16, 2022.
2. MANHOLE PIPE LOCATIONS FROM SQUAW BAY CORPORATION DRAWING DATED 4/25/95. LOCATIONS ARE APPROXIMATE.

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TOWN OF EAST MILLINOCKET WASTEWATER TREATMENT PLANT
LEACHATE UNLOADING PAD
FLOW METER BUILDING (MH-27)
MH#30
FORMER GNP MILL
ACCESS GATE
PRIVATE ROAD
LEACHATE TRANSPORT PIPELINE (TYP)
MANHOLE (TYP)
DOLBY II
DOLBY III
DOLBY I
CB #3
PARTRIDGE BROOK FLOWAGE
LEACHATE POND
GATE VALVE
PUMP STATION
ROUTE 11
ACCESS GATE
FLOW TRANSITION STRUCTURE

600 0 1200 FEET

FIGURE 1-1
DOLBY LANDFILL FACILITY LAYOUT
DOLBY LANDFILL
EAST MILLINOCKET, MAINE

SME
SEVEE & MAHER ENGINEERS

DWG: SITEOVERVIEW LMN: SITEOVER CTB: SME-STD REV: 4/29/2025

2.0 SITE ACCESS AND SECURITY

The Dolby Landfill Facility has two access ways for vehicles. The main access is a combination paved and gravel roadway connecting to Highway Route 157, approximately 0.3 miles away from the southwestern-most point of the Dolby III Landfill. A secondary, lesser-used, access road to the Facility exists near the southeastern-most point of the Dolby II Landfill. The secondary access road consists of a 0.4-mile-long gravel roadway that connects to a network of privately-owned woodland roadways. Both the main and secondary access roads are gated and locked. The main access road is plowed and sanded during the winter to provide vehicle access to the leachate pond and pump station.

The perimeter of the leachate pond is surrounded by a chain link fence and locking gate. The pump station control building (next to the leachate pond) has a locking steel door and the hatchway to the pump station's wet well is also lockable. A Conex Box was placed beside the pump station in 2022. The Conex Box is used to store various equipment for maintaining the leachate pond pump station and leachate transport line. The Conex Box replaced the office trailer that was permanently removed from the Landfill Facility in 2022. The Conex Box has a lockable door. The leachate pond, pump station, and Conex Box are within the overall limits of the gated/locked landfill Facility.

3.0 SITE SAFETY

All personnel working at the Dolby Landfill Facility will follow applicable state and federal safety and health rules and regulations. Should a medical and/or ambulance emergency occur at the Facility, first aid services are available in the nearby Town of East Millinocket and can be requested by dialing 911.

This PCMMP does not constitute a Health and Safety Plan for activities performed at the Dolby Landfill Facility. All persons performing maintenance and/or monitoring at the Facility will be responsible for having and maintaining their own health and safety plans and shall comply with all applicable state and federal safety and health rules and regulations.

3.1 Safety Equipment

Routine safety equipment at the site includes such items as first aid kits and fire extinguishers. Specialty equipment includes explosive gas meters, hydrogen sulfide (H2S) meters, and lockout–tagout equipment. All vehicles associated with construction work performed at the Facility will be equipped with a first aid kit and fire extinguisher; in addition, a first aid kit is available at the leachate pump station. Specialty breathing apparatus and air monitoring equipment will be used for entry into any confined space associated with the leachate management system. Confined space entry procedures and use of the associated specialty equipment will be limited to Occupational Safety and Health Administration (OSHA) trained personnel only.

On occasion, odors can be emitted from gas vents installed in the landfill cover system and/or from the landfill surface. When such odors are detected, personnel/equipment should be moved away from the odor and the landfill operator should be notified. The landfill operator will arrange for measurement of hydrogen sulfide, explosive gas, and other potentially odorous compounds in the air so that appropriate safety action can be taken.

Cell phones and/or two-way radios may be used by all personnel working at the Facility for timely communication of emergencies.

3.2 Fire Prevention

In the closed condition, the landfill surfaces are mostly open grassland. Because locked gates control vehicular traffic to the Facility and because public access is limited, risk of an accidental grass fire is low. Common practice is to keep vehicles off the landfill surface except for mowing and cover repair. Should a fire occur, firefighting services are available from the Town of East Millinocket by dialing 911.

3.3 Emergency Notifications

Any emergency condition occurring at the Dolby Landfill Facility will be reported on a same-day basis to the landfill operator. The landfill operator will in turn notify BGS and MEDEP within 48 hours.

4.0 LANDFILL FACILITY INSPECTIONS

Post-closure inspection of the Dolby Landfill Facility will consist of the following:

Semi-annual General Inspection of the Facility will be performed by a qualified engineer knowledgeable of the Facility's leachate management infrastructure, mechanical/electrical elements, cover construction, and water quality monitoring network. The semi-annual visits will be coordinated with BGS and MEDEP such that group participation in the visits can occur if desired. The general inspections will consist mainly of visual observations and will typically be completed in the early summer and late fall. Specific items observed and evaluated as part of each general inspection include:

- Erosion and erosion control systems on and around the landfills;
- Condition of the vegetative cover;
- Condition of the drainage systems, ditches, sedimentation ponds, and other stormwater controls;
- Access roads and gates;
- Leachate storage pond, pump station, and leachate transport system;
- Visible sections of the leachate transport pipeline and manholes; and
- Safety equipment and signage.

Each general inspection will also include completion of an observation report describing the condition of items listed above. A sample observation report is included in Appendix C. Each completed observation report will be forwarded to BGS for review and subsequent submittal to MEDEP and will become part of an annual report for the Facility (see Section 1.0 for annual reporting).

Every three years, one general inspection will also include an observation report describing the condition of the accessible leachate manholes/catch basins positioned along the perimeter of the Dolby II and Dolby III manholes.

Topographic Aerial Surveys of the landfill surfaces will be performed once per five years to help detect areas of total and differential settlement that could suggest potential areas of future runoff ponding and/or slope movement. The surveys will be coordinated with mowing of the landfill surfaces to afford best practical photo resolution. Each aerial survey will include a report describing the changes observed from the aerial survey and any related comments or recommendations pertaining to the landfill's geotechnical performance. The report will be forwarded to BGS for review and subsequent submittal to MEDEP and will be included in the annual report.

For years 2025, 2026, and 2027 the semi-annual general site inspections will be increased to three times per year so as to visually monitor the vegetative cover growth and drainage following completion of the Dolby III cover upgrade.

Weekly visual inspections of the Dolby II and Dolby III Landfills and the Leachate Pond will be completed by a field engineer knowledgeable of the facilities systems. The weekly visits will include collecting leachate flow data from site recorders, confirming the leachate pond pumps and underdrain pump are functioning, and visually inspecting the ground surface along the length of the leachate transport pipeline. In the spring of the year, the weekly visits will be increased to four to five times per week until it is concluded that the leachate flow can be managed by the leachate pond and pump station without the threat of pond overtopping or the need for hauling leachate by tank-truck. A report for each weekly inspection will be prepared and will become part of the annual report. A weekly report form is provided in Appendix C.

Once per year (typically early summer), each manhole along the leachate transport pipeline will be opened and visually inspected. In the event ground or surface water has entered the manhole(s), the water will be removed so visual inspection of the pipe connections and air-release valves can be performed. The results of the manhole inspections will be included in the annual report for the Facility. No entry into the manholes will be permitted; the visual inspections will be conducted from the ground surface only.

5.0 STORMWATER INSPECTIONS AND MONITORING

Formal stormwater inspections and stormwater monitoring is no longer performed at the Dolby Landfill Facility. In 2019, MEDEP issued a Notice of Termination to BGS indicating the then in-place Multi-Sector General Permit for the Dolby Landfill was no longer needed (MEDEP to BGS letter dated September 20, 2019). Informal stormwater inspections are conducted as part of the weekly landfill visits.

6.0 LEACHATE MANAGEMENT

The Dolby Landfill Facility includes buried piping that collects leachate and groundwater from the perimeter of the Dolby II and Dolby III Landfills, as well as piping that collects leachate and groundwater from a portion of the Dolby III base area. Leachate (including groundwater) collected by the piping system flows to the on-site, lined, leachate storage pond. Leachate is pumped from the leachate pond through a transport pipeline to the Town of East Millinocket's WWTP. The leachate pumping is measured on an ongoing basis. The leachate quality is monitored twice per year as described in Section 7.0 of this Plan.

6.1 Leachate Pond, Pump Station, and Transport Pipeline

The leachate pond was constructed in 2007 and includes primary and secondary High-Density Polyethylene (HDPE) liners with a geocomposite leak detection layer between them. A geosynthetic clay liner (GCL) underlies the secondary HDPE liner and is in turn underlain by a 12-inch-thick compacted clay liner. Leachate flows into the leachate pond through a 24-inch HDPE inlet pipe and leachate flows out of the pond (to the pump station wet well) through a 12-inch HDPE outlet pipe. Engineering drawings for the leachate pond and associated infrastructure are provided in Appendix B. There is an underdrain system for control of potential groundwater uplift pressures below the compacted clay liner. Groundwater collected in the underdrain is pumped into the leachate pond and is treated as leachate. The underdrain pump is float controlled and operates frequently each day.

The following tables present the leachate pond's volume as related to various water depths and features of the pond. The maximum capacity of the leachate pond can be achieved by damming the pond's emergency spillway with sandbags.

TABLE 6-1

LEACHATE POND VOLUME

Leachate Depth Relative to Pond Bottom (ft)	Leachate Surface Elevation (ft)	Approximate Leachate Volume in Pond (gallons)
1	345.0	198,000
2	346.0	619,000
3	347.0	1,081,000
4	348.0	1,578,000
5	349.0	2,109,000
5.5	349.5	2,389,000
6.5	350.5 (Emergency Spillway Invert)	2,978,000
7.5	351.5 (Top of Pond Liner)	3,616,000

TABLE 6-2

LEACHATE POND FEATURE AND CORRESPONDING LEACHATE POND VOLUME

Pond Feature	Approximate Leachate Volume in Pond (gallons)	Volume Remaining Relative to Emergency Spillway Invert (gallons)
Bottom of 24-inch pond inlet pipe	178,000	2,800,000
24-inch pond inlet pipe flowing half full	576,000	2,403,000
Top of 24-inch pond inlet pipe	1,034,000	1,944,000
Painted (white) line 2 feet below emergency spillway invert	1,838,000	1,140,000
Emergency spillway invert	2,978,000	0

During non-freezing weather, the leachate pond level is maintained as low as practical to maximize the holding capacity of the pond in the event of an extreme precipitation event. It should be noted that the leachate pond was sized to store leachate generated by the Facility when it was actively operating. At that time, runoff from the open waste areas flowed directly to the leachate pond. Leachate generation by the closed Facility has been measured to be significantly less than that when the Facility was open.

A two-foot freeboard line, as measured from the invert of the emergency spillway, is painted (white color) on the leachate pond's primary liner and the leachate level in the pond should not go above the white line during normal operation. In the event the freeboard line becomes submerged, the landfill operator will contact BGS, who will in turn contact MEDEP. BGS and MEDEP will then decide if leachate trucking to the Town of East Millinocket's WWTP is needed to avoid potential leachate pond overtopping.

During freezing weather, the leachate level in the leachate pond should be maintained approximately 6 inches above the top of the 24-inch-diameter inlet pipe (from Dolby III) to help protect the pond's inlet and outlet pipes from ice damage.

6.2 Leachate Pump Station and Transport Pipeline

A leachate pump station and wet well are positioned adjacent to the leachate pond. Two pumps in the wet well convey leachate through approximately 6,500 linear feet of 8-inch-diameter HDPE force main to a transition structure (i.e., high-point structure). From the transition structure, the leachate flows through approximately 13,300 linear feet of 10-inch-diameter HDPE gravity main (including an inverted siphon) to the Town of East Millinocket's WWTP.

The leachate pump station includes a flow meter and mechanical chart recorder (circular paper) to document the volume of leachate pumped and the level of leachate in the wet well. Figure 1-1 shows the location of the leachate pump station and transport pipeline. Twenty-seven manholes are positioned along the leachate transport pipeline. The manholes provide access to the pipeline for cleaning. Five of

the manholes include air release valves for the pipeline which automatically expel air (in the pipeline) when leachate is flowing.

The pump station is equipped with two 600-gallon per minute (gpm) submersible pumps that operate in parallel. Pump #1 is activated/deactivated by floats that sense the leachate pond level; the other pump (Pump #2) serves as a standby pump that is manually operated when high leachate pond inflows are occurring. The leachate pumps are equipped with running time meters and pump discharge pressure meters. The running time and discharge pressure are also recorded by the pump station's chart recorder and are used to estimate the leachate volume pumped. In the event the measured and calculated leachate flow rates vary by more than 20 percent, the landfill operator will investigate the cause of the volume discrepancy, which, among other things, could be a sign of leakage from the leachate transport pipeline. The leachate pumps are known as Pump #1 and Pump #2; Pump #1 was rebuilt in 2022 and Pump #2 was rebuilt in 2013. Pump #1 had a motor seal replaced in 2024.

A leachate flow meter is also located in the gravity main, approximately 600 feet upstream of East Millinocket's WWTP. This flow meter also uses a circular chart recorder. The circular paper charts at both recorder locations are typically changed by the landfill operator at 3- to 4-day intervals. Data from the completed charts are reduced and tabulated as flows, which are included in the annual report. A digital camera also photographs the leachate flow meter data once per hour and the photos are uploaded at the beginning of each month for comparison to the chart recorder flow data

The flow meter near the East Millinocket WWTP is positioned in an insulated wooden shed located approximately 400 feet from East Millinocket's WWTP. The shed is heated during cold weather and needs to be checked routinely for freezing interior temperatures. The shed has a lower level that requires confined space entry, if accessed. The digital camera, which is used to monitor the flow meter, also monitors the shed's interior temperature.

A leachate dumping pad is located adjacent to the south and west sides of the shed. The leachate dumping pad is connected by a gravity pipeline to the leachate transport line. The leachate dumping pad is used to empty tank-trucks when leachate hauling from the Dolby Facility is necessary.

6.3 Leachate Pond Leak Detection Monitoring

A geocomposite leak detection layer exists between the primary and secondary leachate pond liners. A stone-filled collection sump is positioned at the south (i.e., low) end of the leak detection layer. All liquid collected in the leak detection layer drains to the sump. A 6-inch pipe connects the sump to the pump station. The 6-inch pipe contains a small submersible pump that is activated by an electronic water level sensor in the sump. Flow from the submersible pump (i.e., flow from the leak detection layer sump) is recorded before being discharged to the wet well. The flow rate from the leak detection pump, flow total,

sump water level, and pump running time are stored by a programmable control panel housed in the pump station. The stone thickness in the leak detection sump is 12 inches. The leak detection pump activates when the water level in the sump is at 10 inches. The pump turns off when the sump water level reaches zero.

The leak detection sump level and pump activity are reviewed and recorded each time the pump station chart recorder is changed. Should the leak detection pump activate, BGS will be notified. The landfill operator will record flow measurements from the leak detection layer and determine if the Action Leakage Rate (ALR) (i.e., 20 gallons per acre per day [gpad]), for the leachate pond has been exceeded. Small-diameter tubing is also connected to the leak detection sump to allow sampling and analysis of the leak detection water, if desired.

In the event the leakage into the leak detection layer exceeds the ALR, BGS will notify MEDEP. As soon as weather conditions allow, the landfill operator will drain the leachate pond and visually inspect the surface of the primary liner and repair any damaged areas that could have contributed to the leak.

The ALR represents the rate of leakage into the leak detection layer that will trigger interaction between BGS and the MEDEP to determine the appropriate response action. An Action Leakage Rate/Response Action Plan for the leachate pond is provided in Appendix D to this Plan. In the event an ALR response action occurs, a follow-up report will be prepared for submission to the MEDEP; the report will summarize the results of the response action and will include recommendations relative to future leak detection monitoring.

In 2021, the ALR for the leachate pond was exceeded. As follow-up to the exceedance, the leachate pond primary liner was cleaned and inspected in 2023, the pipe penetrations into and out of the leachate pond were inspected, re-caulked, and re-banded. Subsequent leak detection monitoring indicated the ALR continued to be exceeded and MEDEP was alerted to that condition. The ALR exceedance has continued since 2021 and MEDEP is aware of the condition.

As of 2012, water collected in the leachate pond underdrain system was (and continues to be) pumped to the leachate pond pump station for subsequent treatment as leachate. In 2021, water quality monitoring of the underdrain system was initiated using the underdrain manhole as the sampling point. Water quality monitoring of the underdrain has shown presence of several constituents common to leachate.

6.4 Leachate Pond Underdrain Monitoring

The leachate pond liner system is underlain by an underdrain layer that discharges to a manhole located west of the leachate pond's perimeter. A float actuator pump is positioned in the manhole and pumps the underdrain water to the leachate pond's pump station as needed to maintain low water levels in the

underdrain layer. The underdrain is important to limit occurrence of water pressures below the liner system and collect any potential leakage through the leachate pond's liner system. The underdrain should be operational at all times. Typically, a replacement underdrain pump is stored in the Conex Box beside the leachate pond pump station. It is imperative the underdrain pump be operational when leachate levels in the pond are purposely lowered (e.g., for non-freezing weather and for leachate pond cleaning).

6.5 Leachate Pond Level Increase Above Two-foot Freeboard Line

The following procedures will be taken to control the leachate level in the leachate pond if the two-foot freeboard line (i.e., the white line) is exceeded. It should be noted that the procedures herein are an adaptation of similar procedures set forth in the 2012 Operating Manual for the Dolby III Landfill, which is on file with BGS). These procedures consider that during the post-closure period, it is very unlikely that a weather event will occur to cause the two-foot freeboard line to be exceeded. The leachate pond was originally sized to contain runoff from multiple acres of active waste area, which is not the case since both the Dolby II and Dolby III Landfills are final covered.

- In preparation for forecasted heavy rain or snowmelt, the landfill operator will clear all debris from the leachate pond's outlet pipe rack/screen and operate the leachate pumps manually until the pond is dropped to an acceptable level. Care will be taken to avoid running the leachate pumps dry and risking possible pump damage.
- The landfill operator will contract a tank-truck operator to mobilize sufficient tank-trucks and pumps to remove excess leachate from the leachate pond and haul the leachate to the Town of East Millinocket's WWTP. As of 2017, Thornton Construction of Milford, Maine is on call for leachate hauling. Thornton Construction can be reached via cell at 207.827.0352. Standard practice is to contact Thornton Construction (or similar) annually before the spring thaw and confirm that leachate hauling assistance is available. The Town of East Millinocket's WWTP operator is also contacted before the spring runoff to verify the procedures necessary for unloading the leachate tank-trucks. The contact phone number for the WWTP is 207.447.1452.
- If potential exceedance of the two-foot freeboard line becomes apparent, the landfill operator will monitor the leachate pond level at least four times per day to determine if leachate hauling is necessary. As part of the monitoring, sandbags can be placed in the emergency spillway to block potential overflows. Closing the emergency spillway with sandbags should be a last resort to prevent the leachate pond from overtopping and should not be used to avoid leachate hauling.
- As soon as the leachate level reaches the painted freeboard line (located two feet below the invert of the emergency spillway), the landfill operator will contact BGS to request initiation of leachate hauling. BGS and the landfill operator will collectively decide if mobilization of leachate hauling equipment is necessary. Once initiated, the leachate hauling will continue as long as necessary to

reach the end of the runoff event and will not be terminated until the leachate level in the pond is at least 6 inches below the invert of the emergency spillway and falling.

- If the leachate pond level increase cannot be controlled by pumping and hauling, measures will be implemented to also pump leachate into the #3 sediment pond. For this action to occur, the outlet for the #3 sediment pond will first be blocked in order to retain as much leachate as possible in the #3 sediment pond before overtopping occurs. Once the leachate level in the leachate pond is at least 6 inches below the invert of the emergency spillway, and falling, the water in the #3 sediment pond will be pumped back to the leachate pond. BGS and MEDEP will identify any mitigation necessary for the #3 sediment pond once all leachate has been removed from it.

6.6 Leachate Pond Overflow

In the event of a leachate pond overflow and/or when an overflow of the #3 sediment pond occurs (if that pond is being used to temporarily hold leachate), the following measures can be taken to hasten the stoppage of overflow.

- Increase the number of hauling vehicles and the haul frequency

  The leachate pumping via the transport pipeline and leachate hauling can be performed on an around-the-clock schedule, if necessary. Additional tank-trucks for hauling leachate may need to be mobilized. The expanded hauling schedule will be initiated prior to any leachate pond overflow or #3 sediment pond overtopping.

- Visual inspections and specific conductivity monitoring

  All areas overtopped by leachate (i.e., the emergency spillway and #3 sediment pond) will be routinely inspected during and after the overtopping to identify areas of potentially immediate erosion threats and/or structural deficiencies. If an immediate threat is noted, corrective measures will be taken. If leachate is released to the environment, frequent specific conductivity measurements of the outflow will be recorded to assist with evaluation of any potential impact.

- Shut-off the inflow to the leachate pond via the gate valve located between the leachate pond and catch basin CB #3.

  This measure will provide some temporary storage of leachate within the landfill's leachate collection piping but will cause a potential risk to slope stability of the Dolby III Landfill's cover system, especially along the Landfill's western toe. This measure should be the last to be implemented and avoided if possible.

6.7 Pump Station Failure

In the event of a pump station failure, leachate can be stored in the leachate pond. If the pump station failure will be for an extended period of time or, if the pond level exceeds the two-foot freeboard line, portable pumps and leachate hauling trucks can be mobilized to maintain the leachate pond level below the two-foot freeboard line.

6.8 Leachate Pond Cleaning and Pump Station Maintenance

Sediment collected in the leachate pond will be periodically removed and the pond liner will be visually inspected. The final phase of the Dolby III cover upgrade was completed in the fall of 2024. In the future, it is expected that sediment accumulation in the leachate pond will become minimal, thereby reducing the need for frequent cleaning and sediment removal. When leachate pond cleaning is necessary, the activities will include washdown of the leachate pond's primary liner and visual inspection of the primary liner's surface for possible points of leakage. Care will be taken during the leachate pond cleaning to avoid causing any damage to the liner. The leachate pond liner inspection will also include the inlet and outlet pipe penetrations. For purposes of scheduling and minimizing damage to the leachate pond liner, the leachate pond will be cleaned at 5-year intervals. The leachate pond was last cleaned in 2023. It should be noted that leachate pond cleaning results in several truck-loads of sediment that needs disposal. Historically the sediments were disposed in the Dolby III Landfill, which is no longer available due to final covering. The resulting sediments will be disposed off-site at a licensed landfill facility.

The leachate pump station wet well will be cleaned and inspected at the same time as the leachate pond. A report of the leachate pond and wet well cleaning, with photographs and recommendations, will be prepared and submitted to BGS as part of the annual report for the Facility.

Periods of low leachate generation, times following leachate pond cleaning and pipeline cleaning events often provide good opportunities to perform pump station maintenance. At those times, the leachate pumps and their associated control equipment can be inspected for wear and necessary parts replaced. As of April 2025, the leachate pumps consist of Flygt Model CP-3170-MT submersible pumps. The #2 pump was rebuilt in 2013 and Pump #1 was rebuilt in 2022. A seal in the #1 pump was replaced in 2024. The #1 pump is located closest to the pump station control house. Each pump has an output of approximately 600 gallons per minute (gpm) and when operated in tandem the pumps have a combined output of approximately 700 gpm.

The leachate pond underdrain is equipped with a 230-volt, 1/2 horse-power submersible pump. A replacement pump is located in the Conex Box beside the leachate pond pump station.

CAUTION: Anyone working in the pump station wet well or the underdrain wet well shall follow confined space entry procedures.

6.9 Leachate Transport Pipeline Cleaning

The leachate transport pipeline from the leachate pond to the East Millinocket WWTP will be cleaned when the combined pumping flow rate in the pipeline drops below 450 gpm. A report of the pipeline cleaning will be prepared and submitted to BGS. Engineering drawings for the leachate transport pipeline are presented in Appendix B. Water and sediment from the pipeline cleaning are delivered by vac-truck to the leachate dumping pad beside the flow meter shed near the East Millinocket WWTP. Historically the leachate pipeline has been fully or partially cleaned on an annual basis. As of April 2025, the leachate pond pumps are each pumping in excess of 575 gpm indicating pipeline cleaning can be delayed until at least 2026.

Often times, cleaning of the low-spots only along the leachate transport pipeline is adequate to restore the leachate pump flows. Appendix B includes the locations of low spots (i.e., where sediment collects) along the length of the pipeline. For planning purposes, full cleaning of the pipeline will be done at five year intervals. The last full pipeline cleaning occurred in 2023 and the last low-spot pipeline cleaning occurred in 2024.

Each time the leachate pipeline is cleaned the force main connecting the leachate pond underdrain pump to the leachate pond pump station wet well will also be cleaned.

7.0 ENVIRONMENTAL MONITORING

Environmental monitoring for the Dolby Landfill Facility during the post-closure period will consist of sampling and analysis of groundwater, surface water, leachate, and landfill gas at a number of existing monitoring points. The environmental monitoring is used to evaluate performance of the Facility relative to potential threats to public health and safety as well as threats to the environment. The Environmental Monitoring Plan (i.e., the 2012 EMP) for the Dolby Landfill Facility was revised in March 2024 and is on file at MEDEP and BGS. Any changes to the EMP will be approved by MEDEP before implementation.

7.1 Groundwater, Surface Water, and Leachate Monitoring

Twenty-one groundwater monitoring locations, six surface water locations, three leachate monitoring locations, and the leachate pond underdrain for the Dolby Facility are sampled and analyzed twice per year. The monitoring points are listed by identification code in Table 7-1 and their site locations are shown on Figure 7-1. The EMP describes the methods, materials, chemical parameters, analyses, and reporting associated with the sampling and analysis of the monitoring points. The underdrain sampling point (i.e., UDLP) was added in 2021 and follows the same monitoring schedule and parameter list as the monitoring wells.

TABLE 7-1

WATER QUALITY MONITORING LOCATIONS

GROUNDWATER MONITORING WELLS

DOLBY III

MW-107A	MW-304A	MW-402A
MW-301	MW-304B	MW-402B
MW-302B	MW-401A	
MW-302C	MW-401B	

DOLBY II

MW-104B	MW-205B	MW-303B
MW-202AR	MW-206A	
MW-202B	MW-206B	
MW-205A	MW-303A	

DOLBY I

MW-103	MW-113

SURFACE WATER SAMPLING LOCATIONS

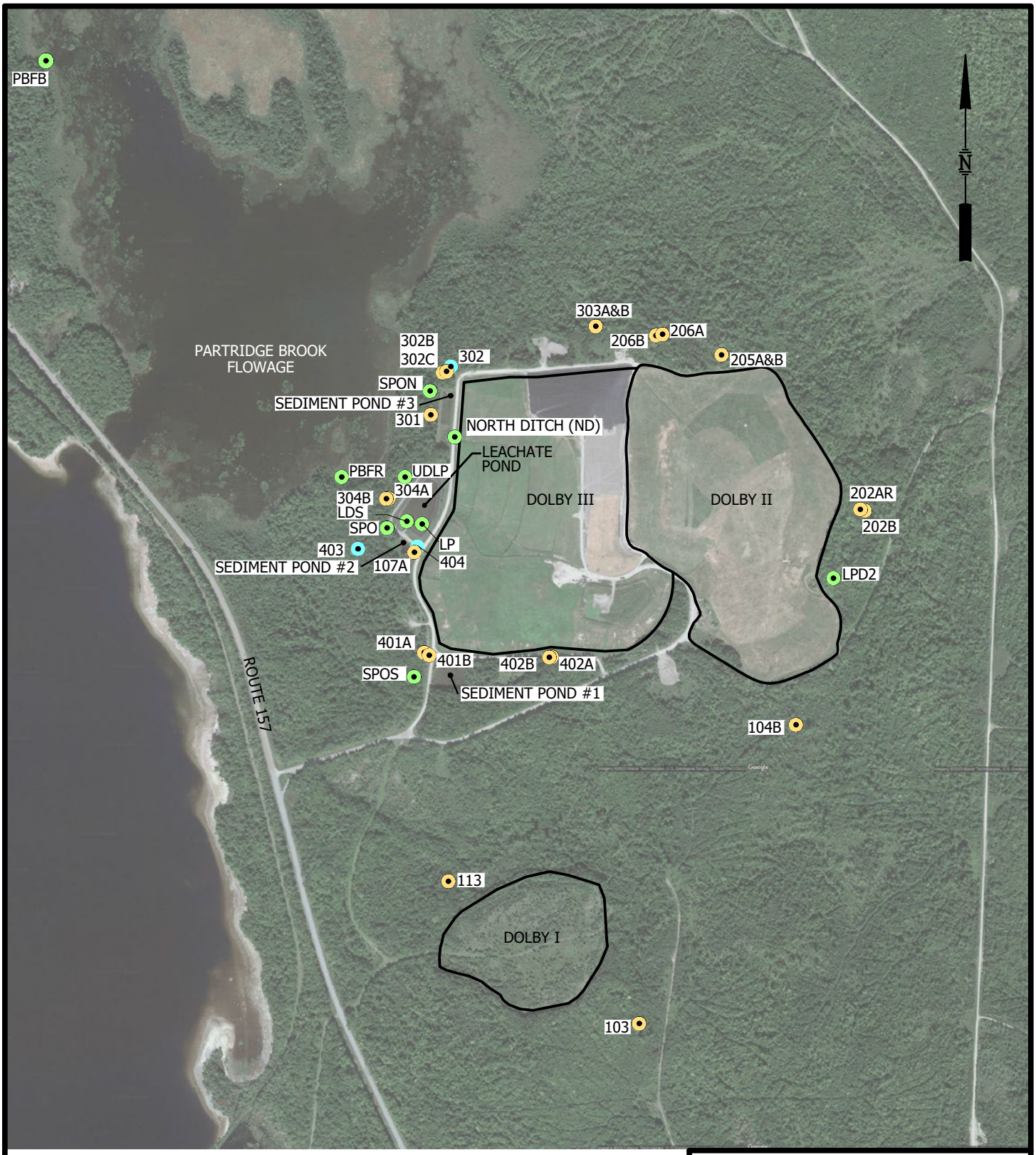
PBFB Partridge Brook Flowage – Background
PBFR Partridge Brook Flowage – Revised location beginning 2012
ND North Ditch
SPO Siltation Pond Outlet
SPON Siltation Pond North
SPOS Siltation Pond South

UDLP – Underdrain for leachate pond (collected from manhole on the western side of the leachate pond).

FIELD PARAMETERS from MW – 103 and MW – 113, which are monitoring wells associated with Dolby I

LEACHATE SAMPLING LOCATIONS

LP Leachate Pond South of Dolby III
LPD2 Leachate Pond East of Dolby II
LDS Leachate Pond Leak Detection Sump



AERIAL PHOTO DATED SEPTEMBER 16, 2022

LEGEND

- GROUNDWATER WELLS
- SURFACE WATER SITES
- PIEZOMETER

500 0 1000 FEET

DWG: AERIAL-2008 LMN: PC-WAT SAMPL SITES CTB: SME-STD.CTB REV: 4/12/2024

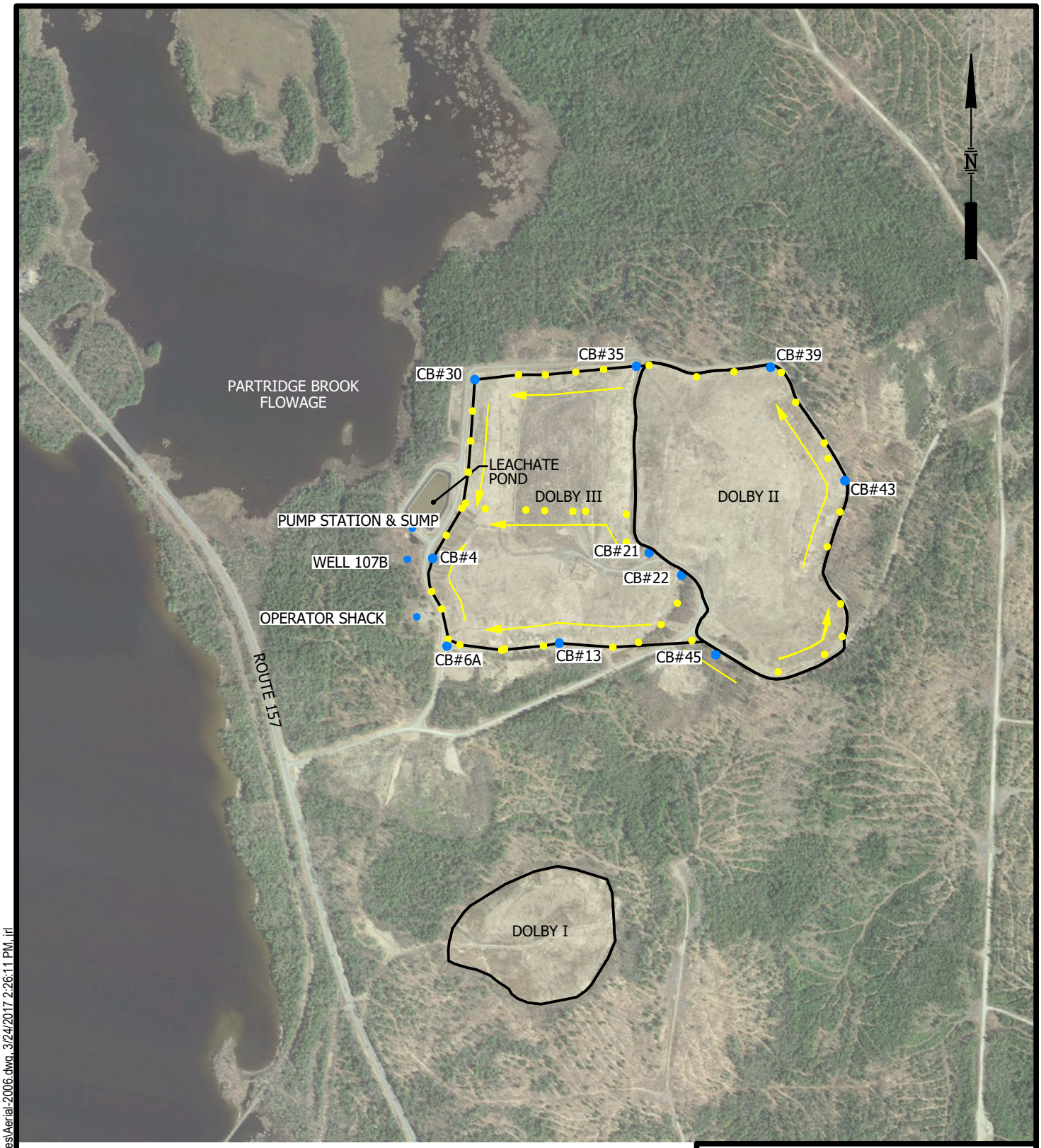
FIGURE 7-1
WATER QUALITY
MONITORING LOCATIONS
DOLBY LANDFILL FACILITY
EAST MILLINOCKET, MAINE

SME
SEVEE & MAHER
ENGINEERS

\\Nserver\cfs\Kpc\Dol\ACAD\WaterSampleSites\Aerial-2008.dwg, PCMMP FIG 7-1, 4/12/2024 8:53:57 AM, bwb

7.2 Landfill Gas Monitoring

Manhole, enclosed surface structures, and a former groundwater monitoring well are routinely monitored for the presence of landfill gas (i.e., hydrogen sulfide and explosive gas) at the Dolby Landfill Facility. The locations consist of several manholes spaced along the perimeter of the landfill (i.e., CB#3, CB#21, CB#22, CB#39, CB#43, and CB#45), one former groundwater monitoring well (107B), the Conex Box, the leachate pond pump station, and the associated wet well. The gas monitoring locations are shown on Figure 7-2. Several of the gas monitoring locations will be eliminated as a result of the Dolby III cover upgrade. The eliminated locations consist of leachate catch basins that will be permanently removed from access due to the Dolby III Landfill cover upgrade. The Phase 3 and Phase 4 cover upgrade projects were completed in the fall of 2023 and 2024, respectively. Following the completion of the cover upgrade projects, only groundwater monitoring well (107B), the Conex Box, the pump station, pump station wet well, and catch basins (CB#3, CB#39, CB#43, and CB#45) remain available for gas monitoring. The EMP for the Dolby Landfill Facility describes the frequency, methods, monitoring equipment, and reporting associated with sampling and analysis of the gas locations.



AERIAL IMAGE FROM GOOGLE EARTH,
DATED APRIL 28, 2016.

500 0 1000 FEET

LEGEND

GAS SAMPLE LOCATIONS

EXISTING MANHOLE/CATCH BASIN

FLOW DIRECTION OF LEACHATE COLLECTION SYSTEM

FIGURE 7-2
GAS MONITORING LOCATIONS
DOLBY LANDFILL
EAST MILLINOCKET, MAINE

SME
Sevee & Maher Engineers, Inc.
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

DWG: AERIAL-2008 LMN: CB GAS MONITOR CTB: SME-STD REV: 3/22/2017

\\Nserver\cfs\Kpc\Dol\ACAD\WaterSampleSites\Aerial-2006.dwg, 3/24/2017 2:26:11 PM, jrl

8.0 POST-CLOSURE MONITORING AND MAINTENANCE

The final cover systems for the Dolby II and Dolby III Landfills are visually monitored as part of the semi-annual general inspections (see Section 4.0). Common elements of these inspections are to identify landfill surface areas where: ponding of water on the landfill cover is occurring; cover soil erosion is occurring; stress of the vegetative layer is observed; animal burrows are present; and where any other features are visible that could affect the cover integrity.

The Landfill cover is mowed every other year to prevent growth of deep-rooted, woody plant species. Starting in 2020, the surfaces of both Dolby II and Dolby III were mowed annually as an experiment to understand if annual mowing will reduce winter snow accumulation (i.e., drifting) on the landfill surfaces. The intent was to minimize drifting and infiltration of snowmelt as a means to reduce spring leachate flows sufficient to avoid leachate trucking. As of 2025, all portions of the Dolby II and Dolby III Landfills have received final cover and infiltration into the underlying waste mass has been reduced. Spring flows into the leachate pond have not required trucking of leachate to the East Millinocket WWTP for several years. Beginning summer 2025, the mowing schedule will return to biennial mowing of the landfill covers. The mowing program will be performed such that the Dolby II Landfill is mowed one year and the Dolby III Landfill is mowed the following year.

9.0 RECORD KEEPING AND REPORTING

Records maintained for the Dolby Landfill Facility pertain mainly to the volume of leachate sent to treatment, leachate pumping flow and pressure statistics, general inspection reports, and documentation of physical maintenance and repair of the Facility. Water quality and gas monitoring results will be submitted to MEDEP following each monitoring episode as described in the EMP. An annual report for the Facility will be prepared and submitted to MEDEP. The annual report will include leachate pumping records, visual inspection summaries, documentation of maintenance and repair of infrastructure, and discussion of unforeseen events that were identified and dealt with during the annual reporting period. A list of the cleaning and inspection activities and the associated frequency for completing those activities is shown in Table 9-1. The water quality monitoring results will also be included in the annual report along with an interpretation of those results as related to MEDEP standards and site trends.

TABLE 9-1
CLEANING AND INSPECTION FREQUENCY

Activity[1]	Frequency	Last Completed (relative to 2025)
Clean and Inspect Leachate Pond Liner	Every 5 years[2]	2023
Clean and Inspect Leachate Pipeline - Low-spots	Every 1 to 2 years[3]	2024
Clean and Inspect Leachate Pipeline - Full Length	Every 5 years[4]	2023
Inspect Leachate Pipeline Manholes	Annually	2024
Inspect Leachate Pond Pumps	Annually	2024
Inspect Dolby II and Dolby III Manholes	Once every 3 years	2024
Inspect Dolby II and Dolby III Cover Systems	Twice per year[5]	2024
Inspect Landfills and General Facility	Once per week[6, 7]	2024
Inspect Leachate Pipeline Route	Monthly[6]	2024
Mow Dolby II Landfill	Every other year[8]	2024
Mow Dolby III Landfill	Every other year[8]	partial 2024
Topographic Survey of Dolby II and Dolby III Landfills	Once per 5 years[9]	2022

Notes:

1 A memo documenting completion of each activity will be included in the Annual Report for the Dolby Landfill Facility.

2 Actual year of cleaning will be based on observations of sediment build-up on pond liner and discussions with BGS and MEDEP.

3 Low-spot cleaning frequency can be modified based on flow output of leachate pond pumps.

4 Full cleaning frequency may be adjusted based on leachate pump output.

5 For 2025, 2026, 2027 three cover system inspections will be performed each year to give extra attention to new vegetative cover and surface water drainage measures for Dolby III Landfill.

6 Inspection of landfill surfaces and pipeline route will not be performed when ground surface is snow covered.

7 Once per week inspection will be increased to 4 to 5 times per week during spring thaw conditions.

8 Mowing will include tree trimming along leachate pipeline route, landfill access road, and leachate pond as neededl

9 Topographic survey will be coordinated with Dolby III mowing.

10.0 POST-CLOSURE MONITORING AND MAINTENANCE COST ESTIMATE

The following table of estimated post-closure monitoring and maintenance costs was prepared for a post-closure duration of 30 years (i.e., 2025 through 2055). The table reflects the Schedules and frequencies of cleaning and inspection activities summarized in Tabel 9-1, as well as the water quality monitoring described in Section 5.0.

TABLE 10-1

ESTIMATED POST-CLOSURE MONITORING AND MAINTENANCE COSTS

Period of Interest	Inspections	Leachate Infrastructure Cleaning	Water Quality Monitoring4	Site Maintenance5	Engineering Support6
2026	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2027	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2028	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2029	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2030	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2031-2055 (ave)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Notes:

1 All costs shown are based on 2024 dollars. No cost of electricity for leachate handling is included in the estimate.

2 Costs in table follow activities and frequency/schedule described in PCMMP.

3 Final frequency/schedule of leachate pond and pipeline cleaning/inspection will be predicated on observed sediment build up and could change.

4 Assumes no increase or decrease in water quality monitoring locations, parameters of analysis, or monitoring frequency.

5 Includes mowing, plowing, and access road maintrenence.

6 Includes oversight of subcontractors, interaction with owner and regulatory agencies, quality control, project management, and administration.

7 Does not include unforseen repairs to site infrastrutre (such as leachate pump repair/replacement).

8 Does not include unforseen leachate hauling.

9 2031-2055 costs are an average cost based on estimated costs for 2026 through 2030.

10 Assumes no additional cover upgrade to occur in 30-year post-closure period. If Dolby I or Dolby II receives a cover upgrade, monitoring and maintenance costs could increase for the duration of the cover upgrade(s).

REFERENCES

Sevee & Maher Engineers, Inc., 2012. Environmental Monitoring Plan, Dolby Landfill, April 2012. (Revised April 2024)

Sevee & Maher Engineers, Inc., 2012. Landfill Operating Manual, Dolby III Landfill, April 2012.

APPENDIX A

MEDEP LICENSE FOR DOLBY FACILITY

SME
SEVEE & MAHER
ENGINEERS

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

BOARD ORDER

IN THE MATTER OF

STATE OF MAINE, ACTING THROUGH THE	)	SOLID WASTE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL	)	LICENSE
SERVICES, BUREAU OF GENERAL SERVICES	)	
EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE	)	
DOLBY LANDFILL FACILITY	)	
#S-000796-WO-AO-N	)	FINAL CLOSURE
(APPROVAL WITH CONDITIONS)	)	

Pursuant to the provisions of the *Maine Hazardous Waste, Septage and Solid Waste Management Act,* 38 M.R.S. §§1301 to 1319-Y; the *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2 (last amended October 19, 2015); and the *Solid Waste Management Rules: General Provisions,* 06-096 CMR 400 (last revised April 6, 2015); *Landfill Siting, Design and Operation*, 06-096 CMR 401 (last revised April I2, 2015); and *Water Quality Monitoring, Leachate Monitoring, and Waste Characterization,* 06-096 CMR 405 (last revised April 12, 2015), the Department of Environmental Protection ("Department") has considered the application of the STATE OF MAINE, acting through the Department of Administrative and Financial Services, Bureau of General Services, with its supportive data, agency review comments, staff summary, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. APPLICATION SUMMARY

A. Application: The Department of Administrative and Financial Services, Bureau of General Services ("DAFS/BGS") has applied for a license to close an existing paper mill landfill facility in East Millinocket.

B. History:

(1) On June 13, 1984, the Great Northern Paper Company ("GNP") received Department approval to construct and operate the Dolby III landfill (Department license #L-000796-07-A-N).

(2) The Dolby III landfill occupies approximately 72 acres and has been operated in stages consisting of 17 waste cells. Operations are currently in Cell 16.

(3) The originally-approved waste streams were wastewater sludges, woodroom/woodyard waste, wood ash, and general rubbish from GNP's Millinocket and East Millinocket paper mills and municipal solid waste from the local communities. The disposal of municipal solid waste was discontinued in 1993 in response to new federal solid waste regulations. The site also includes the Dolby I and Dolby II landfills, which have been filled to licensed capacity and are closed. Dolby I, II and III are hereinafter collectively referred to as the Dolby Landfill Facility.

(4) On April 28, 2003, the Department approved the transfer from GNP of all solid waste licenses, and other Department licenses, associated with the Dolby Landfill Facility to Katahdin Paper Company LLC ("KPC").

(5) On August 30, 2011, the Maine State Planning Office ("SPO") acquired the Dolby Landfill Facility and related properties from KPC. On September 28, 2011, the Department approved the transfer of all solid waste licenses (Department license #S-000796-WR-AJ-T), and other Departmental licenses, associated with the Dolby Landfill Facility to the SPO from KPC.

(6) Since the issuance of the aforementioned transfer license, the SPO has been dissolved and responsibilities for the oversight and operation of the Dolby Landfill Facility have been turned over to the DAFS/BGS.

C. Summary of Proposal: The DAFS/BGS is proposing to close the remaining open portions of Dolby III and upgrade the cover system of previously closed areas of Dolby II and Dolby III in several phases over the next few years. The entire project is hereinafter referred to as the Dolby Landfill Cover Upgrade Project. An Application for Landfill Closure entitled Dolby Landfill Cover Upgrade - Phase I (hereinafter "Application" or "Dolby Landfill Cover Upgrade Project - Phase I") was prepared by Sevee & Maher Engineers, Inc. and is dated April 2016. The Department accepted the Application as complete for processing on April 27, 2016.

2. TITLE, RIGHT, OR INTEREST

The Dolby Landfill Facility site is approximately 436 acres in size. The DAFS/BGS has submitted an executed copy of the Acquisition Agreement, dated August 30, 2011, that conveyed the property that the Dolby Landfill Facility is located on from KPC to the SPO. The SPO was dissolved in 2011 and ownership of the Dolby Landfill Facility was

transferred to the DAFS/BGS by PL 2011, c. 655; thereby, establishing the DAFS/BGS as the owner/operator of the facility.

The Department finds that the DAFS/BGS has submitted sufficient evidence of title, right, or interest with respect to the property proposed for use.

3. NOTICE OF INTENT

The DAFS/BGS has provided documentation of the publication of a "Notice of Intent to File" and has documented notification of abutters as required by 06-096 CMR 2. The Notice of Intent to File was published in the March 19-20, 2016 edition of the Bangor Daily News.

The Department finds that the DAFS/BGS has complied with all of the public notice requirements of 06-096 CMR 2.

4. FINANCIAL ABILITY AND ASSURANCE

The DAFS/BGS has allocated approximately $12 million for the proposed closure/cover system upgrade at the Dolby Landfill Facility. The funds for the Dolby Landfill Cover Upgrade Project were included in the 2016-2017 State of Maine biennial budget (PL 2015, c. 267 Part M). The Dolby Landfill is a state-owned facility and is not subject to the financial assurance requirements of 06-096 CMR 400(11) of Maine's *Solid Waste Management Rules* ("Department Rules").

The Department finds that the DAFS/BGS has provided adequate evidence of financial ability and assurance for the proposed Dolby Landfill Cover Upgrade Project.

5. TECHNICAL ABILITY

The DAFS/BGS has retained Sevee & Maher Engineers, Inc. ("SME") of Cumberland, Maine to assist with the design, construction management and oversight of the Dolby Landfill Cover Upgrade Project. SME was formed in 1985 to provide civil and environmental services to private and public sectors. Services provided by SME include siting, design, permitting, and operation of solid waste landfills. Personnel from SME have been involved with various aspects of the design and operation of the Dolby Landfill Facility since the mid 1980's. SME provided information regarding the technical ability of its personnel who will be utilized to design, manage, and oversee the construction of the Dolby Landfill Cover Upgrade Project. The DAFS/BGS and SME will also work with earthworks and geosynthetics contractors experienced in landfill cover construction to complete the project. Post-closure care and maintenance of the

facility will continue to be provided by the DAFS/BGS using personnel familiar with the site.

The Department finds that the DAFS/BGS has demonstrated technical ability for the proposed Dolby Landfill Cover Upgrade Project.

6. LIABILITY INSURANCE

The DAFS/BGS is a public entity and is exempt from the liability insurance requirements of 06-096 CMR 400(10).

The Department finds that the DAFS/BGS is exempt from the liability insurance requirements of 06-096 CMR 400(10) of the Department Rules.

7. SURFACE WATER QUALITY AND FLOODING

Stormwater from the Dolby Landfill site is managed in accordance with the facility's Stormwater Pollution Plan and is in compliance with the Maine Multi-Sector General Permit Sector L. In general, surface water from the site flows towards the Partridge Brook Flowage, which then flows into Dolby Pond. Partridge Brook Flowage is not listed as an impaired water body. Stormwater management for the facility includes 3 separate sediment/detention ponds that are positioned near the downslope perimeter of the Dolby III landfill. Runoff from the closed landfill areas and access roads enter grass and stone lined ditches that flow into the sediment/detention ponds. Discharges from each sediment/detention pond flow into level spreaders and then become sheet flow into the adjacent wooded areas.

Since the Dolby III landfill ceased operations prior to reaching its permitted final waste grade, the proposed final grading plan will have sideslopes that are flatter in some areas than previously expected. The proposed cover upgrades will also utilize existing cover material to re-establish a vegetative cover surface that will mimic the current cover conditions in terms of stormwater runoff from the site. SME proposes no changes to the site's current Stormwater Management Plan with respect to the proposed cover system upgrade. However, during each phase of the cover system upgrade, a stormwater analysis will be performed to verify the capacity requirements of the site's existing structures and to design the necessary temporary and permanent erosion control measures required for the proposed cover upgrades. Based upon the stormwater analysis for the Phase 1 cover upgrade area, the emergency spillway of Sedimentation Pond #3 will be modified. Modifications include the installation of a riprap-lined emergency spillway and outlet pipe riprap protection.

The Department finds that the proposed Dolby Landfill Cover Upgrade Project will not have an unreasonable adverse effect on surface water quality and will not unreasonably cause or increase flooding on-site or on adjacent properties nor create an unreasonable flood hazard to any structure.

8. EROSION AND SEDIMENTATION CONTROL

The proposed Dolby Landfill Cover Upgrade Project will occur within the limits of the existing landfill footprint and will minimize the disturbance of any native soils. The design and implementation of all erosion control measures associated with the proposed project will be conducted in accordance with the Maine Erosion and Sediment Control Practices Field Guide for Contractors, March 2015, or its equivalent. Suitable erosion control measures will be in-place prior to disturbance of the existing soil cover associated with the proposed project. A comprehensive Erosion and Sedimentation Control Plan has been prepared by SME and was submitted as part of the Application.

The Department finds that the DAFS/BGS has adequately addressed erosion and sediment control for the proposed Dolby Landfill Cover Upgrade Project and has demonstrated that the proposed project will not cause unreasonable sedimentation or erosion of soil.

9. FACILITY BACKGROUND AND PROJECT DESCRIPTION

The Dolby II and Dolby III landfills are non-secure landfills that collect leachate and groundwater-containing leachate. The Dolby II and Dolby III landfills have a combined size of approximately 135 acres and were permitted by the Department in 1978 and 1984, respectively. Originally, the waste streams included municipal solid wastes from the Towns of Millinocket, East Millinocket and Medway, and wastewater treatment sludge and various pulp and papermaking residuals from the GNP mills. Over the years, the Department has approved disposal of a number of different wastes streams, including, but not limited to, the following: wood waste; boiler ash; wood ash; coal ash; demolition debris ash; asbestos-containing materials; oil-contaminated soils; lime grit; waste sulfur; ink sludge; and solid waste from Baxter State Park and GNP Woodland Operations.

Cover materials have been previously placed on all of Dolby II and a majority of Dolby III. In an effort to significantly reduce the volume of leachate generated at the Dolby Landfill Facility, the DAFS/BGS plans to close the remainder of Dolby III and upgrade the cover system of previously closed areas of Dolby III and portions of previously closed areas of Dolby II. The proposed cover system upgrades will significantly limit precipitation infiltration into the waste; thereby, reducing leachate generated at the site. The objective of reducing the leachate generated at the site is to minimize future costs

associated with the transportation and treatment of leachate from the facility that will be paid for by the taxpayers of Maine.

10. SITE ASSESSMENT REPORT

Consistent with Department Rules, the DAFS/BGS is exempt from conducting an additional site investigation for closure as long as the site was previously characterized and water quality monitoring is conducted in accordance with the requirements of 06-096 CMR 405. Previous site investigations including a study conducted by E.C. Jordan in 1981 have documented the hydrogeologic conditions at the Dolby Landfill Facility. In December 2015, SME conducted an investigation to better define the bedrock surface and groundwater divide in the vicinity of Dolby II. This investigation was performed to establish the proposed cover upgrade work limits on Dolby II that would provide the greatest long-term benefit in terms of reducing leachate generation and subsequent collection, conveyance and treatment costs. Results of the December 2015 investigation were submitted, along with interpretive bedrock and phreatic surface maps for this portion of the landfill site, as part of the Application.

A facility water quality monitoring program consisting of groundwater, surface water and leachate sampling and testing has been conducted triannually with the data submitted in the annual reports.

The Department finds that the DAFS/BGS has completed a site investigation for closure and site assessment report that adequately supports the design of the proposed final cover system and that the DAFS/BGS conducts water quality monitoring in accordance with Department Rules.

11. ENGINEERING DESIGN AND REPORT

A. Closure Design: The DAFS/BGS has submitted a proposed cover system design, prepared by SME and dated March 29, 2016. The proposed Dolby Landfill Cover Upgrade Project is to occur in phases of approximately 25 acres in size over a 4 to 5 year period. The first phase, Phase I, will include a majority of the remaining open areas of Dolby III (i.e., Cells 15 and 16) and other areas in the southwest portion of Dolby III. Other phases will follow sequentially as detailed on Figure 1-2, Conceptual Closure Sequence, submitted in the Application. The Application details the approximate amount of acreage to be covered in each construction season and is as follows: for Dolby III, Summer 2016 – 25 acres, Summer 2017 – 24 acres and Summer 2018 – 23 acres; and for Dolby II, Summer 2019 – 25 acres.

Approximately 38 acres of the existing Dolby II cover system will not be upgraded. The cover system upgrade design will incorporate existing topsoil, cover soil, and sand drainage material previously placed at the site to the extent possible. A soil re-use plan has been submitted to describe how existing soils will be re-used within Phase I of the proposed Dolby Landfill Cover Upgrade Project. The proposed cover system upgrade includes, from the bottom up, the following components: a minimum 6-inch gas collection system (i.e., sand and gas vent piping); a 40-mil high density polyethylene ("HDPE") textured geomembrane; a drainage geocomposite and cover system drainage pipes; a 14-inch cover soil layer; a 4-inch vegetative soil layer; and miscellaneous permanent erosion control measures (i.e., erosion control mats, rip rap, etc.).

B. Stability and Settlement Assessment and Monitoring: Slope stability of the proposed cover system was evaluated relative to the materials and material interfaces which will comprise the proposed cover system. Slope stability factors of safety ("FOS") were calculated using soil and geosynthetic material properties considered representative of the materials available to the project and which are consistent with geotechnical literature and accepted engineering practices. Soil and geosynthetic material properties utilized within the slope stability analyses will be verified during construction.

The slope stability calculations indicate that a stable cover system configuration will be maintained during the closure and post-closure periods. The FOSs for the proposed final cover system were calculated to be consistently greater than 1.3 and 1.5 for static construction/operational and post-closure conditions, respectively, and consistently greater than 1.1 and 1.5 for seismic construction/operational and post-closure conditions, respectively. All of the calculated slope stability FOSs meet or exceed the required minimum FOSs specified in 06-096 CMR 401(2)(F)(1) of the Department Rules.

Settlement of the proposed cover systems during the post-closure period was evaluated by SME. The calculations show that: 1) the as-placed cover grades are expected to change minimally during the post-closure period and the cover system drainage is not expected to be affected and 2) the HDPE geomembrane will maintain its integrity and performance at the maximum predicted settlements. The minimal amount of settlement calculated for Phase I is largely predicated on the minor regrading and filling that will be performed to construct the proposed cover system and that much of the waste in Phase I has been in place for several years. It is expected that only a small amount of settlement will occur during the post-closure period due to long-term waste degradation and waste compression.

C. Water Balance: Leachate volumes collected and treated from the Dolby Landfill Facility have averaged approximately 74.2 million gallons per year ("MGY") over the past 5 years. SME estimates that the leachate generation rate from the Dolby Landfill Facility will be reduced to less than 7 MGY with the placement of a geomembrane cover over the portions of Dolby II and Dolby III that contribute to the facility's leachate collection system. The resistance to infiltration and runoff characteristics of the proposed cover system has been evaluated using the Hydrogeologic Evaluation of Landfill Performance ("HELP") model. The HELP model evaluation shows that the proposed cover system will meet the intent of the Department Rules by minimizing the infiltration of precipitation into the landfill after closure.

D. Leachate Management Plan: The Dolby Landfill Cover Upgrade Project will not involve changes in the site's current leachate collection system, leachate storage pond, or leachate transport system. The proposed cover system construction will be performed in discrete sections that will allow stormwater runoff to be managed properly. Areas of waste which are uncovered during the construction process will be contained using temporary berms constructed from existing cover soil to isolate the open areas and manage impacted runoff from these areas to the greatest practical extent. Impacted runoff will be diverted and/or pumped to various perimeter manholes adjacent to the work area for collection and subsequent treatment.

E. Gas Management Plan: SME recognizes the potential for degradation of the landfill waste and has estimated the gas generation for the portion of the landfill that will be closed by Phase I of the Dolby Landfill Cover Upgrade Project. SME used historical as-built drawings and available annual reports to estimate the waste thickness and the types of waste placed in this area of the landfill. The Landfill Gas Emissions Model ("LandGEM") was used to predict the quantity of gas that could be generated and the emission rate of non-methane organic compounds ("NMOC") from Phase I. Gas collection pipe spacing and passive vent locations necessary to relieve gas pressures generated by the waste and maintain cover stability were determined using standard design methods. The gas calculations indicate that the NMOC emission rate from Phase I will be below the 50 megagrams per year threshold described in 06-096 CMR 401(5)(I)(6)(c) of the Department Rules. As such, SME states that no additional gas control measures for the Dolby Landfill Cover Upgrade Project - Phase I other than passive gas collection and venting are necessary.

Gas monitoring will be performed during construction when modifications to the landfill interior manholes are made to accommodate placement of the geomembrane.

The Department finds that the proposed final cover system will maintain its integrity and performance under the maximum predicted settlement, minimize infiltration of precipitation into the landfill after closure, and adequately manage landfill gas; provided that, an engineering report is submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

12. QUALITY ASSURANCE PLAN

A Construction Quality Assurance (CQA) Plan, prepared by SME and dated April 2016, addressing the construction quality assurance for placement of final cover materials for the Dolby Landfill Cover Upgrade Project - Phase I has been developed and submitted with the Application. The CQA plan outlines the characterization of the cover system's physical properties to determine its ability to achieve the project's performance criteria; defines procedures for cover placement; defines tests and frequency of testing to assure the construction of the cover meets or exceeds design criteria; and provides a method for documenting the cover placement. Geosynthetics and soil components will be inspected, tested, and certified by qualified CQA personnel independent of the Owner and Contractor.

The Department finds that the DAFS/BGS will implement adequate construction quality assurance measures to assure that design specifications and performance requirements for all facility components are met during construction of the Dolby Landfill Cover Upgrade Project; provided that, a CQA Plan is submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

13. CONSTRUCTION CONTRACT BID DOCUMENTS

The DAFS/BGS has submitted *Contract Documents and Construction Specifications, Dolby Landfill Cover System Upgrade – Phase 1 (Documents)*, prepared by SME and dated April 2016. The Documents include drawings, technical specifications, and contract administrative documents for the Dolby Landfill Cover Upgrade Project - Phase I. The Documents describe the proposed project and the means and methods for the installation of the final cover systems.

The Department finds that the construction contract bid documents were adequately prepared and meet the requirements of 06-096 CMR 401(5)(L); provided that, construction contract bid documents, including drawings, technical specifications, and contract administrative documents are submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

14. POST-CLOSURE MONITORING AND MAINTENANCE

An Environmental Monitoring Plan (EMP), dated April 2011, was previously submitted and approved by the Department. The EMP meets the requirements of 06-096 CMR 405 and will be the basis for the post-closure water quality monitoring program for the Dolby Landfill Facility. Provisions for groundwater, surface water, leachate and gas monitoring are outlined in the EMP. Specific procedures for the inspection and maintenance of facility components are outlined in the facility Operating Manual, dated April 2012. Slope stability and settlement monitoring of the proposed cover systems will be routinely conducted during the post-closure period. This monitoring will consist of visual inspections of the completed cover system and periodic topographical surveys for comparison to the cover surface elevations at the time of construction completion. Post-closure slope stability and settlement monitoring will be conducted annually unless conditions are encountered that warrant more frequent monitoring. The post-closure monitoring and maintenance plan will need to be revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project.

Groundwater monitoring data shows that groundwater quality at monitoring well ("MW") 301, MW-302B and MW-302C has deteriorated over time. Data shows that these wells generally began to experience increasing trends for several parameters in the year 2000. The exact cause of increasing trends is unknown; however, completion of the Dolby Landfill Cover Upgrade Project is expected to help mitigate these impacts. The EMP includes a requirement for the ongoing statistical analysis of the monitoring data, using statistical tests approved by the Department, to evaluate trends in groundwater quality. The results of the ongoing evaluation will be provided in the annual report.

SME has submitted a June 23, 2016 letter proposing to evaluate the effectiveness of the Dolby Landfill Cover Upgrade Project relative to improving groundwater quality 5 years after the substantial completion of construction activities of the Dolby Landfill Cover Upgrade Project. Completion of the Dolby Landfill Upgrade Project is scheduled to occur during 2019.

The Department finds that the DAFS/BGS has adequately addressed post-closure monitoring and maintenance for the Dolby Landfill Facility; provided that: (1) the post-

closure monitoring and maintenance plan is revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project and is submitted for Department review and approval at least 30 days prior to substantial completion of construction activities within the Dolby Landfill Cover Upgrade Project - Phase I and (2) five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, the DAFS/BGS submits to the Department, for review and approval, an evaluation of water quality data from MW-301, MW-302B and MW-302C. If there has been no improvement in the water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS must submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality data from MW-301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval. Once the Corrective Action Plan has been approved by the Department, the plan must be implemented within one year of approval.

15. FINAL USE/PERMANENT RECORD

The DAFS/BGS proposes to maintain the property that the landfill is on as open space. Permanent buildings will not be placed within 100 feet of the landfill. Currently, there are no specific plans for final use of the Dolby Landfill Facility.

Following the completion of the Dolby Landfill Cover Upgrade Project, the DAFS/BGS will prepare and record in the Penobscot County Registry of Deeds information and necessary deed restrictions to provide notice to prospective purchasers and a public record of the location of the Dolby II and Dolby III landfills. The DAFS/BGS will also provide a copy of the record information and necessary deed restrictions to the Department as required by 06-096 CMR 401(5)(B)(4). The final cover or other components of the containment systems or the functioning of the monitoring systems may not be disturbed without the written approval of the Department.

The Department finds that the DAFS/BGS has provided for the permanent record related to the Dolby Landfill Facility.

BASED on the above Findings of Facts, and subject to the CONDITIONS listed below, the Department makes the following CONCLUSIONS:

1. The DAFS/BGS has submitted evidence of sufficient title, right, or interest with respect to the property proposed for use.

2. The DAFS/BGS has complied with all of the public notice requirements of 06-096 CMR 2 and 400.

3. The DAFS/BGS has provided adequate evidence of financial and technical ability to design, construct, operate, maintain, close and accomplish post-closure care of the solid waste facility in a manner consistent with all applicable requirements.

4. The DAFS/BGS is exempt from the liability insurance requirements of 06-096 CMR 400(10).

5. The Dolby Landfill Cover Upgrade Project will not unreasonably cause or increase flooding and will have no unreasonable effect on surface water. The DAFS/BGS has adequately addressed stormwater management for the proposed project.

6. The Dolby Landfill Cover Upgrade Project will not cause unreasonable sedimentation or erosion of soil. The DAFS/BGS has adequately addressed erosion and sedimentation control for the proposed project.

7. The DAFS/BGS has completed a site assessment report that adequately supports the design of the proposed final cover system and conducts water quality monitoring in accordance with the Department Rules.

8. The proposed final cover system will maintain its integrity and performance under the maximum predicted settlement, minimize infiltration of precipitation into the landfill after closure, and adequately manage landfill gas.

9. The DAFS/BGS has proposed a final cover system design meeting the requirements of the Department Rules; provided that, an engineering report, a CQA Plan and the construction contract bid documents, including drawings, technical specifications, and the contract administrative documents are submitted to the Department for review and approval at least 3 months prior to the commencement of construction activities within each subsequent phase of the Dolby Landfill Cover Upgrade Project.

10. The DAFS/BGS has provided for post-closure monitoring and maintenance in accordance with Department Rules; provided that: (1) the post-closure monitoring and maintenance plan is revised to reflect changes associated with the Dolby Landfill Cover Upgrade Project and is submitted for Department review and approval at least 30 days prior to substantial completion of construction activities within the Dolby Landfill Upgrade Project - Phase I and (2) five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, an evaluation of water quality data from MW-301, MW-302B and MW-302C is submitted for Department review and approval. If there has been no improvement in the water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS must submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality from MW-

301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval. Once the Corrective Action Plan has been approved by the Department, the plan must be implemented within one year of approval.

11. The DAFS/BGS has provided for the permanent record related to the site.

12. The Dolby Landfill Cover Upgrade Project will not pollute any waters of the State, contaminate the ambient air, constitute a hazard to health and welfare, or create a nuisance.

THEREFORE, the Department APPROVES the above noted application of the STATE OF MAINE, DEPARTMENT OF ADMINISTRATIVE and FINANCIAL SERVICES, BUREAU OF GENERAL SERVICES, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached as Appendix A.

2. The invalidity or unenforceability of any provision, or part thereof, of this license shall not affect the remainder of the provision or any other provisions. This license shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

3. At least 3 months prior to the commencement of construction of each subsequent phase, the DAFS/BGS shall submit an engineering report, a CQA Plan and the construction contract bid documents including drawings, technical specifications, and the contract administrative documents to the Department for review and approval.

4. At least 30 days prior to substantial completion of construction activities within the Dolby Landfill Cover Upgrade Project - Phase I, the DAFS/BGS shall submit to the Department, for review and approval, a revised post-closure monitoring and maintenance plan to reflect changes associated with the Dolby Landfill Cover Upgrade Project.

5. Five years after the substantial completion of the Dolby Landfill Cover Upgrade Project or no later than year end of 2024, whichever is earlier, the DAFS/BGS shall submit to the Department, for review and approval, an evaluation of water quality data from MW-301, MW-302B and MW-302C. If there has been no improvement in water quality at MW-301, MW-302B and MW-302C, the DAFS/BGS shall submit a Corrective Action Plan within 90 days of the submittal of the evaluation of water quality data from MW-301, MW-302B and MW-302C, prepared in accordance with the applicable rules in effect at that time, to the Department for review and approval.

STATE OF MAINE, ACTING THROUGH THE DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES, BUREAU OF GENERAL SERVICES EAST MILLINOCKET, PENOBSCOT COUNTY, MAINE DOLBY LANDFILL FACILITY #S-000796-WO-AO-N (APPROVAL WITH CONDITIONS)	14	SOLID WASTE LICENSE FINAL CLOSURE

Once the Corrective Action Plan has been approved by the Department, the plan shall be implemented within one year of approval.

DONE AND DATED AT AUGUSTA, MAINE, THIS 30th DAY OF June, 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Lisa Lp for
Paul Mercer, Commissioner

Filed
JUL 06 2016
State of Maine
Board of Environmental Protection

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

Date of initial receipt of application: April 7, 2016
Date of application acceptance: April 27, 2016

Date filed with the Board of Environmental Protection:

xlp80430/lsp

STANDARD CONDITIONS
TO ALL SOLID WASTE LANDFILL LICENSES

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL. VIOLATIONS OF THE CONDITIONS UNDER WHICH A LICENSE IS ISSUED SHALL CONSTITUTE A VIOLATION OF THAT LICENSE AGAINST WHICH ENFORCEMENT ACTION MAY BE TAKEN, INCLUDING REVOCATION.

1. **Approval of Variations from Plans.** The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed by the license. Any consequential variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation.

2. **Compliance with All Applicable Laws.** The licensee shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.

3. **Compliance with All Terms and Conditions of Approval.** The licensee shall submit all reports and information requested by the Department demonstrating that the licensee has complied or will comply with all terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.

4. **Transfer of License.** The licensee may not transfer the solid waste facility license or any portion thereof without approval of the Department.

5. **Initiation of Construction or Development Within Two Years.** If the construction or operation of the solid waste facility is not begun within two years of issuance of within 2 years after any administrative and judicial appeals have been resolved, the license lapses and the licensee must reapply to the Department for a new license unless otherwise approved by the Department.

6. **Approval Included in Contract Bids.** A copy of the approval must be included in or attached to all contract bid specifications for the solid waste facility.

7. **Approval Shown to Contractors.** Contractors must be shown the license by the licensee before commencing work on the solid waste facility.

8. **Background of key individuals.** A licensee may not knowingly hire as an officer, director or key solid waste facility employee, or knowingly acquire an equity interest or debt interest in, any person convicted of a felony or found to have violated a State or federal environmental law or rule without first obtaining the approval of the Department.

STANDARD CONDITIONS
TO ALL SOLID WASTE LANDFILL LICENSES

9. **Fees.** The licensee must comply with annual license and annual reporting fee requirements of the Department's rules.

10. **Recycling and Source Reduction Determination for Solid Waste Disposal Facilities.** This condition does not apply to the expansion of a commercial solid waste disposal facility that accepts only special waste for landfilling.

    The solid waste disposal facility shall only accept solid waste that is subject to recycling and source reduction programs, voluntary or otherwise, at least as effective as those imposed by 38 M.R.S. Chapter 13.

11. **Deed Requirements for Solid Waste Disposal Facilities.** Whenever any lot of land on which an active, inactive, or closed solid waste disposal facility is located is being transferred by deed, the following must be expressly stated in the deed:

    A. The type of facility located on the lot and the dates of its establishment and closure.

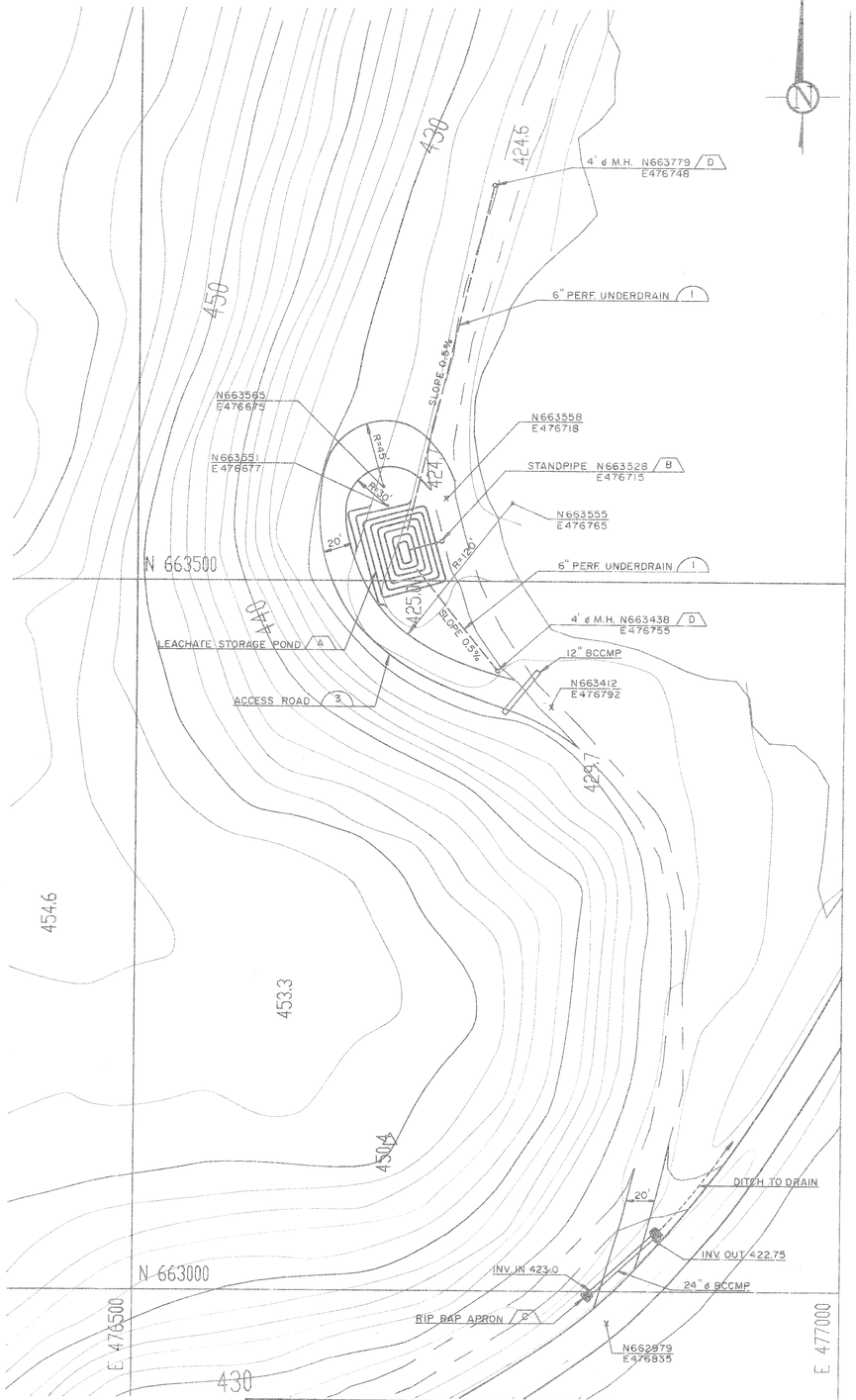
    B. A description of the location and the composition, extent, and depth of the waste deposited.

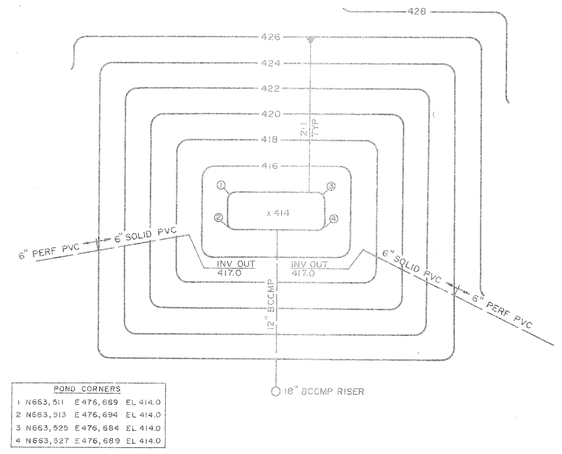
    C. The disposal location coordinates of asbestos wastes must be identified.

APPENDIX B

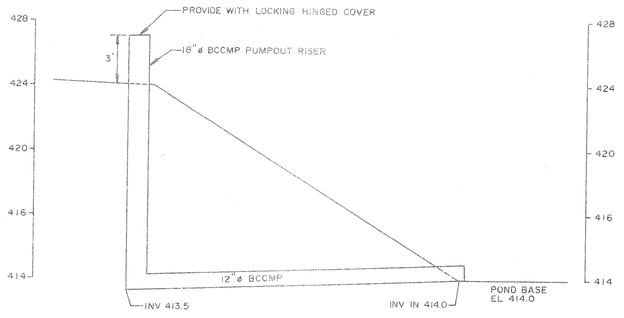
ENGINEERING DRAWINGS FOR DOLBY LANDFILL FACILITY
(This Appendix is supplied via compact disk)

SME
SEVEE & MAHER
ENGINEERS

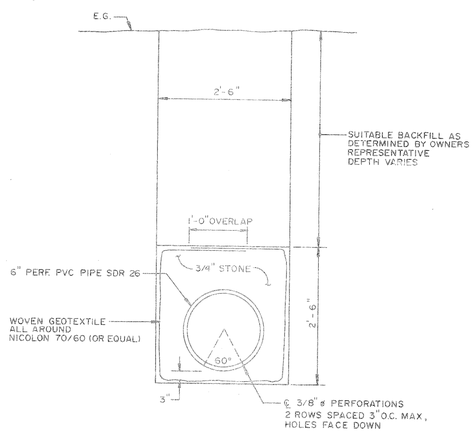




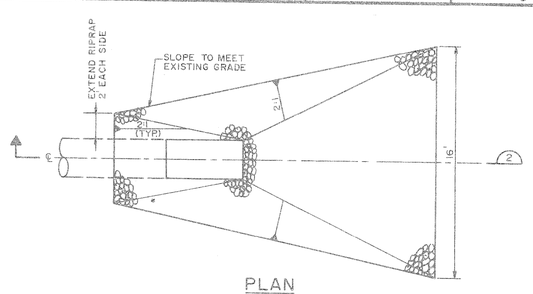
LEACHATE STORAGE POND / A
N.T.S.



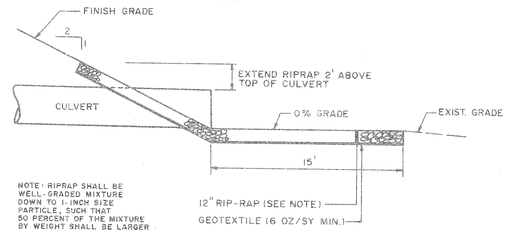
STANDPIPE / B
N.T.S.



PERF. LEACHATE UNDERDRAIN / 1
N.T.S.



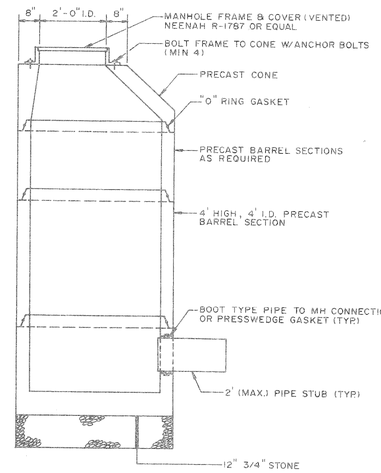
PLAN
N.T.S.



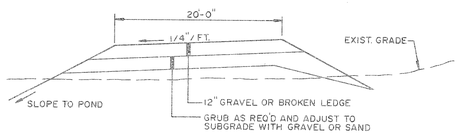
NOTE: RIPRAP SHALL BE WELL-GRADED MIXTURE DOWN TO 1-INCH SIZE PARTICLE, SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN 4". THE LARGEST STONE SIZE SHALL BE 6".

SECTION / 2
N.T.S.

RIP RAP APRON / C



TYPICAL LEACHATE TRANSPORT MANHOLE / D
N.T.S.



ACCESS ROAD / 3
N.T.S.

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		12/90	RECORD DRAWING	BH			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	PF 11/90
CKD	11/90
CKD	
CORR	
APPVD	
ISSUE CODE	
C-CONST.	
SCALE	AS SHOWN

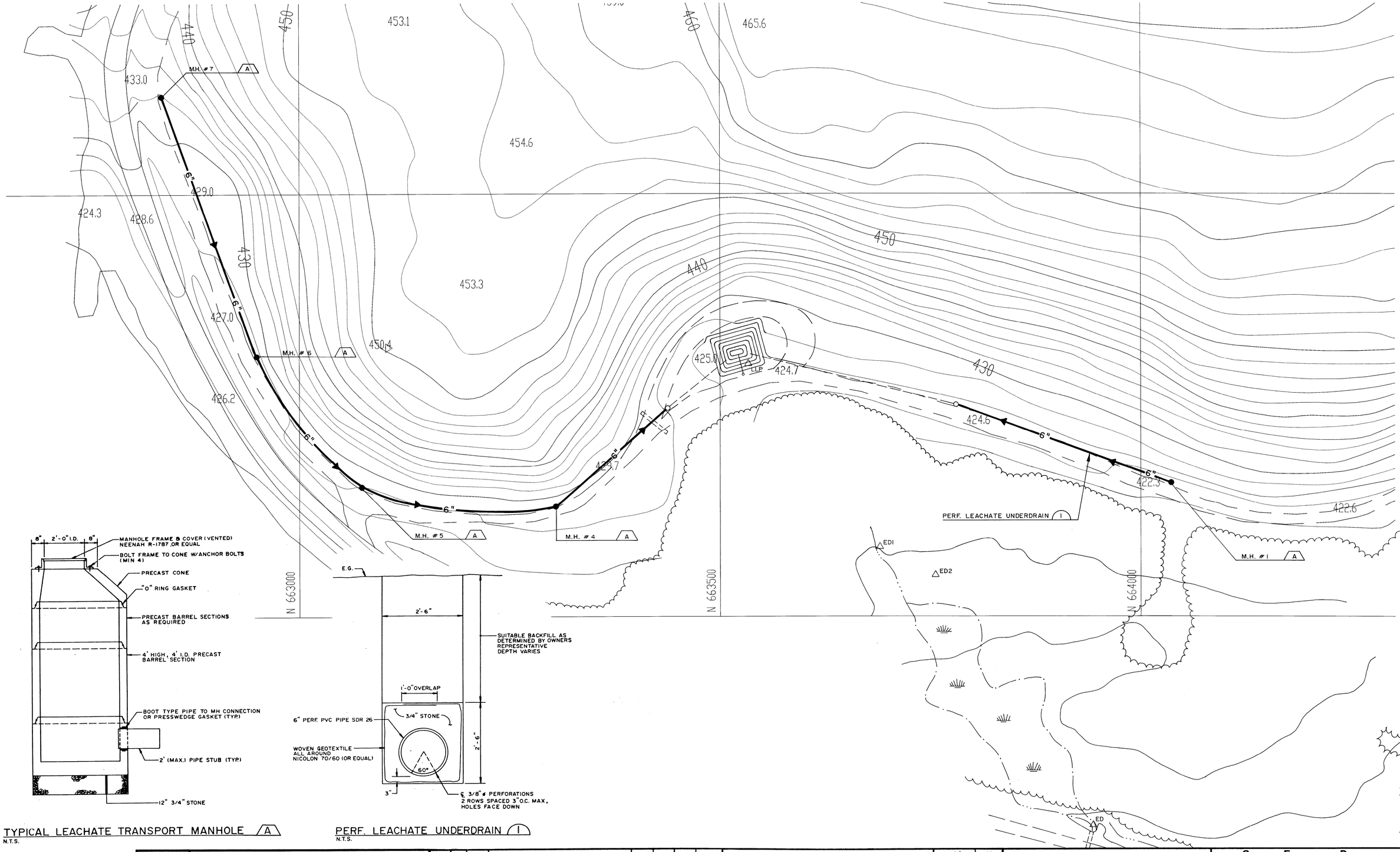
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

TEMPORARY LEACHATE POND
DOLBY II LANDFILL

JOB NO. 94552
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-19328



TYPICAL LEACHATE TRANSPORT MANHOLE (A)
N.T.S.

PERF. LEACHATE UNDERDRAIN (1)
N.T.S.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
YB-19328	TEMPORARY LEACHATE POND, DOLBY II LANDFILL			11/91	RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	RR	6/91
CKD	6/30/91	
CKD		
CORR		
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE 1" = 50'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY II LANDFILL NORTHEAST INTERCEPTOR TRENCH EXTENSION

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-20021

GREAT NORTHERN PAPER, INC.
A SUBSIDIARY OF BOWATER INCORPORATED
MILLINOCKET, MAINE
DOLBY II LANDFILL REGRADING

SHT. NO.	TITLE	DWG. NO.	
1	COVER SHEET	YB-23586	
2	SYMBOLS & ABBREVIATIONS	YB-23587	
3	SITE LOCATION PLAN	YB-23588	
4	SITE DEVELOPMENT PLAN	YB-23589	
5	DOLBY II NORTH SITE DEVELOPMENT PLAN	YB-23590	
6	DOLBY II SOUTH SITE DEVELOPMENT PLAN	YB-23591	N.I.T.C.
7	FINAL GRADING PLAN	YB-23592	
8	SECTIONS & DETAILS	YB-23593	

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1996

STATE OF MAINE
PETER L. MAHER
#4107
REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	PAF
CHK	GHC
CHK	
CORR	
APPVD	

ISSUE CODE

P - Prelim	B - Bids
M - Mtl T.O.	C - Const.

SCALE

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY II LANDFILL REGRADING
COVER SHEET

JOB NO. 67996
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082

YB-23586

C D E F G H I L M N O P Q

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL	○	●	MANHOLE
		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)	◎	○	CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER	⋈	⋈	WATER VALVE
25 x 63	25.56	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)		⊘	CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		1' 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
⊡	■	SURVEY MONUMENT		TOP OF SLOPE 2'	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER (SIZE & TYPE)
○IF	●IF	SURVEY IRON			EDGE OF TRAVELED WAY	FM	8" PVC	FORCE MAIN (SIZE & TYPE)
○	●	DRILL HOLE, PK, OR STAKE		C F	CUT OR FILL LINE	W	8" D.I.	WATER MAIN (SIZE & TYPE)
		WOODS OR BRUSH LINE		CLL	CLEARING LIMIT LINE		12" RCP	STORM DRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			RAILROAD
		MARSH AREA	TP-12	TP-12	TEST PIT AND NUMBER		S	SILTATION FENCE
						PD	6" PD	PERIMETER DRAIN (SIZE & TYPE)
						LT	6" LD	LEACHATE TRANSPORT (SIZE & TYPE)
						LC	6" LC	LEACHATE COLLECTION (SIZE & TYPE)
						LD	6" LD	LEAK DETECTION, SIZE & TYPE

A.C.C.M.P	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.I.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT			P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DUCTILE IRON	I.D.	INSIDE DIAMETER	PERF	PERFORATED
APPD	APPROVED	DIA OR ø	DIAMETER	IN OR "	INCHES	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INV	INVERT	PVC	POLYVINYL CHLORIDE
ASB	ASBESTOS	DIST	DISTANCE	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASPH	ASPHALT	DN	DOWN				
AUTO	AUTOMATIC	DR	DRAIN	LB	POUND	QTY	QUANTITY
AUX	AUXILIARY	DWG	DRAWING	LC	LEACHATE COLLECTION		
AVE	AVENUE			LD	LEAK DETECTION	R.O.W.	RIGHT OF WAY
AZ	AZIMUTH	EA	EACH	LIN FT.	LINEAR FEET	RAD	RADIUS
		EG	EXISTING GROUND OR GRADE	LOC	LOCATION	REQD	REQUIRED
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	ELEC	ELECTRIC	LT	LEACHATE TRANSPORT	RT	RIGHT
B.M.	BENCH MARK	EL	ELEVATION			RTE	ROUTE
BIT	BITUMINOUS	ELB	ELBOW	M.H.	MANHOLE		
BLDG	BUILDING	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT	S	SLOPE
BOT	BOTTOM	EST	ESTIMATED	MATL	MATERIAL	SCH	SCHEDULE
BRG	BEARING	EXC	EXCAVATE	MAX	MAXIMUM	SF	SQUARE FEET
		EXIST	EXISTING	MFR	MANUFACTURE	SHT	SHEET
C.B.	CATCH BASIN			MIN	MINIMUM	STA	STATION
CEN	CENTER	F.G.	FINISH GRADE	MISC	MISCELLANEOUS	SY	SQUARE YARD
CEM. LIN.	CEMENT LINED	FBRGL	FIBERGLASS	MON	MONUMENT		
C.M.P.	CORRUGATED METAL PIPE	FDN	FOUNDATION			TAN	TANGENT
C.O.	CLEAN OUT	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT	TDH	TOTAL DYNAMIC HEAD
CF	CUBIC FEET	FLG	FLANGE	N.T.S.	NOT TO SCALE	TEMP	TEMPORARY
CFS	CUBIC FEET PER SECOND	FLR	FLOOR	N/F	NOW OR FORMERLY	TYP	TYPICAL
CI	CAST IRON	FPS	FEET PER SECOND	NO. OR #	NUMBER		
CL	CLASS	FT OR '	FEET			V	VOLTS
CONC	CONCRETE	FTG	FOOTING	O.C.	ON CENTER		
CONST	CONSTRUCTION			O.D.	OUTSIDE DIAMETER	W/	WITH
CONTR	CONTRACTOR	GA	GAUGE			W/O	WITHOUT
CTR	CENTER	GAL	GALLON				
CY	CUBIC YARD	GALV	GALVANIZED			YD	YARD
		GPD	GALLONS PER DAY				
		GPM	GALLONS PER MINUTE				

VIEW MARKERS & IDENTIFICATION

GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
3. EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION – THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 85 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	<5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM WORK AREA PRIOR TO PLACING THE EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS –

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K)

10 LBS PER UNIT

SEED:		
	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

STATE OF MAINE
PETER M. MAHER
#4107
REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				2/20/96	ISSUED FOR BID				
				2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	PAF
CHK	GHC
CHK	
CORR	
APPVD	

ISSUE CODE: P – Prelim; B – Bids; M – Mtl T.O.; C – Const.

SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY II LANDFILL REGRADING
SYMBOLS & ABBREVIATIONS

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4603,7082

YB-23587

E:\SME\ACAD\SYMSHT Wed Feb 12 10:48:47 1997

STATE OF MAINE
PETER M. MAHER
#4107
REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE
	BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.
	NORRIDGEWOCK, MAINE – PHOTO DATE 10/23/95.
	GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE
	STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS
	MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE
	CONSTRUCTION.

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		2/20/96	ISSUED FOR BID				
		2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	

ISSUE CODE
P – Prelim | B – Bids
M – Mtl T.O. | C – Const.
SCALE AS SHOWN

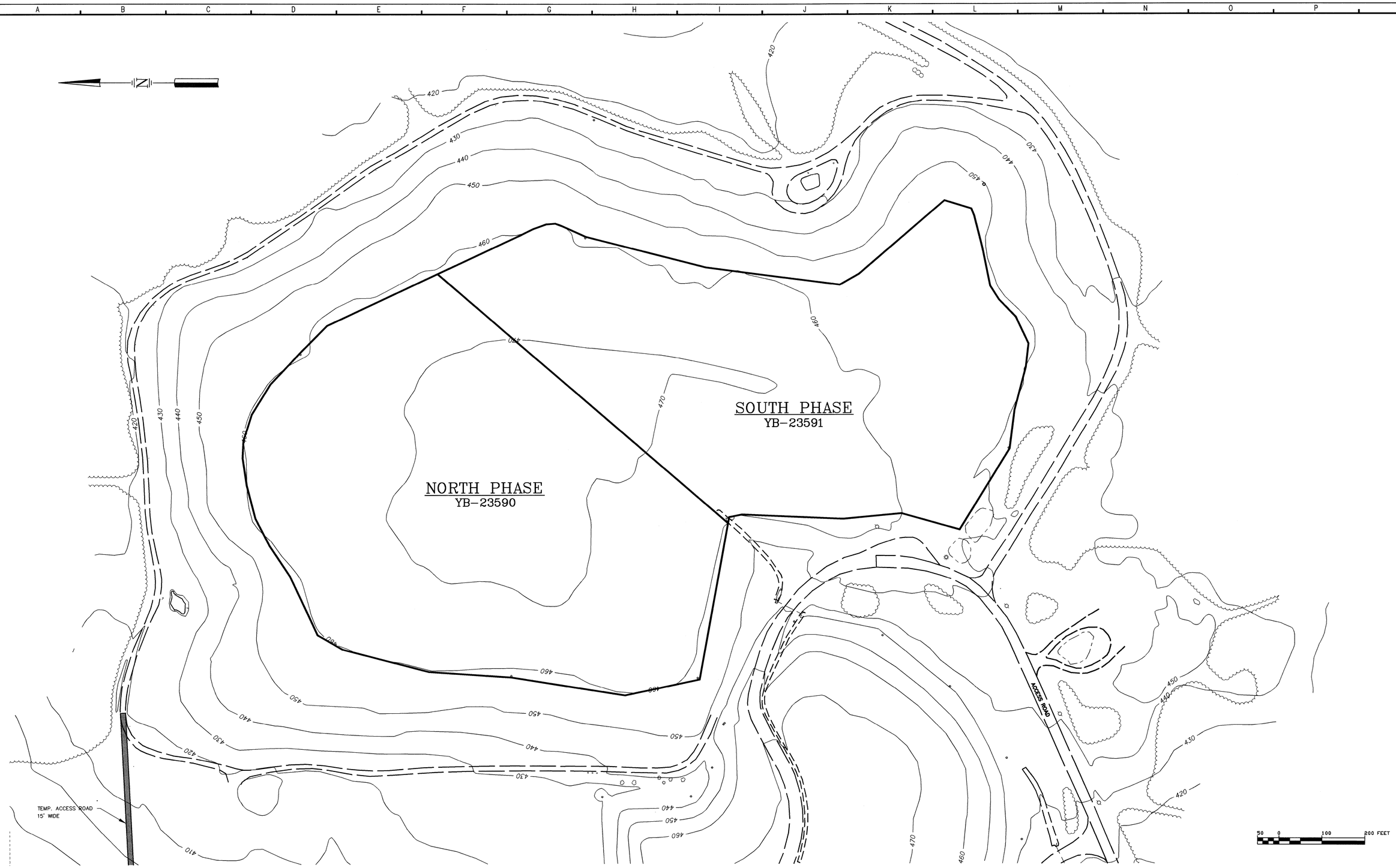
BOWATER
Great Northern Paper

EAST OPERATION

DOLBY II LANDFILL REGRADING
SITE LOCATION PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB–23588



STATE OF MAINE
PETER M MAHER
#4107
REGISTERED
PROFESSIONAL ENGINEER

BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.
NORRIDGEWOCK, MAINE – PHOTO DATE 10/23/95.
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE

STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		2/20/96	ISSUED FOR BID				
		2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	

ISSUE CODE
P – Prelim B – Bids
M – Mtl T.O. C – Const.
SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY II LANDFILL REGRADING
SITE DEVELOPMENT PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-23589

CATCH BASIN	INVERT IN	INVERT OUT	INVERT IN (12")
CB#31	355.9	355.8	
CB#32	358.75	358.65	
CB#33	373.25	373.15	
CB#34	391.20	391.10	
CB#35	407.20	407.10	
CB#36	410.55	410.45	
CB#37	412.05	411.95	412.45
CB#38	413.80	413.70	
CB#39	415.0	414.9	
CB#40	415.90	415.8	
CB#41	416.95	416.85	417.35
CB#42 NITC	418.4	418.3	
CB#43 NITC	420.0	419.9	
CB#44 NITC	438.6	438.5	
CB#45 NITC	441.6	441.5	
EXISTING CB (DOLBY II)NITC	EXISTING	421.0	421.5
CB#18 (DOLBY III)	422.2	423.2	423.7
CB#21 (DOLBY III)	445.6	446.7	447.2
CB#24 (DOLBY III)NITC	430.2	431.2	431.5

CB #36 A
N665097.23 YB-23593
E475426.80
RIM ELEV 421.96

CB #35 B
N665098.98 YB-23593
E475331.45
RIM ELEV 416.85

CB #34 B
N665066.69 YB-23593
E475091.96
RIM ELEV 401.10

CB #33 B
N665047.18 YB-23593
E474886.78
RIM ELEV 384.25

CB #32 B
N665026.43 YB-23593
E474663.76
RIM ELEV 366.15

CB #31 B
N665026.87
E474464.48
RIM ELEV 363.46

18" PERF SDR 35 PVC
18" SDR 35 PVC

TEMP. ACCESS ROAD
15' WIDE

CB #41 A
N664823.25 YB-23593
E476505.36
RIM ELEV 428.70

CB #40 A
N665043.23 YB-23593
E476398.63
RIM ELEV 424.67

CB #39 A
N665081.31 YB-23593
E476320.14
RIM ELEV 423.69

CB #38 A
N665048.65 YB-23593
E474051.79
RIM ELEV 423.69

CB #37 A
N665012.44 YB-23593
E475773.78
RIM ELEV 424.90

12" HDPE PIPE

DRAINAGE MANHOLE C
N664716.63
E476286.28
RIM ELEV 459.63
12" INV OUT 455.5
YB-23593

CONTAINMENT DIKE 1 YB-23593

SIDESLOPE PIPE (TYP) 2 YB-23593

LEACHATE COLLECTION MAIN 3 YB-23593

POND FILLED WITH COMMON BORROW

DRAINAGE MANHOLE C
N664728.93
E475768.87
RIM ELEV 459.13
12" INV OUT 454.9
YB-23593

DRAINAGE MANHOLE C
N663790.88
E478533.15
RIM ELEV 458.42
12" INV OUT 454.1
12" INV IN 454.3
YB-23593

DRAINAGE MANHOLE C
N664227.29
E475539.33
RIM ELEV 457.54
12" INV OUT 453.25
YB-23593

PIPE CAP
N663713.27
E475913.06

CB #21 (EXIST) DOLBY III

CB #18 (EXIST) DOLBY III

STATE OF MAINE
PETER M. MAHER #4107 REGISTERED
PROFESSIONAL ENGINEER

50 0 100 200 FEET

BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.
NORRIDGEWOCK, MAINE – PHOTO DATE 10/23/95.
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE

STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		1/16/97	RECORD DRAWING				
		2/20/96	ISSUED FOR BID				
		2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P – Prelim	B – Bids
M – Mtl T.O.	C – Const.
SCALE: AS SHOWN	

BOWATER
Great Northern Paper

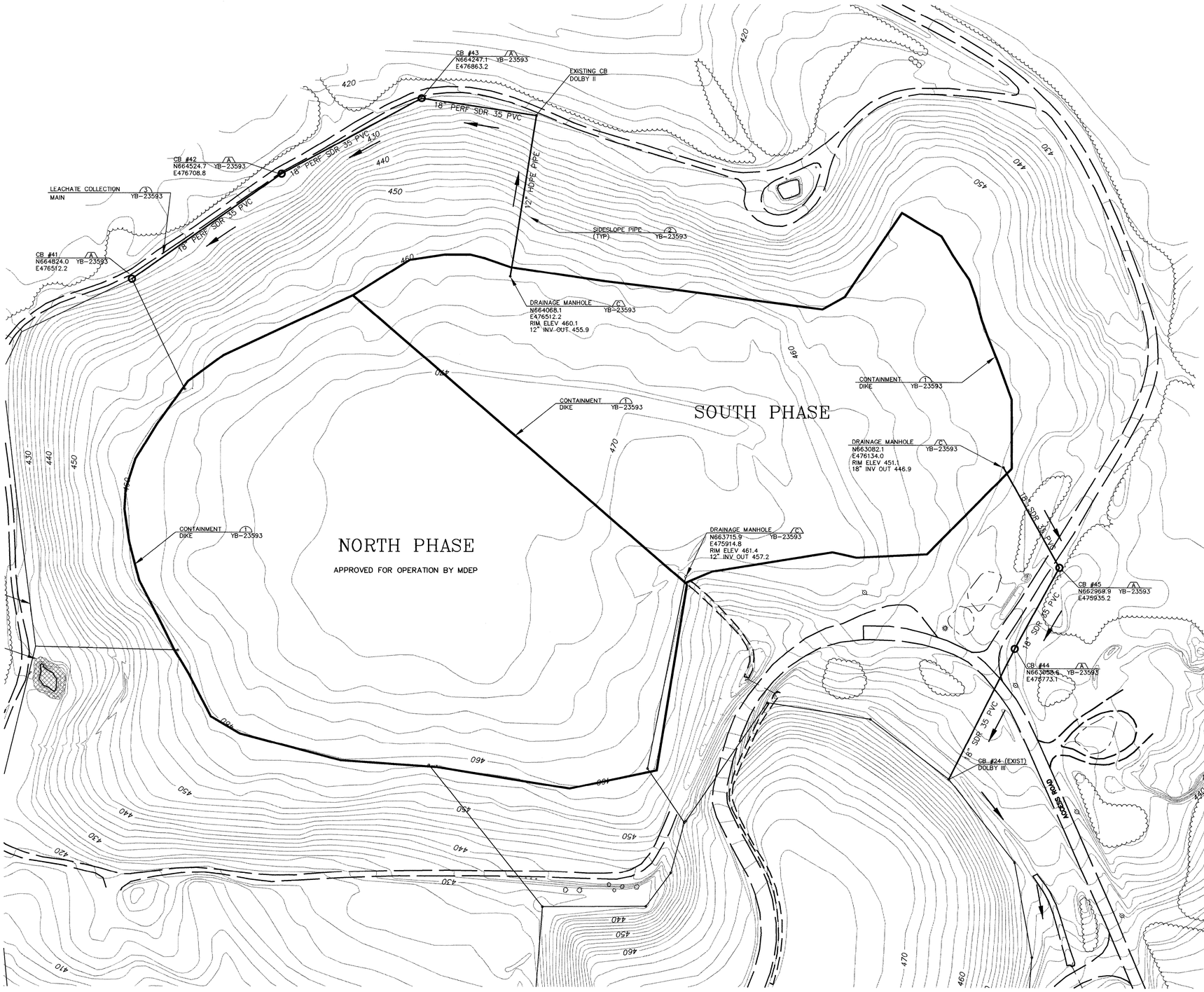
EAST OPERATION

DOLBY II LANDFILL REGRADING
DOLBY II NORTH SITE DEVELOPMENT PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23590

D:\GNP\ACAD\95548 Fri Jan 31 11:14:22 1997



CATCH BASIN	INVERT IN	INVERT OUT	INVERT IN (12")
CB#31	355.6	355.5	
CB#32	358.6	358.5	
CB#33	373.1	373.0	
CB#34	391.1	391.0	
CB#35	407.1	407.0	
CB#36	410.4	410.3	
CB#37	411.9	411.8	412.3
CB#38	413.5	413.4	
CB#39	414.9	414.8	
CB#40	415.4	415.3	
CB#41	416.6	416.5	417.0
CB#42	418.7	418.6	
CB#43	419.8	419.7	
CB#44	438.8	438.6	
CB#45	441.7	441.6	
EXISTING CB (DOLBY II)	EXISTING	421.2	421.5
CB#18 (DOLBY III)	422.2	423.2	423.7
CB#21 (DOLBY III)	445.6	446.7	447.2
CB#24 (DOLBY III)	430.2	431.2	431.5

STATE OF MAINE
PETER J. MAHER
14107
REGISTERED
PROFESSIONAL ENGINEER

BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.
NORRIDGEWOCK, MAINE – PHOTO DATE 10/23/95.
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE

STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				12/29/97	RECORD DRAWING				
				3/14/97	PROJECT STATUS TO MDEP	GHC			
				2/20/96	ISSUED FOR BID				
				2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	

ISSUE CODE: P – Prelim; B – Bids; M – Mtl T.O.; C – Const.

SCALE AS SHOWN

BOWATER
Great Northern Paper

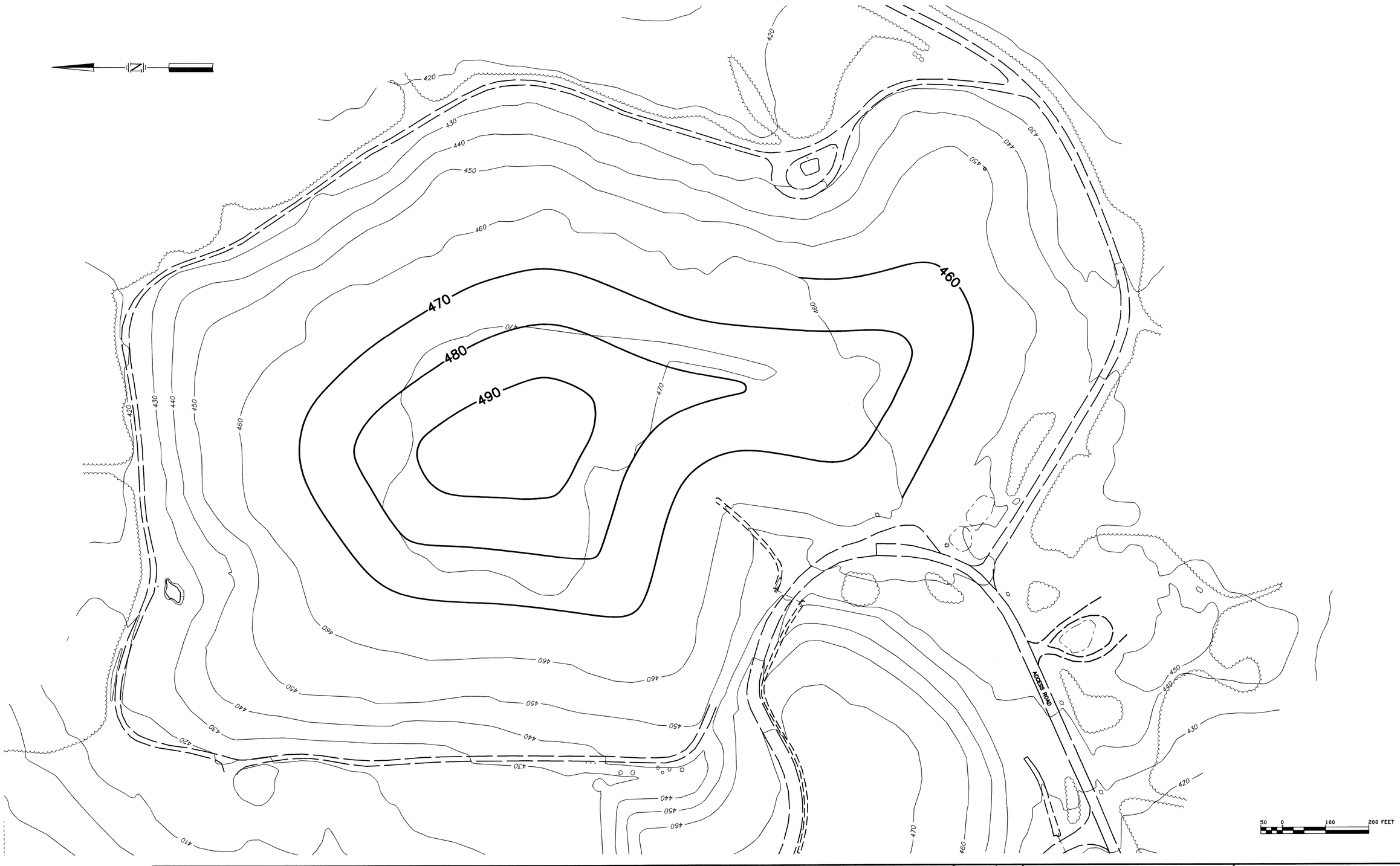
EAST OPERATION

DOLBY II LANDFILL REGRADING
DOLBY II SOUTH SITE DEVELOPMENT PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-23591

F:\GNP\ACAD\A359648.DWG Mon Dec 29 11:15:50 1997



STATE OF MAINE
PETER M. MAHER
#4107
REGISTERED
PROFESSIONAL ENGINEER

BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC.
NORRIDGEWOCK, MAINE – PHOTO DATE 10/23/95.
GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE

STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				2/20/96	ISSUED FOR BID				
				2/9/96	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95068

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P – Prelim	B – Bids
M – Mtl T.O.	C – Const.
SCALE AS SHOWN	

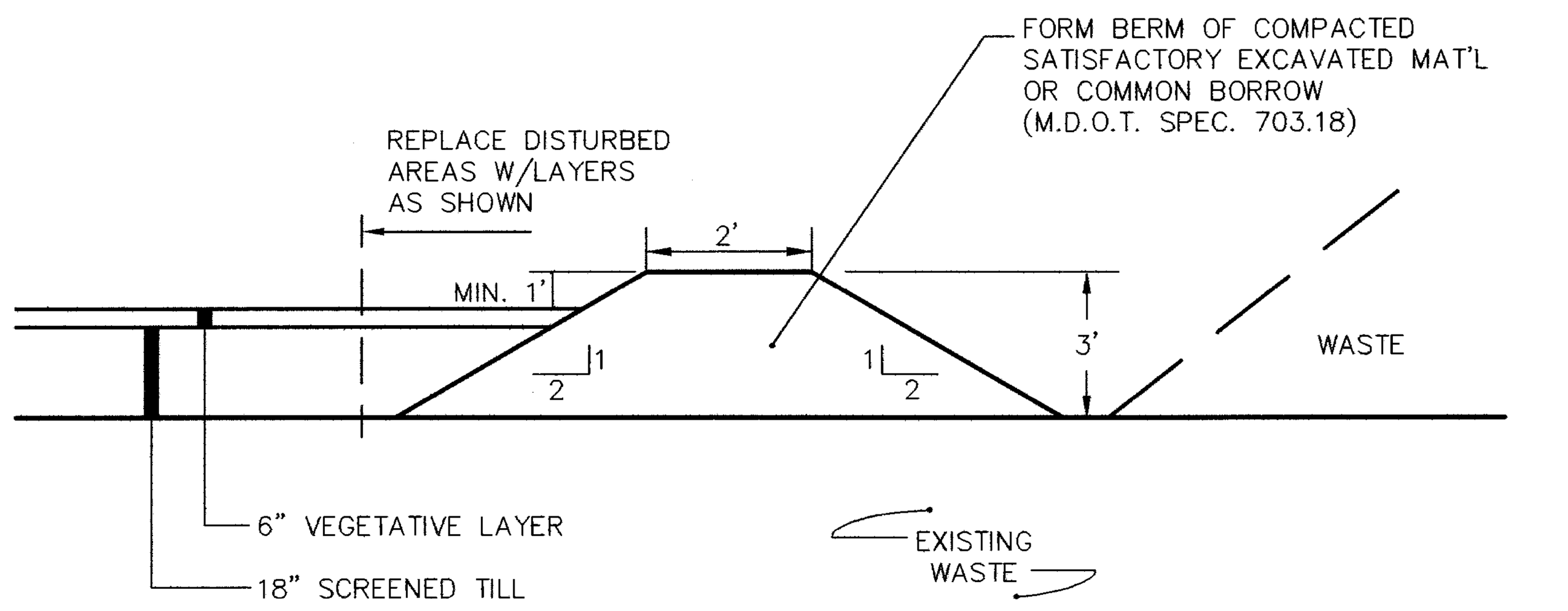
BOWATER
Great Northern Paper

EAST OPERATION

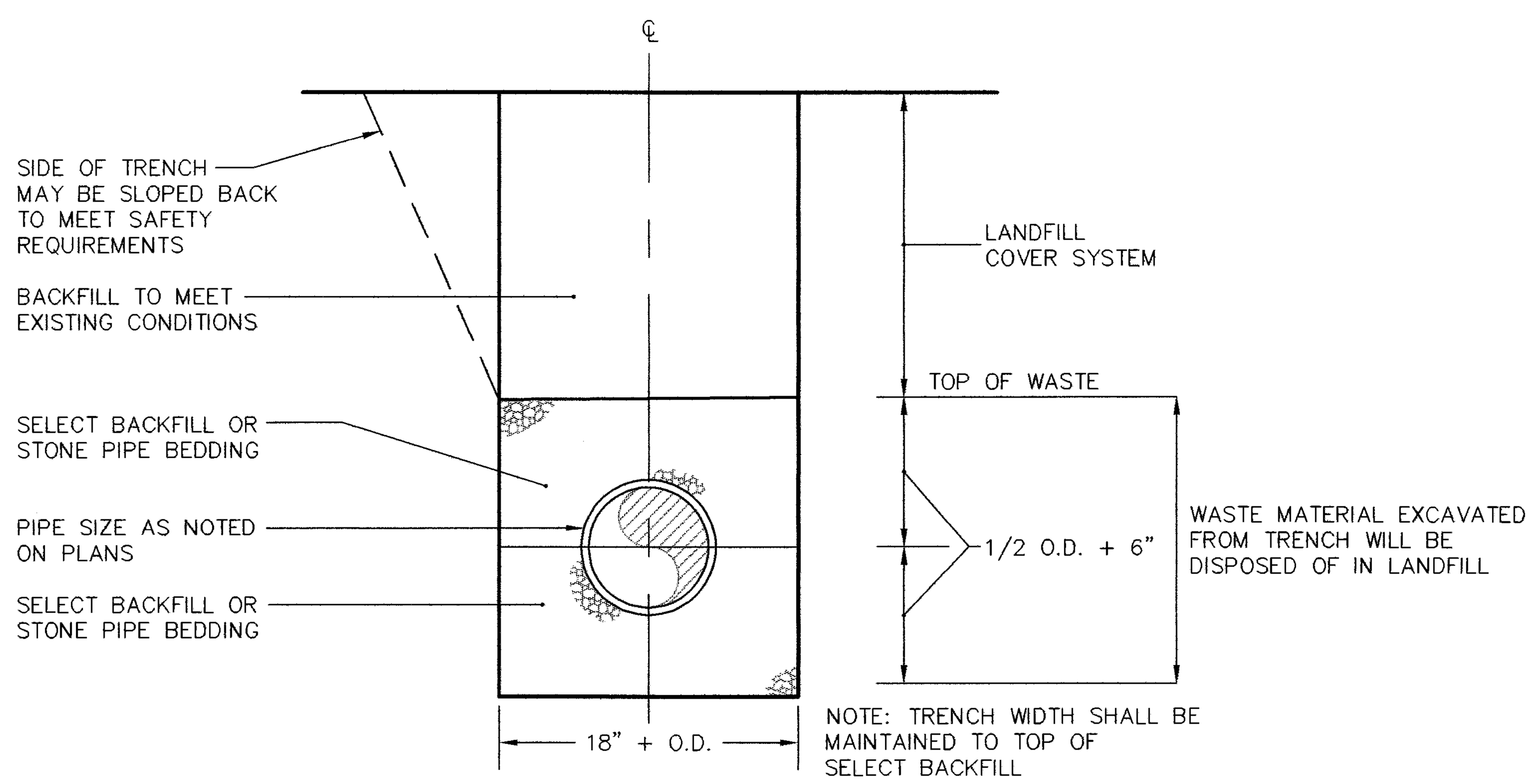
DOLBY II LANDFILL REGRADING FINAL GRADING PLAN

JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

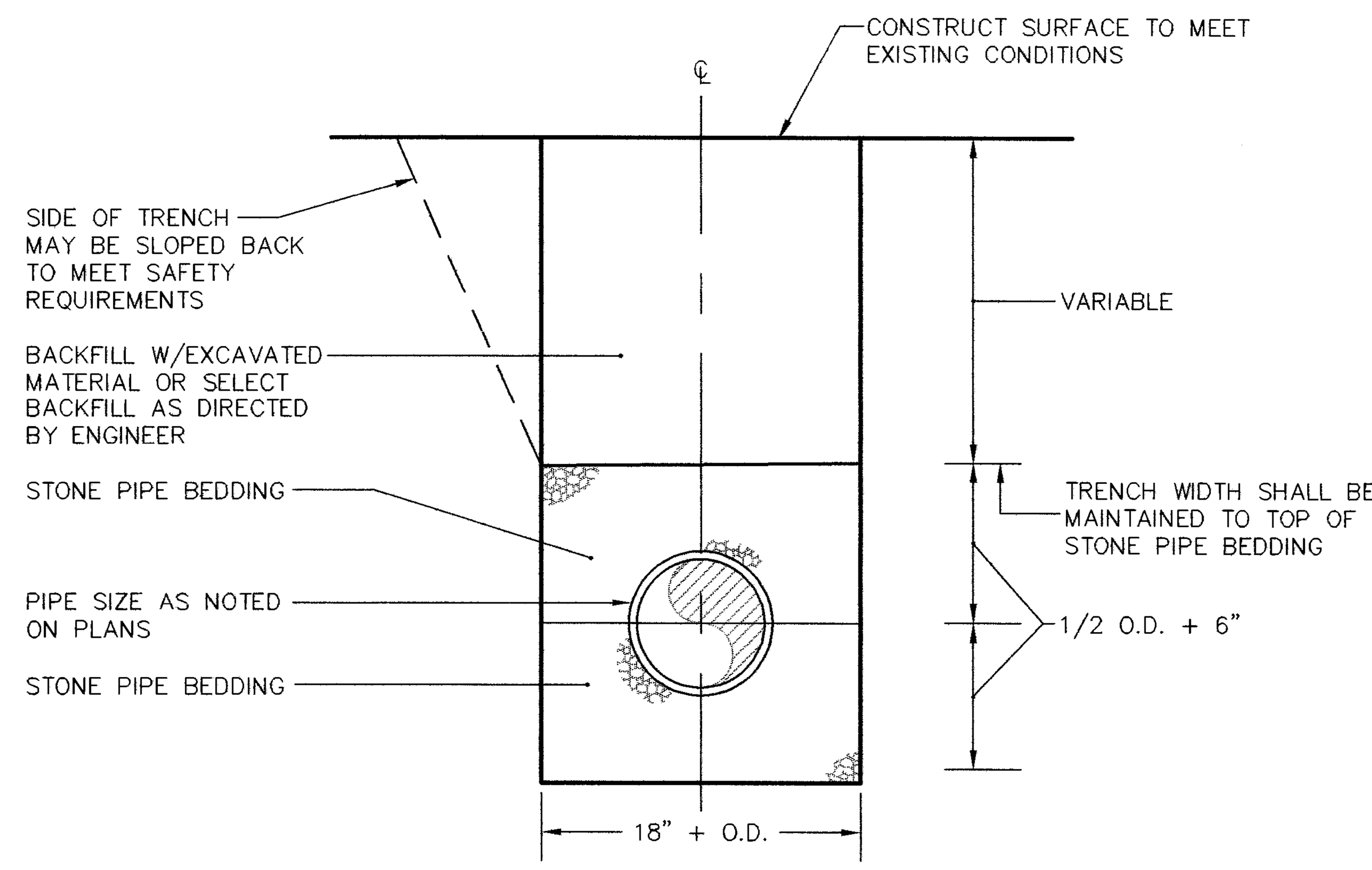
YB-23592



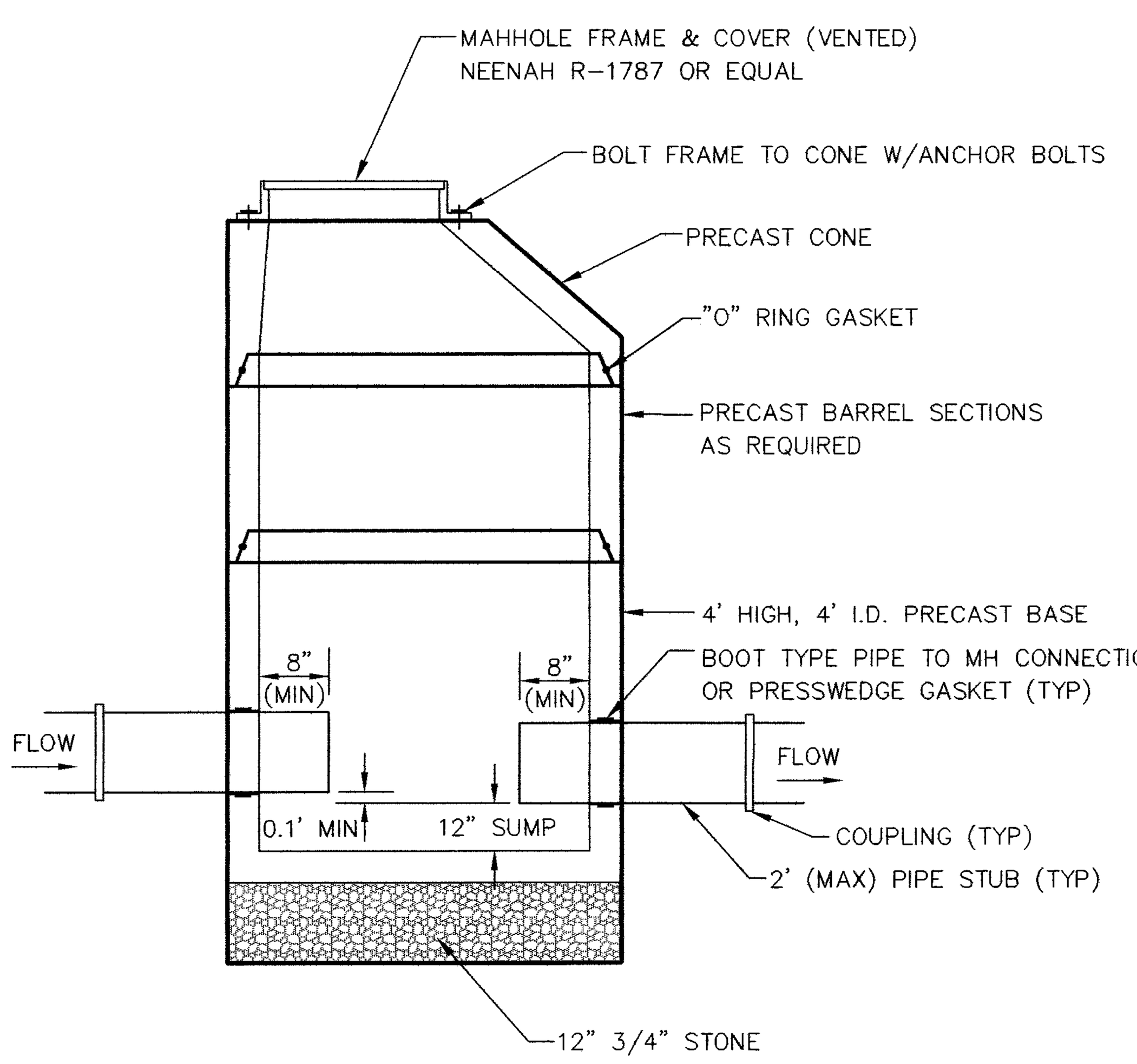
DIKE SECTION (1)
NTS
YB-23590
YB-23591



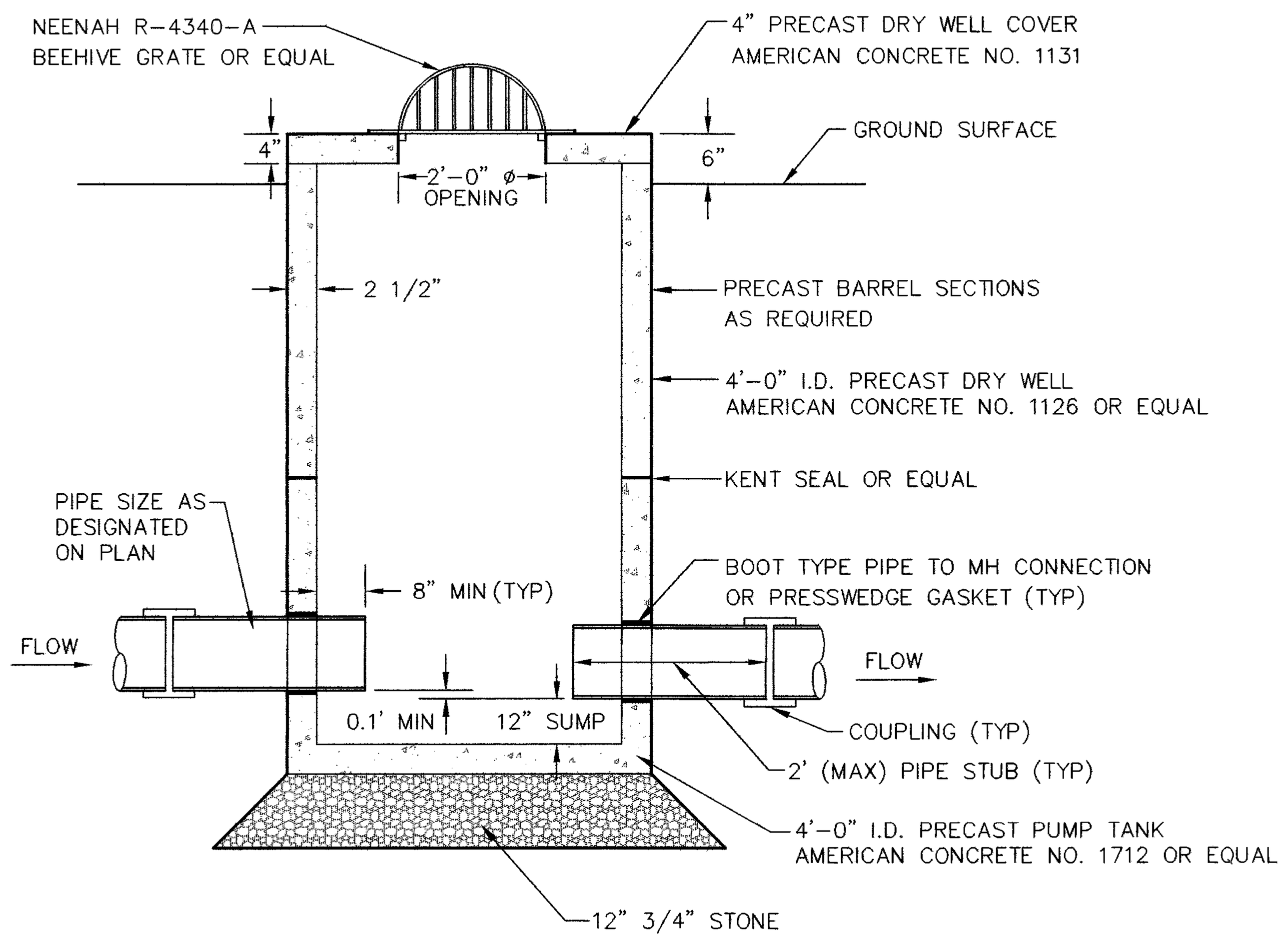
SIDESLOPE PIPE TRENCH (2)
NTS
YB-23590
YB-23591



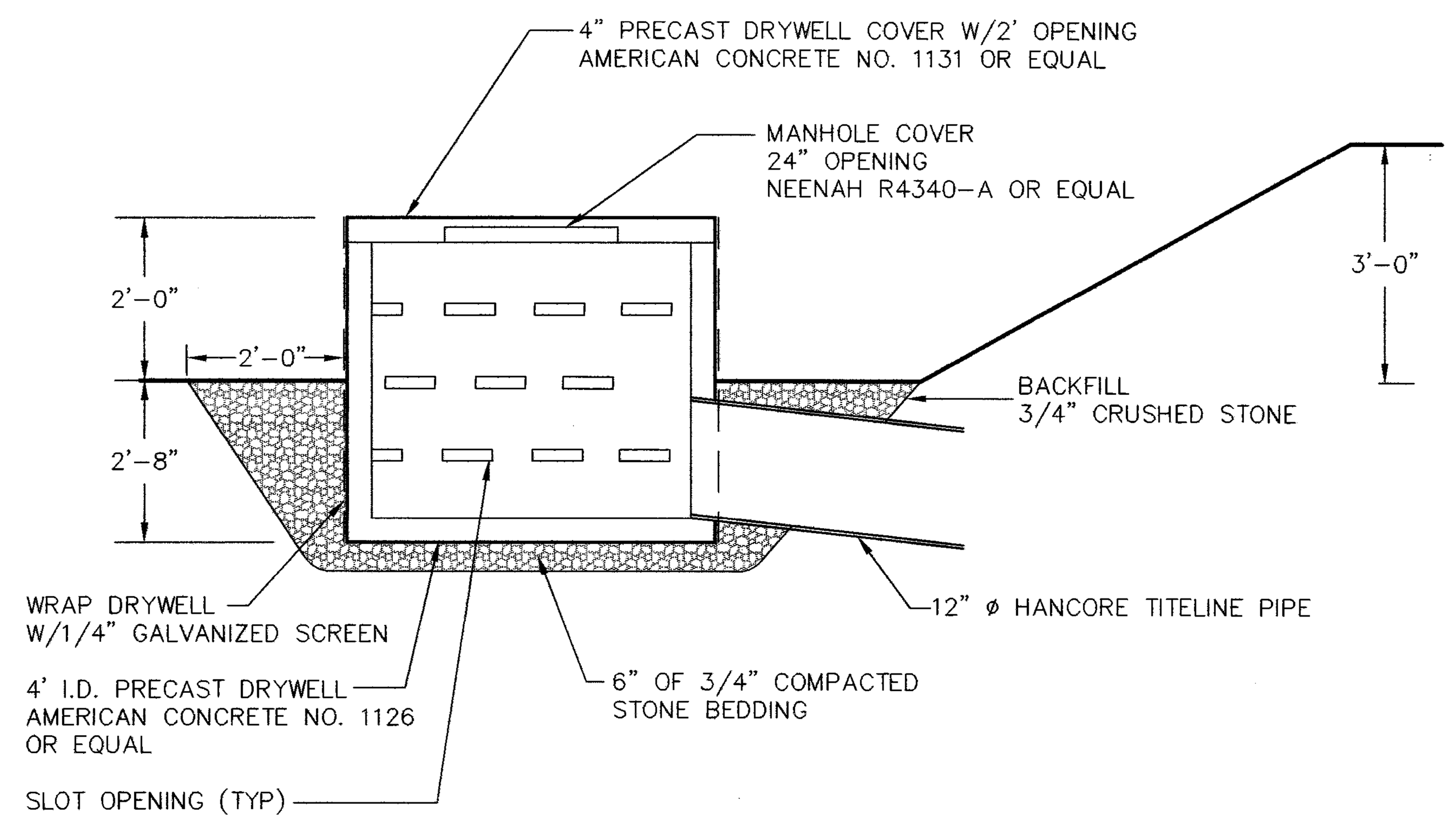
LEACHATE COLLECTION MAIN PIPE TRENCH (3)
NTS
YB-23590
YB-23591



TYPICAL MANHOLE (A)
NTS
YB-23590
YB-23591



CATCH BASIN (B)
NTS
YB-23590



DRAINAGE MANHOLE (C)
NTS
YB-23590
YB-23591

STATE OF MAINE — PETER H. MAHER — REGISTERED PROFESSIONAL ENGINEER

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		1/16/97	RECORD DRAWING				
		2/20/96	ISSUED FOR BID				
		2/9/96	SUBMITTED TO CLIENT				

DRAWING NO.	REFERENCE DRAWING TITLE

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE
JOB NO. 95068

DRN
CHK
CHK
CORR
APPVD
ISSUE CODE: P - Prelim; B - Bids; M - Mil T.O.; C - Const.
SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION
DOLBY II LANDFILL REGRADING SECTIONS & DETAILS
JOB NO. 67996
ENG. REQ. NO.
FILE NO. 2-092-4703.7082
YB-23593

D:\GNP\ACAD\DBII\DBIISD Mon Feb 10 14:03:57 1997

GENERAL NOTES:

1. THESE PLANS WERE COMPILED AND [illegible] BY [illegible] FROM PHOTOGRAPHS TAKEN ON 29 APRIL 1983. [illegible] PRACTICE [illegible] PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED [illegible] CONSTRUCTION.

2. HORIZONTAL GRID SYSTEM BASED [illegible].

3. VERTICAL DATUM BASED ON N.G.V.D. "MEAN SEA LEVEL = 0.00".

4. TEMPORARY BENCH MARKS USED FOR ESTABLISHING HORIZONTAL AND VERTICAL CONTROL [illegible] THIS PLAN ARE TWO PK NAILS (301 AND 302) SET BY [illegible] CO., [illegible] MAINE IN THE DOLBY NO. 2 [illegible].

5. LOCATIONS AND ELEVATIONS OF MONITORING WELLS AND PIEZOMETERS WERE ESTABLISHED BY [illegible] SURVEY PERFORMED BY [illegible] CO., AS LISTED BELOW:

POINT NUMBER	GROUND ELEVATION	TOP CASE ELEVATION	NORTH COORDINATE	EAST COORDINATE	POINT IDENTIFICATION
MW 105A	403.2	407.23	663,763.662	474,[illegible]	MONITORING WELL
MW 105B	403.2	407.56	663,766.521	474,543.[illegible]38	MONITORING WELL
MW 106A	399.7	401.06	664,660.567	475,[illegible]20.443	MONITORING WELL
MW 106B	400.7	400.97	664,656.628	475,[illegible]24.380	MONITORING WELL
MW 107A	353.3	357.30	663,705.283	473,[illegible]	MONITORING WELL
MW 107B	353.3	3[illegible].7[illegible]	663,700.447	473,[illegible]	MONITORING WELL
MW 203	399.4	40[illegible]	664,660.612	[illegible]	MONITORING WELL
MW 204A	421.9	424.44	663,404.458	47[illegible],[illegible]	MONITORING WELL
MW 204B	421.6	42[illegible].92	663,399.767	47[illegible],430.772	MONITORING WELL
MW 301	348.51	352.41	664,652.120	473,[illegible]	MONITORING WELL
MW 302A	350.66	353.64	66[illegible],063.941	474,[illegible]	MONITORING WELL
MW 302B	349.71	353.31	66[illegible],060.795	473,[illegible]	MONITORING WELL
P 302	349.77	353.37	665,062.601	474,004.035	PIEZOMETER
MW 303A	385.46	389.0[illegible]	66[illegible],384.074	47[illegible],101.348	MONITORING WELL
MW 303B	385.62	389.42	66[illegible],393.206	47[illegible],096.371	MONITORING WELL
MW 304A	347.47	350.95	664,148.941	473,7[illegible].44[illegible]	MONITORING WELL
MW 304B	347.34	351.04	664,148.8[illegible]7	473,7[illegible].059	MONITORING WELL
MW 304C	347.64	350.93	664,149.244	473,745.826	MONITORING WELL
MW 305A	406.9[illegible]	409.82	662,985.269	474,7[illegible]	MONITORING WELL
MW 305B	406.63	409.20	662,981.740	474,72[illegible].761	MONITORING WELL
P 306A	367.66	370.96	663,312.231	474,014.956	PIEZOMETER
P 306B	367.66	370.96	663,312.231	474,014.956	PIEZOMETER
P 307A	365.2	368.74	663,705.417	474,3[illegible].739	PIEZOMETER
P 307B	365.2	368.74	663,705.417	474,3[illegible].739	PIEZOMETER
P 307C	365.89	368.99	663,705.150	474,326.761	PIEZOMETER
P 308[illegible]	361.50	365.82	664,442.485	474,381.134	PIEZOMETER
P 308[illegible]	361.50	365.82	664,442.485	474,381.134	PIEZOMETER
MW 309		426.44	664,004.451	47[illegible]	MONITORING WELL

6. TEST PIT LOCATIONS PERFORMED BY E. C. JORDAN CO. WERE DETERMINED BY PACING AND [illegible] METHODS AND ARE APPROXIMATE ONLY.

TEMPORARY BENCH MARK 302 [illegible] NAIL IN PAVEMENT [illegible]

DRAWING NO.	REFERENCE DRAWING TITLE
YB-14634	TOPOGRAPHIC MAP PROPOSED DOLBY 3 LANDFILL AREA

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

E.C.JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

DRN	LEDUC	11/20/83
CKD	MAHER	12/10/83
CKD	RS JR	12/10/83
CORR	W.H.N.	12-13-83
APPVD	O.J.L.	12-19-83

ISSUE CODE
P PRELIM B BIDS
M MILL O.O. C CONST
SCALE 1"=100'

Great Northern Paper
a company of Great Northern Nekoosa Corporation

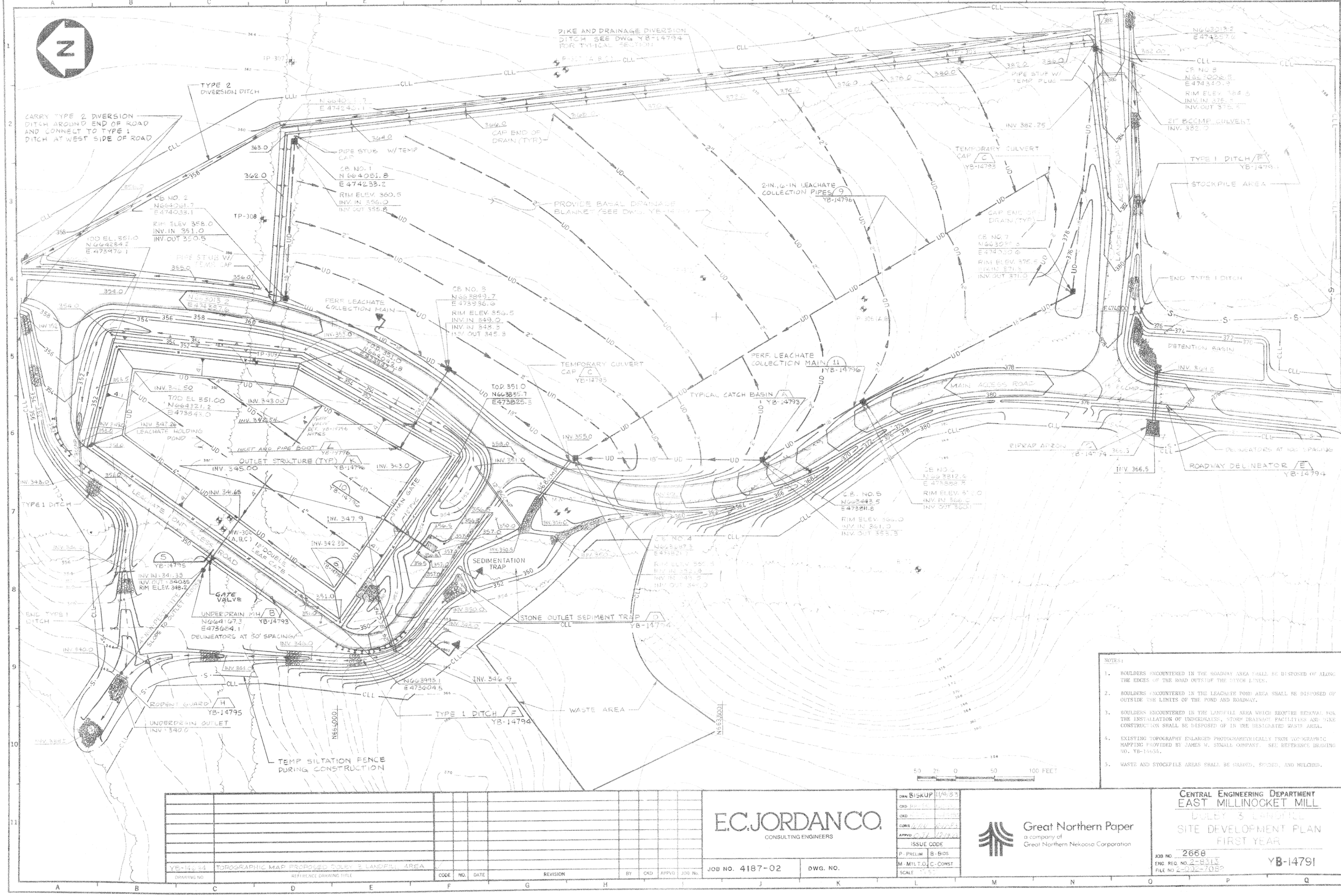
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL

EXISTING TOPOGRAPHY MAP

JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO. 4-092-7082

YB-14790
SHEET 1 OF 2


MATCH LINE
LEGEND
TEMPORARY BENCH MARK
APPROXIMATE CONSTRUCTION LIMIT
APPROXIMATE LANDFILL LIMIT
NOTES:
1. SEE GENERAL NOTES ON SHEET 1.
TEMPORARY BENCH MARK 301
PK NAIL IN PAVEMENT
N 662 541.639
E 474 481.396
ELEV. 399.89
LANDFILL LIMIT
NOTE:
PARTRIDGE BROOK FLOWAGE
WATER LEVEL 339.3, MAY 10, 1983
MW-303(A,B)
MW-106(A,B)
B-28
MW-105(A,B)
TP-316
TP-312
TP-310
TP-306
TP-305
P-308(A,B)
TP-311
TP-307
P-307(A,B,C)
TP-303
TP-308
TP-302
P-306(A,B)
MW-302(A,B)
P-302
TP-309
MW-301
MW-107(A,B)
MW-304(A,B,C)
B-70
B-69
E 475,000
E 474,500
E 474,000
E 473,500
N 665,000
N 664,500
N 664,000
N 663,500
N 663,000
N 662,500
0 50 0 100 200 FEET
YB-14634 TOPOGRAPHIC MAP PROPOSED DOLBY 3 LANDFILL AREA
REVISION
BY CKD APPVD JOB No.
E.C.JORDAN CO.
CONSULTING ENGINEERS
JOB NO. 4187-02
DWG. NO.
DRN LEDUC 11/10/83
CKD MAHER 12/16/83
CKD RSTR 12/16/83
CORR WAN 12-17-83
APPVD OJL 12-19-83
ISSUE CODE
P - PRELIM B - BIDS
M - MTL T.O. C - CONST
SCALE 1"=100'
Great Northern Paper
a company of
Great Northern Nekoosa Corporation
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
EXISTING TOPOGRAPHY MAP
JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO 2-092-7082
YB-14790
SHEET 2 OF 2



NOTES:

1. BOULDERS ENCOUNTERED IN THE ROADWAY AREA SHALL BE DISPOSED OF ALONG THE EDGES OF THE ROAD OUTSIDE THE DITCH LINES.
2. BOULDERS ENCOUNTERED IN THE LEACHATE POND AREA SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE POND AND ROADWAY.
3. BOULDERS ENCOUNTERED IN THE LANDFILL AREA WHICH REQUIRE REMOVAL FOR THE INSTALLATION OF UNDERDRAINS, STORM DRAINAGE FACILITIES AND DIKE CONSTRUCTION SHALL BE DISPOSED OF IN THE DESIGNATED WASTE AREA.
4. EXISTING TOPOGRAPHY ENLARGED PHOTOGRAMMETRICALLY FROM TOPOGRAPHIC MAPPING PROVIDED BY JAMES W. SEWALL COMPANY. SEE REFERENCE DRAWING NO. YB-14634.
5. WASTE AND STOCKPILE AREAS SHALL BE GRADED, SEEDED, AND MULCHED.

DRAWING NO.	REFERENCE DRAWING TITLE
YB-14791	TOPOGRAPHIC MAP PROPOSED DOLEY 3 LANDFILL AREA

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

DRN BISKUP 11/6/87
CKD
CKD
CORR
APPVD

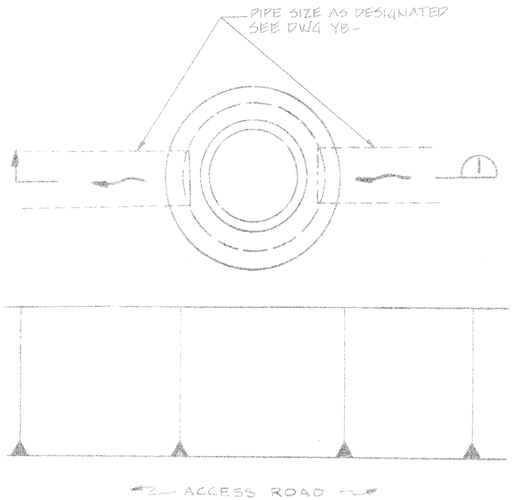
ISSUE CODE
P - PRELIM. B - BIDS
M - MTL T.O. C - CONST
SCALE 1"=50'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

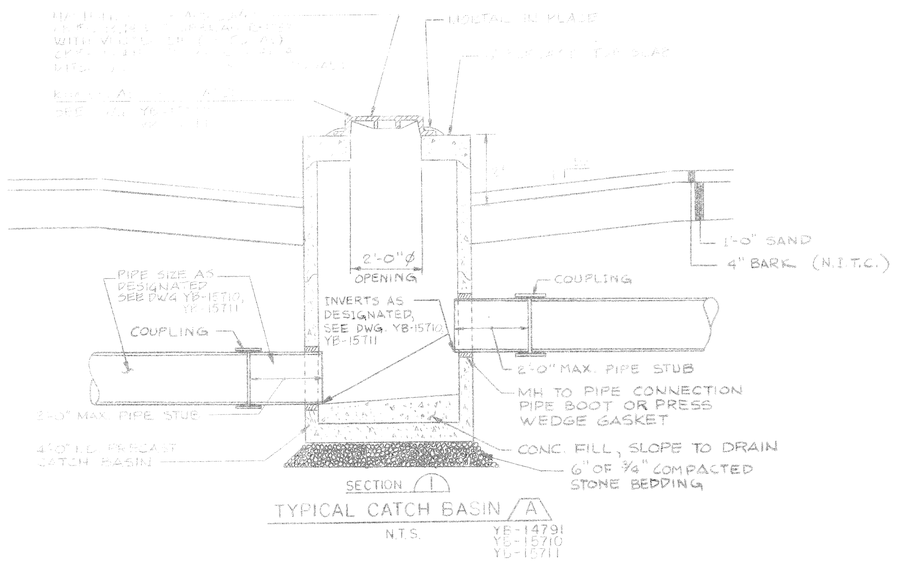
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLEY 3 LANDFILL
SITE DEVELOPMENT PLAN
FIRST YEAR

JOB NO. 2668
ENG. REQ. NO. 2-8512
FILE NO 2-002-7082

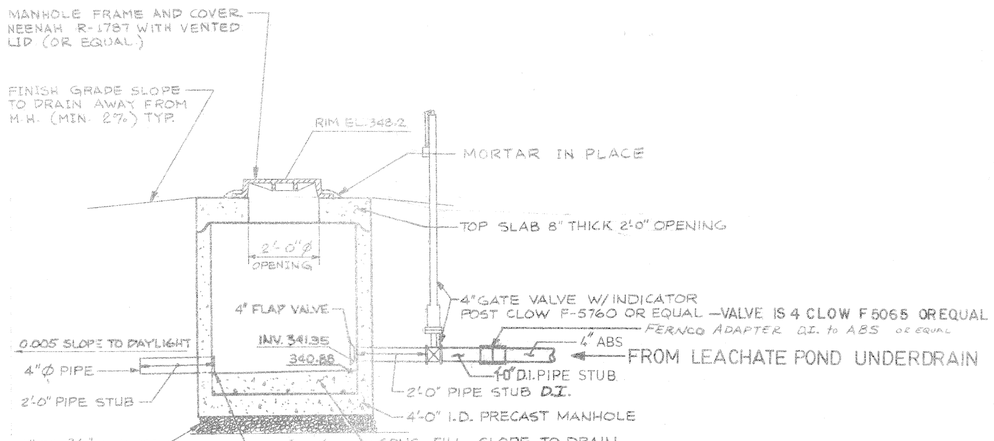
YB-14791



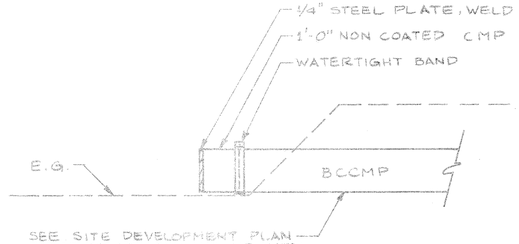
PLAN



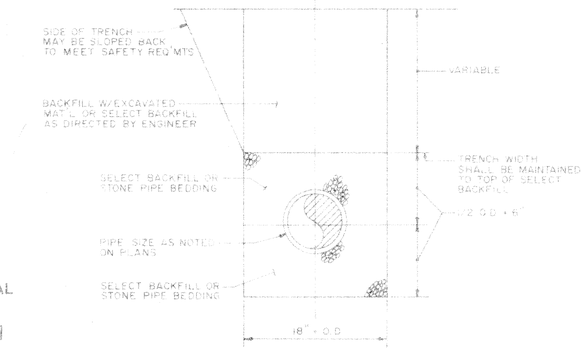
TYPICAL CATCH BASIN /A
N.T.S. YB-14791 YB-15710 YB-15711



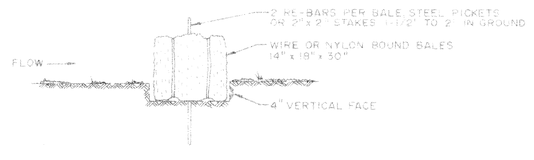
UNDERDRAIN MANHOLE /B
NTS YB-14791



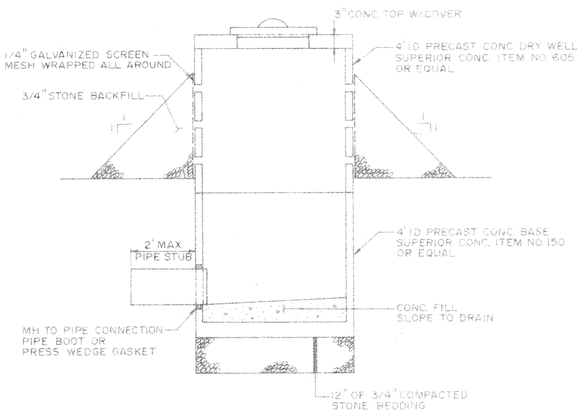
TEMPORARY CULVERT CAP /C
N.T.S. YB-14791



PIPE TRENCH /12
N.T.S. YB-15710 YB-15711



STRAW BALE DIKE /N
N.T.S. YB-15711



POND INLET /P
N.T.S. YB-15710

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		C	A	5/24/87	GENERAL REVISION FOR JOB # 84478 CELL 2	MJC	ECS/WHN		84478

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE
E.C. JORDAN CO.
CONSULTING ENGINEERS
JOB NO. 4187-02 DWG. NO.

DRN	MS/RDC	12/1/83
CKD	MAHER	12/16/83
CKD	RS JR.	12/16/83
CORR	WHN	12-17-83
APPVD	CJL	12-19-83

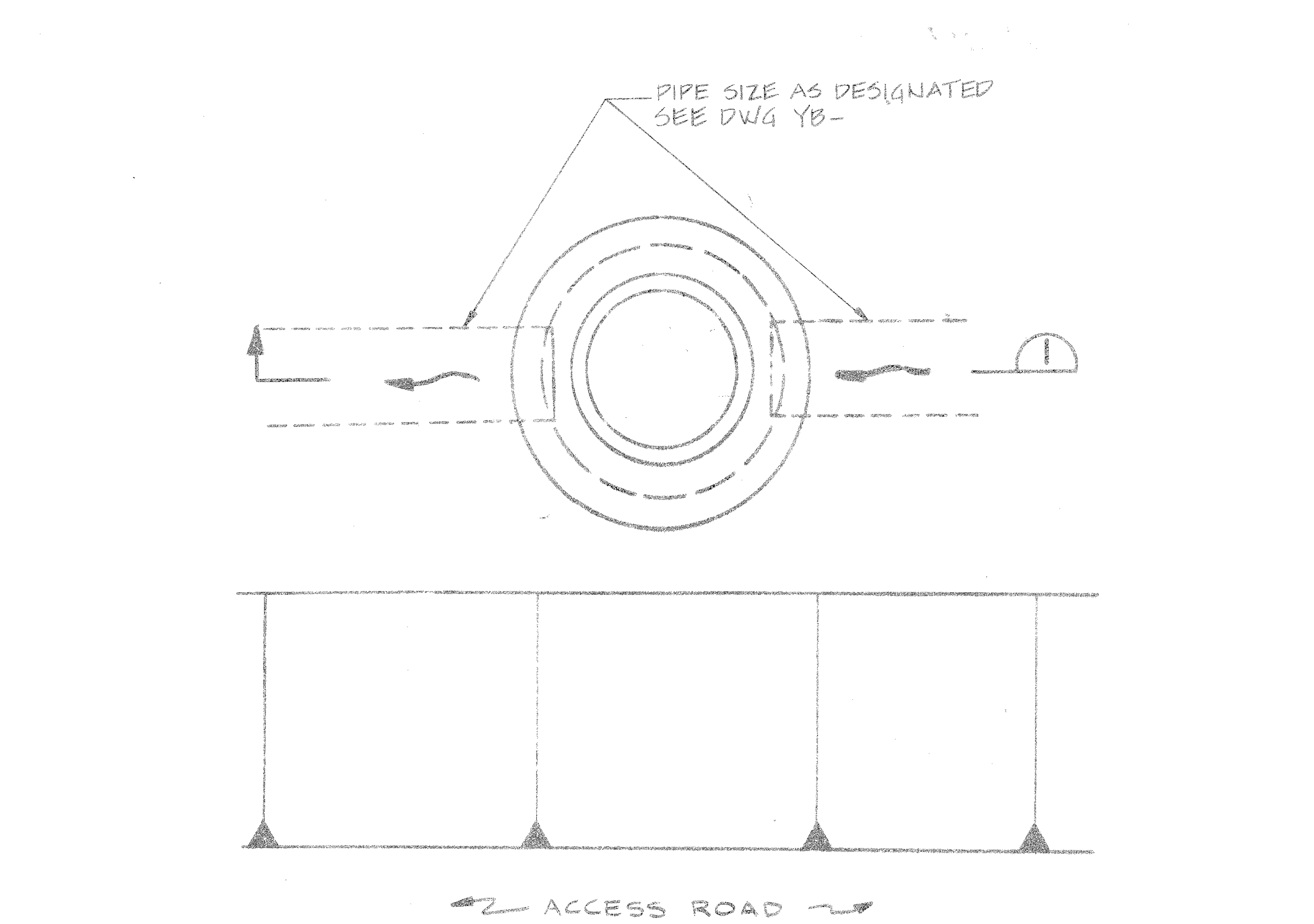
ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST
SCALE: AS NOTED

Great Northern Paper
a company of Great Northern Nekoosa Corporation

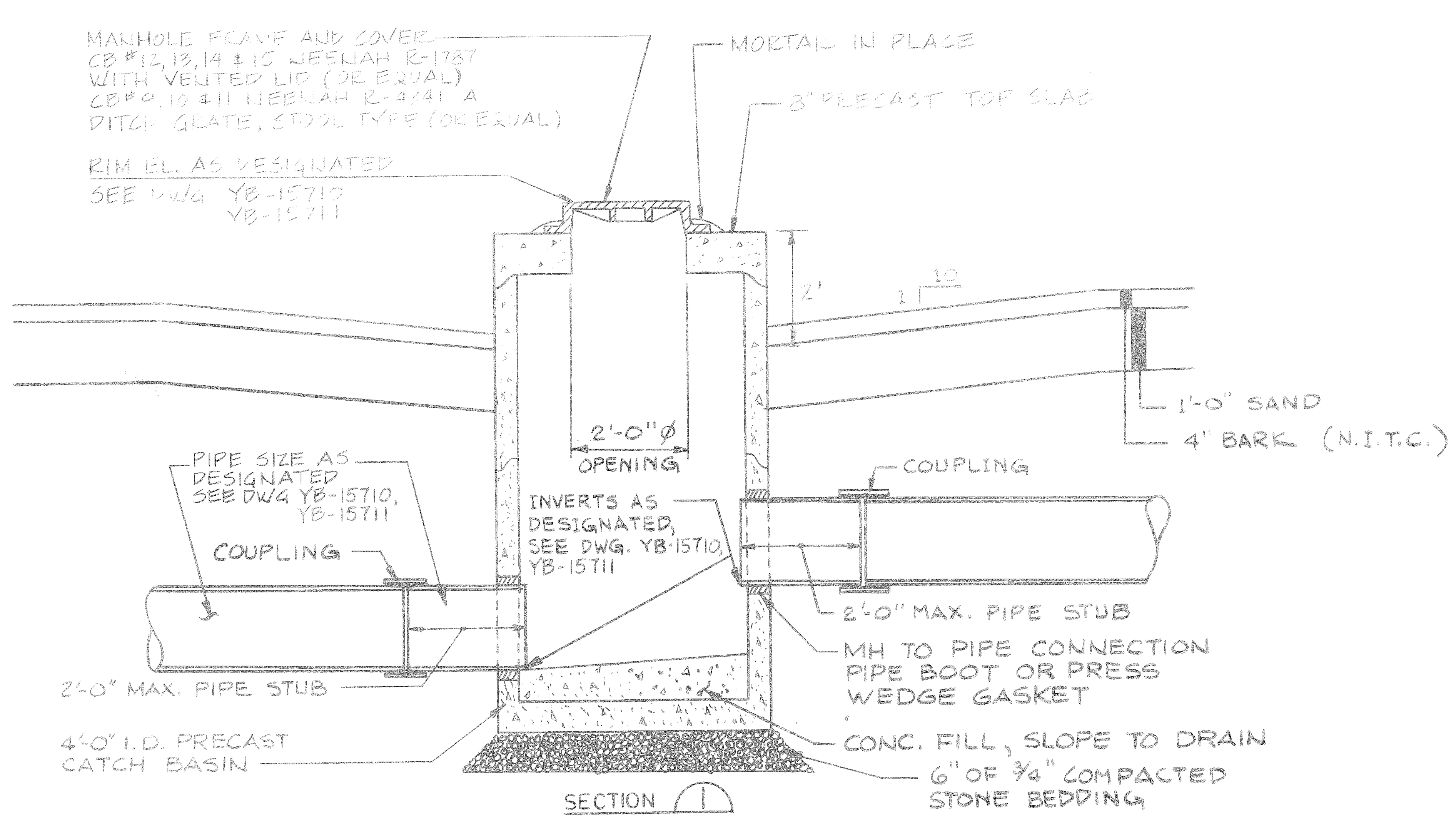
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
LANDFILL AREA
DRAINAGE DETAILS

JOB NO. 2668
ENG. REQ. NO. 4-E313
FILE NO. 2-092-7.08

YB-14793-A

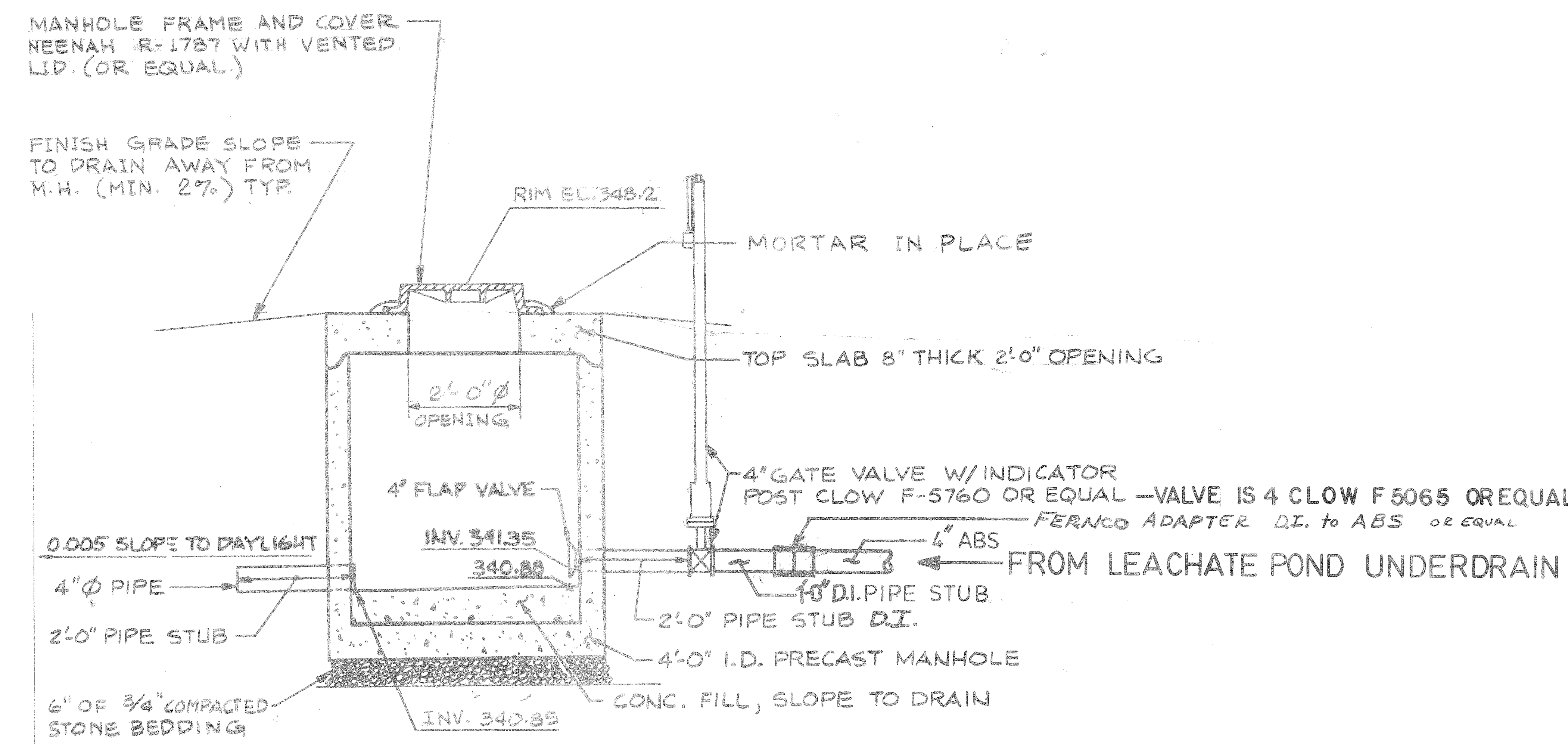


PLAN

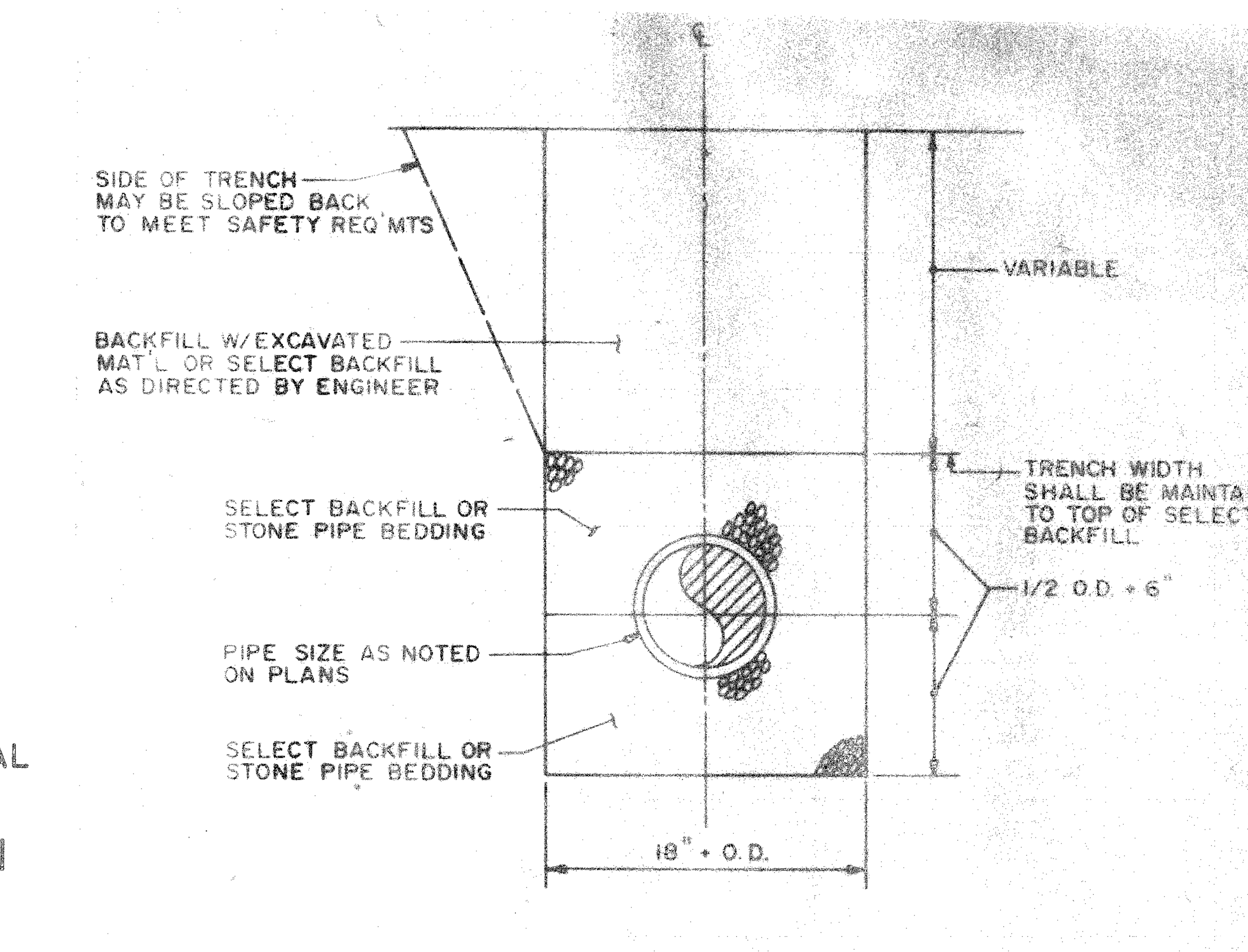


SECTION 1

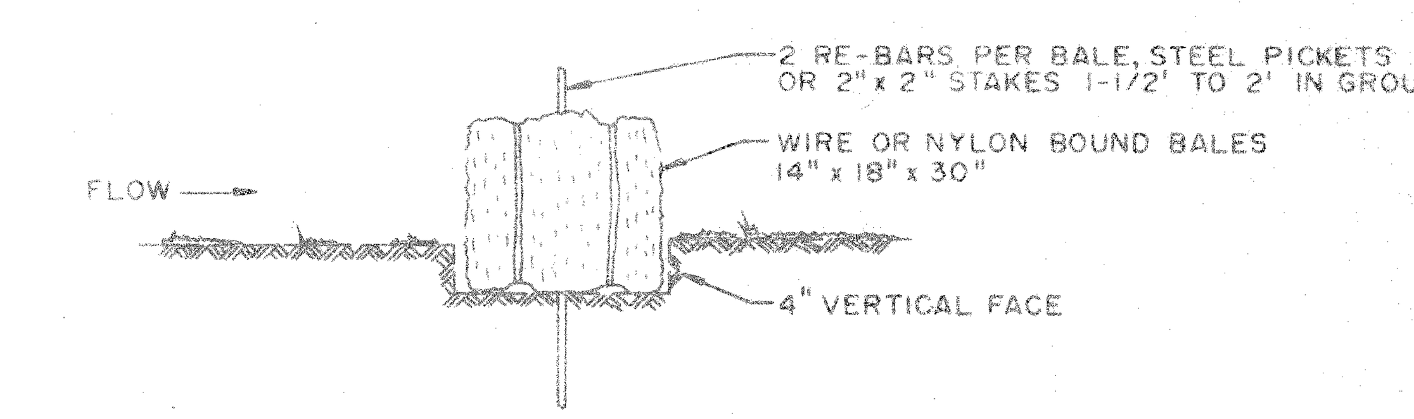
TYPICAL CATCH BASIN /A
N.T.S. YB-14791 YB-15710 YB-15711



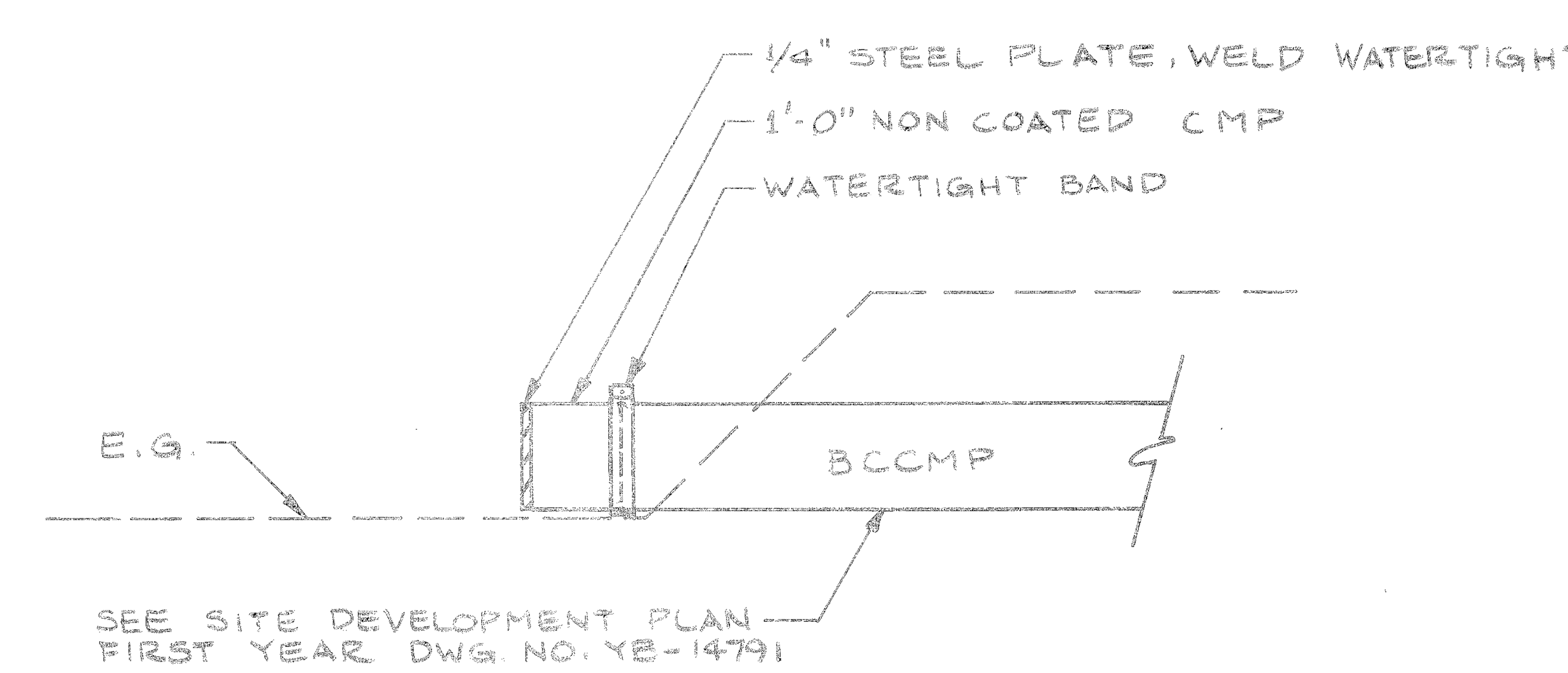
UNDERDRAIN MANHOLE/B
NTS YB-14791



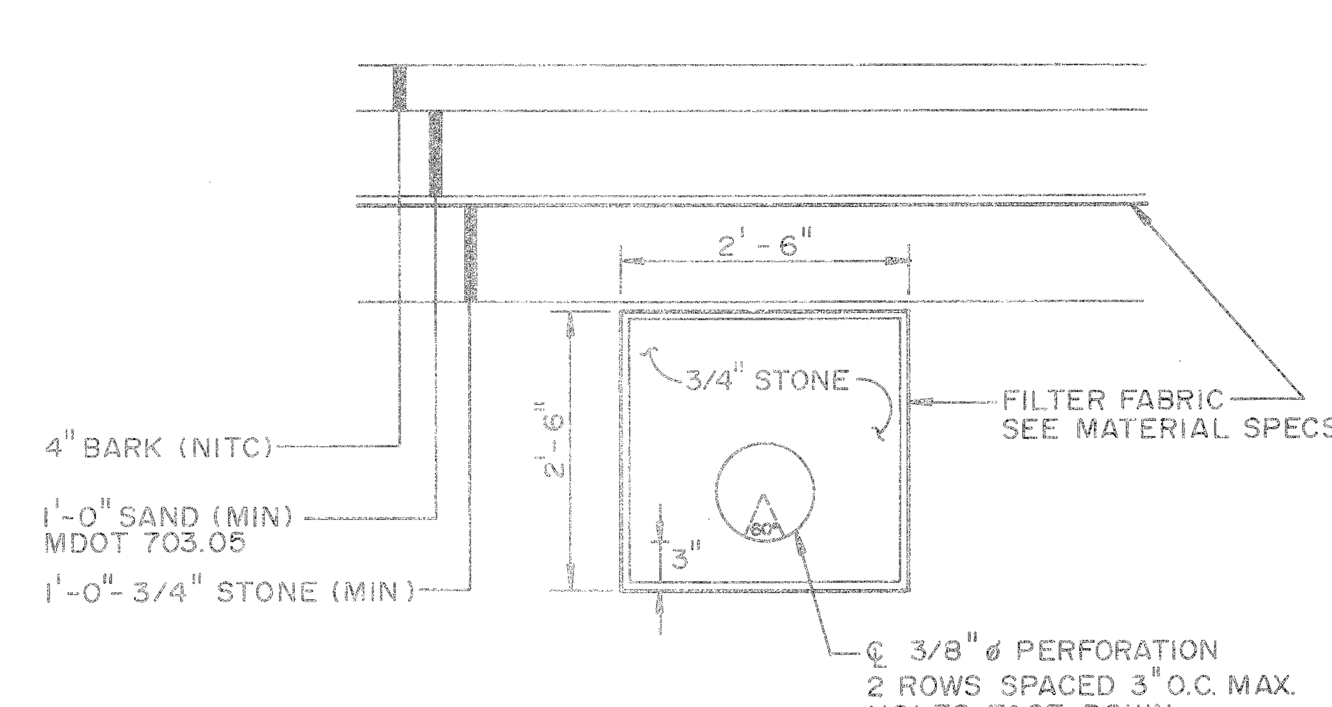
PIPE TRENCH /12
N.T.S. YB-15710 YB-15711



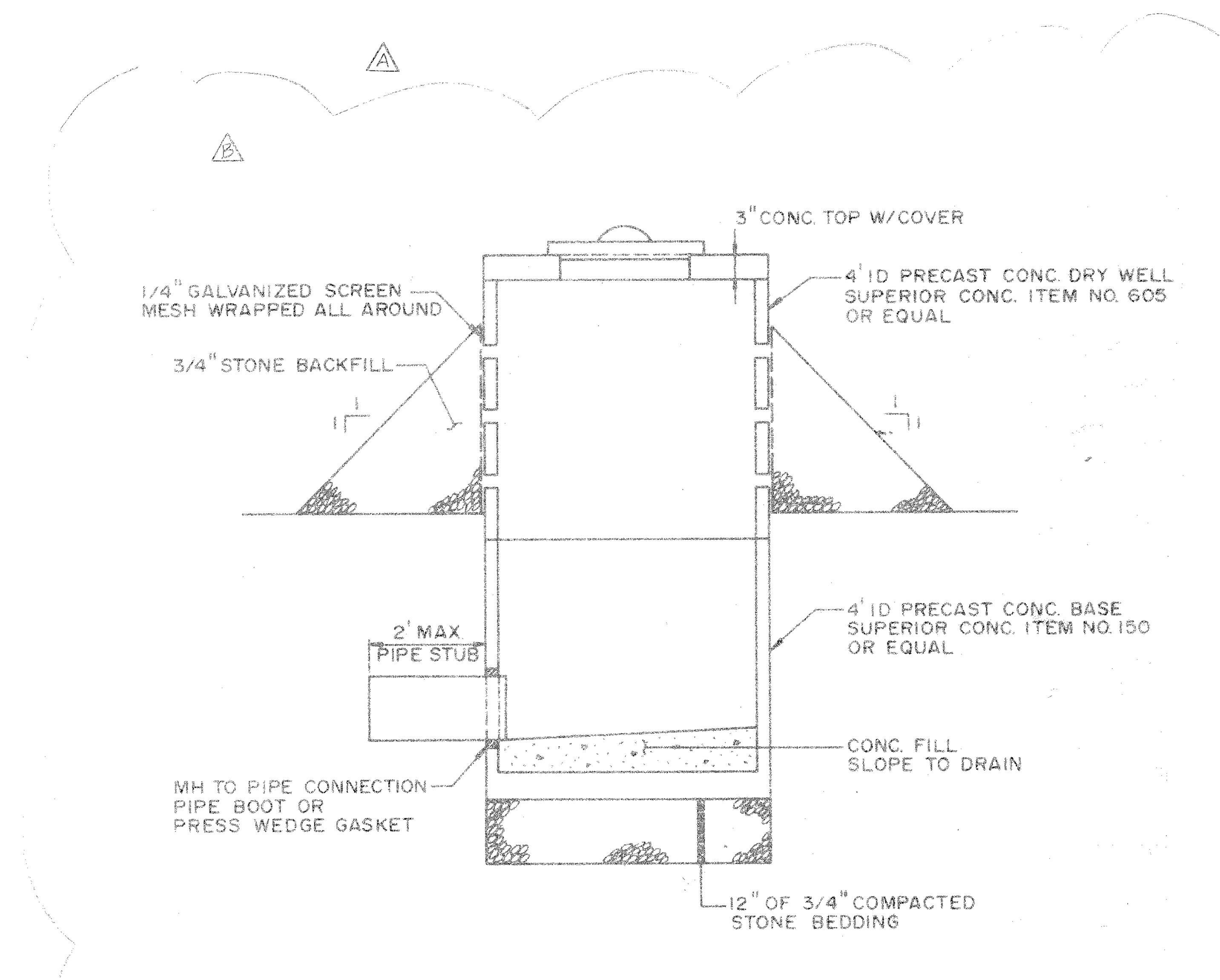
STRAW BALE DIKE /N
NTS YB-15711



TEMPORARY CULVERT CAP /C
N.T.S. YB-14791



AREA DRAIN-CELL 2 /13
N.T.S. YB-15711A



POND INLET /P
N.T.S. YB-15710

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
C		10/20/87	RECORD DRAWING	MAC			
C	B	7/16/87	NOT IN THIS CONTRACT	MAC			
C	A	5/26/87	GENERAL REVISION FOR JOB # 94473 CELL 2	MAC	ECS	WAN	94473

DRAWING NO.	REFERENCE DRAWING TITLE

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

DRN	MB/RDC	12/1/83
CKD	MAHER	12/16/83
CKD	RSJE	12/16/83
CORR	WGN	12-17-83
APPVD	OJL	12-19-83

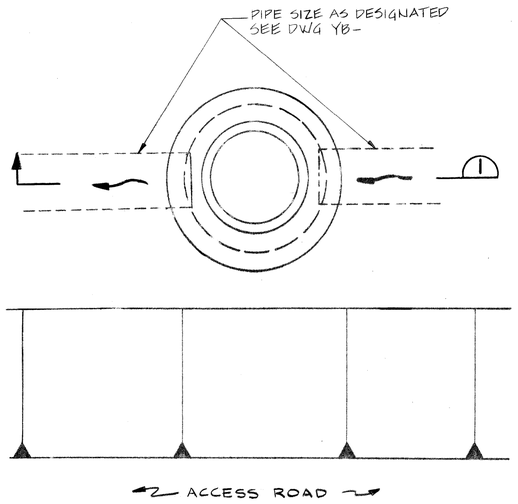
ISSUE CODE: P - PRELIM, B - BIDS, M - MTL T.O., C - CONST
SCALE AS NOTED

Great Northern Paper
a company of Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
LANDFILL AREA
DRAINAGE DETAILS

JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO. 2-092-7082

YB-14793-B



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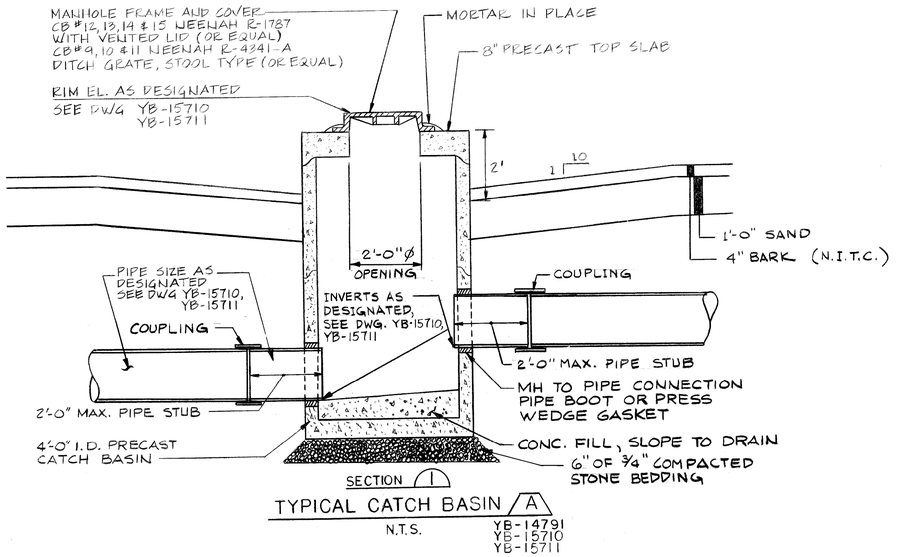
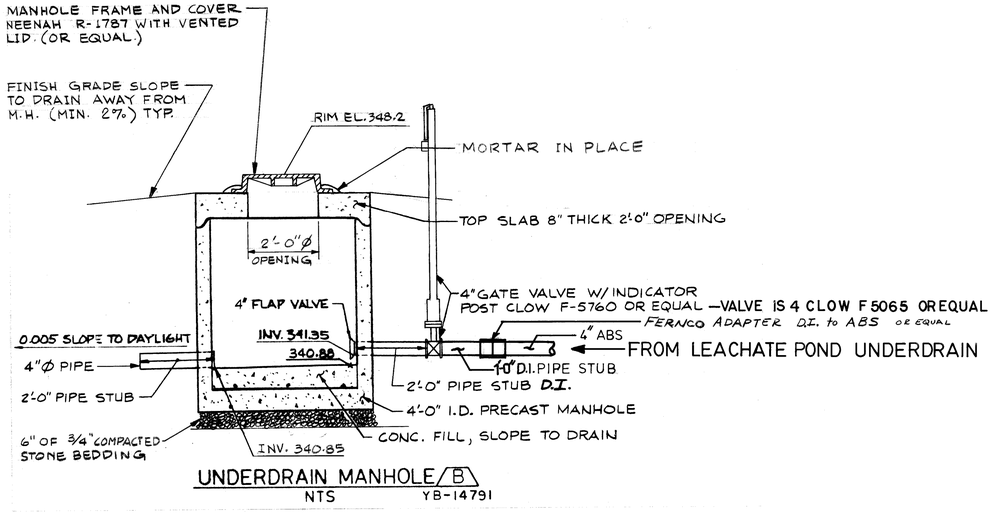
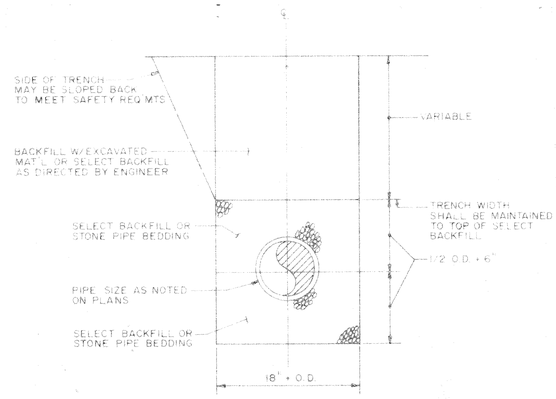


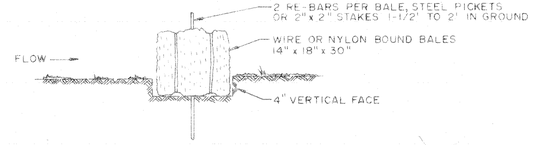
TYPICAL CATCH BASIN / A
N.T.S. YB-14791 YB-15710 YB-15711



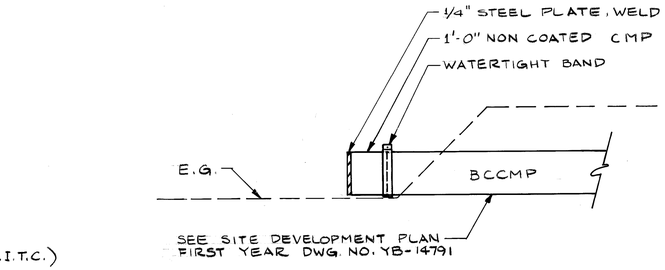
UNDERDRAIN MANHOLE / B
NTS YB-14791



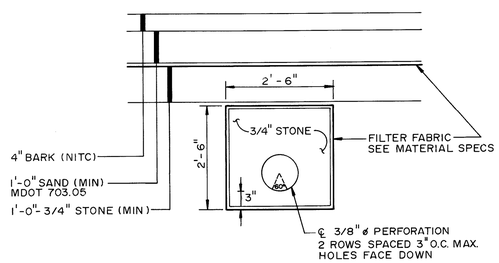
PIPE TRENCH / 12
N.T.S. YB-15710 YB-15711



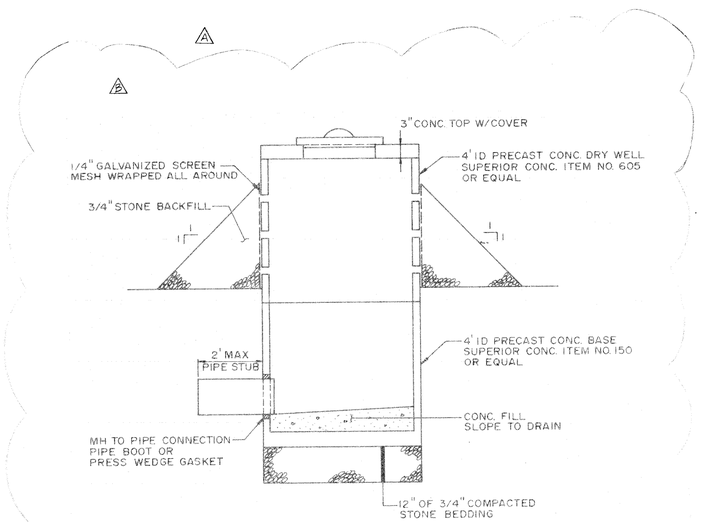
STRAW BALE DIKE / N
NTS YB-15711



TEMPORARY CULVERT CAP / C
N.T.S. YB-14791



AREA DRAIN-CELL 2 / 13 / A
N.T.S. YB-15711A



POND INLET / P
N.T.S. YB-15710

STATE OF MAINE — REGISTERED PROFESSIONAL ENGINEER — 6/9/87

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
C	C	10/20/87	RECORD DRAWING	MJC	BRS		94473
C	B	7/16/87	NOT IN THIS CONTRACT	MJC	BRS		94473
C	A	5/26/87	GENERAL REVISION FOR JOB # 94473 CELL 2	MJC	ECS	WJAN	94473

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

DRN MB/RDC	12/1/83
CKD MAHER	12/16/83
CKD RSSR	12/16/83
CORR WJAN	12-17-83
APPVD OJL	12-19-83
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE AS NOTED	

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
LANDFILL AREA
DRAINAGE DETAILS

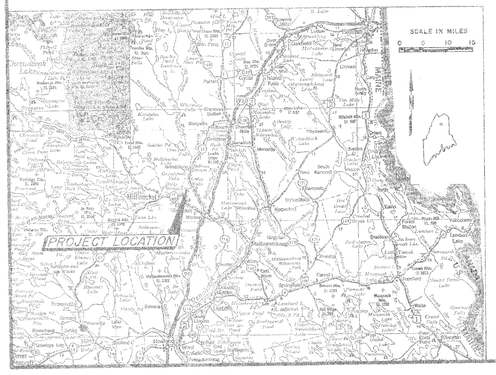
JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO. 2-092-7082

YB-14793-C

GREAT NORTHERN PAPER CO.
MILLINOCKET, MAINE

DOLBY 3 LANDFILL
CELL 2 CONSTRUCTION

TITLE		DRAWING NO.	SHEET NO.
COVER SHEET		~~YB-14787~~	
DOLBY 3 LANDFILL	SYMBOLS, ABBREVIATIONS AND GENERAL NOTES	YB-14788A	
DOLBY 3 LANDFILL	CELL 2, SITE LOCATION PLAN	YB-15710	SHEET 1 OF 2
DOLBY 3 LANDFILL	CELL 2, SITE LOCATION PLAN	YB-15710	SHEET 2 OF 2
DOLBY 3 LANDFILL	SITE DEVELOPMENT PLAN CELL 2	YB-15711	
DOLBY 3 LANDFILL	LANDFILL AREA DRAINAGE DETAILS	YB-14793A	
DOLBY 3 LANDFILL	ACCESS ROAD TYPICAL SECTIONS AND DETAILS	YB-14794B	
DOLBY 3 LANDFILL	SITE DEVELOPMENT DETAILS	YB-14796A	



SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

1987

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY 3 LANDFILL
COVER SHEET

JOB NO. 94473
DRG. REQ. NO. 2-8516
FILE NO. 2-092-4703.7082

YB-15709

SYMBOLS

TOPOGRAPHIC

EXISTING | PROPOSED

- NORTH ARROW (TRUE)
- NORTH ARROW (MAGNETIC)
- NORTH ARROW (PLAN NORTH)
- CONTOUR LINES (25)
- SPOT ELEVATION (GRADE) (25.63; 25.56)
- EXISTING GROUND (PROFILES & SECTIONS) (E.G.)
- SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT (S.B.)
- CENTERLINE OF CONSTRUCTION
- PROPERTY OR DEED LINE (NOT SURVEYED)
- PROPERTY LINE W/ BEARING & DISTANCE (525.14' N35°-10'-41"E)
- EASEMENTS, OR RIGHT OF WAY LINE
- BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)
- SURVEY MONUMENT (MON.)
- SURVEY IRON (FOUND) (I.F.)
- DRILL HOLE, P.K. OR STAKE (PK, STK, DH)
- WOODS OR BRUSH LINE
- INDIVIDUAL TREE (DECIDUOUS)
- INDIVIDUAL TREE (CONIFEROUS)
- TREE, TO BE REMOVED
- MARSH AREA
- STONE WALL

EXISTING | PROPOSED

- DRAINAGE COURSES W/ DIRECTION & DITCH
- EDGE OF WATER (SHORE SIDE)
- WATER ELEVATION (GROUND OR SURFACE)
- ROCK OUTCROP OR LEDGE
- FENCE LINE (WOOD)
- FENCE LINE (WIRE)
- RETAINING WALL (TYPE) ((STONE); (CONC.) FACE)
- SIGNS (& TYPE)
- GUARD RAIL
- BUILDING & STRUCTURES
- STEPS W/ TYPE (WOOD/CONCRETE)
- SLOPE RATIO (HORIZONTAL TO VERTICAL) (2, 1 OR 2:1)
- SLOPES (W/ SLOPE RATIO) (TOP OF SLOPE)
- EDGE OF TRAVELED WAY (TYPE)
- CUT OR FILL LINE (C, F)
- CLEARING LIMIT LINE (C.L.)
- GRAVEL SURFACED ROAD
- CONCRETE (SECTIONS & DETAILS)
- PIEZOMETER, TEST BORING, MONITORING WELL & NUMBER (P23, B38, MW99)
- TEST PIT & NUMBER (TP105; TP)

UTILITIES

EXISTING | PROPOSED

- MANHOLE
- WATER VALVE & SIZE (8)
- HYDRANT
- TELEPHONE OR POWER POLE (J23)
- CATCH BASIN (OR)
- UNDERGROUND GAS MAIN & SIZE (G; PROP. 8" G)
- UNDERGROUND TELEPHONE CABLE/CONDUIT (T; PROP. T)
- UNDERGROUND ELECTRIC CABLE/CONDUIT (E; PROP. E)
- UNDERGROUND ALARM CABLE/CONDUIT (A; PROP. A)
- SANITARY SEWER, SIZE & TYPE (12" ACP)
- FORCE MAIN, SIZE & TYPE (6" PVC)
- WATER MAIN, SIZE & TYPE (8" D.I.)
- STORM DRAIN, SIZE & TYPE (12" RCP)
- UNDERDRAIN (SIZE AND TYPE) (UD)
- CULVERT, SIZE & TYPE (12" B.C.C.M.P.)
- RAILROAD
- OVERHEAD ELECTRICAL LINE (OE)
- GAS PUMPS
- GAS COLLECTION SYSTEM, SIZE & TYPE (4" PVC)
- GAS VENT
- SILTATION FENCE (S)
- CURBING

GENERAL NOTES

1. UTILITY INFORMATION SHOWN ON THE DRAWINGS IS TAKEN FROM DATA SUPPLIED BY THE UTILITY COMPANIES OR THE OWNER. THE CONTRACTOR SHALL VERIFY THE ACTUAL FIELD LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ABIDE WITH THE REGULATIONS OF THE RESPECTIVE UTILITIES WHEN WORKING IN PROXIMITY TO UTILITY LINES AND STRUCTURES.
3. RELOCATION OF UTILITIES SHALL BE BY THE RESPECTIVE OWNER UNLESS OTHERWISE DESIGNATED IN THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL LIMIT THE CONSTRUCTION ACTIVITY TO THE LIMITS SHOWN ON THE DRAWINGS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL PERMITS AND REGULATIONS GOVERNING THE CONSTRUCTION ACTIVITY.
6. SATISFACTORY DISPOSAL OF WASTE MATERIALS IS THE CONTRACTOR'S RESPONSIBILITY. APPROVED DISPOSAL AREAS, IF ALLOWED, ON THE LANDS OF THE OWNER WILL BE DESIGNATED IN THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE CONSTRUCTION TO MAINTAIN TRAFFIC AND THE OWNER'S USE OF ADJACENT FACILITIES AS DESIGNATED IN THE CONTRACT DOCUMENTS.
8. FOR SPECIFIC PROJECT NOTES, REFER TO PROJECT DRAWINGS.

VIEW MARKERS & IDENTIFICATION

- SECTION IDENTIFICATION NO. (3; YB-14788)
- DRAWING NO. WHERE SECTION APPEARS
- SECTION IDENTIFICATION NO. (SECTION 3; YB-14788)
- DRAWING NO. WHERE SECTION IS TAKEN
- DETAIL IDENTIFICATION NO. (A; YB-14788)
- DRAWING NO. WHERE DETAIL APPEARS
- DETAIL IDENTIFICATION NO. (DETAIL A; YB-14788)
- DRAWING NO. WHERE DETAIL IS CALLED OUT

ABBREVIATIONS

AC	ACRE
ALT	ALTERNATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASB	ASBESTOS
A.C.P.	ASBESTOS CEMENT PIPE
ASPH	ASPHALT
A.C.C.M.P.	ASPHALT COATED CORRUGATED METAL PIPE
ASSY	ASSEMBLY
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
A.D.T.	AVERAGE DAILY TRAFFIC
A.A.D.T.	AVERAGE ANNUAL DAILY TRAFFIC
AZ	AZIMUTH
BL	BASE LINE
BRG	BEARING
B.M.	BENCH MARK
BIT	BITUMINOUS
B.C.C.M.P.	BITUMINOUS COATED CORRUGATED METAL PIPE
BD	BOARD
B.O.B.	BOTTOM OF BANK
BOT	BOTTOM
BLDG	BUILDING
CATV	CABLE TELEVISION
C.I.	CAST IRON
C.B.	CATCH BASIN
CEM	CEMENT
CTR	CENTER
C TO C (C/C)	CENTER TO CENTER
△	[illegible] CIRCULAR CURVE
CHAM	CHAMFER
CL	CLASS
C.O.	CLEAN OUT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CND	CONDUIT
CONN	CONNECTION
CONST	CONSTRUCTION
CONTR	CONTRACTOR
C.J.	CONTROL JOINT
C.M.P.	CORRUGATED METAL PIPE
CRS	COURSE
COV	COVER
XSECT	CROSS-SECTION
C.F.S.	CUBIC FEET PER SECOND
C.F.	CUBIC FOOT
C.Y.	CUBIC YARD
Da	DEGREE OF CURVE (ARC DEF.)
Dc	DEGREE OF CURVE (CHORD DEF.)
DEG	DEGREE
DEPT	DEPARTMENT
D.H.V.	DESIGN HOURLY VOLUME
DET	DETAIL
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DBL	DOUBLE
DWL	DOWEL
DN	DOWN
DR	DRAIN
DRWY	DRIVEWAY
DWG	DRAWING
DR.IN.	DROP INLET
D.I.	DUCTILE IRON
EA	EACH
ELL	ELBOW
ELEC	ELECTRIC
EL	ELEVATION
ENG	ENGINEER
ENT	ENTRANCE OR ENTERING
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXCA.	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERNAL
FAB	FABRICATE
FT or '	FEET OR FOOT
F.P.S.	FEET PER SECOND
FBRGL	FIBERGLASS
FIG	FIGURE
FIN	FINISH
F.G.	FINISHED GRADE
FLG	FLANGE
FLEX	FLEXIBLE
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG	FOOTING
FDN	FOUNDATION
FURN	FURNISH
GAL	GALLON
G.P.D.	GALLONS PER DAY
G.P.M.	GALLONS PER MINUTE
GALV	GALVANIZED
GA	GAUGE
GR	GRADE
GRAN	GRANITE
HDWR	HARDWARE
HDW	HEADWALL
HTG	HEATING
HGT	HEIGHT
H.PT.	HIGH POINT
HOR	HORIZONTAL
HP	HORSEPOWER
H.S.	HIGH STRENGTH
HYD	HYDRANT
INCL	[illegible]
INFO	[illegible]
I.D.	[illegible]
INS	[illegible]
INT	[illegible]
INTER	[illegible]
INV	INVERT
IN.EL.	INVERT ELEVATION
IN or "	INCHES
JT	[illegible]
KVA	[illegible]
K	[illegible]
LAB	LABORATORY
LAT	LATITUDE
LT	LEFT
LG	LENGTH OR LONG
LEV	LEVEL
LIN. FT.	LINEAR FEET
LOC	LOCATION
LONG.	LONGITUDE
L.PT.	LOW POINT
LBR	LUMBER
MACH	MACHINE
MH	MANHOLE
MFR	MANUFACTURER
MAINT	MAINTENANCE
MATL	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
[illegible]	[illegible] POINT
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
NEG	NEGATIVE
NOM	NOMINAL
N.T.S.	NOT TO SCALE
N/F	NOW OR FORMERLY
NO.	NUMBER
OFS	OFFSET
O.C.	ON CENTER
[illegible]	[illegible]
OPP	OPPOSITE
O.D.	[illegible]
O.G.	[illegible]
OVHD	[illegible]
OVFL	[illegible]
PAR	[illegible]
P.S.D.	PASSING SIGHT DISTANCE
PVMT	PAVEMENT
%	PERCENTAGE
PERF	PERFORATED
⊥ OR PERP	PERPENDICULAR
PC	[illegible]
PLMBG	PLUMBING
PT	POINT
P.I.	POINT OF INTERSECTION
[illegible]	POINT OF CURVE
[illegible]	POINT OF TANGENT
[illegible]	POINT OF CURVE
P.O.T.	POINT ON TANGENT
P.V.I.	POINT OF VERTICAL INTERSECTION
[illegible]	[illegible] CURVATURE
[illegible]	[illegible] TANGENCY
[illegible]	[illegible]
POS	[illegible]
LB OR #	POUND
P.S.I.	POUNDS PER SQUARE INCH
[illegible]	[illegible]
PREFAB	PREFABRICATED
PROJ	PROJECT
PROP	PROPOSED
QTY	QUANTITY
RAD	RADIUS
RR	RAILROAD
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	SCHEDULE
[illegible]	SECOND
[illegible]	SECTION
[illegible]	SHEET
SDWK	SIDEWALK
[illegible]	[illegible]
[illegible]	SLOPE
[illegible]	SQUARE FOOT
[illegible]	SQUARE YARD
[illegible]	STATION
[illegible]	STEEL
[illegible]	STOPPING SIGHT DISTANCE
[illegible]	STORM DRAIN
[illegible]	STREET
[illegible]	SUBSTITUTE
[illegible]	SYMMETRICAL
[illegible]	TANGENT
[illegible]	TECHNICAL
[illegible]	TELEPHONE
[illegible]	TEMPORARY
[illegible]	THICK
T.O.B.	TOP OF BANK
[illegible]	TOP OF CONCRETE
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

ADDITIONAL ABBREVIATIONS

AGG.	AGGREGATE
C.L.F.	CHAIN LINK FENCE
E.G.	EXISTING GROUND
G.C.	GENERAL CONTRACTOR
N.I.T.C.	NOT IN THIS CONTRACT
R.C.P.	REINFORCED CONCRETE PIPE
T.S.F.	TEMPORARY SILTATION FENCE

C | A | REUSED FOR JOB NO. 44473 CELL 2 | ECS | WAN | 44473

STATE OF MAINE — John E. Sevee — REGISTERED PROFESSIONAL ENGINEER — 6/1987

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 | DWG. NO.

DRN BISKUP	9/20/83
CKD MAHER	12/16/83
RS JR	12/16/83
WAN	12-19-83
APPVD OJL	12-19-83
ISSUE CODE	
P PRELIM	B BIDS
M MILL USE	C CONST
SCALE N/A	

Great Northern Paper

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

2668
2-8313
2-092-7082

YB-14788-A

MATCH LINE SHEET 2

CB #13 N664211.0 A
INV. IN = 408.0 E475018.0
INV. OUT = 407.5
RIM EL. = 416.0

6" ø ABS PIPE 12
YB-14793A

N664035.0
E474905.0

CB #12 N664025.0 A
INV. IN = 399.5 E474870.0 YB-14793A
INV. OUT = 398.5
RIM EL. = 406.5

12" ø SDR 26 PVC PIPE 12
YB-14793A

N664050.0
E474855.0

N664055.0
E474615.0

N664240.0
E474215.0

N662950.0
E475040.0

N662940.0
E474715.0

N662785.0
E474710.0

N662630.0
E474350.0

CELL 2
SEE DWG. YB-15710

SOIL STOCKPILE AREA

CELL 1
(EXISTING)

ACCESS ROAD

LANDFILL ACCESS ROAD

LEACHATE HOLDING POND

BENCH MARK N663871.733
BRASS PLUG EL. 356.99 E473715.059

WET WELL & PUMP STATION

CLL

12"

E 475500
E 475000
E 474500
E 474000
E 473500
E 473250
N 665000
N 664500
N 664000
N 663500

STATE OF MAINE
JOHN C. SEVEE
REGISTERED PROFESSIONAL ENGINEER
6/4/87

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		C	A	7/16/87	NOT IN THIS CONTRACT	MHC			

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

JOB NO. 8717

DRN	PAT	6-1-87
CKD	MHC	6-1-87
CKD	EOS	6-3-87
CORR	WAN	6-3-87
APPVD		

ISSUE CODE
P - PRELIM | B - BIDS
M - MTL T.O. | C - CONST
SCALE 1" = 100'

Great Northern Paper
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CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
CELL 2
SITE LOCATION PLAN

JOB NO. 94473
ENG. REQ. NO. 2-8516
FILE NO. 2-092-4703, 7082

YB-15710 A
SHEET 1 OF 2

DOLBY II LANDFILL

POND INLET MH #2 N664984.0 E475700.0 (P) YB-14793A
INV. OUT = 413.0
RIM EL. = 420.0

N665110.0
E475660.0

6" ABS 45° BEND N665090.0
E475640.0

CLL 6"

AREA TO BE FINAL COVERED & SEEDED (AS OF APRIL 1987)

CB #15 N665132.0 E475353.0 (A) YB-14793A
INV. IN = 410.3
INV. OUT = 410.2
RIM EL. = 416.0

6" ø ABS PIPE (12) YB-14793A

POND INLET MH #1 N664540.0 E475330.0 (P) YB-14793A
INV. OUT = 414.0
RIM EL. = 422.0

N665160.0
E475330.0

6" CLL 6" CLL

N664485.0
E475280.0

CB #14 N664540.0 E4752920 (A) YB-14793A
EAST INV. IN = 413.0
NORTH INV. IN = 409.1
INV. OUT = 409.0
RIM EL. = 420.5

N664552.0
E475270.0

6" CLL

MATCH LINE SHEET 1

STATE OF MAINE — John S. Sevee — 6/4/87

DRAWING NO	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		C	A	7/16/87	NOT IN THIS CONTRACT				

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

JOB NO. 8717

DRN	PAF	6-4-87
CKD	JNC	6-4-87
CKD	ECS	6-3-87
CORR	WAN	6-3-87
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE 1" = 100'

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CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
CELL 2
SITE LOCATION PLAN

JOB NO. 94473
ENG. REQ. NO. 2-8516
FILE NO. 2-092-4703, 7082

YB-15710 A
SHEET 2 OF 2

12"ø SOLID PVC PIPE (12) YB-14793A

STRAW BALE DIKE (N) (TYPICAL) YB-14793A

10:1 SLOPE TO EXIST. GRADE

CORNER OF DIKE N664046.0 E474531.0

DIKE AND DRAINAGE DIVERSION DITCH SEE DWG. YB-14794B FOR TYPICAL SECTION

CORNER OF DIKE N663023.0 E474662.0

379.24

PIPE STUB W/TEMP CAP

200' MAX.

PIPE STUB W/TEMP CAP

CB #11 (A) N664032.5 E474520.6
INV. IN=365.8
2" INV. IN = 369.7
6" INV. OUT = 368.7
INV. OUT = 365.9
RIM ELEV. = 372.2
YB-14793A

℄ ACCESS ROAD N662995.0 E474670.0
EL. 402.0

CB #10 (A) N663031.0 E474652.0
INV. IN=392.8
INV. OUT = 392.5
RIM ELEV.= 399.0
YB-14793A

PIPE CAP (TYPICAL)

GRUB CELL 2 AND PROVIDE BASAL DRAINAGE BLANKET

6"ø ABS LEACHATE(Perf.) (9) COLLECTION PIPE YB-14796A

12"ø PERF. PVC LEACHATE (11) COLLECTION MAIN YB-14796A

LANDFILL ACCESS ROAD, S= 4.5% SEE DWG YB-14794B FOR TYPICAL SECTION

12"ø SOLID PVC LEACHATE (12) COLLECTION MAIN YB-14793A

30' TO ℄ OF DITCH

RIP-RAP DITCH

90' (TYPICAL)

BRANCH CONNECTION (M) (TYPICAL) YB-14796A

2"ø PE LEACHATE(Perf.) (9) COLLECTION PIPES YB-14796A

CB #9 (A) N663016.0 E474370.0
2" INV. = 381.3
INV. IN = 378.7
INV. OUT = 378.1
RIM ELEV. = 385.6

12"ø BCCMP N662980.0 E474371.5
INV. IN = 385.0
INV. OUT = 384.5

REMOVE 18" PLUG INSTALL 18"x12" C.I. REDUCER

AREA DRAIN (13) 8'x30' YB-14793B

CB #1
INV. IN = 355.6
INV. OUT = 355.39
6" INV. IN = 356.5
RIM ELEV. = 362.08

376.54

18"-45° C.I. BEND

CB #8
INV. IN = 375.60
INV. OUT = 375.13
RIM ELEV. = 386.80

℄ ACCESS ROAD N662980.0 E474360.0
EL. 388.0

REMOVE 18" PLUG

℄ OF DIKE N664055.0 E474223.0

CB #2
INV. IN = 350.85
INV. IN W/CAP = 350.88
INV. OUT = 350.48

CELL 1 (EXISTING)

CB #3
INV. IN (NORTH) = 348.58
INV. IN (SOUTH) = 348.34
INV. OUT = 345.38

CB #7
INV. IN = 371.18
INV. OUT = 370.96

CB #6
INV. IN = 368.10
INV. OUT = 362.18

CB #4
INV. IN 6" = 352.73
INV. IN 18" = 349.44
INV. OUT = 349.23

CB #5
INV. IN = 361.91
INV. OUT = 354.10

LEACHATE COLLECTION POND

24" GATE VALVE

RETENTION POND

BENCH MARK N663871.735
BRASS PLUG EL. 356.99 E473715.059

WET WELL & PUMP STATION

ACCESS ROAD

MAIN LANDFILL ACCESS ROAD

STATE OF MAINE — JOHN E. STAFF — 5150 — REGISTERED PROFESSIONAL ENGINEER — 5/10/07

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		C		10/20/87	RECORD DRAWING	HHC			
YB-15263	DOLBY 3 LANDFILL AREA TOPOGRAPHIC SURVEY & DIGITIZATION AS OF 12-5-85	C	A	7/16/87	NOT IN THIS CONTRACT	HHC			

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

JOB NO. 8717

DRN	PAF	6-4-87
CKD	HHC	6-4-87
CKD	ECS	6-3-87
CORR	WAN	6-3-87
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST.

SCALE 1" = 50'

Great Northern Paper
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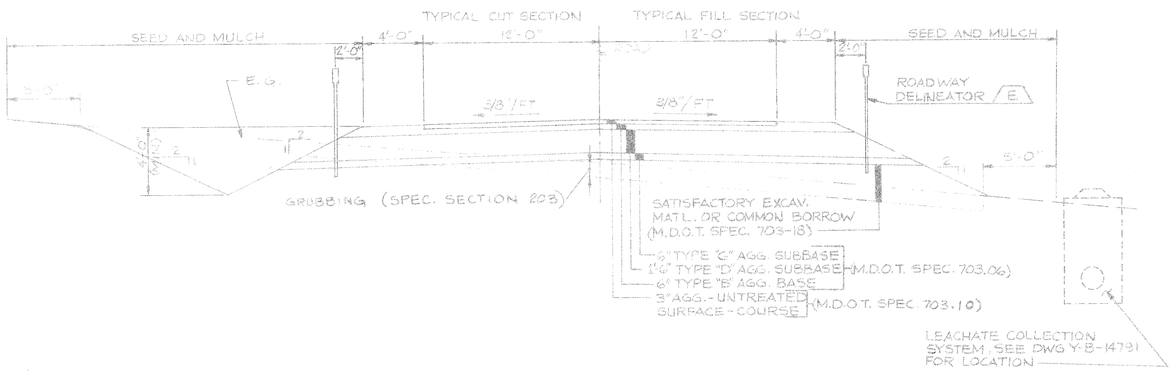
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY 3 LANDFILL SITE DEVELOPMENT PLAN CELL 2

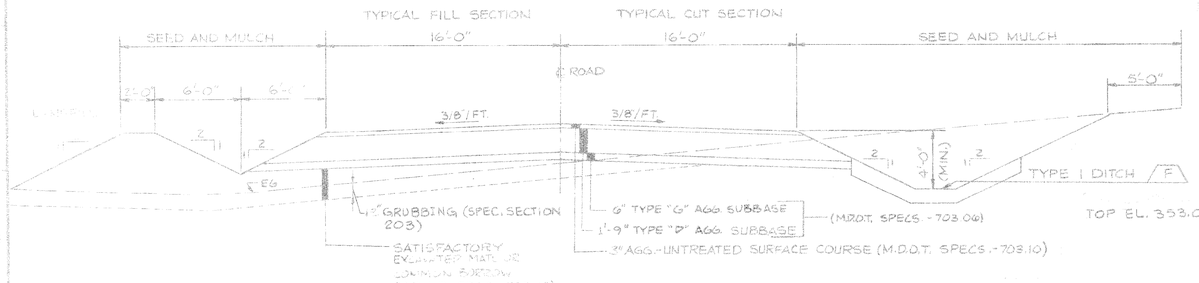
JOB NO. 94473
ENG. REQ. NO. 2-8516
FILE NO. 2-092-7082

YB-15711A

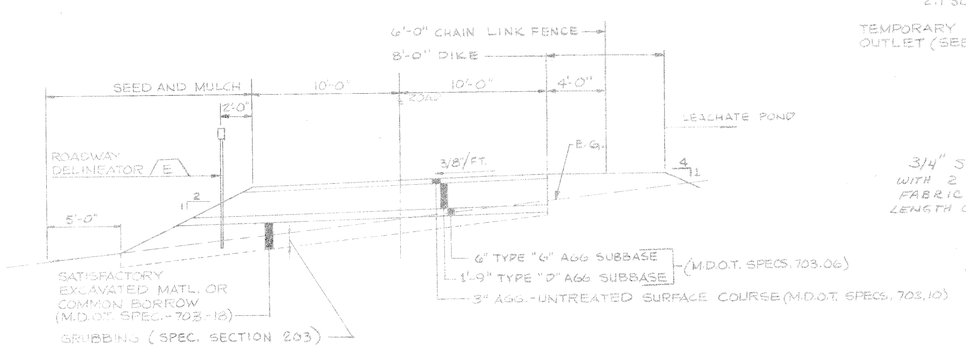
TYPICAL SECTION
MAIN ACCESS ROAD
N.T.S.
SEED AND MULCH
TYPICAL CUT SECTION
TYPICAL FILL SECTION
4'-0"
12'-0"
12'-0"
4'-0"
2'-0"
5'-0"
E.G.
3/8"/FT
ROADWAY DELINEATOR E
4'-0" (MIN)
GRUBBING (SPEC. SECTION 203)
SATISFACTORY EXCAV. MATL. OR COMMON BORROW (M.D.O.T. SPEC. 703-18)
6" TYPE "G" AGG. SUBBASE
1'-6" TYPE "D" AGG. SUBBASE (M.D.O.T. SPEC. 703.06)
6" TYPE "B" AGG. BASE
3" AGG.-UNTREATED SURFACE-COURSE (M.D.O.T. SPEC. 703.10)
LEACHATE COLLECTION SYSTEM, SEE DWG Y-B-14791 FOR LOCATION
TYPICAL SECTION
LANDFILL ACCESS ROAD
N.T.S.
LANDFILL
SEED AND MULCH
TYPICAL FILL SECTION
TYPICAL CUT SECTION
16'-0"
16'-0"
℄ ROAD
2'-0"
6'-0"
6'-0"
5'-0"
3/8"/FT.
TYPE I DITCH F
12" GRUBBING (SPEC. SECTION 203)
SATISFACTORY EXCAVATED MATL OR COMMON BORROW (M.D.O.T. SPEC.-703.18)
6" TYPE "G" AGG. SUBBASE
1'-9" TYPE "D" AGG. SUBBASE (M.D.O.T. SPECS.-703.06)
3" AGG.-UNTREATED SURFACE COURSE (M.D.O.T. SPECS.-703.10)
TYPICAL SECTION
LEACHATE POND ACCESS ROAD
N.T.S.
6'-0" CHAIN LINK FENCE
8'-0" DIKE
SEED AND MULCH
10'-0"
10'-0"
4'-0"
2'-0"
LEACHATE POND
ROADWAY DELINEATOR E
5'-0"
3/8"/FT.
E.G.
SATISFACTORY EXCAVATED MATL. OR COMMON BORROW (M.D.O.T. SPEC.-703.-18)
GRUBBING (SPEC. SECTION 203)
6" TYPE "G" AGG SUBBASE (M.D.O.T. SPECS. 703.06)
1'-9" TYPE "D" AGG SUBBASE
3" AGG.-UNTREATED SURFACE COURSE (M.D.O.T. SPECS. 703.10)
PLAN
SLOPE TO MEET EXIST. GRADE
FINISH GRADE
FLAT
EXIST. SLOPE
16'-6"
SECTION 2
FINISH GRADE
PIPE
SLOPE 2:1
15'-0"
1'-0" MIN.
E.G.
RIPRAP 1'-0" THICK
FILTER FABRIC
RIPRAP APRON C
NTS YB-14791
PLAN
TOP EL. 353.0 (MIN.)
TOP EL. = 353'(MIN.)
EL. 353.0
BOT. EL. 350'
CREST EL 352.0
CREST LENGTH
30'-0"
55'(MIN.)
FLOW
2:1 SLOPE (TYP.)
EL. 353.0
EL. 350.0
2:1 SLOPE (TYP.)
TEMPORARY STONE OUTLET (SEE NOTE)
MATCH TO DITCH
MATCH TO DITCH SEE DWG. YB-14791
110'
SECTION 3
8'-0"
4'-0"
3/4" STONE WRAPPED WITH 2 LAYERS OF FILTER FABRIC ALL AROUND FOR LENGTH OF TRAP
TOP OF EMBANKMENT BEYOND
EL. 353.0
OUTLET CREST EL. 352.0
BOTTOM OF SEDIMENT TRAP
INV. OF DITCH
2 1/2" STONE
STONE OUTLET SEDIMENT TRAP D
NTS YB-14791
ROADWAY DELINEATOR E
N.T.S. YB-14791
SINGLE DELINEATOR DOUBLE FACED (WHITE)
EDGE OF ROADWAY EMBANKMENT
FRANKLIN DELINEATOR POST (TYP.)
TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH
SCALE: 1" = 5'
LANDFILL
2'-0"
11'-0"
5'-0"
E.G.
12" GRUBBING (SPEC. SECTION 203)
FORM BERM OF COMPACTED SATISFACTORY EXCAVATED MAT'L. OR COMMON BORROW (M.D.O.T. SPEC. 703.18)
PARABOLIC DITCH BOTTOM
SEED AND MULCH
TYPE I DITCH F
N.T.S. YB-14791 YB-15711
E.G.
3'-0"
INV. AS SHOWN ON DWG. YB-14791
RIPRAP 1'-0" THICK (M.D.O.T. SPEC.-703.26)
FILTER FABRIC (SPEC. SECTION 801)
NOTE: STONE OUTLET TO BECOME PERMANENT FIXTURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIPRAP. AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.
STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER
C B 5/26/87 GENERAL REVISION FOR JOB #94473 CELL 2 ECS WAN 94473
C A 10/15/84 NOTES & 3/4" STONE AND FILTER FABRIC RSJR WAN 2668
CODE NO. DATE REVISION BY CKD APPVD JOB No.
DRAWING NO. REFERENCE DRAWING TITLE
SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE
E.C. JORDAN CO.
CONSULTING ENGINEERS
JOB NO. 4187-02 DWG. NO.
DRN LEDUC 10/12/83
CKD MAHER 12/16/83
CKD RSJR 12/16/83
CORR WAN 12/2/83
APPVD OJL 12/9/83
ISSUE CODE
P-PRELIM B-BIDS
M-MTL T.O. C-CONST
SCALE NOTED
Great Northern Paper
a company of Great Northern Nekoosa Corporation
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
ACCESS ROAD
TYPICAL SECTIONS & DETAILS
JOB NO. 2668
ENG. REQ. NO. 2-6313
FILE NO. 2-092-7082
YB-14794-B



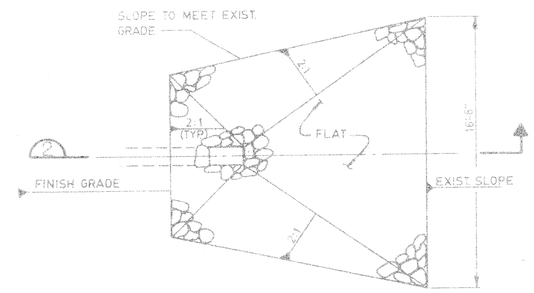
TYPICAL SECTION
MAIN ACCESS ROAD
N.T.S.



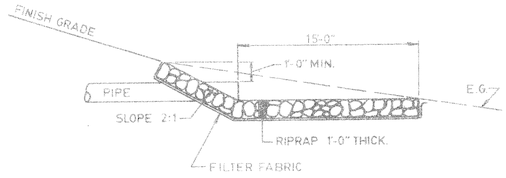
TYPICAL SECTION
LANDFILL ACCESS ROAD
N.T.S.



TYPICAL SECTION
LEACHATE POND ACCESS ROAD
N.T.S.

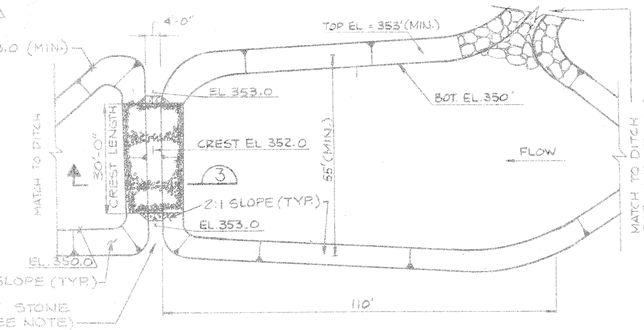


PLAN

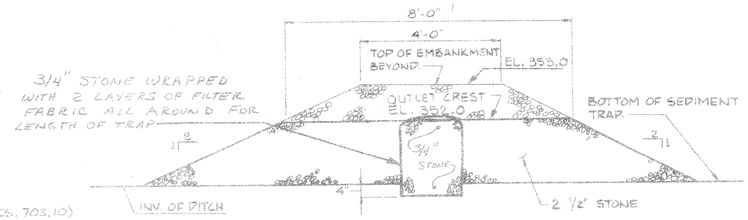


SECTION (2)

RIPRAP APRON (C)
NTS YB-14791

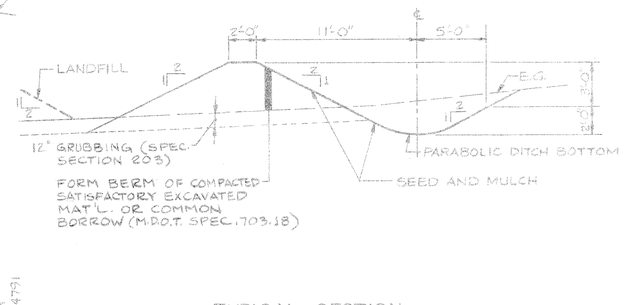


PLAN

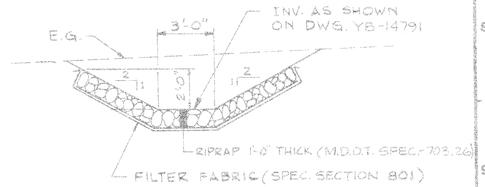


SECTION (3)

STONE OUTLET SEDIMENT TRAP (D)
NTS YB-14791



TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH
SCALE: 1" = 5'



TYPE I DITCH (F)
N.T.S. YB-14791
YB-15711

NOTE: STONE OUTLET TO BECOME PERMANENT FIXTURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIPRAP. AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.

John E. Sevee 6/18/87

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
C	B	5/26/87	GENERAL REVISION FOR 208 #94473 CELL 2	AHC	ECS	WAN	94473
C	A	10/5/84	NOTES & 3/4" STONE AND FILTER FABRIC	ES JL		WAN	2668

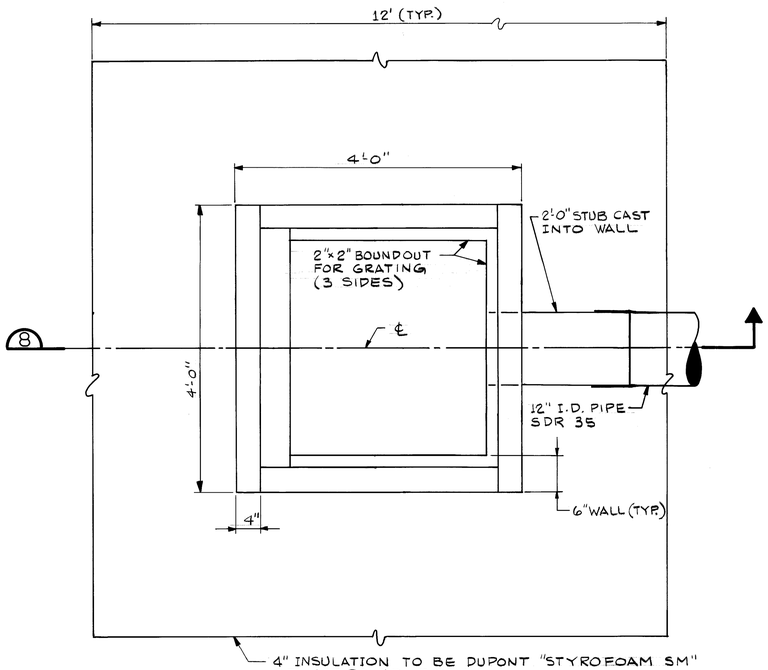
REFERENCE DRAWING TITLE

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE
E.C. JORDAN CO.
CONSULTING ENGINEERS
JOB NO. 4187-02 DWG. NO.

DRN	LEDUC	10/12/83
CKD	MAHER	12/14/83
CKD	ES JL	12/16/83
COMPR	WAN	12/22/83
APPVD	DJL	12/19/83
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL. T.O.	C - CONST	
SCALE	NOTED	

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
ACCESS ROAD
TYPICAL SECTIONS & DETAILS
JOB NO. 2668
ENG. REQ. NO. E-8313
FILE NO. E-092-70.62
YB-14794-B



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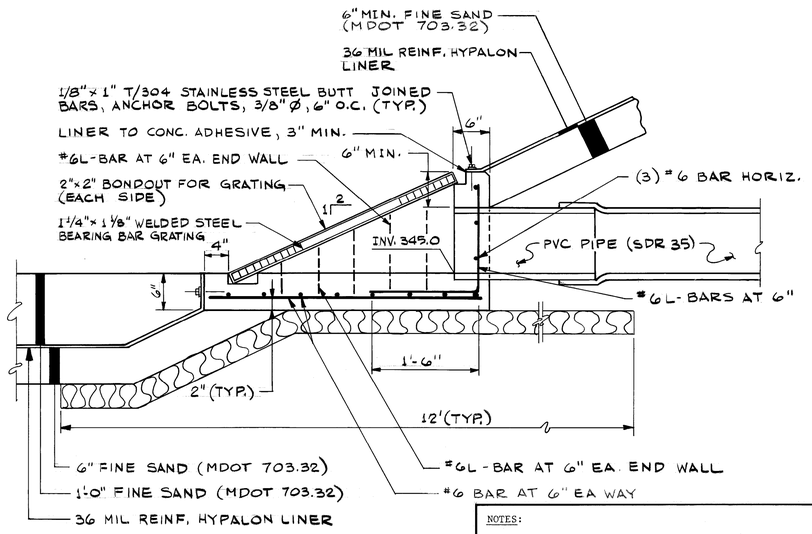


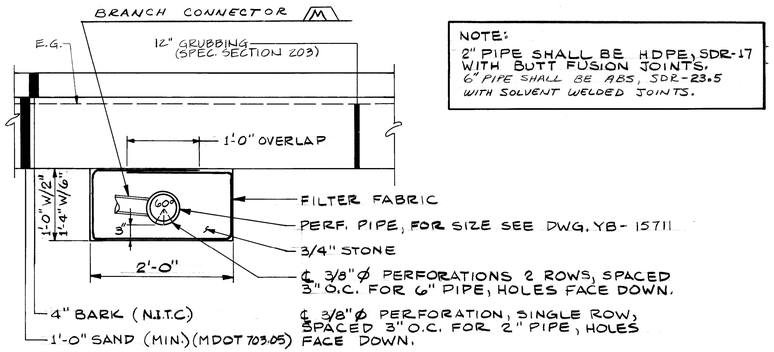
SECTION (8)

NOTES:

1. PENETRATIONS SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATION.
2. CONTACT BOND OF LINER TO ALL CONCRETE SURFACES SHALL BE PER THE LINER MANUFACTURER'S APPROVED BONDING METHODS.

OUTLET STRUCTURE (TYP.) (K)

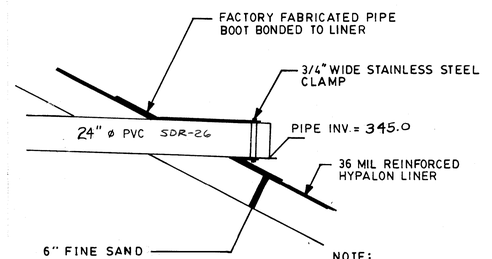
SCALE: 1"= 1'-0" YB-1479I



NOTE:
2" PIPE SHALL BE HDPE, SDR-17 WITH BUTT FUSION JOINTS.
6" PIPE SHALL BE ABS, SDR-23.5 WITH SOLVENT WELDED JOINTS.

2-IN. 6-IN. LEACHATE COLLECTION PIPES (9)

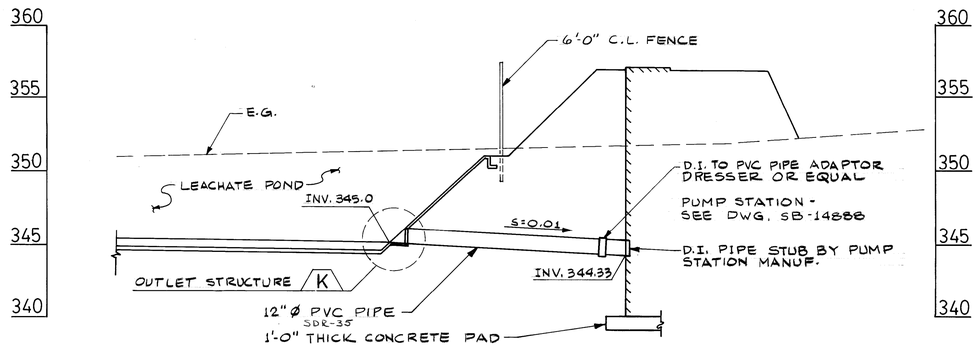
SCALE: 1"= 1'-0" YB-14791 YB-15711



NOTE:
PIPE PENETRATIONS SHALL BE SEALED PER THE LINER MANUFACTURES RECOMMENDED METHODS

POND INLET AND PIPE BOOT (L)

N.T.S. YB-14791



NOTES:

2" PIPE	HDPE	SDR-17 W/BUTT FUSION JOINTS
4" PIPE	ABS	SDR-23.5 W/SOLVENT JOINTS
6" PIPE	ABS	SDR-23.5 W/SOLVENT JOINTS (A)
12" PIPE	PVC	SDR-35
18" PIPE	PVC	SDR-26 (A)
24" PIPE	PVC	SDR-26

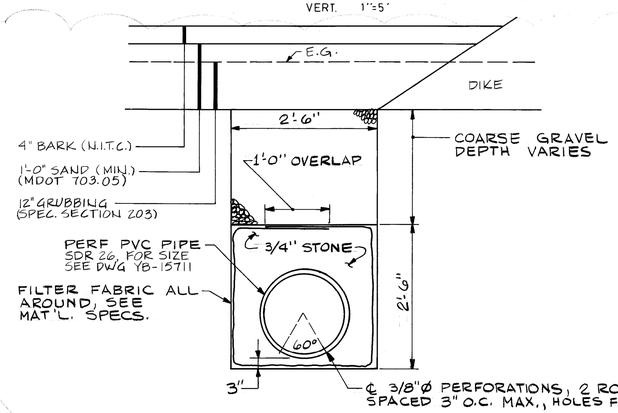
GATE VALVES - CLOW F5065 MECH. JOINT, NON RISING STEM FOR 4" & 24" PIPE OR EQUAL

INDICATOR POST - CLOW F 5760 OR EQUAL

12" PIPE PVC SDR-26 (A)

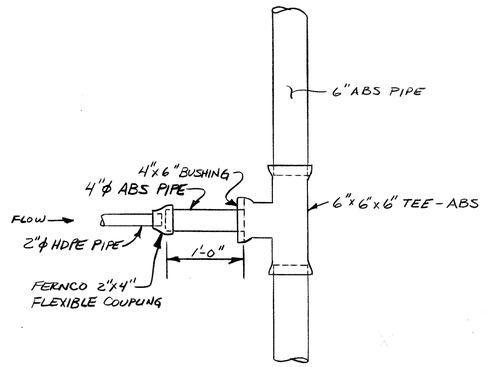
PUMP STATION AND INLET PIPE (10)

SCALE: HORIZ. 1"= 20' VERT. 1"=5' YB-14791



PERF. LEACHATE COLLECTION MAIN (11)

YB-14791 YB-15711



BRANCH CONNECTOR (M)

N.T.S. YB-15711

STATE OF MAINE — JOHN S. KNOX — REGISTERED PROFESSIONAL ENGINEER — 6/14/87

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
C	A	5/26/87	GENERAL REVISION FOR JOB # 94473 CELL 2	MAC	ECS	WBN	94473

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE

E.C. JORDAN CO.
CONSULTING ENGINEERS

JOB NO. 4187-02 DWG. NO.

DRN	D. F. D.	11/22/83
CKD	MAHER	12/16/83
CKD		
CORR		
APPVD		

ISSUE CODE: P-PRELIM | B-BIDS | M-MTL T.O. | C-CONST

SCALE NOTED

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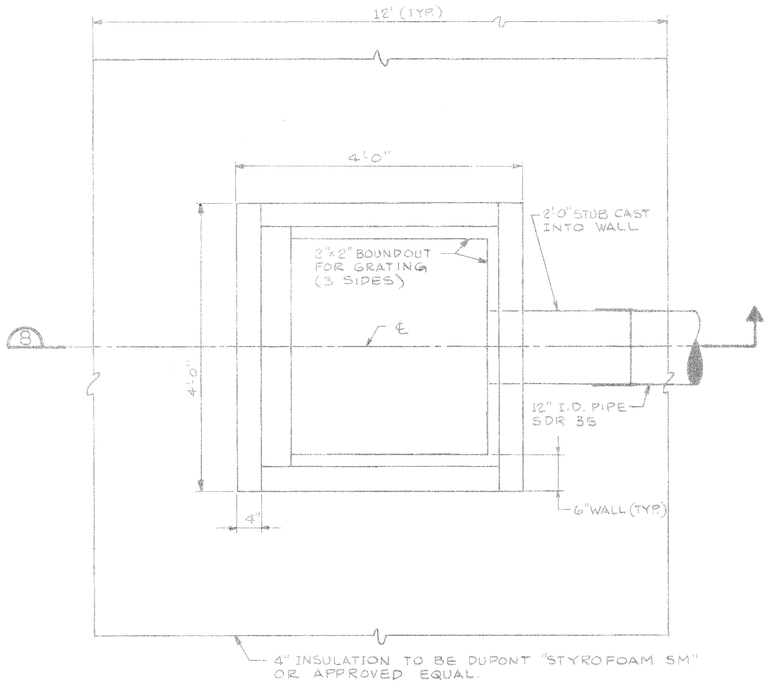
Great Northern Nekoosa Corporation

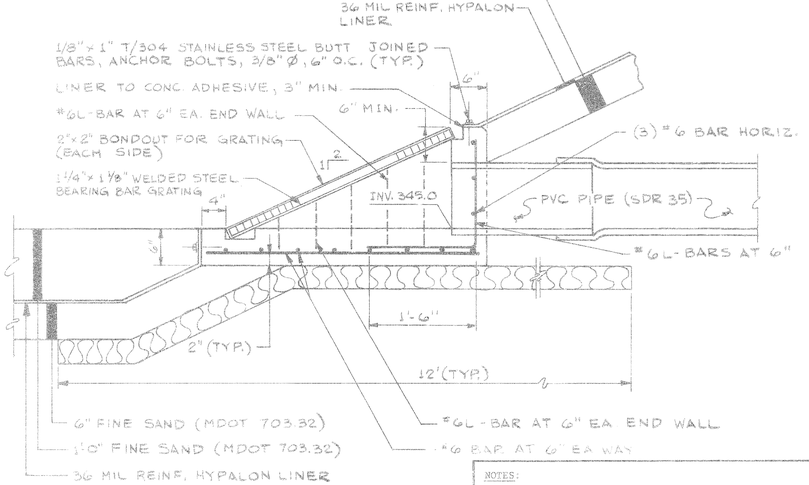
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
SITE DEVELOPMENT
DETAILS

JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO. 2-0927082

YB-14796-A



PLAN



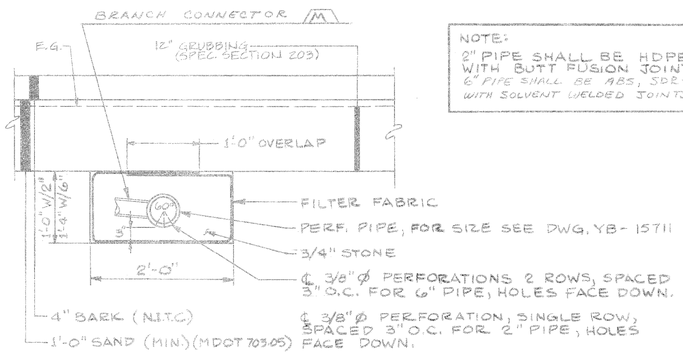
SECTION (8)

NOTES:

1. PENETRATIONS SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATION.
2. CONTACT BOND OF LINER TO ALL CONCRETE SURFACES SHALL BE PER THE LINER MANUFACTURER'S APPROVED BONDING METHODS.

OUTLET STRUCTURE (TYP) (K)

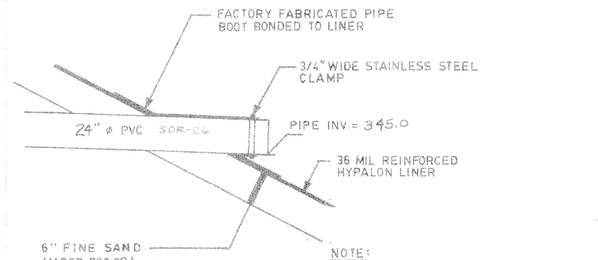
SCALE: 1"=1'-0" YB-14791



NOTE:
2" PIPE SHALL BE HDPE, SDR-17 WITH BUTT FUSION JOINTS.
6" PIPE SHALL BE ABS, SDR-23.5 WITH SOLVENT WELDED JOINTS.

2-IN. 6-IN. LEACHATE COLLECTION PIPES (9)

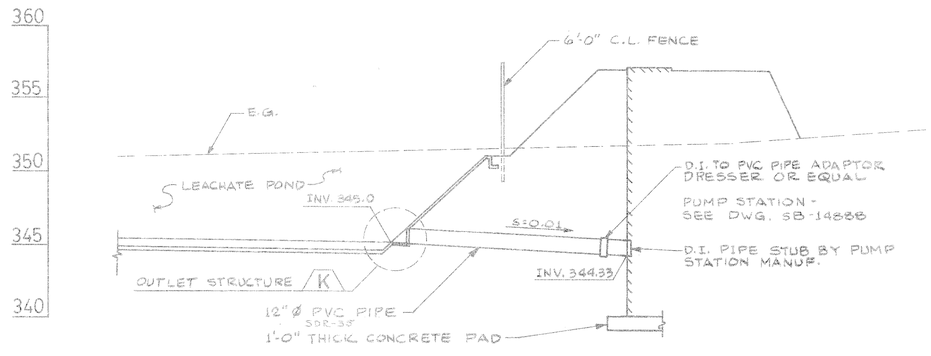
SCALE: 1"=1'-0" YB-14791 YB-15711



NOTE:
PIPE PENETRATIONS SHALL BE SEALED PER THE LINER MANUFACTURES RECOMMENDED METHODS

POND INLET AND PIPE BOOT (L)

N.T.S. YB-14791

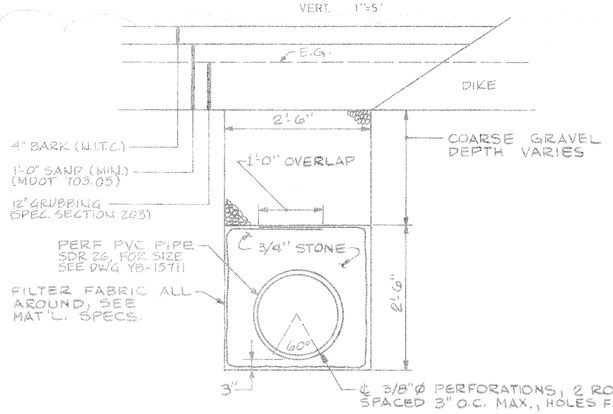


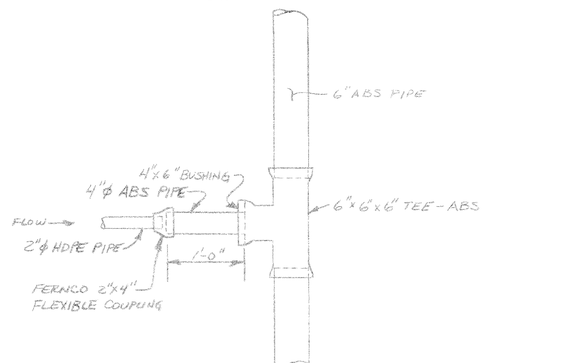
NOTES:

2" PIPE HDPE SDR-17 W/BUTT FUSION JOINTS
4" PIPE ABS SDR-23.5 W/SOLVENT JOINTS
6" PIPE ABS SDR-23.5 W/SOLVENT JOINTS (A)
12" PIPE PVC SDR-35
18" PIPE PVC SDR-26 (A)
24" PIPE PVC SDR-26
GATE VALVES - CLOW F5065 MECH. JOINT, NON RISING STEM FOR 4" & 24" PIPE OR EQUAL
INDICATOR POST - CLOW F5760 OR EQUAL
12" PIPE PVC SDR-26 (A)

PUMP STATION AND INLET PIPE (10)

SCALE: HORIZ. 1"=20' VERT. 1"=5' YB-14791





BRANCH CONNECTOR (M)

N.T.S. YB-15711

PERF. LEACHATE COLLECTION MAIN (11)

YB-14791 YB-15711

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APP'D	JOB No.
C	A	5/26/87	GENERAL REVISION FOR JOB #94478 CELL 2	MHC	ECS	WDH	94478

SEVEE & MAHER ENGINEERS, PA
WESTBROOK, MAINE
E.C. JORDAN CO.
CONSULTING ENGINEERS
JOB NO. 4187-02 DWG. NO.

DRN	D.J.G.	11/24/83
CKD	MAHER	12/16/83
CKD		
CORR		
APP'D		
ISSUE CODE		
P-PRELIM	B-BIDS	
M-MYLT.O.	C-CONST	
SCALE	NOTED	

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL
DOLBY 3 LANDFILL
SITE DEVELOPMENT
DETAILS

JOB NO. 2668
ENG. REQ. NO. 2-8313
FILE NO. 2-0927082

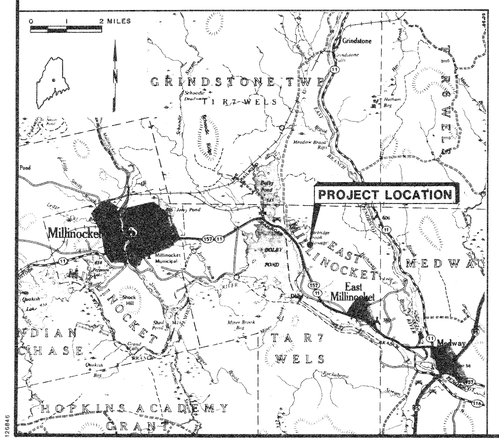
YB-14796-A

GREAT NORTHERN PAPER CO.
MILLINOCKET, MAINE

DOLBY 3 LANDFILL
CELL 3 CONSTRUCTION

RECORD DRAWINGS

TITLE	DWG. NO.
COVER SHEET	YB-15911
DOLBY 3 LANDFILL SYMBOLS & ABBREVIATIONS	YB-15912
DOLBY 3 LANDFILL SITE LOCATION PLAN	YB-15913
DOLBY 3 LANDFILL SITE DEVELOPMENT PLAN	YB-15914
DOLBY 3 LANDFILL SECTIONS & DETAILS	YB-15915



SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

1988

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY 3 LANDFILL
CELLS 3A AND 3B
COVER SHEET

JOB NO.
ENG. REQ. NO. 2-8627
FILE NO. 2-092-4703.7082

YB-15911

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (TRUE)			STONE WALL	TP-103	TP-103	TEST PIT & NUMBER
		NORTH ARROW (MAGNETIC)			DRAINAGE COURSES W/DIRECTION & DITCH	□	■	CLEAN OUT STRUCTURES
N		NORTH ARROW (PLAN NORTH)	SHORE SIDE		EDGE OF WATER	○	●	MANHOLE
25	25	CONTOUR LINES			WATER ELEVATION (GROUND OR SURFACE)	⌑	⌑	WATER VALVE
25 x 63	25.56	SPOT ELEVATION (GRADE)			ROCK OUTCROP OR LEDGE	⌑	⌑	HYDRANT
E.G.		EXISTING GROUND (PROFILES & SECTIONS)			FENCE LINE (WOOD)	⌑	⌑	TELEPHONE OR POWER POLE
S.B.L.		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WIRE)	⌑	⌑	CATCH BASIN
	0+00 1+00	CONSTRUCTION BASELINE	(STONE)	(CONC) FACE	RETAINING WALL (TYPE)	G	8" G	UNDERGROUND GAS MAIN & SIZE
		PROPERTY OR DEED LINE (NOT SURVEYED)			GUARD RAIL	T	T	UNDERGROUND TELEPHONE CABLE / CONDUIT
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE			BUILDING & STRUCTURES	E	E	UNDERGROUND ELECTRIC CABLE / CONDUIT
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			STEPS W/TYPE (WOOD / CONCRETE)	OE	OE	OVERHEAD ELECTRICAL LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		1:2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)		12"ACP	SANITARY SEWER, SIZE & TYPE
MON.	MON.	SURVEY MONUMENT		TOP OF SLOPE 2:1	SLOPES (W/SLOPE RATIO)		8" PVC	FORCE MAIN, SIZE & TYPE
I.F.	I.F.	SURVEY IRON (FOUND)			EDGE OF TRAVELED WAY (TYPE)		8" DI	WATER MAIN, SIZE & TYPE
D.H. PK. STK.	D.H. PK. STK.	DRILL HOLE, PK OR STAKE	C	F	CUT OR FILL LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CONSTRUCTION LIMIT LINE	UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (DECIDUOUS)			BITUMINOUS PAVEMENT		12" BCCMP	CULVERT, SIZE & TYPE
		INDIVIDUAL TREE (CONIFEROUS)			GRAVEL ROAD			RAILROAD
		TREE, TO BE REMOVED			CONCRETE		S S	SILTATION FENCE
		MARSH AREA	B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER			

PIPE SCHEDULE

2" HDPE SHALL BE SDR 17 WITH BUTT FUSED JOINTS.

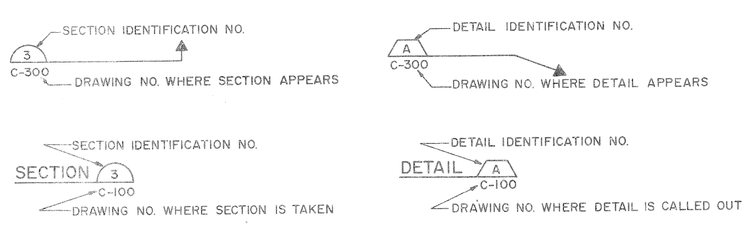
6" PVC SHALL BE SDR 21 WITH PUSH-ON JOINTS.

12" PVC SHALL BE SDR 26 WITH PUSH-ON JOINTS.

ABBREVIATIONS

A. C. C. M. P.	ASPHALT COATED C. M. P.
A. C. P.	ASBESTOS CEMENT PIPE
AC	ACRE
AGG.	AGGREATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ASB	ASBESTOS
ASPH	ASPHALT
AT2 C. M. P.	ALUMINUM TYPE 2 C. M. P.
AUTO	AUTOMATIC
AUX	AUXILLIARY
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH
B. C. C. M. P.	BITUMINOUS COATED C. M. P.
B. M.	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
C. B.	CATCH BASIN
C. M. P.	CORRUGATED METAL PIPE
C. O.	CLEAN OUT
CEM. LIN.	CEMENT LINED
CEN	CENTRAL ANGLE OF CURVE
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CTR	CENTER
CY	CUBIC YARD
D	DEGREE OF CURVE (ARC DEF.)
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DRG	DRAWING
EA	EACH
EG	EXISTING GROUND
ELEC	ELECTRIC
ELL	ELBOW
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
F. G.	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HYD	HYDRANT
I. D.	INSIDE DIAMETER
IN OR "	INCHES
INV	INVERT
INV. EL.	INVERT ELEVATION
LB	POUND
LIN. FT.	LINEAR FEET
LOC	LOCATION
LT	LEFT
M. H.	MANHOLE
M. J.	MECHAMICAL JOINT
MATL	MATERIAL
MAX.	MAXIMUM
MFR	MANUFACTURE
MIN.	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
N. I. T. C.	NOT IN THIS CONTRACT
N. T. S.	NOT TO SCALE
N/F	NOW OR FORMERLY
NO.	NUMBER
O. C.	ON CENTER
O. D.	OUTSIDE DIAMETER
P. C.	POINT OF CURVE
P. I.	POINT OF INTERSECTION
P. T.	POINT OF TANGENT
PERF	PERFORATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R. O. W.	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
V	VOLTS
W/	WITH
W/O	WITHOUT
YD	YARD

VIEW MARKERS & IDENTIFICATION



SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

JOB NO. 8804

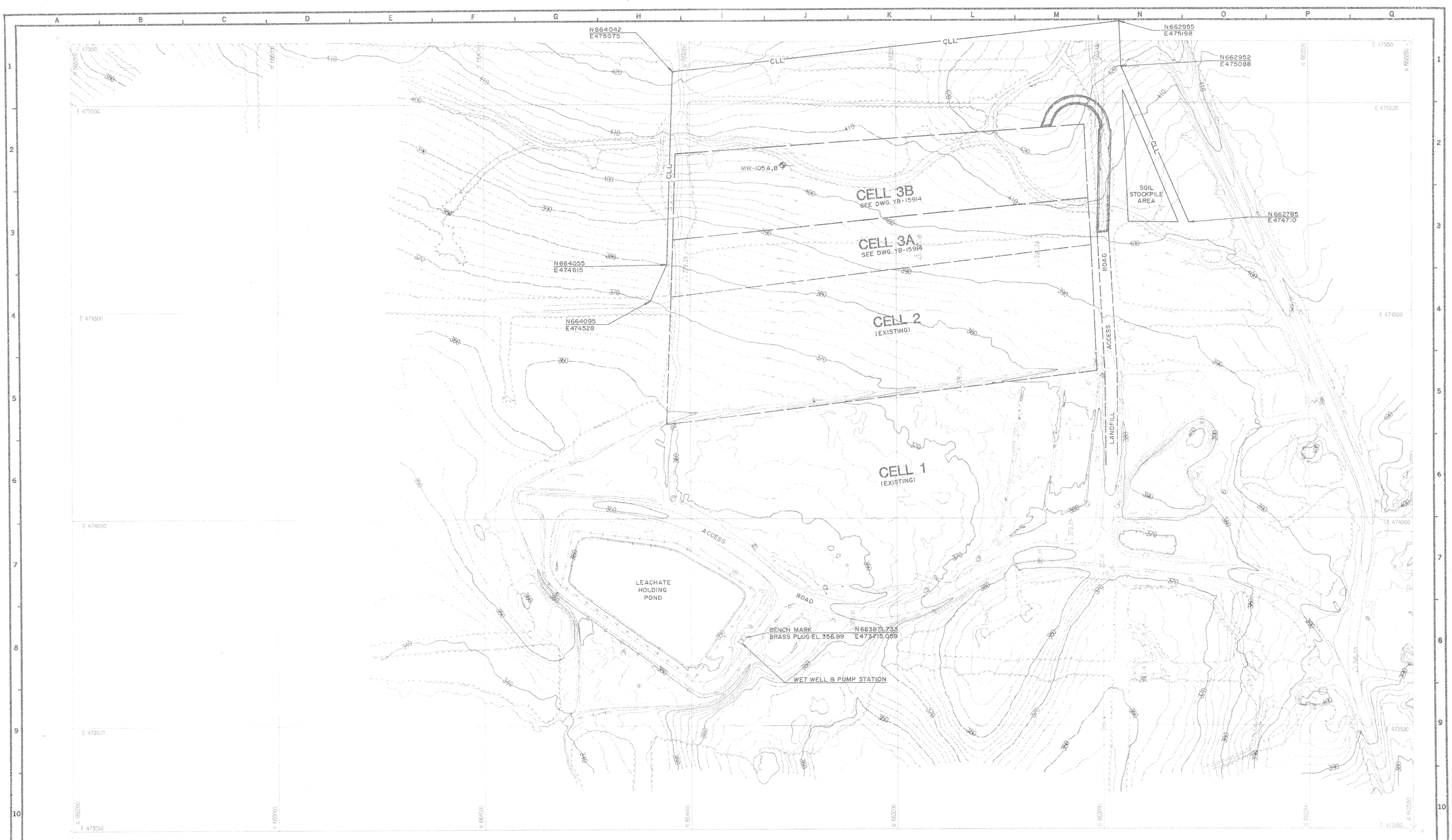
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY 3 LANDFILL
CELLS 3A AND 3B
SYMBOLS & ABBREVIATIONS

JOB NO.
ENG. REQ. NO. 2-8627
FILE NO. 2-092-4703,7082

YB-15912



YB-15263	DOLBY III LANDFILL AREA TOPOGRAPHIC SURVEY								
SHEET 1 of 2	AND DIGITIZATION AS OF DECEMBER 5, 1985								
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
					RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

JOB NO. 8804

DRN	P.A.F.	3/88
CKD		3/88
CKD		
CORR		
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONSY

SCALE 1" = 100'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY 3 LANDFILL
CELLS 3A AND 3B
SITE LOCATION PLAN

JOB NO.
ENG. REQ. NO. 2-8627
FILE NO. 2-092-4703, 7082

YB-15913

CONSTRUCTION NOTES

1. RODENT GUARD SHALL CONSIST OF 1/2" MESH GALVANIZED SCREEN CLAMPED TO OUTLET OF PIPE.
2. 6-INCH PIPE CAPS SHALL BE FERNCO QC106 PIPE CAPS OR EQUIVALENT.

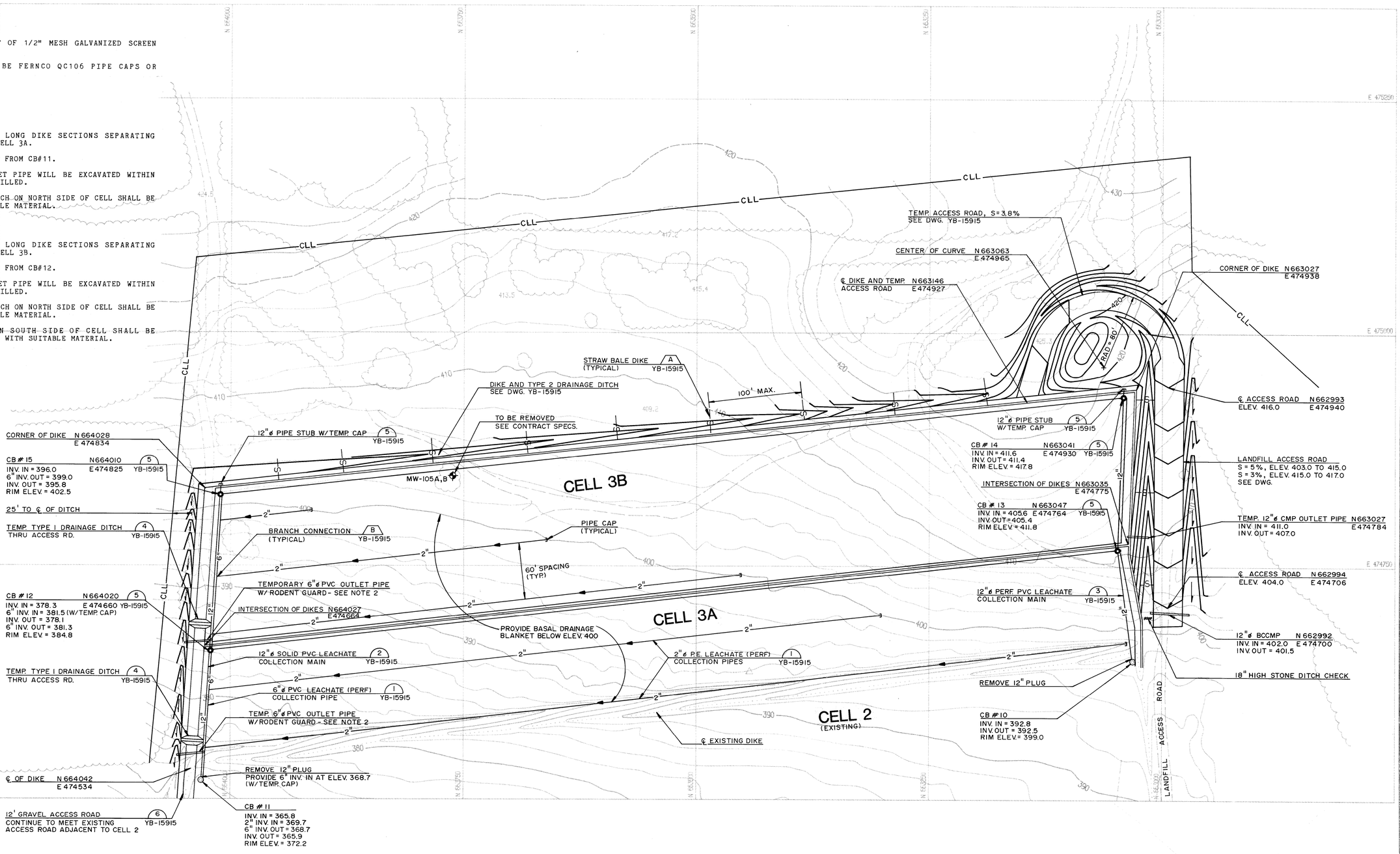
OPERATION NOTES

CELL 3A

1. REMOVE MINIMUM 15 FT LONG DIKE SECTIONS SEPARATING CB#10 AND CB#11 FROM CELL 3A.
2. REMOVE 6-INCH PIPE CAP FROM CB#11.
3. TEMPORARY 6-INCH OUTLET PIPE WILL BE EXCAVATED WITHIN DIKE, CAPPED AND BACKFILLED.
4. TEMPORARY DRAINAGE DITCH ON NORTH SIDE OF CELL SHALL BE BACKFILLED WITH SUITABLE MATERIAL.

CELL 3B

1. REMOVE MINIMUM 15 FT LONG DIKE SECTIONS SEPARATING CB#12 AND CB#13 FROM CELL 3B.
2. REMOVE 6-INCH PIPE CAP FROM CB#12.
3. TEMPORARY 6-INCH OUTLET PIPE WILL BE EXCAVATED WITHIN DIKE, CAPPED AND BACKFILLED.
4. TEMPORARY DRAINAGE DITCH ON NORTH SIDE OF CELL SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
5. TEMPORARY CULVERT ON SOUTH SIDE OF CELL SHALL BE REMOVED AND BACKFILLED WITH SUITABLE MATERIAL.



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APP'VD	JOB No.
YB-15800	DOLBY III LANDFILL - CELL III TOPOGRAPHIC SURVEY AND DIGITIZATION AS OF SEPTEMBER 4, 1987								

SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

JOB NO. 8804

DRN	PAF.	3/88
CKD	Hy Ek	3/88
CKD		
CORR.		
APP'VD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE 1" = 50'

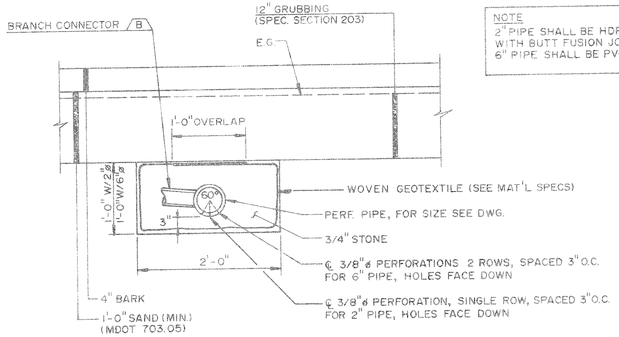
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY 3 LANDFILL
CELLS 3A AND 3B
SITE DEVELOPMENT PLAN

JOB NO.
ENG. REQ. NO. 2-8627
FILE NO. 2-092-4703, 7082

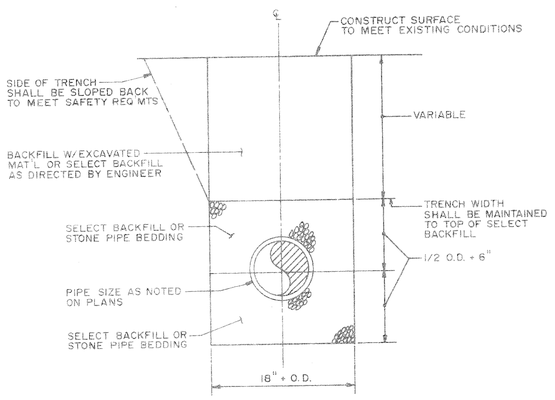
YB-15914



NOTE
2" PIPE SHALL BE HDPE, SDR-17 WITH BUTT FUSION JOINTS.
6" PIPE SHALL BE PVC, SDR- 21

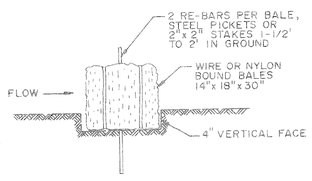
2-IN. 6-IN. LEACHATE COLLECTION PIPES / 1

SCALE: 1" = 1'-0"



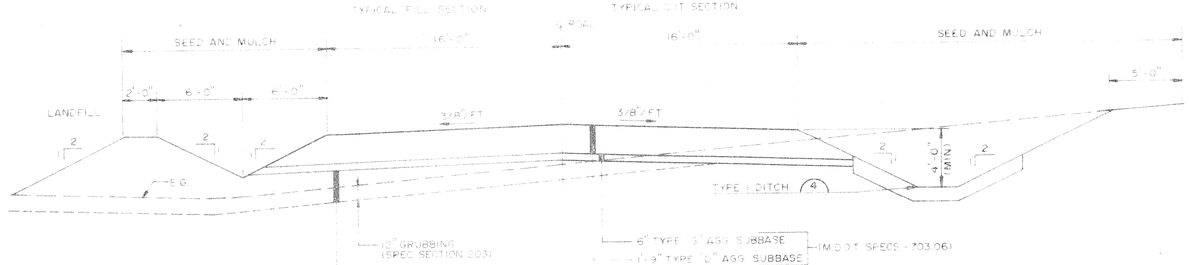
PIPE TRENCH / 2

N.T.S.



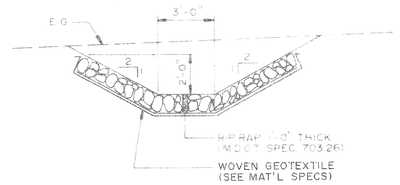
STRAW BALE DIKE / A

N.T.S.



TYPICAL SECTION LANDFILL ACCESS ROAD

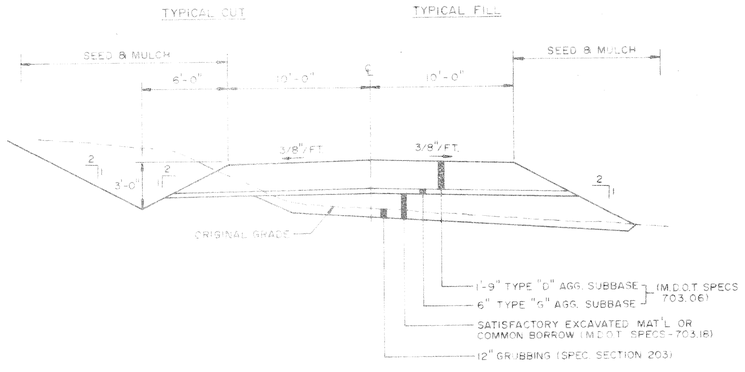
N.T.S.



TYPE I DITCH / 4

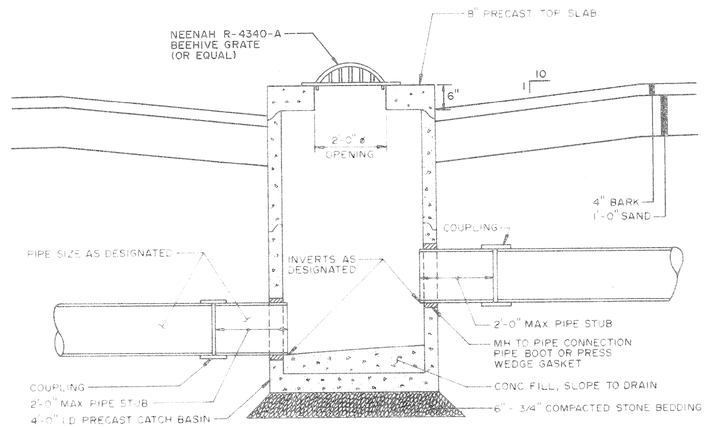
N.T.S.

NOTE: STONE OUTLET TO BECOME PERMANENT FEATURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIP RAP. AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.



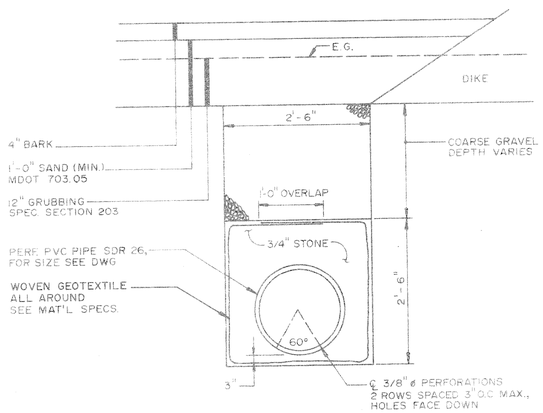
TYPICAL SECTION TEMPORARY ACCESS ROAD

N.T.S.



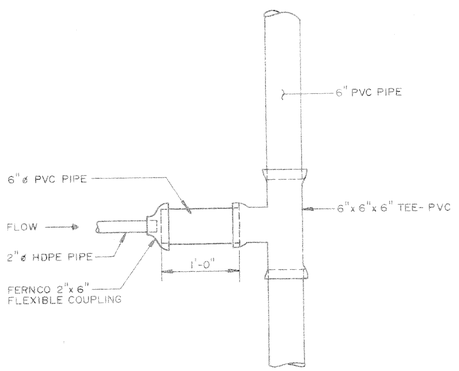
TYPICAL CATCH BASIN / 5

N.T.S.



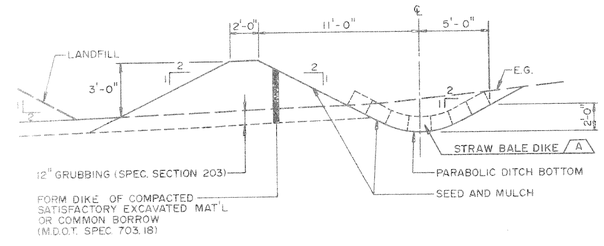
PERF. LEACHATE COLLECTION MAIN / 3

N.T.S.



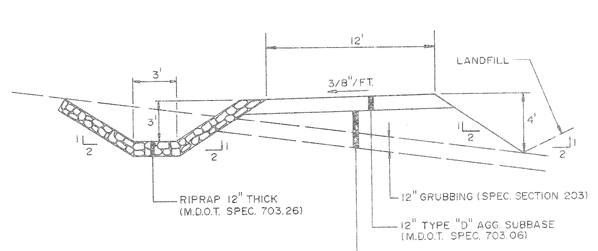
BRANCH CONNECTOR / B

N.T.S.



TYPICAL SECTION DIKE AND TYPE 2 DRAINAGE DITCH

SCALE: 1" = 5'



DIKE ACCESS ROAD / 6

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
			RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
WESTBROOK, MAINE

JOB NO. 8804

DRN	P.A.F.	3/88
CKD	[signature]	3/88
CKD		
CORR		
APPVD		

ISSUE CODE

P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST

SCALE AS SHOWN

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

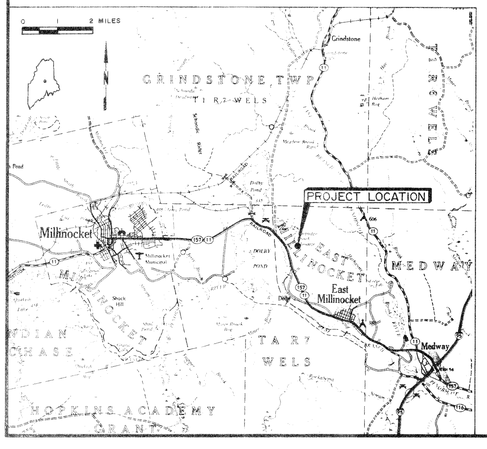
DOLBY 3 LANDFILL
CELLS 3A AND 3B
SECTIONS AND DETAILS

JOB NO.
ENG. REQ. NO. 2-8627
FILE NO. 2-092-4703,7082

YB-15915

GREAT NORTHERN PAPER CO.
MILLINOCKET, MAINE

DOLBY III LANDFILL
CELL 4 CONSTRUCTION



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1989

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY III LANDFILL
CELL 4
COVER SHEET

JOB NO. 94528
ENG. REQ. NO.
FILE NO 2-092-4703, 7082

YB-19000

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (TRUE)			STONE WALL	TP-103	TP-103	TEST PIT & NUMBER
		NORTH ARROW (MAGNETIC)			DRAINAGE COURSES W/DIRECTION & DITCH	□	■	CLEAN OUT STRUCTURES
N		NORTH ARROW (PLAN NORTH)	SHORE SIDE		EDGE OF WATER	○	●	MANHOLE
25	25	CONTOUR LINES			WATER ELEVATION (GROUND OR SURFACE)	⌑	⌑	WATER VALVE
25 x 63	x 25.56	SPOT ELEVATION (GRADE)			ROCK OUTCROP OR LEDGE	⌑	⌑	HYDRANT
E.G.		EXISTING GROUND (PROFILES & SECTIONS)			FENCE LINE (WOOD)	ϕ	ϕ	TELEPHONE OR POWER POLE
SB		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WIRE)	◎	◎	CATCH BASIN
	0+00 1+00	CONSTRUCTION BASELINE	(STONE)	(CONC) FACE	RETAINING WALL (TYPE)	G	8" G	UNDERGROUND GAS MAIN & SIZE
PL		PROPERTY OR DEED LINE (NOT SURVEYED)			GUARD RAIL	T	T	UNDERGROUND TELEPHONE CABLE/CONDUIT
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE			BUILDING & STRUCTURES	E	E	UNDERGROUND ELECTRIC CABLE/CONDUIT
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			STEPS W/TYPE (WOOD/CONCRETE)	OE	OE	OVERHEAD ELECTRICAL LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		2 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)		12"ACP	SANITARY SEWER, SIZE & TYPE
□ MON.	■ MON.	SURVEY MONUMENT		TOP OF SLOPE 2 1	SLOPES (W/SLOPE RATIO)		8" PVC	FORCE MAIN, SIZE & TYPE
○ I.F.	● I.F.	SURVEY IRON (FOUND)			EDGE OF TRAVELED WAY (TYPE)		8" DI	WATER MAIN, SIZE & TYPE
D.H. ○ PK. STK.	D.H. ● PK. STK.	DRILL HOLE, PK OR STAKE		C F	CUT OR FILL LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CONSTRUCTION LIMIT LINE	UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (DECIDUOUS)			BITUMINOUS PAVEMENT		12" BCCMP	CULVERT, SIZE & TYPE
		INDIVIDUAL TREE (CONIFEROUS)			GRAVEL ROAD			RAILROAD
		TREE, TO BE REMOVED			CONCRETE		S S	SILTATION FENCE
		MARSH AREA	B-12 MW-2 F-20	B-12 MW-2 F-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER			

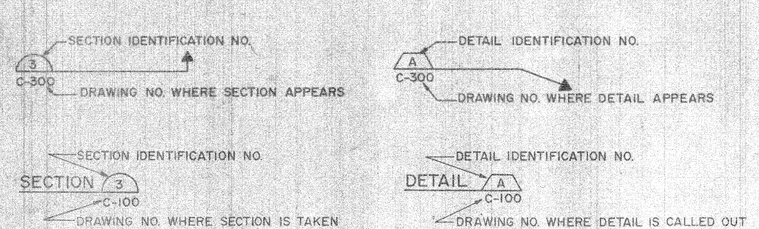
PIPE SCHEDULE

12" PVC SHALL BE SDR 26 WITH PUSH-ON JOINTS.

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	CONC	CONCRETE	FPS	FEET PER SECOND	NO.	NUMBER
A.C.P.	ASBESTOS CEMENT PIPE	CONST	CONSTRUCTION	FT OR '	FEET	O.C.	ON CENTER
AC	ACRE	CONTR	CONTRACTOR	FTG	FOOTING	O.D.	OUTSIDE DIAMETER
AGG.	AGGREATE	CTR	CENTER	GA	GAUGE	P.C.	POINT OF CURVE
ALUM	ALUMINUM	CY	CUBIC YARD	GAL	GALLON	P.I.	POINT OF INTERSECTION
APPD	APPROVED	D	DEGREE OF CURVE (ARC DEF.)	GALV	GALVANIZED	P.T.	POINT OF TANGENT
APPROX.	APPROXIMATE	DBL	DOUBLE	GPD	GALLONS PER DAY	PERF.	PERFORATED
ASB	ASBESTOS	DEG OR °	DEGREE	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH
ASPH	ASPHALT	DEPT	DEPARTMENT	HDPE	HIGH DENSITY POLYETHYLENE	PVC	POLYVINYL CHLORIDE
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	DI	DUCTILE IRON	HP	HORSEPOWER	PVMT	PAVEMENT
AUTO	AUTOMATIC	DIA OR Ø	DIAMETER	HYD	HYDRANT	QTY	QUANTITY
AUX	AUXILIARY	DIM	DIMENSION	I.D.	INSIDE DIAMETER	R.O.W.	RIGHT OF WAY
AVE	AVENUE	DIST	DISTANCE	IN OR "	INCHES	RAD	RADIUS
AVG	AVERAGE	DN	DOWN	INV	INVERT	REQD	REQUIRED
AZ	AZIMUTH	DR	DRAIN	INV. EL.	INVERT ELEVATION	RT	RIGHT
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DRNG	DRAINING	LB	POUND	RTE	ROUTE
B.M.	BENCH MARK	EA	EACH	LIN. FT.	LINEAR FEET	S	SLOPE
BIT	BITUMINOUS	EG	EXISTING GROUND	LOC	LOCATION	SCH	SCHEDULE
BLDG	BUILDING	ELEC	ELECTRIC	LT	LEFT	SF	SQUARE FEET
BOT	BOTTOM	ELL	ELBOW	M.H.	MANHOLE	SHT	SHEET
BRG	BEARING	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT	STA	STATION
C.B.	CATCH BASIN	EST	ESTIMATED	MATL	MATERIAL	SY	SQUARE YARD
C.M.P.	CORRUGATED METAL PIPE	ETC	EXCAVATE	MAX	MAXIMUM	TAN	TANGENT
C.O.	CLEAN OUT	EXIST	EXISTING	MFR	MANUFACTURE	TDH	TOTAL DYNAMIC HEAD
CEM. LIN.	CEMENT LINED	F.G.	FINISH GRADE	MIN.	MINIMUM	TEMP	TEMPORARY
CEN	CENTRAL ANGLE OF CURVE	FBRGL	FIBERGLASS	MISC	MISCELLANEOUS	TYP	TYPICAL
CF	CUBIC FEET	FDN	FOUNDATION	MON	MONUMENT	V	VOLTS
CFS	CUBIC FEET PER SECOND	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT	W/	WITH
CI	CAST IRON	FLG	FLANGE	N.T.S.	NOT TO SCALE	W/O	WITHOUT
CL	CLASS	FLR	FLOOR	N/F	NOW OR FORMERLY	YD	YARD

VIEW MARKERS & IDENTIFICATION



STATE OF MAINE PETER M. MAHER 24107 REGISTERED PROFESSIONAL ENGINEER

PMM

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 8932

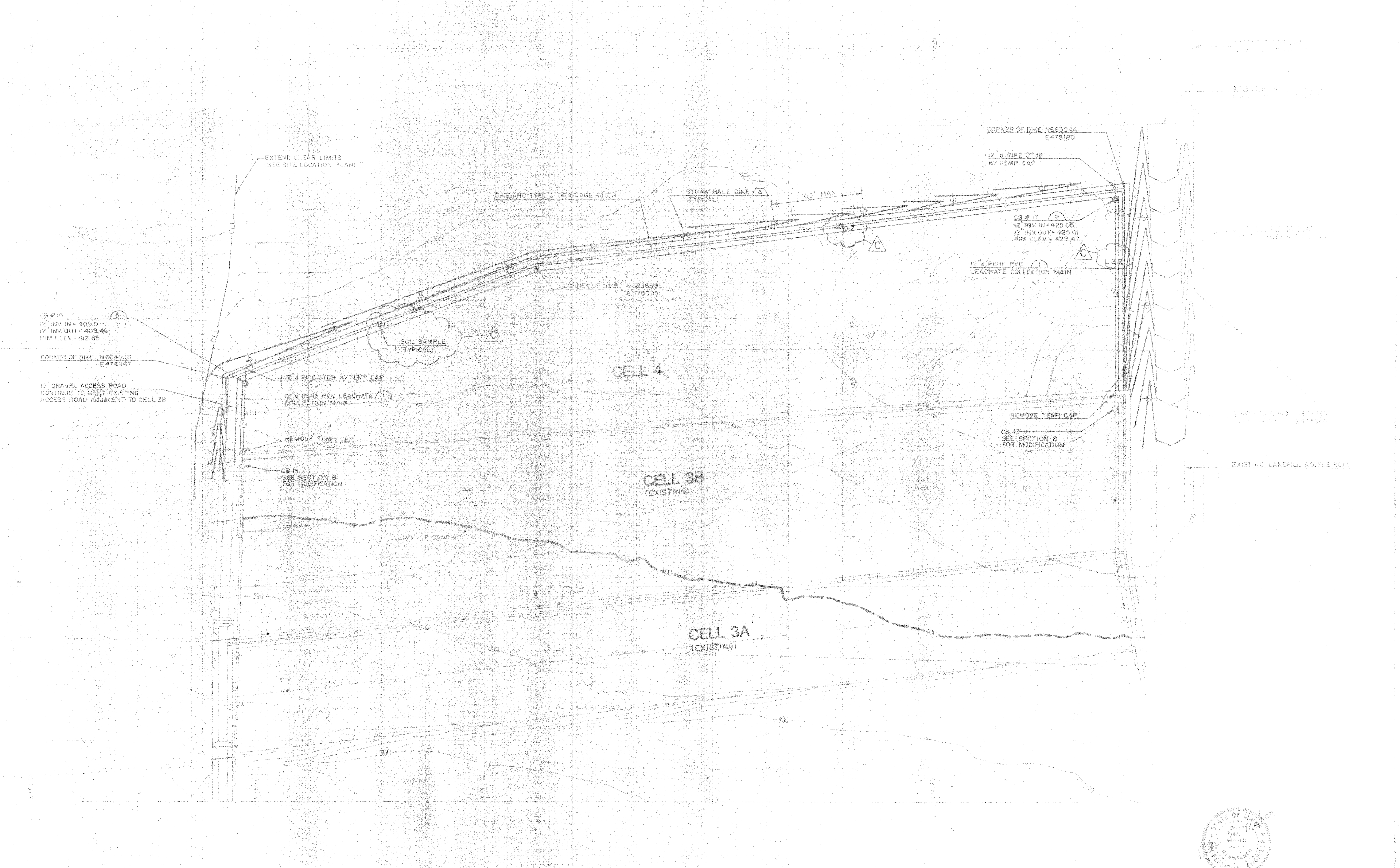
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY III LANDFILL
CELL 4
SYMBOLS & ABBREVIATIONS

JOB NO. 94528
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19001



CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
			RECORD DRAWING	MHC	BLK		
	C	2-9-90	SOIL SAMPLE POINTS ADDED	MHC	BLK		
	B	2-9-90	CATCH BASIN MODIFICATIONS & P.E. SEAL	MHC	BLK		
	A	1-4-90	MANHOLE ELEVATIONS	MHC	BLK		
C		10/89	RELEASED FOR CONSTRUCTION	BLK	BLK		

DRAWING NO.	REFERENCE DRAWING TITLE
YB-15914	DOLBY III LANDFILL, CELLS 3A AND 3B, SITE DEVELOPMENT PLAN
	RECORD DRAWING

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 8932

DWN	PAF	8/89
CKD	MHC	8/89
CKD	BLK	1/4/90
CORR		
APPVD		

ISSUE CODE
P - PRELIM | B - BIDS
M - MTL.T.O. | C - CONST
SCALE 1" = 50'

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Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 4
SITE DEVELOPMENT PLAN

YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION			2-6-90	RECORD DRAWING	MHC	BLK		
1 of 2	AS OF DECEMBER 5, 1985	C		10/87	RELEASED FOR CONSTRUCTION	MHC	BLK		
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

PETER M. MAHER 3402 REGISTERED PROFESSIONAL ENGINEER STATE OF MAINE

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 8932

DRN	PAF	8/89
CKD	MHC	8/89
CKD	BLK	9/89
CORR		
APPVD		

ISSUE CODE

P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE	1" = 100'

Great Northern Paper
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Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 4
SITE LOCATION PLAN

JOB NO. 94528
ENG. REQ. NO.
FILE NO. E-092-4703,7082

YB-19002
SHEET 1 OF 2

CELL 4

LANDFILL ACCESS ROAD

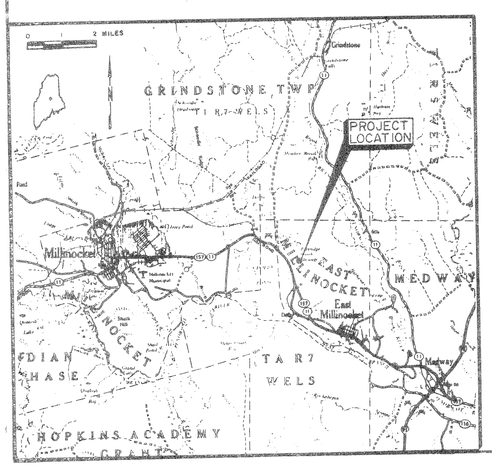
SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

Great Northern Paper


NEENAH R-4340-A BEEHIVE GRATE (OR EQUAL)
8" PRECAST TOP SLAB
2'-0" ø OPENING
4" BARK
1'-0" SAND
COUPLING
PIPE SIZE AS DESIGNATED
INVERTS AS DESIGNATED
2'-0" MAX. PIPE STUB
MH TO PIPE CONNECTION PIPE BOOT OR PRESS WEDGE GASKET
CONC. FILL, SLOPE TO TRAIN
6" - 3/4" COMPACTED STONE BEDDING
COUPLING
2'-0" MAX. PIPE STUB
4'-0" I.D. PRECAST CATCH BASIN
CATCH BASIN (5)
N.T.S.
A
TYPICAL FILL SECTION
TYPICAL CUT SECTION
SEED AND MULCH
16'-0"
16'-0"
SEED AND MULCH
LANDFILL
3/8"/FT.
3/8"/FT.
E.G.
TYPE I DITCH (4)
12" GRUBBING (SPEC. SECTION 203)
SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPEC - 703.18)
6" TYPE "G" AGG. SUBBASE
1'-9" TYPE "D" AGG. SUBBASE
(M.D.O.T. SPECS - 703.06)
3" AGG. - UNTREATED SURFACE COURSE (M.D.O.T. SPECS - 703.10)
TYPICAL SECTION
LANDFILL ACCESS ROAD
N.T.S.
E.G.
TYPE I DITCH (4)
N.T.S.
NOTE: STONE OUTLET TO BECOME PERMANENT RIPRAP. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIPRAP. AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.
TYPICAL CUT
TYPICAL FILL
SEED & MULCH
SEED & MULCH
6'-0"
10'-0"
10'-0"
3/8"/FT.
3/8"/FT.
3'-0"
ORIGINAL GRADE
1'-9" TYPE "D" AGG. SUBBASE
6" TYPE "G" AGG. SUBBASE
(M.D.O.T. SPECS 703.06)
SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPECS-703.18)
12" GRUBBING (SPEC. SECTION 203)
TYPICAL SECTION
TEMPORARY ACCESS ROAD
N.T.S.
E.G.
DIKE
2'-6"
COARSE GRAVEL DEPTH VARIES
1'-0" OVERLAP
3/4" STONE
PERF. PVC PIPE SDR 26, FOR SIZE SEE DWG
WOVEN GEOTEXTILE ALL AROUND SEE MAT'L SPECS.
60°
2'-6"
3"
℄ 3/8" ø PERFORATIONS 2 ROWS SPACED 3" O.C. MAX., HOLES FACE DOWN
PERF. LEACHATE COLLECTION MAIN (1)
N.T.S.
NEENAH R-4340-A BEEHIVE GRATE (OR EQUAL)
8" PRECAST TOP SLAB
1/4" GALVANIZED SCREEN MESH WRAPPED ALL AROUND
2'-0" ø OPENING
E.G.
3/4" STONE BACKFILL
4' I.D. PRECAST CONC. DRY WELL SUPERIOR CONC. ITEM NO. 605 OR EQUAL
PIPE SIZE AS DESIGNATED
INVERTS AS DESIGNATED
COUPLING
2'-0" MAX. PIPE STUB
MH TO PIPE CONNECTION PIPE BOOT OR PRESS WEDGE GASKET
CONC. FILL, SLOPE TO DRAIN
6" - 3/4" COMPACTED STONE BEDDING
COUPLING
2'-0" MAX. PIPE STUB
4'-0" I.D. PRECAST CONC. BASE SUPERIOR CONC. ITEM NO. 150 OR EQUAL
CATCH BASIN MODIFICATION (6)
N.T.S.
A
2 RE-BARS PER BALE, STEEL PICKETS OR 2" x 2" STAKES 1-1/2' TO 2' IN GROUND
WIRE OR NYLON BOUND BALES 14" x 18" x 30"
FLOW
4" VERTICAL FACE
STRAW BALE DIKE (A)
N.T.S.
12'
3'
3/8"/FT.
LANDFILL
4'
RIPRAP 12" THICK (M.D.O.T. SPEC. 703.26)
12" GRUBBING (SPEC. SECTION 203)
12" TYPE "D" AGG. SUBBASE (M.D.O.T. SPEC. 703.06)
FORM DIKE OF COMPACTED SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPEC 703.18)
DIKE ACCESS ROAD (3)
2'-0"
11'-0"
LANDFILL
3'-0"
E.G.
12" GRUBBING (SPEC. SECTION 203)
FORM BERM OF COMPACTED SATISFACTORY EXCAVATED MAT'L OR COMMON BORROW (M.D.O.T. SPEC. 703.18)
PARABOLIC DITCH BOTTOM
SEED AND MULCH
TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH
SCALE: 1" = 5'
RECORD DRAWING
A
CATCH BASIN MODIFICATIONS & PE SEAL
C
RELEASED FOR CONSTRUCTION
DRAWING NO.
REFERENCE DRAWING TITLE
CODE
NO.
DATE
REVISION
BY
CKD
APP'D
JOB No.
SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
JOB NO. 8932
ISSUE CODE
SCALE AS SHOWN
Great Northern Paper
a company of Great Northern Nekoosa Corporation
CENTRAL ENGINEERING DEPARTMENT
SECTIONS AND DETAILS
YB-19004

GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION
MILLINOCKET, MAINE
DOLBY III LANDFILL
REMEDIAL ACTIONS CELLS 1 AND 2

SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19176
2	SYMBOLS & ABBREVIATIONS	YB-19177
3	SITE LOCATION PLAN	YB-19178
4	EXISTING TOPOGRAPHY PLAN - CELL 1	YB-19179
5	EXISTING TOPOGRAPHY PLAN - CELL 2	YB-19180
6	SECTIONS & DETAILS	YB-19181



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990

STATE OF MAINE PETER [illegible] MAINE 6411 REGISTERED PROFESSIONAL ENGINEER

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
COVER SHEET

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4307, 7082

YB-19176

SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
25	25	CONTOUR LINES
25.63	25.56	SPOT ELEVATION (GRADE)
E.G.		EXISTING GROUND (PROFILES & SECTIONS)
S.B.		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT
0+00	1+00	CONSTRUCTION BASELINE
P.L.		PROPERTY OR DEED LINE (NOT SURVEYED)
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE
		ROADS, EASEMENTS OR RIGHT OF WAY LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)
MON.	MON.	SURVEY MONUMENT
I.F.	I.F.	SURVEY IRON (FOUND)
D.H. PK. STK.	D.H. PK. STK.	DRILL HOLE, PK OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE (DECIDUOUS)
		INDIVIDUAL TREE (CONIFEROUS)
		TREE, TO BE REMOVED
		MARSH AREA

EXISTING	PROPOSED	
		STONE WALL
		DRAINAGE COURSES W/DIRECTION & DITCH
SHORE SIDE		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		ROCK OUTCROP OR LEDGE
		FENCE LINE (WOOD)
		FENCE LINE (WIRE)
(STONE)	(CONC) FACE	RETAINING WALL (TYPE)
		GUARD RAIL
		BUILDING & STRUCTURES
		STEPS W/TYPE (WOOD/CONCRETE)
	2 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
	TOP OF SLOPE 2 1	SLOPES (W/SLOPE RATIO)
		EDGE OF TRAVELED WAY (TYPE)
C	F	CUT OR FILL LINE
	CLL	CONSTRUCTION LIMIT LINE
		BITUMINOUS PAVEMENT
		GRAVEL ROAD
		CONCRETE
B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER

EXISTING	PROPOSED	
TP-103	TP-103	TEST PIT & NUMBER
		CLEAN OUT STRUCTURES
		MANHOLE
		WATER VALVE
		HYDRANT
		TELEPHONE OR POWER POLE
		CATCH BASIN
G	8" G	UNDERGROUND GAS MAIN & SIZE
T	T	UNDERGROUND TELEPHONE CABLE/CONDUIT
E	E	UNDERGROUND ELECTRIC CABLE/CONDUIT
OE	OE	OVERHEAD ELECTRICAL LINE
	12" ACP	SANITARY SEWER, SIZE & TYPE
	8" PVC	FORCE MAIN, SIZE & TYPE
	8" DI	WATER MAIN, SIZE & TYPE
	12" RCP	STORM DRAIN, SIZE & TYPE
UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
	12" BCCMP	CULVERT, SIZE & TYPE
		RAILROAD
S	S	SILTATION FENCE

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO., OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONST	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.T.	POINT OF TANGENT	W/	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPARTMENT	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR '	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

MATERIAL SPECIFICATIONS

SAND - MDOT SPECIFICATION 703.06b, TYPE F (AGGREGATE FOR SAND LEVELING) PERMEABILITY $\geq 1 \times 10^{-3}$ cm/sec

COVER SOIL - WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE. NO STONES GREATER THAN 4 INCHES IN DIAMETER (COMPACTED 85 PERCENT STANDARD PROCTOR) A

TOP COVER SOIL - A MIXTURE OF WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE AND SECONDARY SLUDGE. NO STONES GREATER THAN 3 INCHES IN DIAMETER A

SLUDGE - HOMOGENEOUS SECONDARY SLUDGE AS RECEIVED FROM MILL.

MATERIAL TESTING SCHEDULE A

BORROW SOURCE	TEST	FREQUENCY
COVER SOIL	GRAIN SIZE	4 TEST
SAND	GRAIN SIZE	2 TEST
SAND	PERMEABILITY	2 TEST
ON-SITE		
COVER SOIL	GRAIN SIZE	1/2000 CY
SAND	GRAIN SIZE	4 TEST
SAND	PERMEABILITY	1/5000 CY

TEST METHODS

GRAIN SIZE	ASTM D422
PERMEABILITY	ASTM D2434

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION: 3 / C-300 — DRAWING WHERE SECTION OR DETAIL APPEARS

DETAIL IDENTIFICATION & LETTER: MANHOLE A — C-300

SECTION TITLE & NO.: ACCESS ROAD 3 — DRAWING WHERE SECTION IS TAKEN: C-100

DETAIL TITLE & LETTER: MANHOLE A — DRAWING WHERE DETAIL IS CALLED OUT: C-100

STATE OF MAINE PETER MAHER #4107 REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APP'D	JOB No.
		B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1	PMC			

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRM	RLR	7/90
CKD	PMC	8/90
CKD		
CORR		
APP'D		

ISSUE CODE: B - BIDS

SCALE

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
SYMBOLS & ABBREVIATIONS

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-19177

MATCH LINE SHEET 2

CELL 5

CELL 4

CELL 3B

CELL 3A

CELL 2

CELL 1

NOTE: CONTOURS SHOWN E 475000 MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE

BOULDER STOCKPILE AREA

ROAD

ACCESS

LANDFILL

LIMITS OF CONSTRUCTION

ACCESS

LEACHATE HOLDING POND

36" BCCMP

BENCH MARK
N663871.733
BRASS PLUG EL. 356.99 E473715.059

WET WELL & PUMP STATION

SEDIMENT POND OUTLET STRUCTURE C YB-19181

LEVEL SPREADER (TYP.) D YB-19181

E 475150
E 475000
E 474500
E 474000
E 473500
E 473250
N 665500
N 665000
N 664500
N 664000
N 663500
N 663000
N 662500
N 662250

STATE OF MAINE PETER W. MAHER #6107 REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE
YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		12/90	RECORD DRAWING				

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRN	R.L.R.	7/90
CKD	M. Cote	8/90
CKD		
CORR		
APPVD		
ISSUE CODE		
C-CONST		
SCALE	1" = 100'	

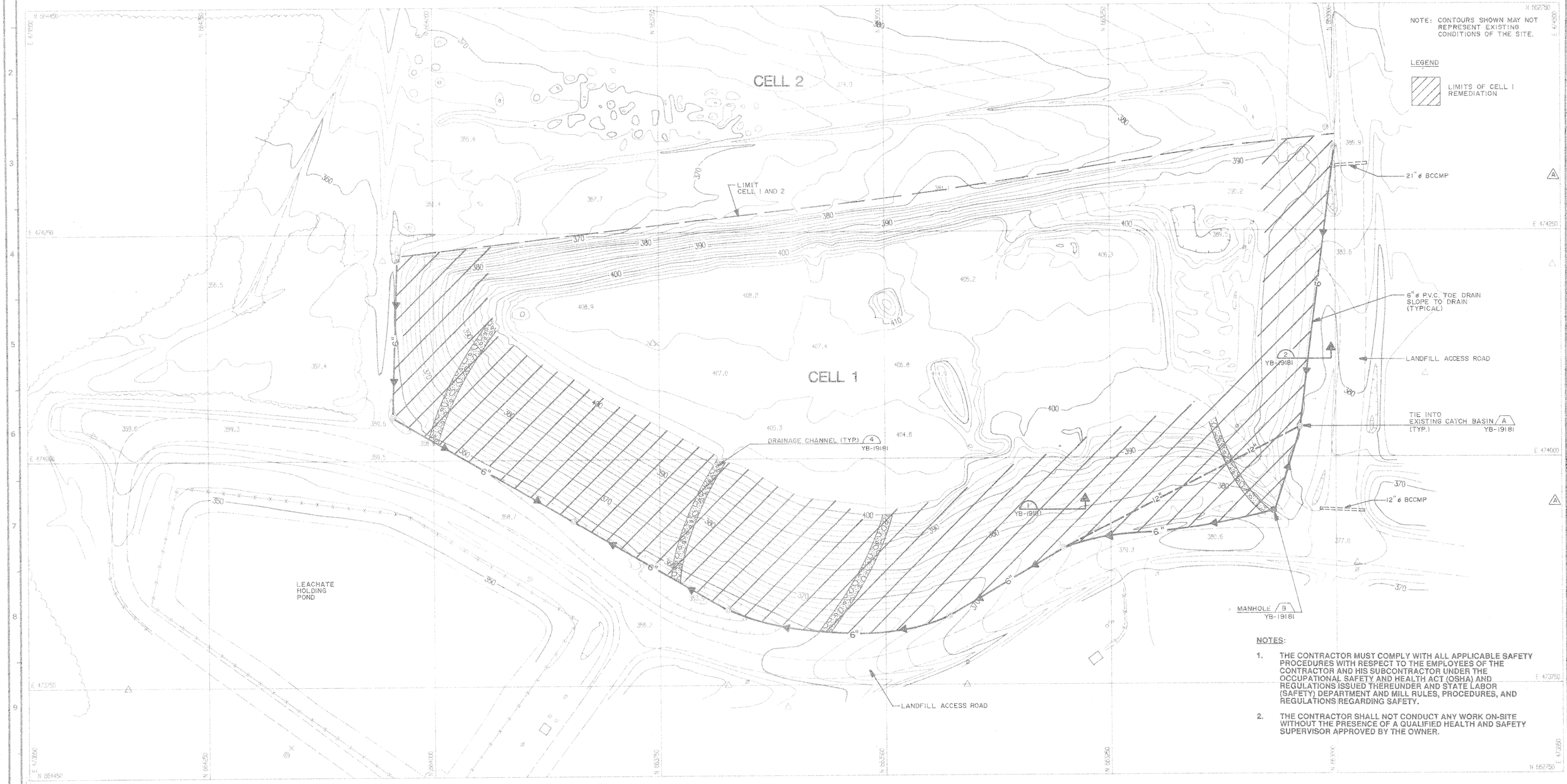
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
SITE LOCATION PLAN

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-19178



NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

STATE OF MAINE — PETER J. MAHER — #1707 — REGISTERED PROFESSIONAL ENGINEER

YB-15798	DOLBY III LANDFILL-CELL 1, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87)	B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1	PJM			
				12/90	RECORD DRAWING	PJM			
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

SEVEE & MAHER ENGINEERS, INC.

CUMBERLAND, MAINE

DRN	RLR 7/90
CKD	PJM 8/90
CKD	
CORP	
APPVD	
ISSUE CODE	
	C-CONST
SCALE	1" = 50'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

JOB NO. YB-19179
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND

LIMITS OF CELL 1 REMEDIATION

CELL 2

CELL 1

LIMIT CELL 1 AND 2

21" ø BCCMP

6" ø P.V.C. TOE DRAIN SLOPE TO DRAIN (TYPICAL)

LANDFILL ACCESS ROAD

TIE INTO EXISTING CATCH BASIN A (TYP.) YB-19181

12" ø BCCMP

DRAINAGE CHANNEL (TYP) 4 YB-19181

YB-19181 2

YB-19181 1

YB-19181 7

MANHOLE B YB-19181

LEACHATE HOLDING POND

LANDFILL ACCESS ROAD

6"

12"

50'

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

STATE OF MAINE PETER N. MAHER No. 107 REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	SURFACE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHD	APPRD	ORD NO.
YB-15798	DOLBY III LANDFILL-CELL 1, TOPOGRAPHIC SURVEY & DIGITIZ.(9/4/87)	B		12/90	RECORD DRAWING	HJK			
		A		8/20/90	ISSUED FOR BID - ADDENDUM 1	HJK			

SEVEE & MAHER ENGINEERS, INC.

CUMBERLAND, MAINE

DWN: RLR 7/90
CKD: H.J.K. 8/90
CKD:
CORR:
APPD:
ISSUE CODE: [redacted] C CONST
SCALE: 1" = 50'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-19179A

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND

LIMITS OF CELL 1 REMEDIATION

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

STATE OF MAINE — PETER T. MAHER — 4107 — REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
				12/90	RECORD DRAWING	GMC			
YB-15798	DOLBY III LANDFILL-CELL 1, TOPOGRAPHIC SURVEY & DIGITIZ.(9/4/87)	B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1	MHC			

SEVEE & MAHER ENGINEERS, INC.

CUMBERLAND, MAINE

DRN RLR 7/90
CKD M. Cote 8/90

ISSUE CODE [redacted] C-CONST

SCALE 1" = 50'

Great Northern Paper
a company of Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 1

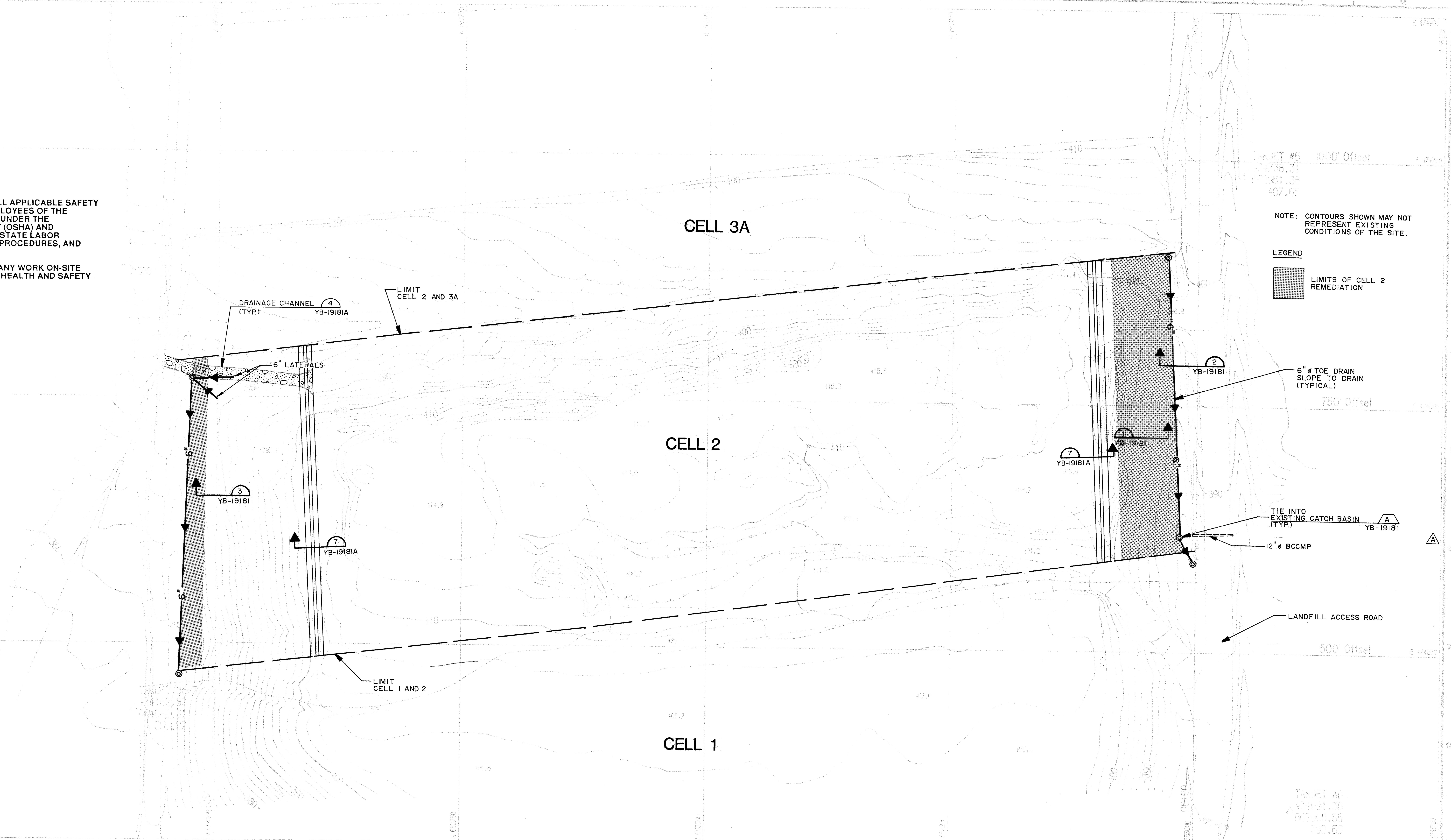
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-19179A

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



			12/90	RECORD DRAWING	
YB-15799	DOLBY III LANDFILL-CELL 2, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87)	B	A 8/20/90	ISSUED FOR BID - ADDENDUM I	

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

RCR 7/90
M. Gte 8/90

Great Northern Paper
a company of Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

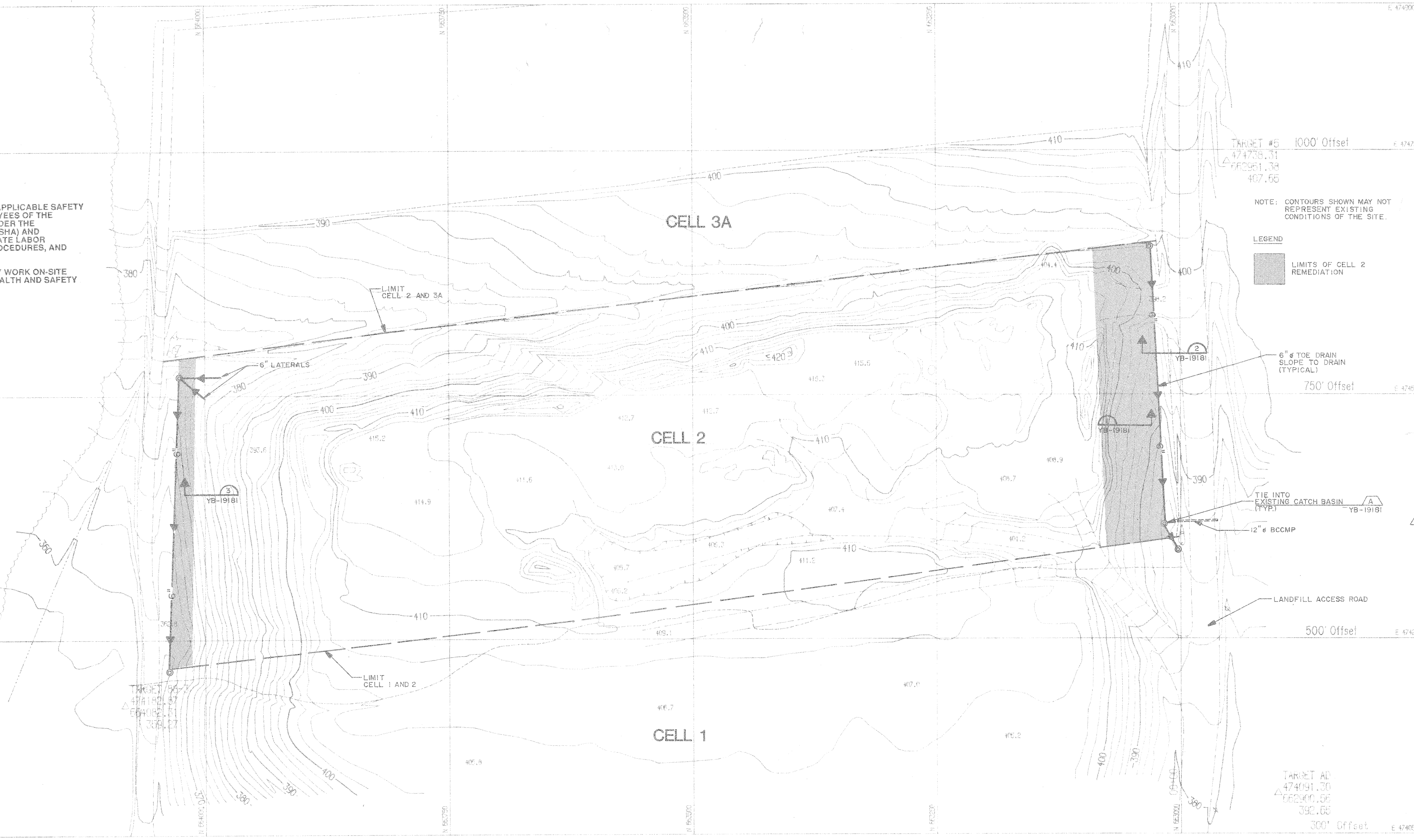
DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 2

2-092-4703, 7082

YB-19180A

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.



NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

LEGEND

LIMITS OF CELL 2 REMEDIATION

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				12/90	RECORD DRAWING				
YB-15799	DOLBY III LANDFILL-CELL 2, TOPOGRAPHIC SURVEY & DIGITIZ. (9/4/87)	B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1				

SEVEE & MAHER ENGINEERS, INC.

CUMBERLAND, MAINE

DRN RCR 7/90
CKD G. Cote 8/90
CKD
CORR
APPVD
ISSUE CODE
C - CONST
SCALE 1"=50'

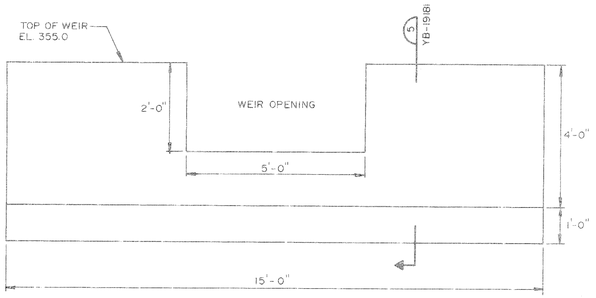
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
EXISTING TOPOGRAPHY PLAN - CELL 2

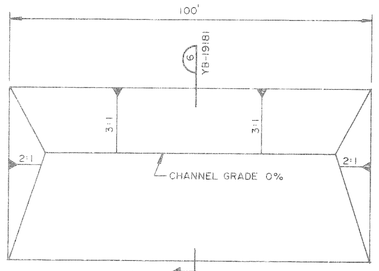
JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-19180

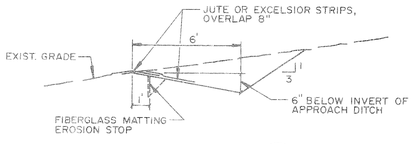


SECTION 5
YB-19181

WEIR DETAIL C
SCALE: 1" = 2'-0" YB-19178

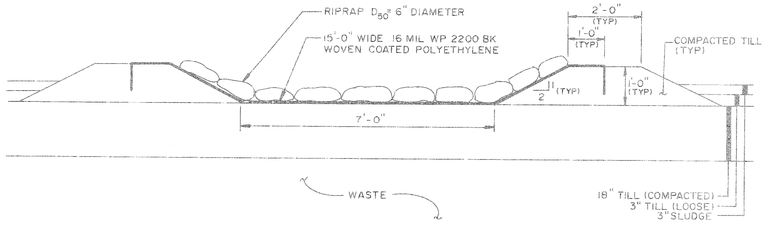


NOTE: LAST 20 FT. OF DRAINAGE DITCH NOT TO EXCEED 1% GRADE

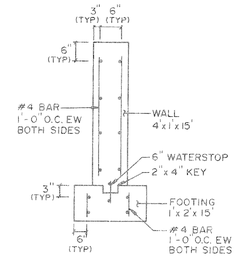


SECTION 6
YB-19181

LEVEL SPREADER D
N.T.S. YB-19178

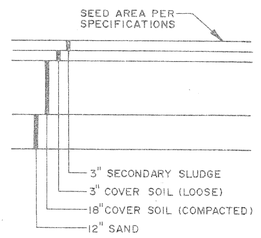


SIDESLOPE DRAINAGE CHANNELS 4
SCALE: 1" = 2'-0" YB-19179



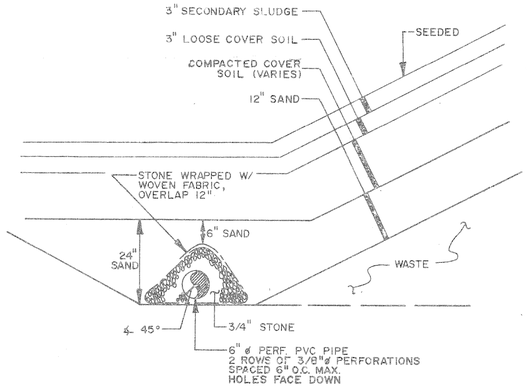
SECTION 5
YB-19181

WEIR DETAIL C
SCALE: 1" = 2'-0" YB-19178

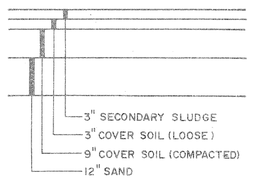


NOTE: SOUTHERN SIDE OF CELL 2 AND ALONG ENTIRE FACE OF CELL 1 AS SHOWN ON EXISTING TOPOGRAPHY PLANS.

FINAL COVER SECTION 1
SCALE: 1" = 2'-0" YB-19179 YB-19180

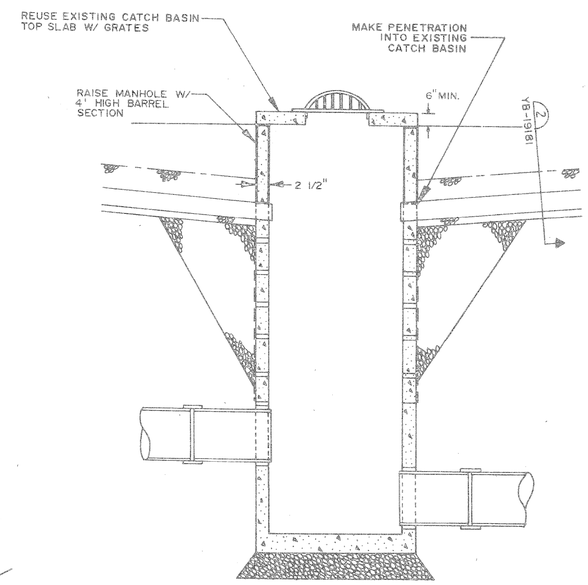


TOE DRAIN SECTION 2
N.T.S. YB-19179 YB-19180

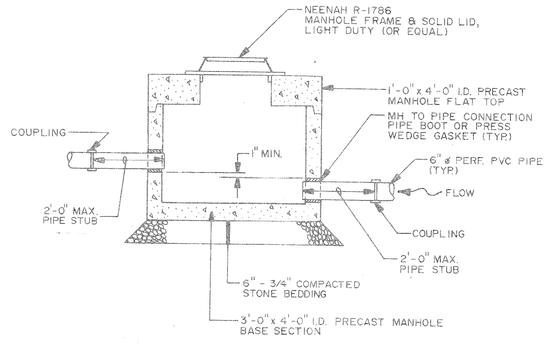


NOTE: NORTHERN SIDE OF CELL 2 SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE SLOPE COVER SECTION 3
SCALE: 1" = 2'-0" YB-19180



CATCH BASIN A
N.T.S. (EXISTING) YB-19179 YB-19180



MANHOLE B
SCALE: 1" = 2'-0" YB-19179

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		12/90	RECORD DRAWING				
B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1				

STATE OF MAINE — PETER M. MAHER — #5107 — REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

DRN	RCR	7/90
CED	AC Gile	8/90
CKD		
CORR		
APPVD		

ISSUE CODE: C-CONST
SCALE AS SHOWN

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

A
CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

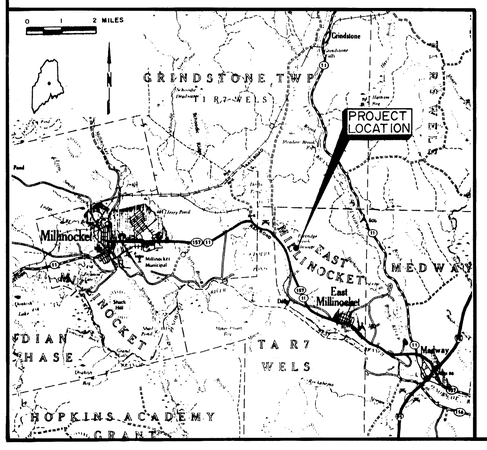
DOLBY III LANDFILL
REMEDIAL ACTIONS - CELL 1 & 2
SECTIONS & DETAILS

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-19181

GEORGIA-PACIFIC, NORTHERN PAPERS DIVISION
MILLINOCKET, MAINE
DOLBY III LANDFILL
FINAL COVER OF CELLS 3A, 3B AND 4

SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19167
2	SYMBOLS & ABBREVIATIONS	YB-19168
3	SITE LOCATION PLAN	YB-19169
4	EXISTING TOPOGRAPHY PLAN	YB-19170
5	SECTIONS & DETAILS	YB-19171



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990

STATE OF MAINE · PETER J. MAHER · 5A107 · REGISTERED PROFESSIONAL ENGINEER

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
COVER SHEET

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703, 7082

YB-19167

SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
25	25	CONTOUR LINES
25 x 63	x 25.56	SPOT ELEVATION (GRADE)
E.G.		EXISTING GROUND (PROFILES & SECTIONS)
SB		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT
	0+00 1+00	CONSTRUCTION BASELINE
PL		PROPERTY OR DEED LINE (NOT SURVEYED)
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE
		ROADS, EASEMENTS OR RIGHT OF WAY LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)
MON	MON	SURVEY MONUMENT
IF	IF	SURVEY IRON (FOUND)
DH PK STK	DH PK STK	DRILL HOLE, PK OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE (DECIDUOUS)
		INDIVIDUAL TREE (CONIFEROUS)
		TREE, TO BE REMOVED
		MARSH AREA

EXISTING	PROPOSED	
		STONE WALL
		DRAINAGE COURSES W/DIRECTION & DITCH
SHORE SIDE		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		ROCK OUTCROP OR LEDGE
		FENCE LINE (WOOD)
		FENCE LINE (WIRE)
(STONE)	(CONC) FACE	RETAINING WALL (TYPE)
		GUARD RAIL
		BUILDING & STRUCTURES
		STEPS W/TYPE (WOOD/CONCRETE)
	1 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
	TOP OF SLOPE	SLOPES (W/SLOPE RATIO)
		EDGE OF TRAVELED WAY (TYPE)
	C F	CUT OR FILL LINE
	CLL	CONSTRUCTION LIMIT LINE
		BITUMINOUS PAVEMENT
		GRAVEL ROAD
		CONCRETE
B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER

EXISTING	PROPOSED	
TP-103	TP-103	TEST PIT & NUMBER
		CLEAN OUT STRUCTURES
		MANHOLE
		WATER VALVE
		HYDRANT
		TELEPHONE OR POWER POLE
		CATCH BASIN
G	8" G	UNDERGROUND GAS MAIN & SIZE
T	T	UNDERGROUND TELEPHONE CABLE/CONDUIT
E	E	UNDERGROUND ELECTRIC CABLE/CONDUIT
OE	OE	OVERHEAD ELECTRICAL LINE
	12" ACP	SANITARY SEWER, SIZE & TYPE
	8" PVC	FORCE MAIN, SIZE & TYPE
	8" DI	WATER MAIN, SIZE & TYPE
	12" RCP	STORM DRAIN, SIZE & TYPE
UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
	12" BCCMP	CULVERT, SIZE & TYPE
		RAILROAD
	S S	SILTATION FENCE

MATERIAL SPECIFICATIONS

FINAL COVER

SAND - MDOT SPECIFICATION 703.06b, TYPE F (AGGREGATE FOR SAND LEVELING) PERMEABILITY $\geq 1 \times 10^{-3}$ cm/sec

COVER SOIL - WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE. NO STONES GREATER THAN 4 INCHES IN DIAMETER (COMPACTED 85 PERCENT STANDARD PROCTOR) A

TOP COVER SOIL - A MIXTURE OF WELL GRADED TILL SOIL WITH GREATER THAN 15 PERCENT PASSING A NO. 200 SIEVE AND SECONDARY SLUDGE. NO STONES GREATER THAN 3 INCHES IN DIAMETER A

SLUDGE - HOMOGENEOUS SECONDARY SLUDGE AS RECEIVED FROM MILL.

MATERIAL TESTING SCHEDULE A

BORROW SOURCE	TEST	FREQUENCY
COVER SOIL	GRAIN SIZE	4 TEST
SAND	GRAIN SIZE	2 TEST
SAND	PERMEABILITY	2 TEST
ON-SITE		
COVER SOIL	GRAIN SIZE	1/2000 CY
SAND	GRAIN SIZE	4 TEST
SAND	PERMEABILITY	1/5000 CY

TEST METHODS

GRAIN SIZE ASTM D422
PERMEABILITY ASTM D2434

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION — 3 / C-300

DETAIL IDENTIFICATION & LETTER — MANHOLE A / C-300

DRAWING WHERE SECTION OR DETAIL APPEARS

SECTION TITLE & NO. — ACCESS ROAD 3 / C-100 — DRAWING WHERE SECTION IS TAKEN

DETAIL TITLE & LETTER — MANHOLE A / C-100 — DRAWING WHERE DETAIL IS CALLED OUT

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONST	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.T.	POINT OF TANGENT	W/	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPARTMENT	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR '	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

STATE OF MAINE — PETER MAHER — 4187 — REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		B	A	8/20/90	ISSUED FOR BID - ADDENDUM I				

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO.

DRN RLR 7/90
CKD M. Cote 8/90
CKD
CORR
APPVD
ISSUE CODE B - BIDS
SCALE

Great Northern Paper
a company of Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER - CELLS 3A, 3B, & 4
SYMBOLS & ABBREVIATIONS

JOB NO.
ENG REQ NO.
FILE NO. 2-092-4703,7082

YB-19168

YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION	
DRAWING NO.	REFERENCE DRAWING TITLE	CODE · REV. · DATE · REVISION · BY · CKD · APPVD · JOB No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO.

DRN	RCR	7/90
CKD	H. Cote	8/90
CKD		
CORP		
APPVD		

ISSUE CODE
[redacted] B-BIDS
SCALE 1" = 100'

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
SITE LOCATION PLAN

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

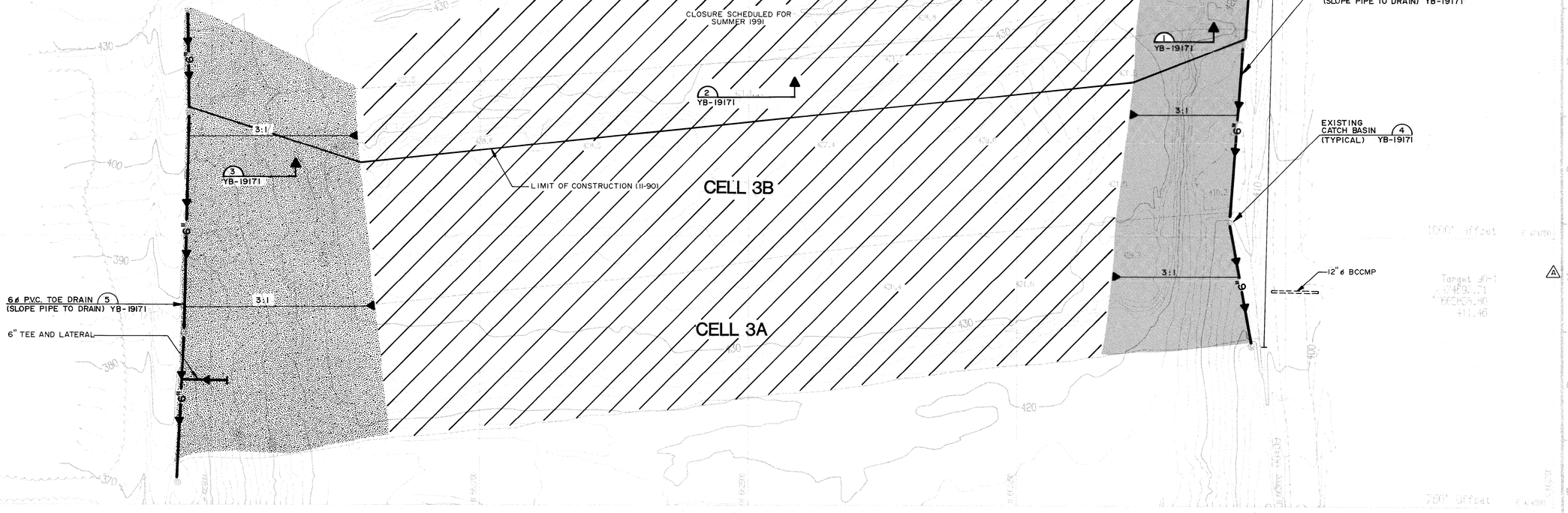
YB-19169

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

2. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK ON-SITE WITHOUT THE PRESENCE OF A QUALIFIED HEALTH AND SAFETY SUPERVISOR APPROVED BY THE OWNER.

NOTE: CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHD	APPVD	JOB No.
				12/90	RECORD DRAWING				
YB-16476	DOLBY III LANDFILL-CELLS 3A, 3B, & 4 TOPO. SURVEY & DIGITIZ.(4/18/90)	B	A	8/20/90	ISSUED FOR BID-ADDENDUM 1				

STATE OF MAINE — PETER R. MAHER — 5107 — REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO.

DRN RLR 7/90
CHD [illegible] 8/90
CHD
CORR
APPVD
ISSUE CODE
C-CONST
SCALE 1" = 50'

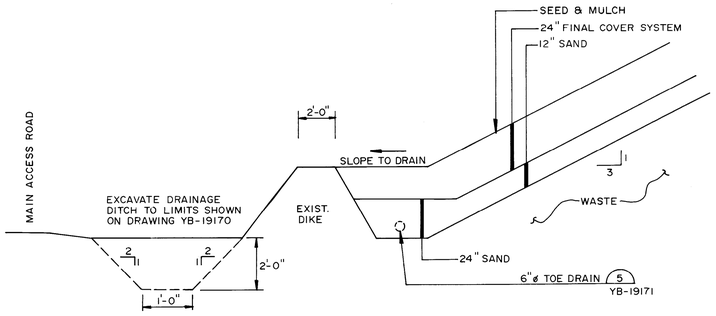
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

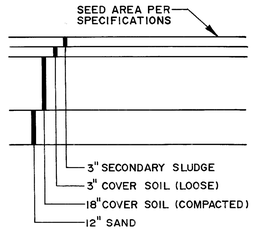
DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
EXISTING TOPOGRAPHY PLAN

JOB NO.
ENG. REC. NO.
FILE NO. 2-092-4703,7082

YB-19170

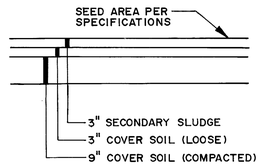


DITCH ENHANCEMENT DETAIL (A)
N.T.S. YB-19170



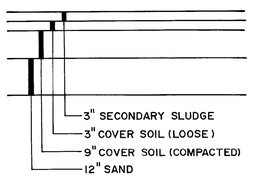
NOTE: SOUTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

FINAL COVER SECTION (1)
SCALE: 1" = 2'-0" YB-19170



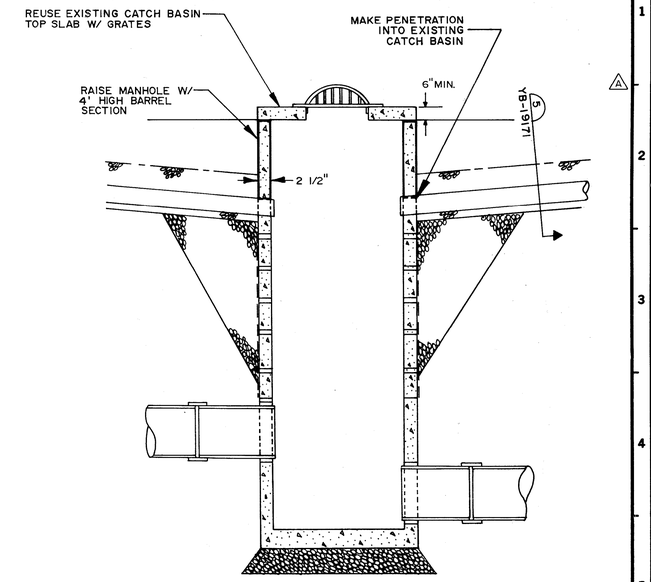
NOTE: TOP OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE TOP COVER SECTION (2)
SCALE: 1" = 2'-0" YB-19170

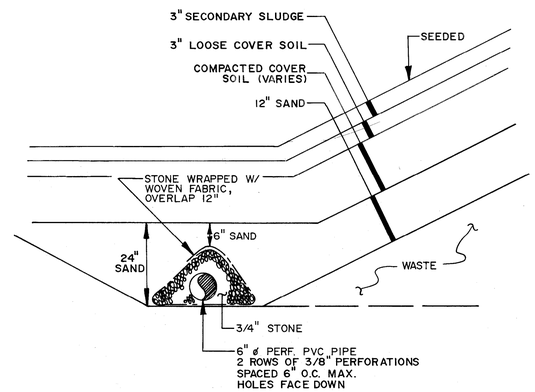


NOTE: NORTHERN SIDE OF LANDFILL AS SHOWN ON EXISTING TOPOGRAPHY PLAN.

INTERMEDIATE SLOPE COVER SECTION (3)
SCALE: 1" = 2'-0" YB-19170



CATCH BASIN (4)
N.T.S. (EXISTING) YB-19170



SECTION (5)
N.T.S. YB-19170 YB-19171

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				12/90	RECORD DRAWING				
		B	A	8/20/90	ISSUED FOR BID - ADDENDUM 1				

STATE OF MAINE — PETER M. MAHER — 4410 — REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO.

DRN	R.L.R.	7/90
CKD	A. Cote	8/90
CKD		
CORR		
APPVD		

ISSUE CODE: C-CONST
SCALE: AS SHOWN

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

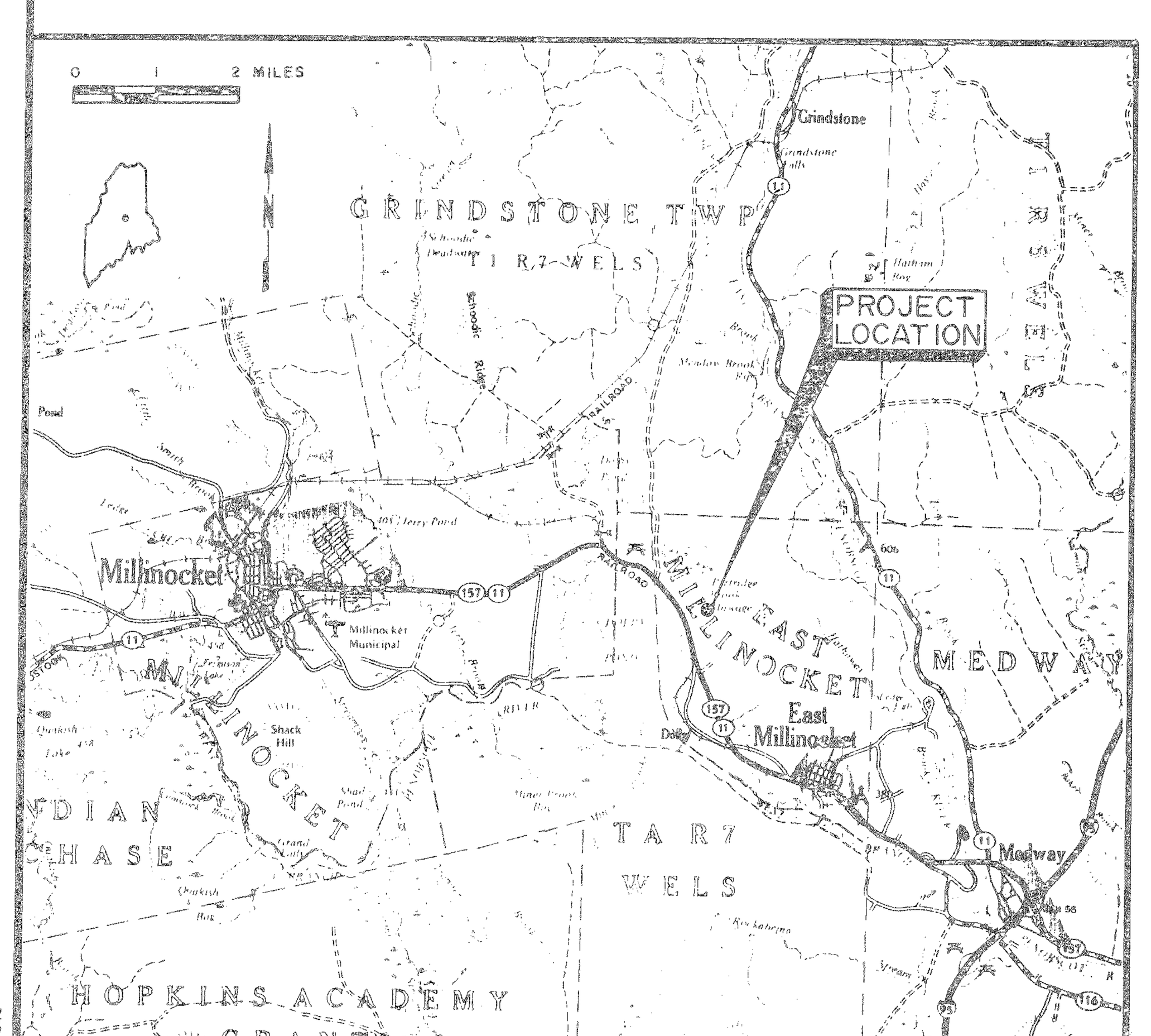
DOLBY III LANDFILL
FINAL COVER-CELLS 3A, 3B, & 4
SECTIONS & DETAILS

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-19171

GREAT NORTHERN PAPER CO.
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 5 CONSTRUCTION

SHT NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-19086
2	SYMBOLS & ABBREVIATIONS	YB-19087
3	SITE LOCATION PLAN SHEET 1 OF 2	YB-19088
4	SITE LOCATION PLAN SHEET 2 OF 2	YB-19088
5	SITE DEVELOPMENT PLAN	YB-19089
6	SECTIONS & DETAILS	YB-19090
7	FINAL GRADING PLAN	YB-19091 (N.I.T.C.)



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1990

STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY III LANDFILL
CELL 5
COVER SHEET

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19086

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (TRUE)			STONE WALL	TP-103	TP-103	TEST PIT & NUMBER
		NORTH ARROW (MAGNETIC)			DRAINAGE COURSES W/DIRECTION & DITCH	□	■	CLEAN OUT STRUCTURES
N		NORTH ARROW (PLAN NORTH)	SHORE SIDE		EDGE OF WATER	○	●	MANHOLE
25	25	CONTOUR LINES			WATER ELEVATION (GROUND OR SURFACE)	⌑	⌑	WATER VALVE
25 x 63	25.56	SPOT ELEVATION (GRADE)			ROCK OUTCROP OR LEDGE	⌑	⌑	HYDRANT
E.G.		EXISTING GROUND (PROFILES & SECTIONS)			FENCE LINE (WOOD)	⌽	⌽	TELEPHONE OR POWER POLE
S.B.L.		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WIRE)	◎	◎	CATCH BASIN
0+00	1+00	CONSTRUCTION BASELINE	(STONE)	(CONC) FACE	RETAINING WALL (TYPE)	G	8" G	UNDERGROUND GAS MAIN & SIZE
PL		PROPERTY OR DEED LINE (NOT SURVEYED)			GUARD RAIL	T	T	UNDERGROUND TELEPHONE CABLE/CONDUIT
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE			BUILDING & STRUCTURES	E	E	UNDERGROUND ELECTRIC CABLE/CONDUIT
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			STEPS W/TYPE (WOOD/CONCRETE)	OE	OE	OVERHEAD ELECTRICAL LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		1:2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)		12"ACP	SANITARY SEWER, SIZE & TYPE
MON.	MON.	SURVEY MONUMENT		TOP OF SLOPE 2:1	SLOPES (W/SLOPE RATIO)		8" PVC	FORCE MAIN, SIZE & TYPE
I.F.	I.F.	SURVEY IRON (FOUND)			EDGE OF TRAVELED WAY (TYPE)		8" DI	WATER MAIN, SIZE & TYPE
D.H. PK. STK.	D.H. PK. STK.	DRILL HOLE, PK OR STAKE	C	F	CUT OR FILL LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CONSTRUCTION LIMIT LINE	UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (DECIDUOUS)			BITUMINOUS PAVEMENT		12" BCCMP	CULVERT, SIZE & TYPE
		INDIVIDUAL TREE (CONIFEROUS)			GRAVEL ROAD			RAILROAD
		TREE, TO BE REMOVED			CONCRETE	S	S	SILTATION FENCE
		MARSH AREA	B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER			

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONST	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.T.	POINT OF TANGENT	W/	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPARTMENT	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR '	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION

3 / C-300 — DRAWING WHERE SECTION OR DETAIL APPEARS — C-300

DETAIL IDENTIFICATION & LETTER

MANHOLE / A — C-300

SECTION TITLE & NO.

ACCESS ROAD / 3 — C-100

DRAWING WHERE SECTION IS TAKEN

DETAIL TITLE & LETTER

MANHOLE / A — C-100

DRAWING WHERE DETAIL IS CALLED OUT

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DRN	RLR	
CKD	[illegible]	5/90
CKD	DKR	5/3/90
CORR	[illegible]	5/31/90
APPVD	BAP	5/31/90
ISSUE CODE		
B-BIDS		
SCALE		

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SYMBOLS & ABBREVIATIONS

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19087

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION								

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DRN	RLR	
CKD	[illegible]	5/90
CKD	DKE	5/3/90
CORR	[illegible]	5/3/90
APPVD	BAP	5/3/90

ISSUE CODE: B - BIDS

SCALE 1" = 100'

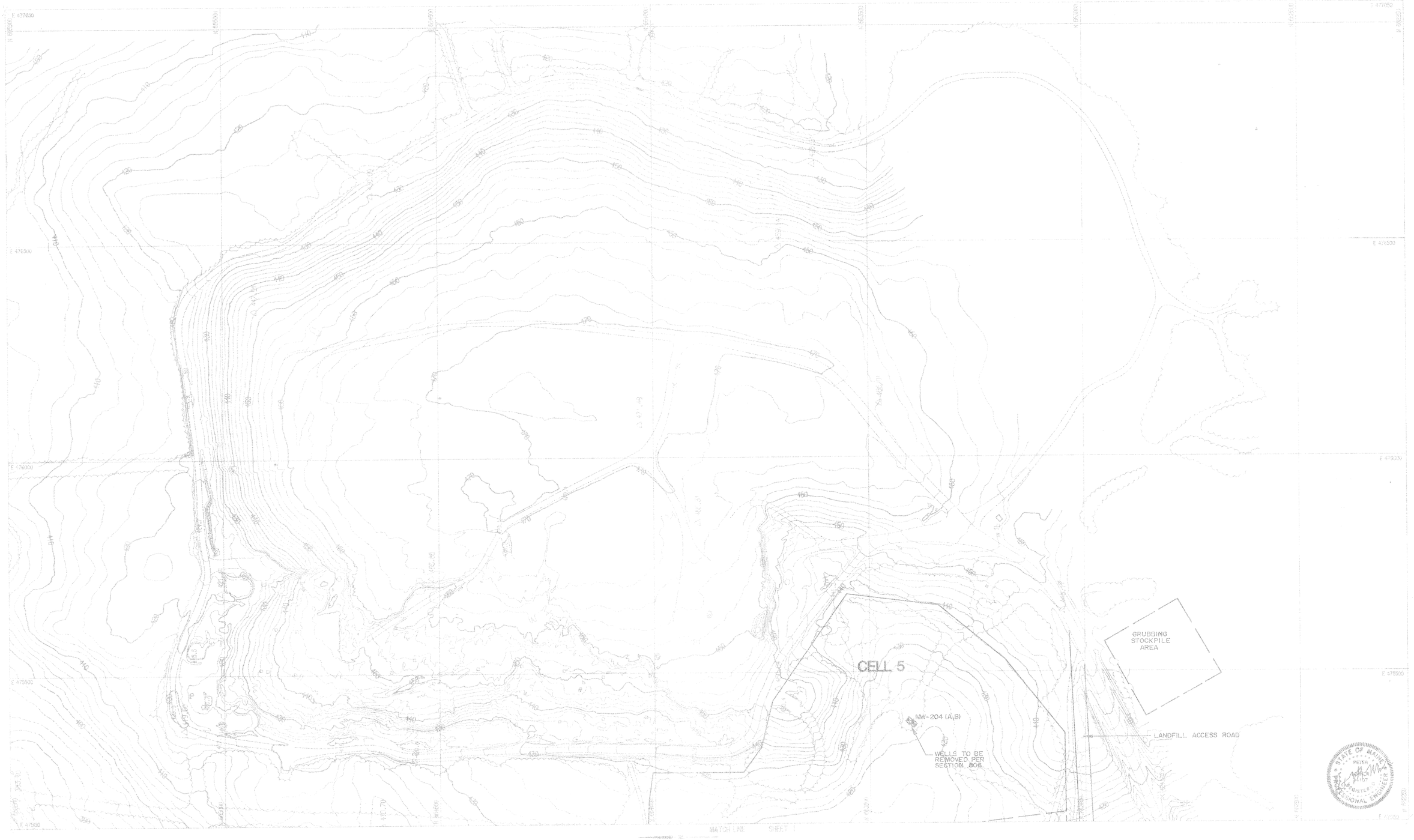
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SITE LOCATION PLAN

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19088
SHEET 1 OF 2



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPROVED	DN No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DSN	K.L.P.	
CKD	MHC	5/90
CKD	D.A.S.	5/3/90
CORR	D.A.S.	5/3/90
APPVD	G.M.P.	5/3/90
ISSUE CODE		
	E-3105	
SCALE	1" = 100'	

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
SITE LOCATION PLAN

JOB NO. 94545
ENG. REC. NO. 2-092-4703, 7082
FILE NO. 2-092-4703

YB-19088
SHEET 2 OF 2

OPERATION NOTES

CELL 4

1. REMOVE MINIMUM 15 FT LONG DIKE SECTIONS SEPARATING CB#16 AND CB#17 FROM CELL 5.

CULVERT SCHEDULE

	TYPE	DIAMETER	MIDPOINT CENTERLINE LENGTH	MIDPOINT CENTERLINE NORTH COORD.	EAST COORD.
CULVERT #1	CMP	24"	40'	663005	475297
CULVERT #2	CMP	15"	40'	664018	475282
CULVERT #3	CMP	24"	40'	662800	475278

EXISTING 18" ø CMP CULVERT

100' MAX.

STONE CHECK DAM (TYPICAL) A YB-19090

DIKE AND TYPE 2 DRAINAGE DITCH YB-19090

SLOPE TO DRAIN MIN 0.5%

CB # 22 N663548 E475668 (6) YB-19090

CB # 23 N663344 E475645 (6) YB-19090

CORNER OF DIKE N663555 ELEV. = 442.0 E475680

CORNER OF DIKE N663540 ELEV.= 441.0 E475655

CB # 24 N663194 E475616 (6) YB-19090

CORNER OF DIKE N663190 ELEV.= 439.0 E475528

CORNER OF DIKE N663050 ELEV.= 438.0 E475356

CONNECT LANDFILL ACCESS ROAD TO EXISTING PAVED ROAD N663016 ELEV.= 446.0 E475548

DIKE AND TYPE 2 DRAINAGE DITCH (2) YB-19090

CORNER OF DIKE N663725 ELEV.= 453.0 E475435

CB # 21 N663715 E475433 (6) YB-19090

ACCESS ROAD N664015 ELEV.= 440.0 E475315

CORNER OF DIKE N663755 ELEV.= 443.0 E475327

CB # 20 N663745 E475328 (6) YB-19090

MW-204(A,B)

WELLS TO BE REMOVED PER SECTION 806

CELL 5

(GRUB 1'-0" TYPICAL THROUGHOUT CELL 5)

CULVERT # 1 INV. IN = 432.0 INV. OUT = 431.8

CULVERT # 2 INV. IN = 428.0 INV. OUT = 427.8

CULVERT # 3 INV. IN = 431.0 INV. OUT = 430.0

CB # 25 N663058 E475349 (6) YB-19090

TOP OF DIKE ELEV. = 433.0

REMOVE TEMP. CAP

℄ END OF EXISTING LANDFILL ACCESS ROAD N663002 ELEV.= 433.7 E475250

CORNER OF DIKE N663796 ELEV.= 434.0 E475268

CORNER OF DIKE N664008 ELEV.= 433.0 E475270

CB # 19 N663792 E475260 (6) YB-19090

LEVEL SPREADER (C) L=100 FT YB-19090

CB # 18 N663998 E475257 (6) YB-19090

STONE CHECK DAM (A) YB-19090

CB # 17 (EXISTING) (5) YB-19090
12" INV. IN = 425.05
12" INV. OUT = 425.01
RIM ELEV. = 429.47
(MODIFY AS SHOWN IN SECTION 6)

12' GRAVEL ACCESS ROAD (4) YB-19090
CONTINUE TO MEET EXISTING ACCESS ROAD

CELL 4

(EXISTING)

EXISTING LANDFILL ACCESS ROAD (3) YB-19090

PERF. LEACHATE COLLECTION MAIN (7) YB-19090

CB # 16 (EXISTING) (5) YB-19090
12" INV. IN = 409.0
12" INV. OUT = 408.46
RIM ELEV. = 412.85
(MODIFY AS SHOWN IN SECTION 6)

STATE OF MAINE — BRIAN J. MAHER #4107 — REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE
YB-15914	DOLBY III LANDFILL, CELL 4, SITE DEVELOPMENT PLAN

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DRW	RLR	
CKD	BJM	5/90
CKD	DJC	5/3/90
CORR	ARR	5/3/90
APPVD	BJM	5/3/90
ISSUE CODE		
B - BIDS		
SCALE	1" = 50'	

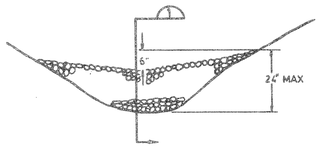
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

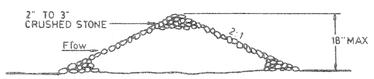
DOLBY III LANDFILL
CELL 5
SITE DEVELOPMENT PLAN

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

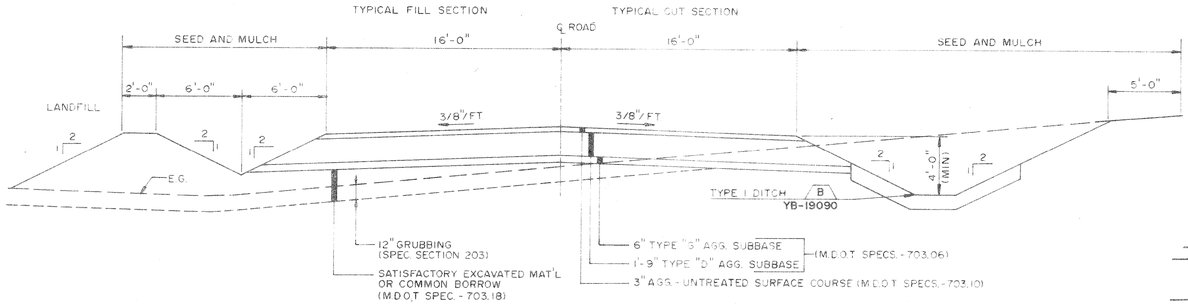
YB-19089



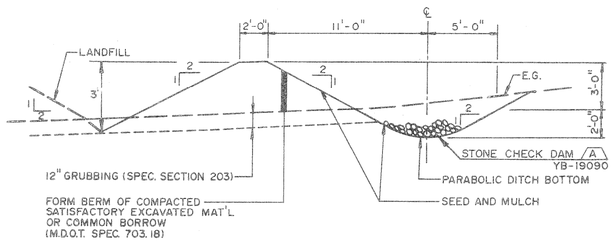
STONE CHECK DAM (A)
N.T.S. YB-19089

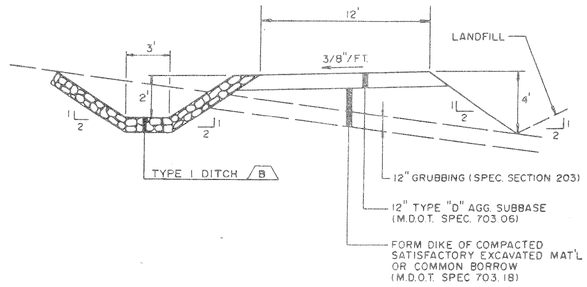


SECTION (1)
N.T.S.

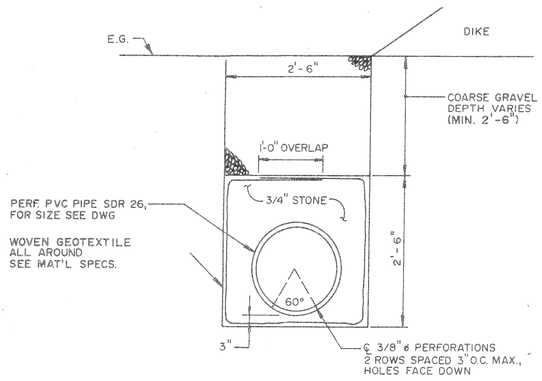


TYPICAL SECTION
LANDFILL ACCESS ROAD (3)
N.T.S. YB-19089

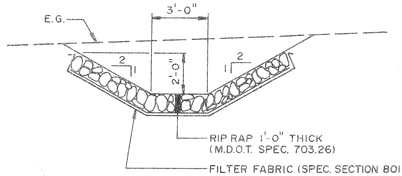




TYPICAL SECTION
DIKE AND TYPE 2 DRAINAGE DITCH (2)
SCALE: 1"=5' YB-19089



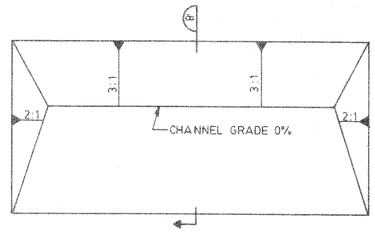
PERF. LEACHATE COLLECTION MAIN (7)
N.T.S. YB-19089



TYPE I DITCH (B)
N.T.S. YB-19090

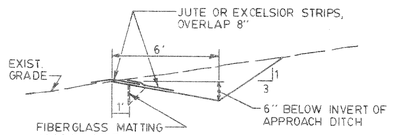
NOTE: STONE OUTLET TO BECOME PERMANENT FIXTURE. ACCUMULATED SEDIMENT TO BE REMOVED AND PLACED IN LANDFILL WHEN CONSTRUCTION COMPLETE AND TRIBUTARY AREA IS STABILIZED WITH VEGETATION, GRAVEL SURFACE OR RIP RAP. AREA TO BE SEEDED AND MULCHED WHEN CONSTRUCTION COMPLETE.

DIKE ACCESS ROAD (4)
N.T.S. YB-19089

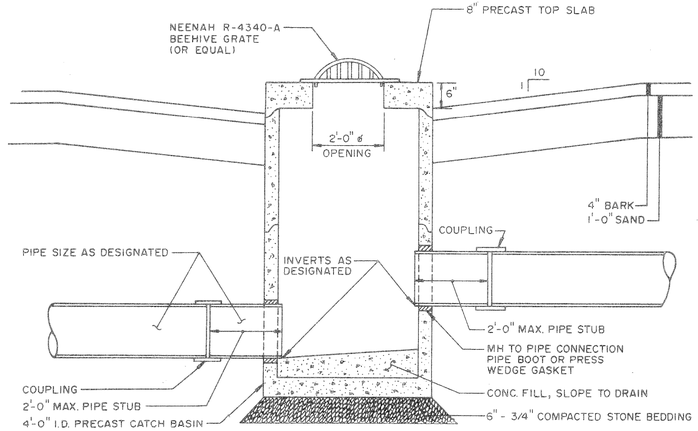


NOTE: LAST 20 FT. OF DRAINAGE DITCH NOT TO EXCEED 1% GRADE

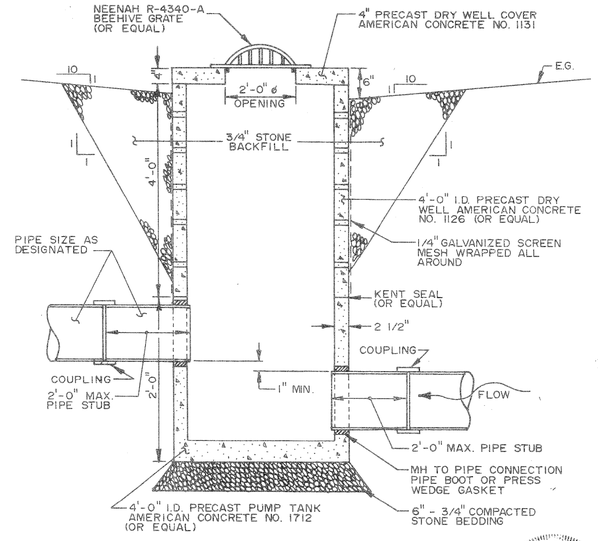
PLAN
SCALE: 1"=4'



SECTION (8)
LEVEL SPREADER (C)
N.T.S. YB-19089



TYPICAL CATCH BASIN - (5)
N.T.S. (EXISTING) YB-19089



CATCH BASIN (6)
N.T.S. YB-19089

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DRN	RCR	
CKD	MHR	5/90
CKD	DKR	5/2/90
CORR	DKR	5/17/90
APPVD	BAP	5/3/90
ISSUE CODE		
B - BIDS		
SCALE	AS SHOWN	

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT

DOLBY III LANDFILL
CELL 5
SECTIONS & DETAILS

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19090

DRAWING NO	REFERENCE DRAWING TITLE
YB-19050	DOLBY III LANDFILL, CELL 4, FINAL GRADING PLAN

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 9019

DRN RLR
CKD GHC 5/90
DSD DXE 5/3/90
CERR DRJ 5/?/90
APPVD BAP 5/3/90

ISSUE CODE: P - PRELIM, B - BIDS, M - MTL T.O., C - CONST

SCALE 1" = 50'

Great Northern Paper
a company of Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 5
FINAL GRADING PLAN (N.I.T.C.)

JOB NO. 94545
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-19091

LEGEND

470 CELL 6 FINAL GRADES

450 CELL 5 FINAL GRADES

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		8-5-91	SUBMITTED TO MDEP		MHC		

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN		
CKD	7/91	MHC
CKD		
CORR		
APPVD		

ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE	1" = 100'

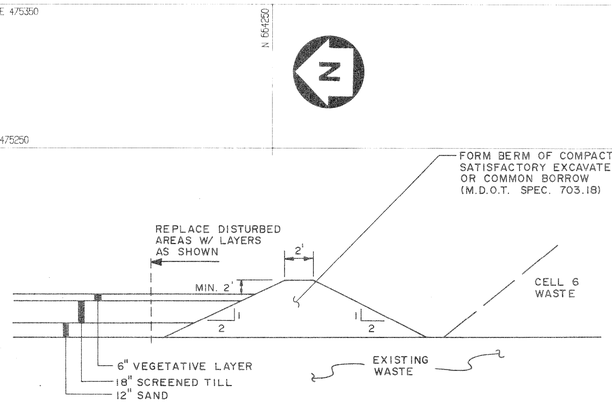
Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

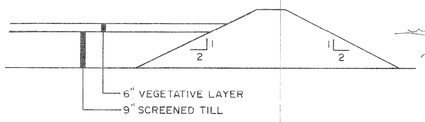
DOLBY III LANDFILL
CELL 6
FINAL GRADING PLAN

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

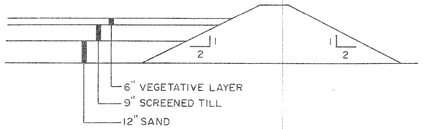
YB-20023



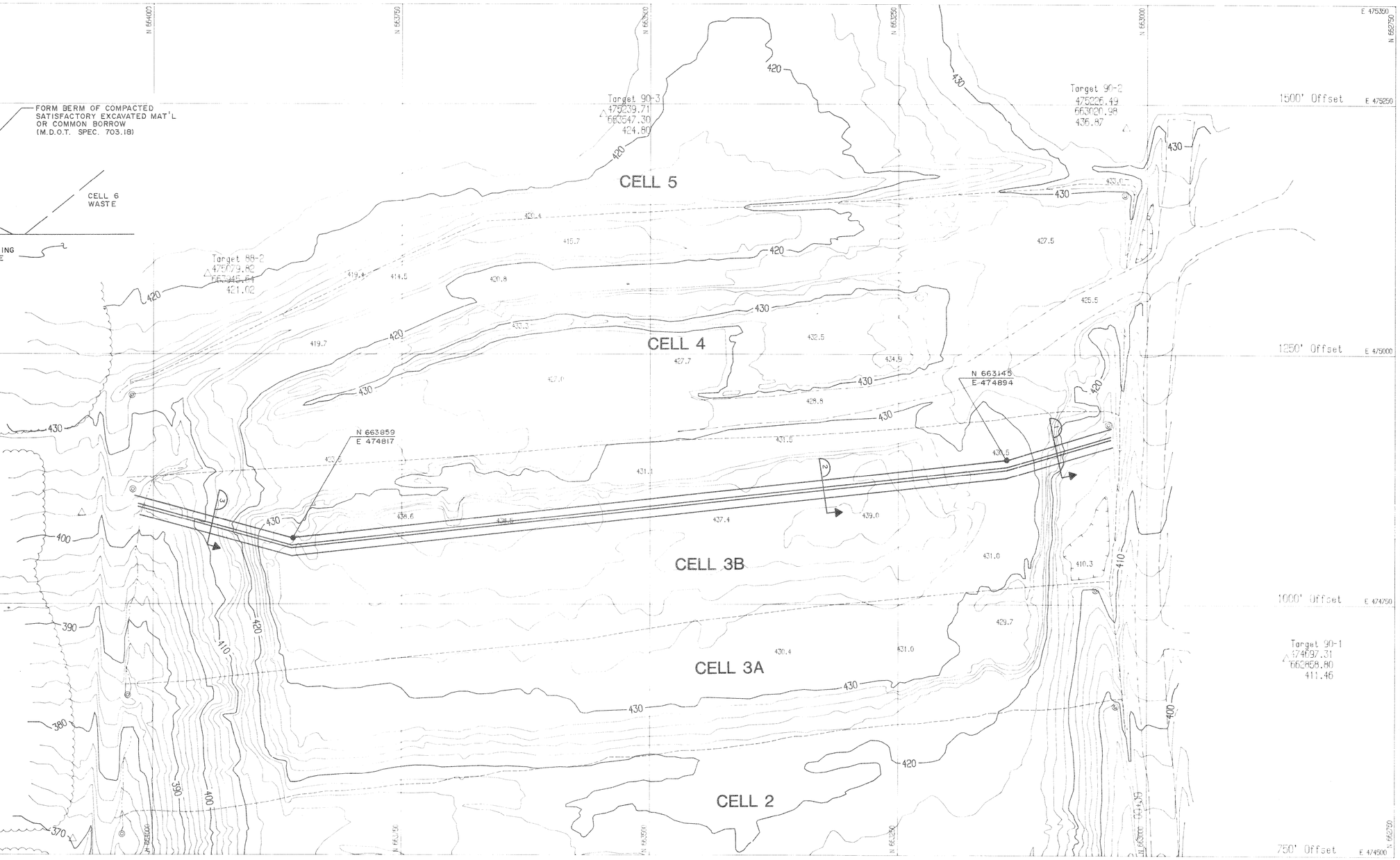
DIKE SECTION (1)
N.T.S.



DIKE SECTION (2)
N.T.S.



DIKE SECTION (3)
N.T.S.



NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING ASBESTOS HANDLING.
2. CONTOURS SHOWN MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL QUANTITIES

BORROW	1500 CY
SEEDING	20 UNITS

DRAWING NO	REFERENCE DRAWING TITLE
YB-16476	DOLBY III LANDFILL - CELLS 3A, 3B, & 4 TOPO SURVEY & DIGITIZ. (4/18/90)

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
	1	8-8-92	RECORD DRAWING				
		8-5-91	SUBMITTED TO MDEP				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN		
CKD	7/91	
CKD		
CORR		
APPVD		
ISSUE CODE		
P - PRELIM	B - BIDS	
M - MTL.T.O.	C - CONST	
SCALE AS SHOWN		

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

CENTRAL ENGINEERING DEPARTMENT
EAST MILLINOCKET MILL

DOLBY III LANDFILL
CELL 6
SITE DEVELOPMENT PLAN

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703, 7062

YB-20024

E 475000

E 474500

CELL 7

REMOVE 15" OF COVER SOIL AND STOCKPILE ON CELL 6

CELL 6 LIMIT

CB#1

CB#2

CB#3

CB#4

CB#5

CB#6

CB#7

CB#8

CB#9

CB#10

CB#11

CB#12

CB#13

CB#14

CB#15

CB#16

CB#17

ROAD

ACCESS

DRAINAGE MANHOLE A YB-20546
N 663863.90
E 474386.57
RIM EL = 411.79

N663879.00
E474369.57

22-1/2° ELBOW
TURN TO MATCH SLOPE

12"ø HANCORE TITELINE PIPE 4 YB-20546

TIE 12"ø PIPE INTO EXISTING
CATCH BASIN #1

CONTAINMENT DIKE

DRAINAGE MANHOLE A YB-20546
N 663125.20
E 474358.66
RIM EL = 410.12

N663108.98
E474350.33

22-1/2° ELBOW
TURN TO MATCH SLOPE

TIE 12"ø PIPE INTO EXISTING
CATCH BASIN #9

12"ø HANCORE TITELINE PIPE 4 YB-20546

△ 474872.19
663710.53
409.51

YB-20546 1

YB-20546 2

YB-20546 3

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
	COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.								
	OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS								
	FROM AERIAL PHOTOGRAPHS DATED 8/9/90			1/93	RECORD DRAWING	MAHER			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE
JOB NO. 92051

DRN	PAF	9-92
CKD	MAHER	9-92
CKD		
CORR		
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE 1" = 50'

BOWATER
GREAT NORTHERN PAPER, INC.

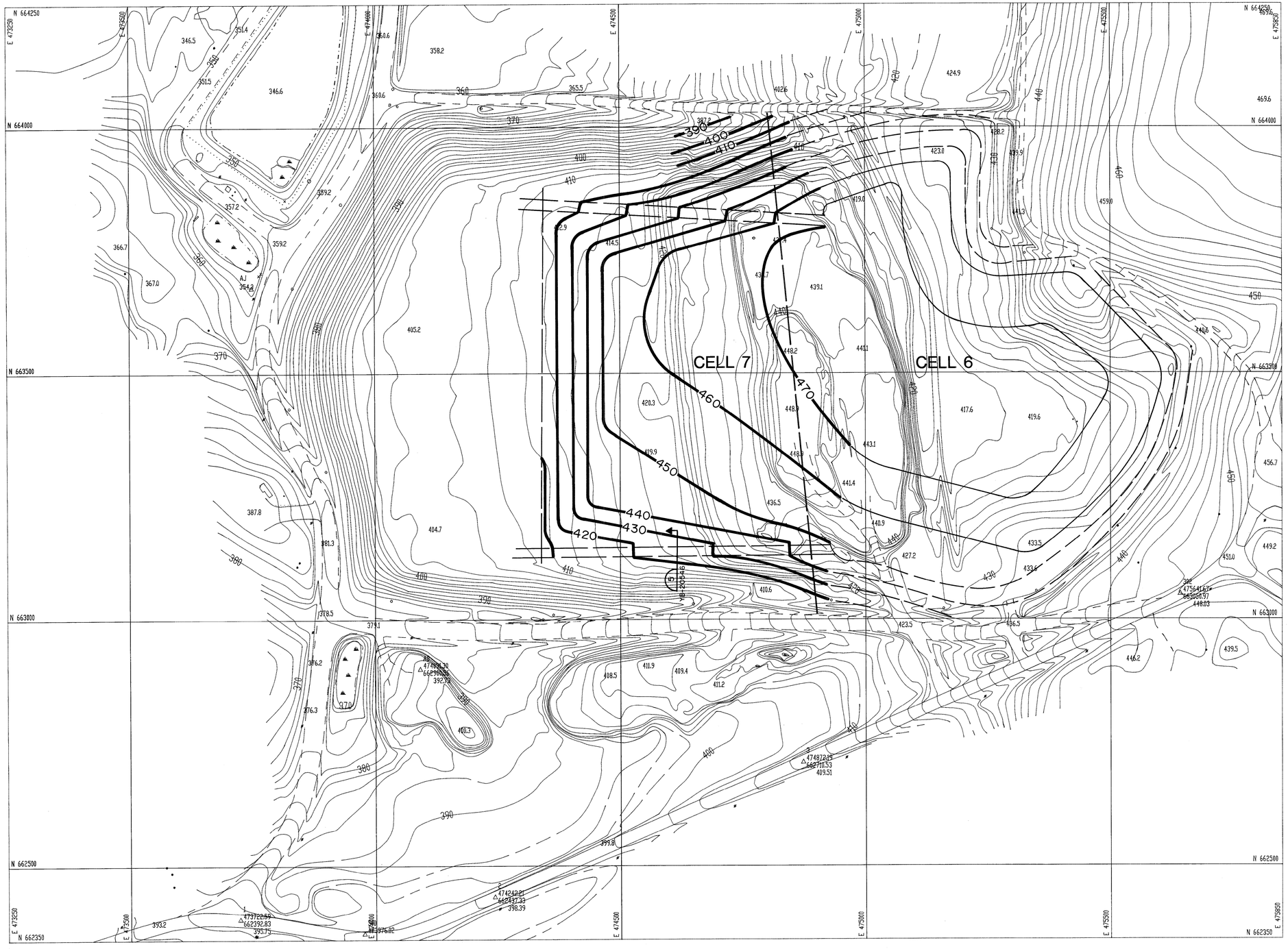
CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 7
SITE DEVELOPMENT PLAN

JOB NO. ____
ENG. REQ. NO. 95-6249
FILE NO. 2-092-4703,7082

YB-20544

SPILLER'S



	COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.									
	OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS									
	FROM AERIAL PHOTOGRAPHS DATED 8/9/90									
DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.	

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE
JOB NO. 92051

DRN	PAF	9-92
CKD	[illegible]	9-92
CKD		
CORR		
APPVD		

ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL.T.O.	C - CONST

SCALE 1" = 100'

BOWATER
GREAT NORTHERN PAPER, INC.

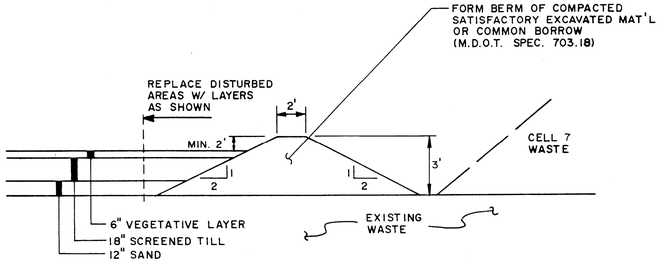
CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 7
FINAL GRADING PLAN

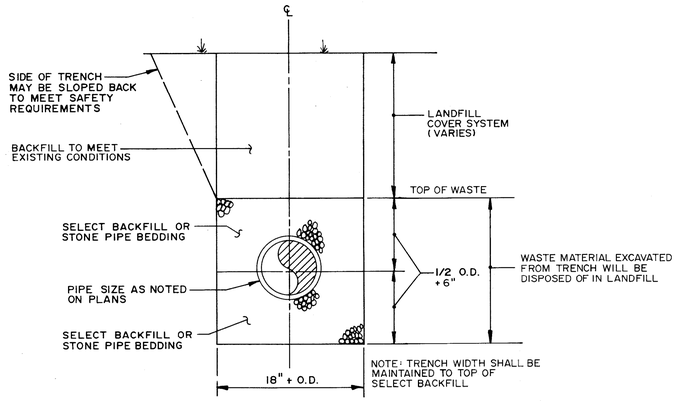
JOB NO. _____
ENG. REQ. NO. 95-6249
FILE NO. 2-092-4703.7082

YB-20545

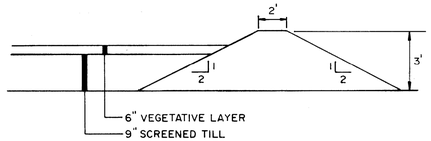
187874
SPILLER'S



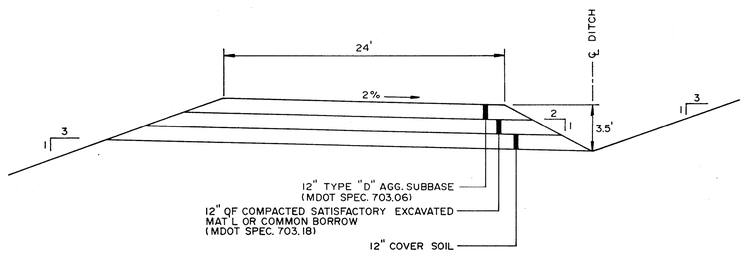
DIKE SECTION 1
N.T.S. YB-20544



PIPE TRENCH 4
N.T.S. YB-20544

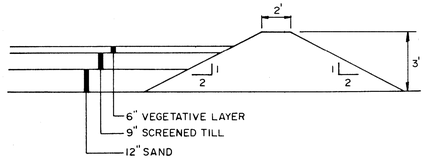


DIKE SECTION 2
N.T.S. YB-20544

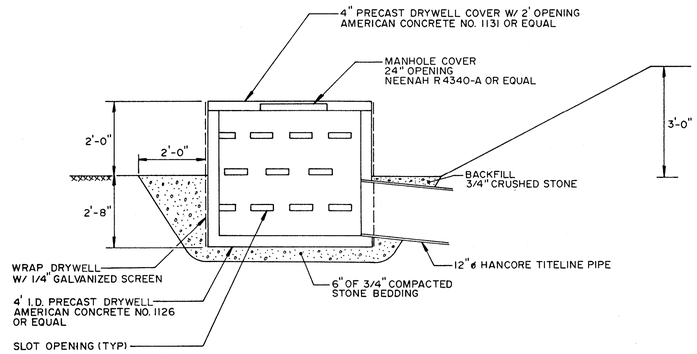


ROAD TERRACE 5
NTS YB-20545

N.T.S.



DIKE SECTION 3
N.T.S. YB-20544



DRAINAGE MANHOLE A
NTS YB-20544

GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
3. EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

SIEVE DESIGNATION	PERCENT PASSING BY WEIGHT
1 INCH	100
1/4 INCH	≤5

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM CELL 7 AREA PRIOR TO PLACING THE DRAINAGE OR EMBANKMENT MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:		
	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

MATERIAL QUANTITIES:

GRUBBING	17,000 CY
DIKE SOIL	1,600 CY
12" DIA. PIPE	355 LF
3/4" STONE	74 CY
DRYWELLS WITH COVERS, GRATES & FRAMES	2

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		1/93	RECORD DRAWING				

JOB NO. 92051

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

DRN	PAF	9-92
CKD		9-92
CKD		
CORR		
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE NTS

BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 7
DETAILS, SECTIONS & MATERIAL SPECIFICATIONS

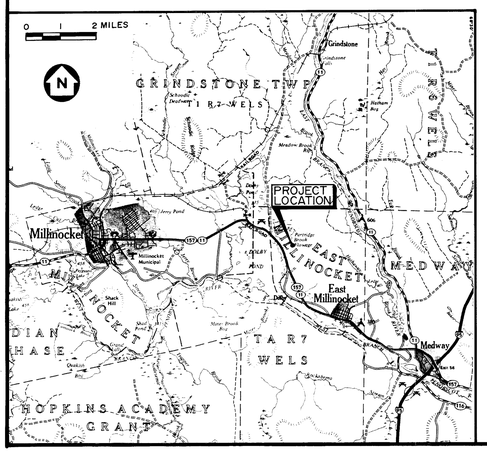
JOB NO.
ENG. REQ. NO. 95-6249
FILE NO. 2-092-4703.7082

YB-20546

07824
SPILLER'S

GREAT NORTHERN PAPER, INC.
A SUBSIDIARY OF BOWATER INCORPORATED
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION

SHT NO.	TITLE	DWG NO.
1	COVER SHEET	YB-21000
2	SYMBOLS & ABBREVIATIONS	YB-21001
3	SITE LOCATION PLAN	YB-21002
4	CELL 8 - SITE DEVELOPMENT PLAN	YB-21003
5	CELL 9 - SITE DEVELOPMENT PLAN	YB-21004
6	CELLS 6 & 8 - FINAL GRADING PLAN	YB-21005
7	SECTIONS & DETAILS	YB-21006



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE
1993

STATE OF MAINE
STEVEN M. MAHER
14107
REGISTERED PROFESSIONAL ENGINEER

BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
COVER SHEET

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082

YB-21000

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (TRUE)			STONE WALL	TP-103	TP-103	TEST PIT & NUMBER
		NORTH ARROW (MAGNETIC)			DRAINAGE COURSES W/ DIRECTION & DITCH	□	■	CLEAN OUT STRUCTURES
N		NORTH ARROW (PLAN NORTH)	SHORE SIDE		EDGE OF WATER	○	●	MANHOLE
25	25	CONTOUR LINES			WATER ELEVATION (GROUND OR SURFACE)	⌑	⌑	WATER VALVE
25 x 63	x 25.56	SPOT ELEVATION (GRADE)			ROCK OUTCROP OR LEDGE	⌀	⌀	HYDRANT
E.G.		EXISTING GROUND (PROFILES & SECTIONS)			FENCE LINE (WOOD)	⌖	⌖	TELEPHONE OR POWER POLE
S.B.L.		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT			FENCE LINE (WIRE)	◎	◎	CATCH BASIN
	0+00 1+00	CONSTRUCTION BASELINE	(STONE)	(CONC) FACE	RETAINING WALL (TYPE)	G	8" G	UNDERGROUND GAS MAIN & SIZE
P.L.		PROPERTY OR DEED LINE (NOT SURVEYED)			GUARD RAIL	T	T	UNDERGROUND TELEPHONE CABLE / CONDUIT
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/ BEARING & DISTANCE			BUILDING & STRUCTURES	E	E	UNDERGROUND ELECTRIC CABLE / CONDUIT
		ROADS, EASEMENTS OR RIGHT OF WAY LINE			STEPS W/ TYPE (WOOD / CONCRETE)	OE	OE	OVERHEAD ELECTRICAL LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)		1' 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)		12" ACP	SANITARY SEWER, SIZE & TYPE
□ MON.	■ MON.	SURVEY MONUMENT		TOP OF SLOPE 2	SLOPES (W/ SLOPE RATIO)		8" PVC	FORCE MAIN, SIZE & TYPE
○ I.F.	● I.F.	SURVEY IRON (FOUND)			EDGE OF TRAVELED WAY (TYPE)		8" DI	WATER MAIN, SIZE & TYPE
○ D.H. PK. STK.	● D.H. PK. STK.	DRILL HOLE, PK OR STAKE	C	F	CUT OR FILL LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CONSTRUCTION LIMIT LINE	UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (DECIDUOUS)			BITUMINOUS PAVEMENT		12" BCCMP	CULVERT, SIZE & TYPE
		INDIVIDUAL TREE (CONIFEROUS)			GRAVEL ROAD			RAILROAD
		TREE, TO BE REMOVED			CONCRETE	S	S	SILTATION FENCE
		MARSH AREA	B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER			

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.	C.M.P.	CORRUGATED METAL PIPE	DR	DRAIN	GPD	GALLONS PER DAY	MON	MONUMENT	SF	SQUARE FEET
A.C.P.	ASBESTOS CEMENT PIPE	C.O.	CLEAN OUT	DWG	DRAWING	GPM	GALLONS PER MINUTE	N.I.T.C.	NOT IN THIS CONTRACT	SHT	SHEET
AC	ACRE	CEM. LIN.	CEMENT LINED	EA	EACH	HDPE	HIGH DENSITY POLYETHYLENE	N.T.S.	NOT TO SCALE	STA	STATION
AGG	AGGREGATE	CEN	CENTRAL ANGLE OF CURVE	EG	EXISTING GROUND OR GRADE	HP	HORSEPOWER	N/F	NOW OR FORMERLY	SY	SQUARE YARD
ALUM	ALUMINUM	CF	CUBIC FEET	ELEC	ELECTRIC	HYD	HYDRANT	NO. OR #	NUMBER	TAN	TANGENT
APPD	APPROVED	CFS	CUBIC FEET PER SECOND	ELL	ELBOW	I.D.	INSIDE DIAMETER	O.C.	ON CENTER	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATE	CI	CAST IRON	EQUIP	EQUIPMENT	IN OR "	INCHES	O.D.	OUTSIDE DIAMETER	TEMP	TEMPORARY
ASB	ASBESTOS	CL	CLASS	EST	ESTIMATED	INV	INVERT	P.C.	POINT OF CURVE	TYP	TYPICAL
ASPH	ASPHALT	CONC	CONCRETE	EXC	EXCAVATE	INV. EL.	INVERT ELEVATION	P.I.	POINT OF INTERSECTION	V	VOLTS
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.	CONST	CONSTRUCTION	EXIST	EXISTING	LB	POUND	P.T.	POINT OF TANGENT	W/	WITH
AUTO	AUTOMATIC	CONTR	CONTRACTOR	F.G.	FINISH GRADE	LC	LEACHATE COLLECTION	PERF	PERFORATED	W/O	WITHOUT
AUX	AUXILIARY	CTR	CENTER	FBRGL	FIBERGLASS	LD	LEAK DETECTION	PSI	POUNDS PER SQUARE INCH	YD	YARD
AVE	AVENUE	CY	CUBIC YARD	FDN	FOUNDATION	LIN. FT.	LINEAR FEET	PVC	POLYVINYL CHLORIDE		
AVG	AVERAGE	D	DEGREE OF CURVE (ARC DEF.)	FLEX	FLEXIBLE	LOC	LOCATION	PVMT	PAVEMENT		
AZ	AZIMUTH	DBL	DOUBLE	FLG	FLANGE	LT	LEFT	QTY	QUANTITY		
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	DEG OR °	DEGREE	FLR	FLOOR	M.H.	MANHOLE	R.O.W.	RIGHT OF WAY		
B.M.	BENCH MARK	DEPT	DEPARTMENT	FPS	FEET PER SECOND	M.J.	MECHANICAL JOINT	RAD	RADIUS		
BIT	BITUMINOUS	DI	DUCTILE IRON	FT OR '	FEET	MATL	MATERIAL	REQD	REQUIRED		
BLDG	BUILDING	DIA OR Ø	DIAMETER	FTG	FOOTING	MAX.	MAXIMUM	RT	RIGHT		
BOT	BOTTOM	DIM	DIMENSION	GA	GAUGE	MFR	MANUFACTURE	RTE	ROUTE		
BRG	BEARING	DIST	DISTANCE	GAL	GALLON	MIN.	MINIMUM	S	SLOPE		
C.B.	CATCH BASIN	DN	DOWN	GALV	GALVANIZED	MISC	MISCELLANEOUS	SCH	SCHEDULE		

GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.
3. EXCAVATIONS ENCOUNTERING WASTE MATERIALS, I.E. SLUDGE, WILL BE DISPOSED OF IN THE ACTIVE DISPOSAL AREA.

MATERIAL SPECIFICATIONS:

DIKE EMBANKMENT SOIL:

COMPACTION - THE DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL. THE BEDDING MATERIAL SHALL MEET THE FOLLOWING GRADATION:

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1/4 INCH	≤5

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SEED AND FERTILIZER:

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MATERIALS -

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THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION: 3 / C-300 — DRAWING WHERE SECTION OR DETAIL APPEARS

DETAIL IDENTIFICATION & LETTER: MANHOLE A — C-300

SECTION TITLE & NO.: ACCESS ROAD 3 — DRAWING WHERE SECTION IS TAKEN: C-100

DETAIL TITLE & LETTER: MANHOLE A — DRAWING WHERE DETAIL IS CALLED OUT: C-100

DRAWING NO	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
B	1	8-4-93	ISSUED FOR BID	MAC			

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 93028

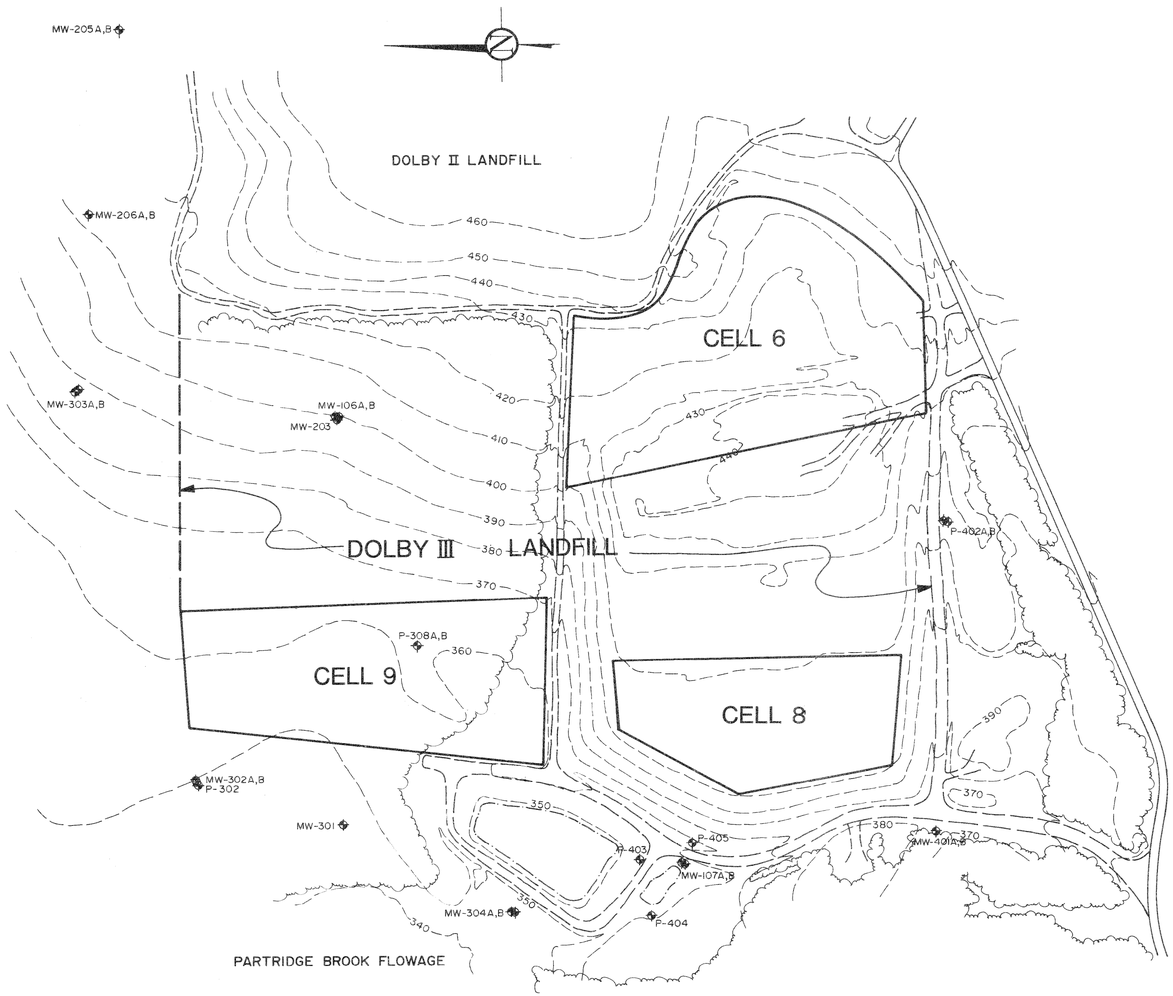
DRN	PAF	6/93
CKD	MAC	6/93
CKD		
CORR		
APPVD		
ISSUE CODE		
B - Bids		
SCALE		

BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION
DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
SYMBOLS & ABBREVIATIONS

JOB NO.
ENG. REQ. NO.
FILE NO 2-092-4703,7082

YB-21001



0 100 200 400 600 800 FEET

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
B	1	8-4-93	ISSUED FOR BID	HHC			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN	PAF	6/93
CKD	HHC	6/93
CKD		
CORR		
APPVD		

ISSUE CODE

P - PRELIM	B - BIDS
M - MTL.T.O.	C - CONST

SCALE 1" = 200'

BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL CELL 6 CLOSURE, CELLS 8 & 9 CONSTRUCTION SITE LOCATION PLAN

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-21002

17202
SPILLER'S

DRAWING NO	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
	COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.								
	OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS								
	FROM AERIAL PHOTOGRAPHS DATED 8/9/90								
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJB			
		B	1	8-4-93	ISSUED FOR BID	MHC			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN	PAF	6-93
CKD	MHC	6-93
CKD		
CORR		
APPVD		

ISSUE CODE
P - PRELIM B - BIDS
M - MTL T.O. C - CONST
SCALE 1" = 50'

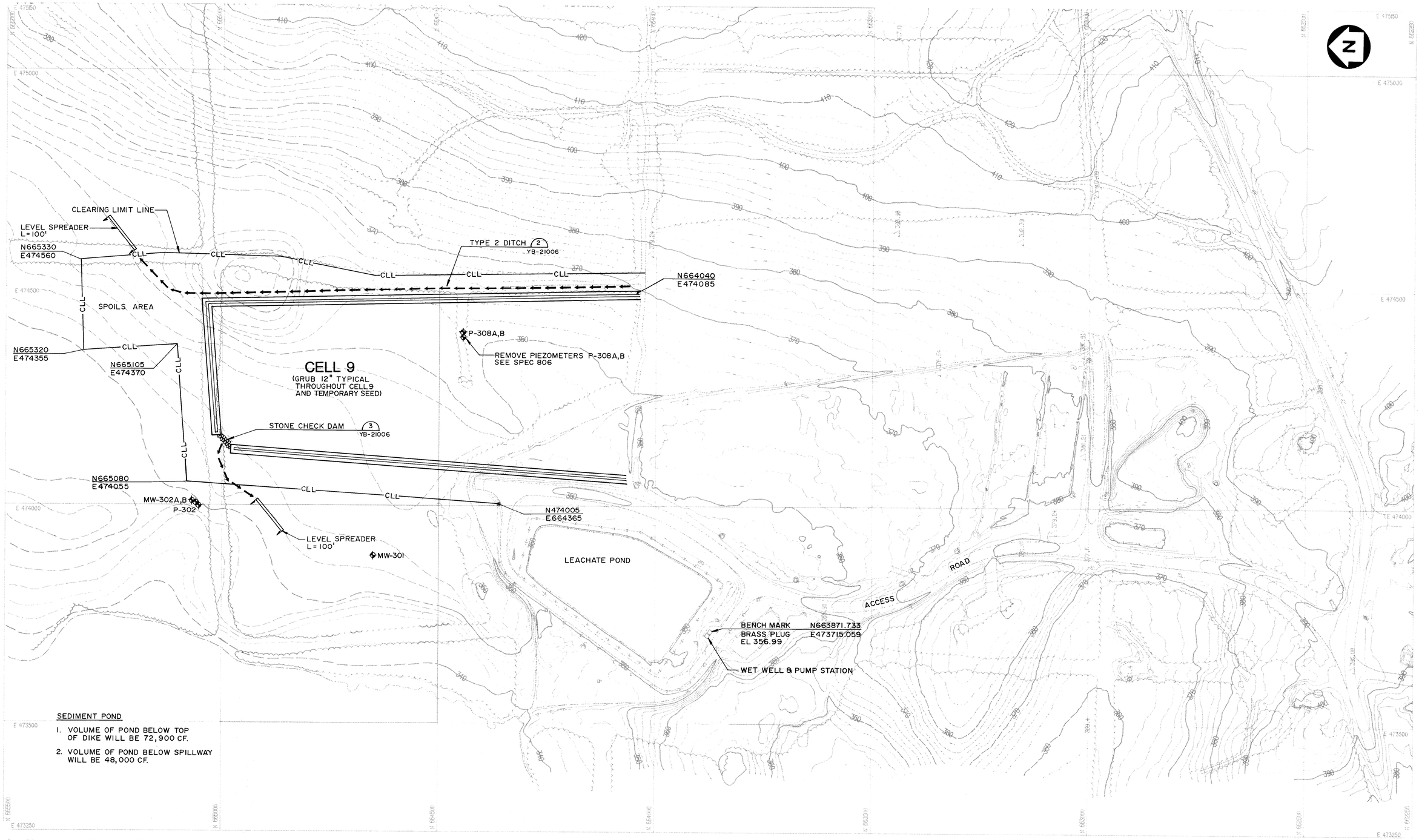
BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 8
SITE DEVELOPMENT PLAN

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703, 7082

YB-21003



SEDIMENT POND

1. VOLUME OF POND BELOW TOP OF DIKE WILL BE 72,900 CF.
2. VOLUME OF POND BELOW SPILLWAY WILL BE 48,000 CF.

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION	B	1	8-4-93	ISSUED FOR BID	MC			

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN	PAF	6-93
CKD	MC	6-93
CKD		
CORR		
APPVD		

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE 1" = 100'

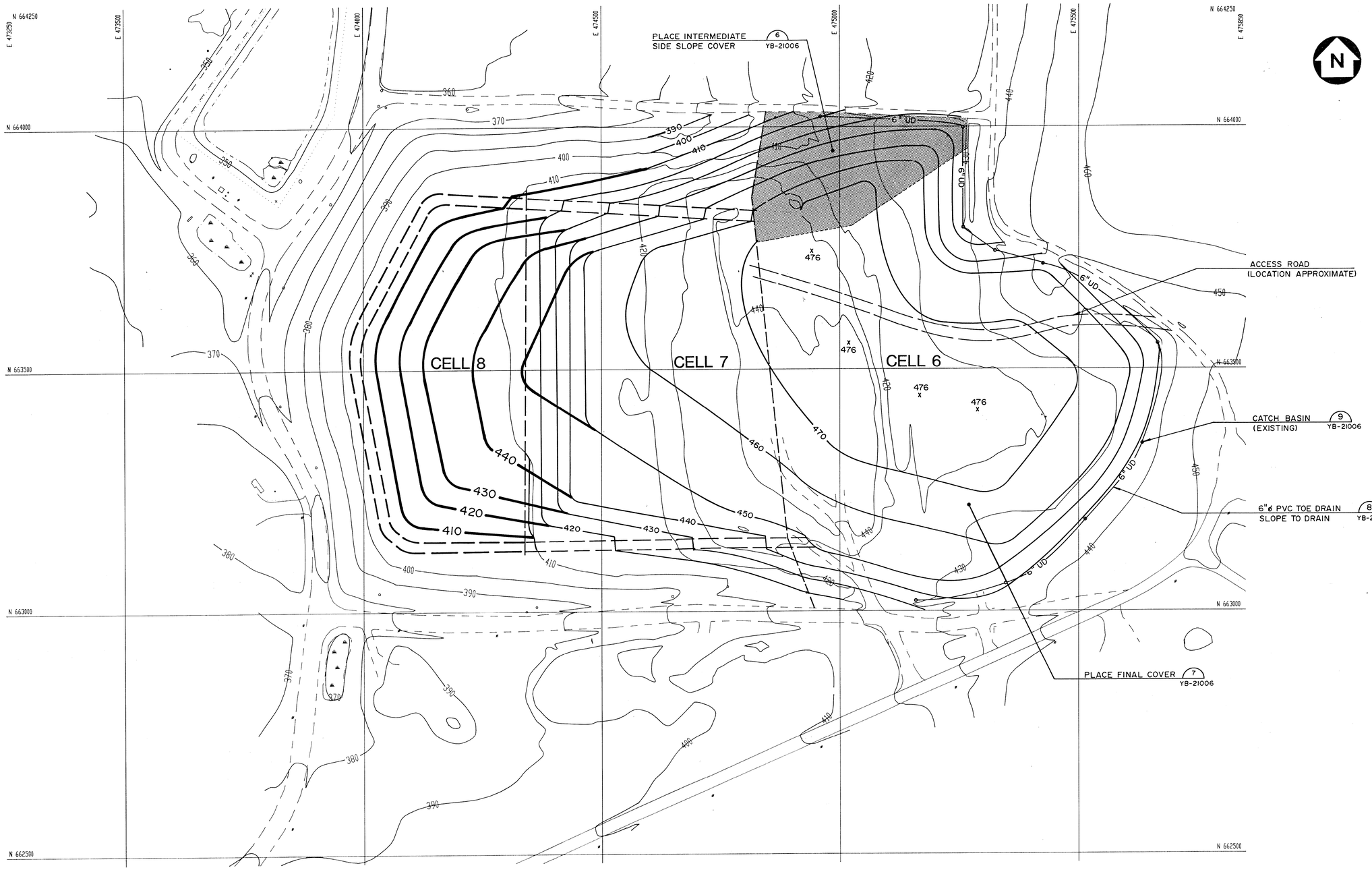
BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 9
SITE DEVELOPMENT PLAN

JOB NO. _____
ENG. REQ. NO. _____
FILE NO 2-092-4703,7082

YB-21004



COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.
OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS
FROM AERIAL PHOTOGRAPHS DATED 8/9/90

DRAWING NO	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
B	1	8-4-93	ISSUED FOR BID				

STATE OF MAINE — PETER A. MAHER — 11107 — REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN PAF	6-93
CKD	6-93
CKD	
CORR	
APPVD	

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST
SCALE 1" = 100'

BOWATER
GREAT NORTHERN PAPER, INC.

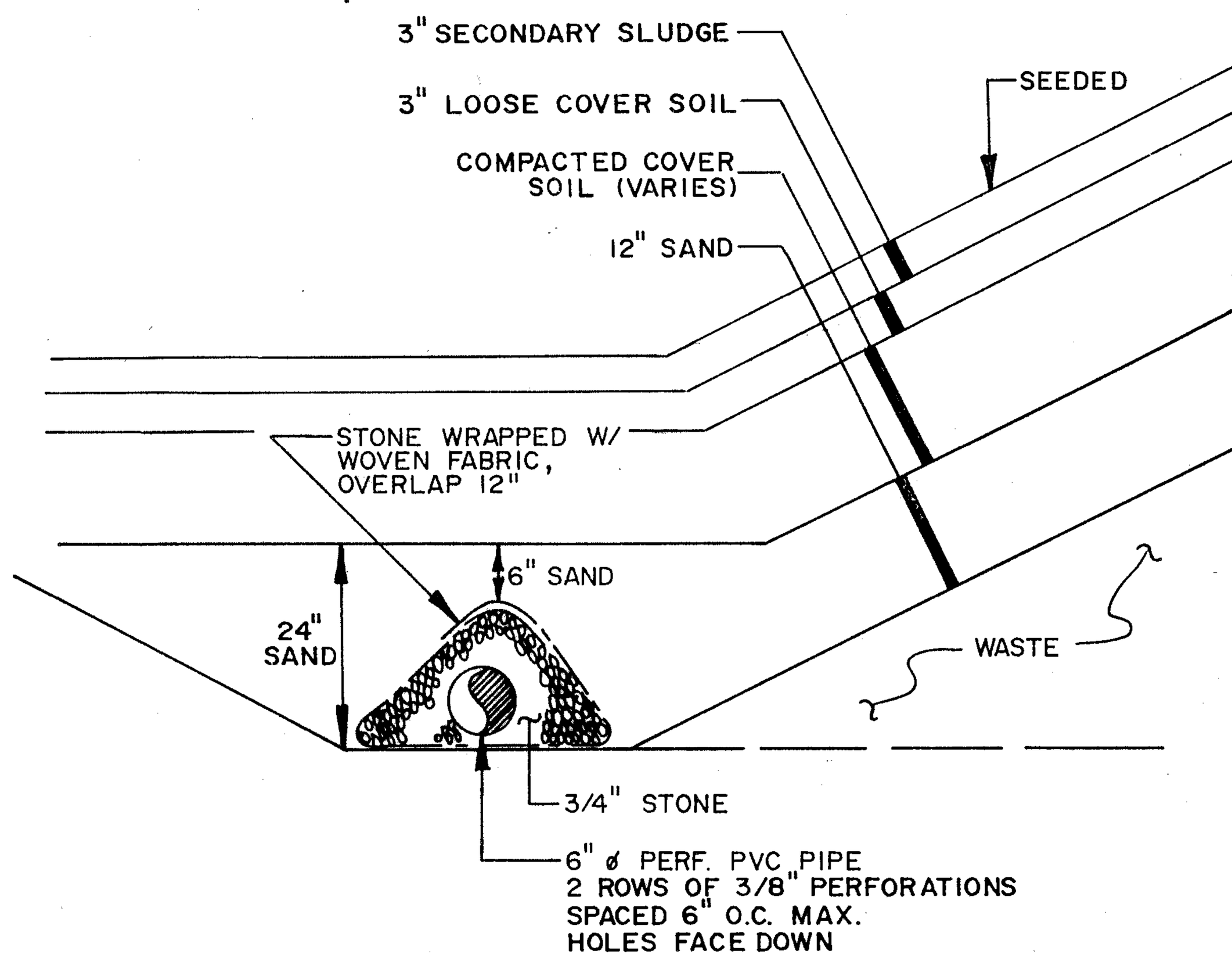
CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 6 CLOSURE, CELL 8
FINAL GRADING PLAN

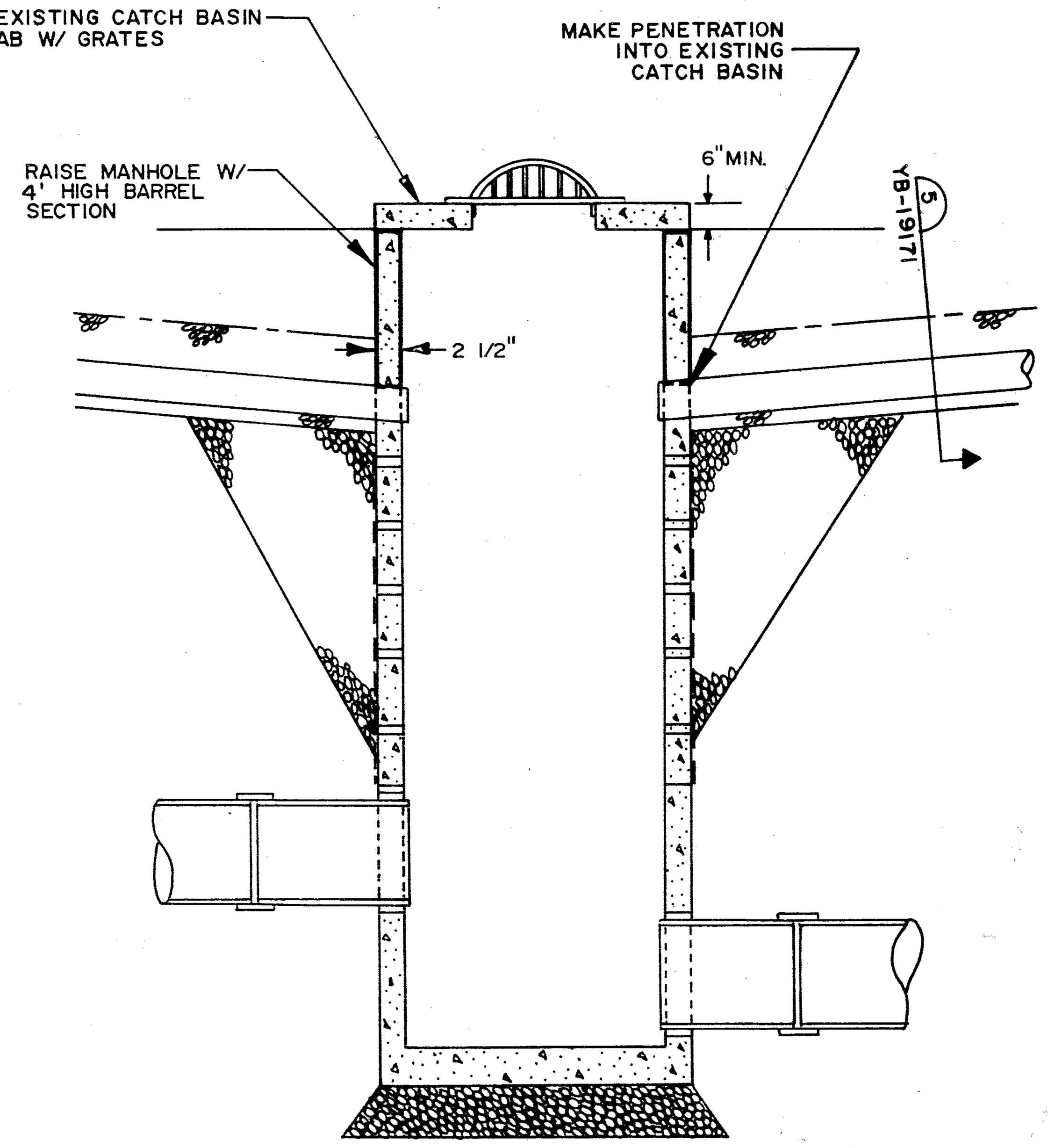
JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703,7082

YB-21005

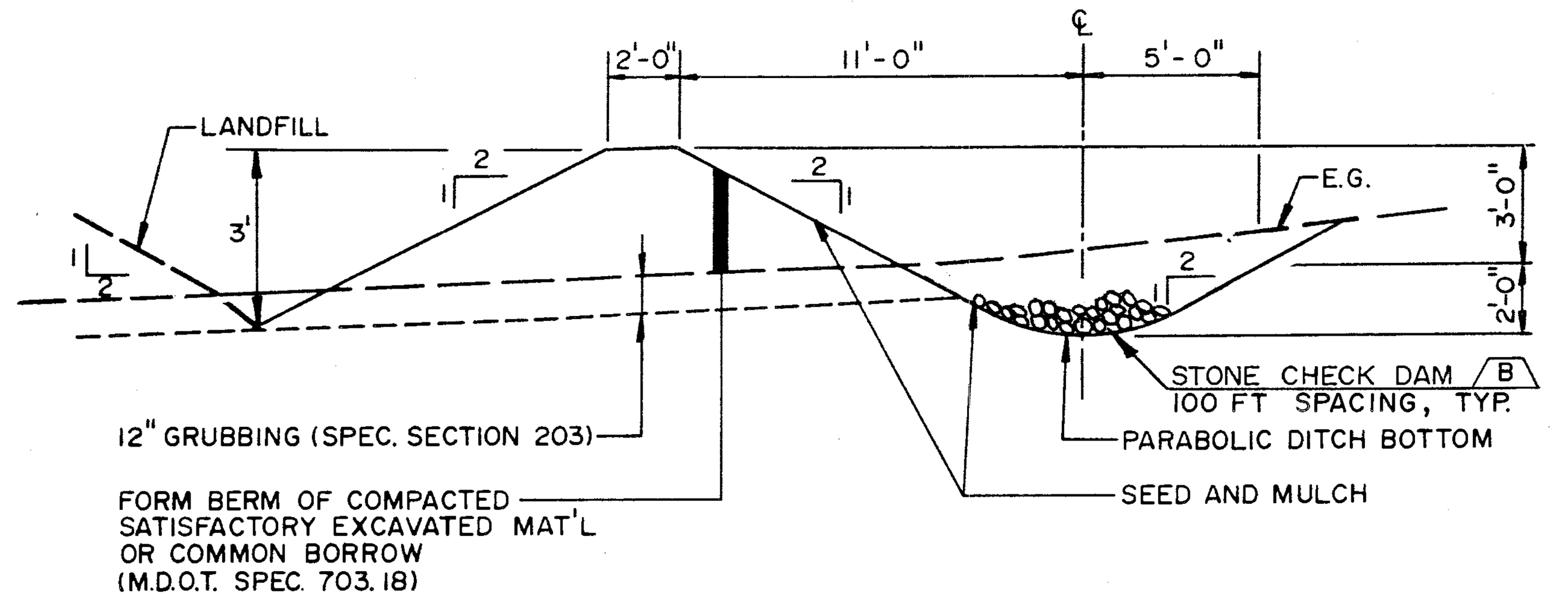
187574
SPILLER'S



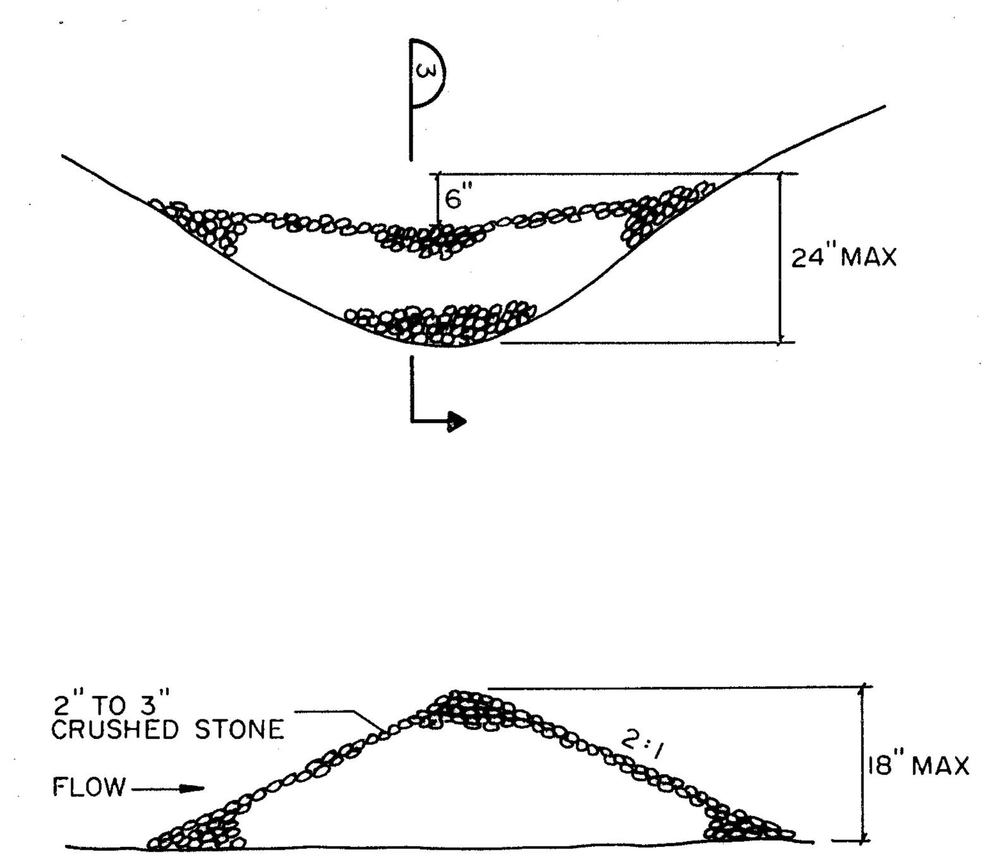
SECTION (8)
N.T.S. YB-21006 YB-21005



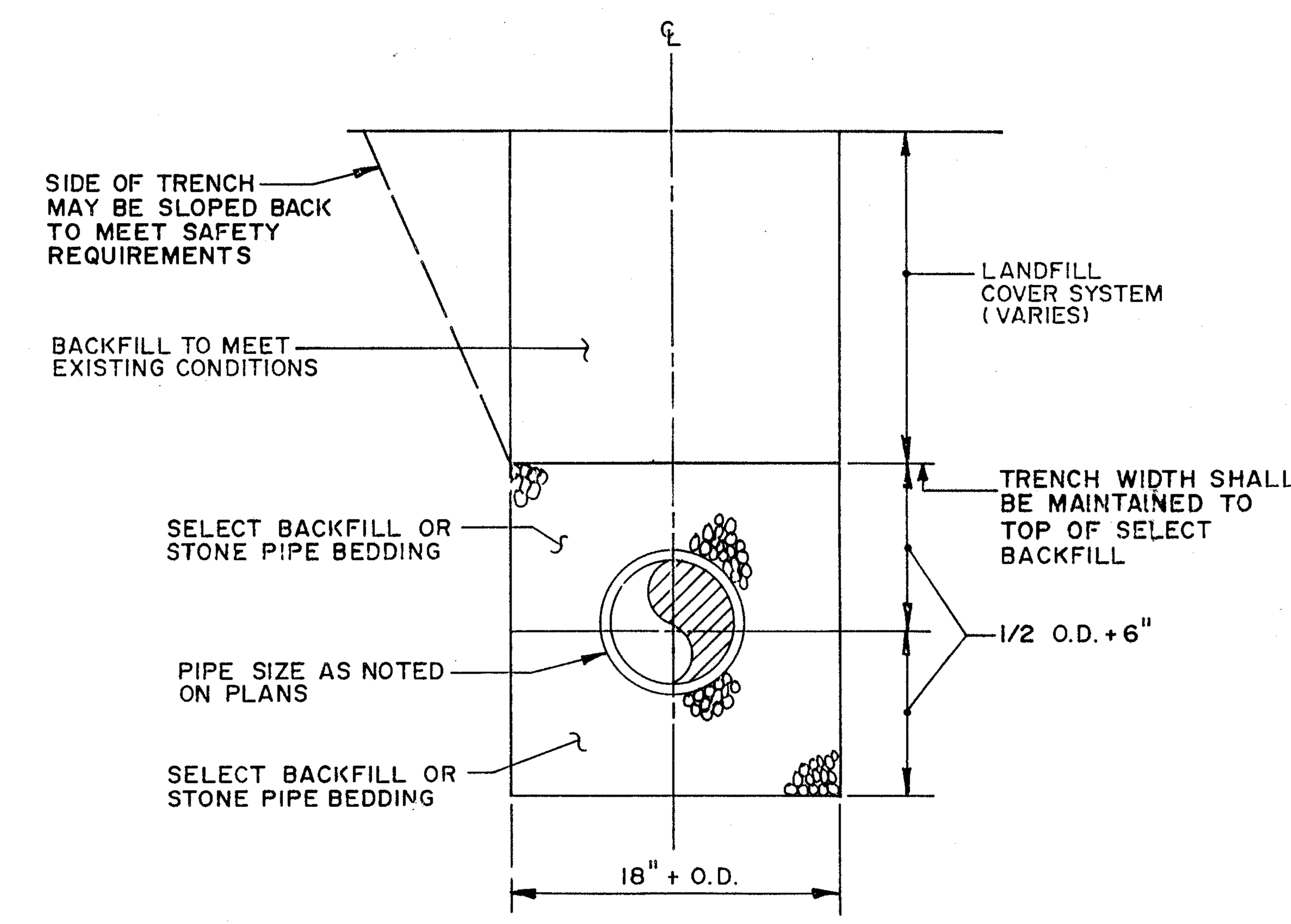
CATCH BASIN (9)
N.T.S. (EXISTING) YB-21005



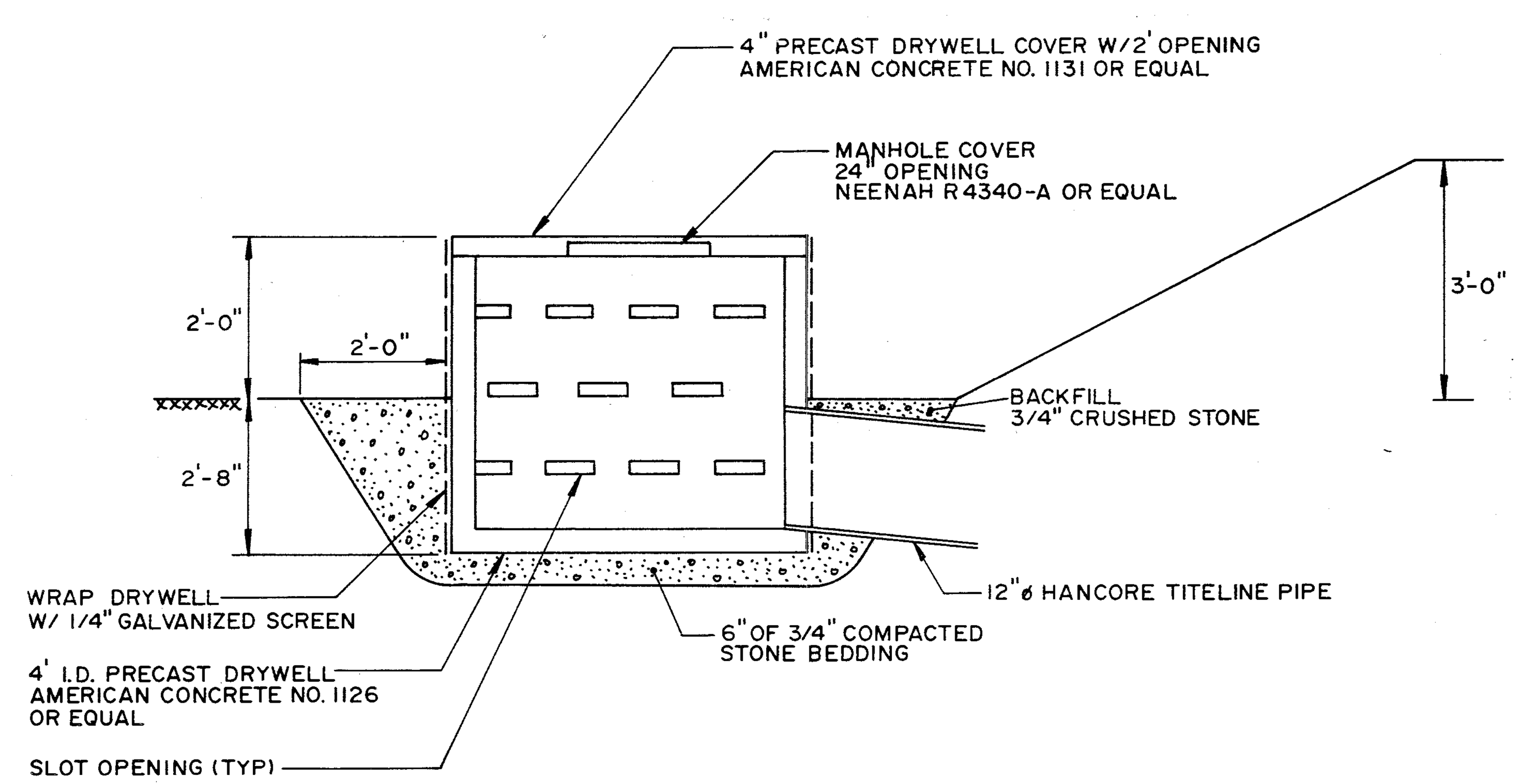
DIKE AND TYPE 2 DRAINAGE DITCH (2)
YB-21004



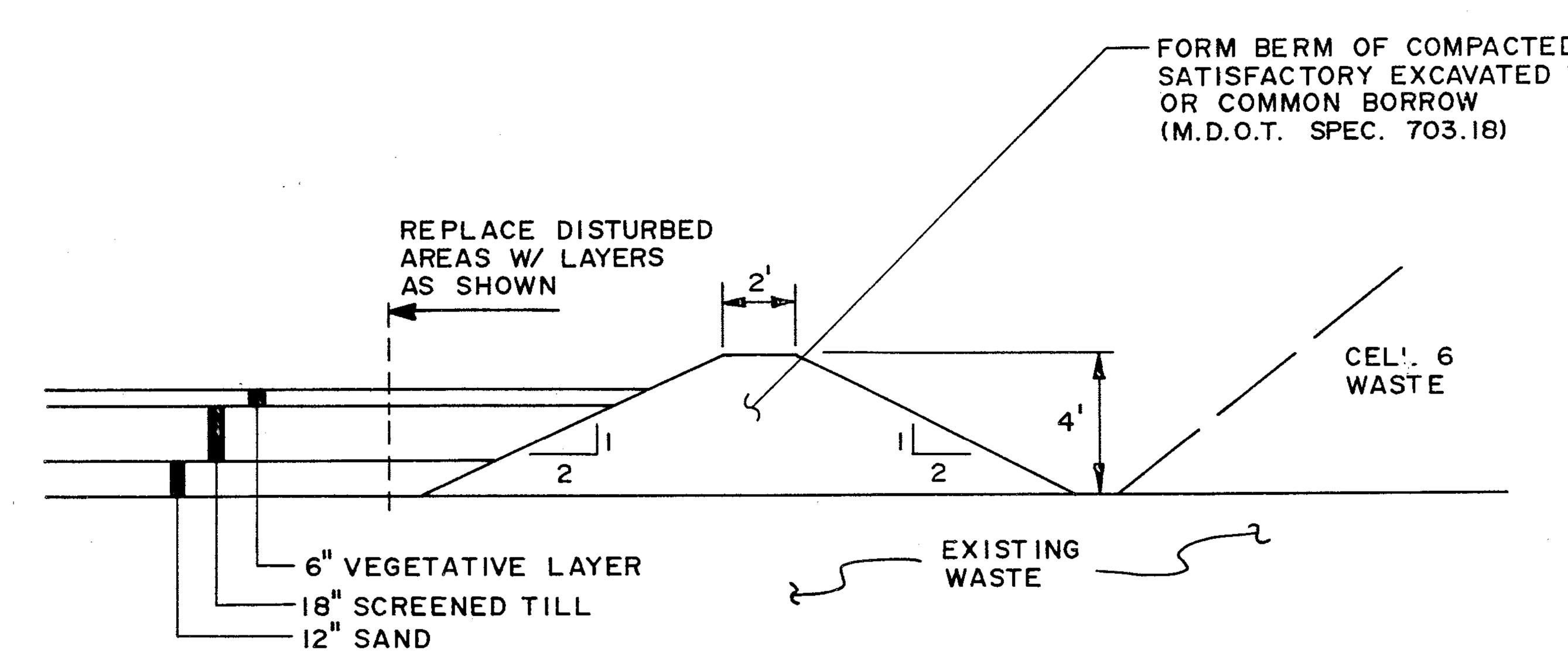
SECTION (3)
STONE CHECK DAM (B)
NTS YB-21006 YB-21004



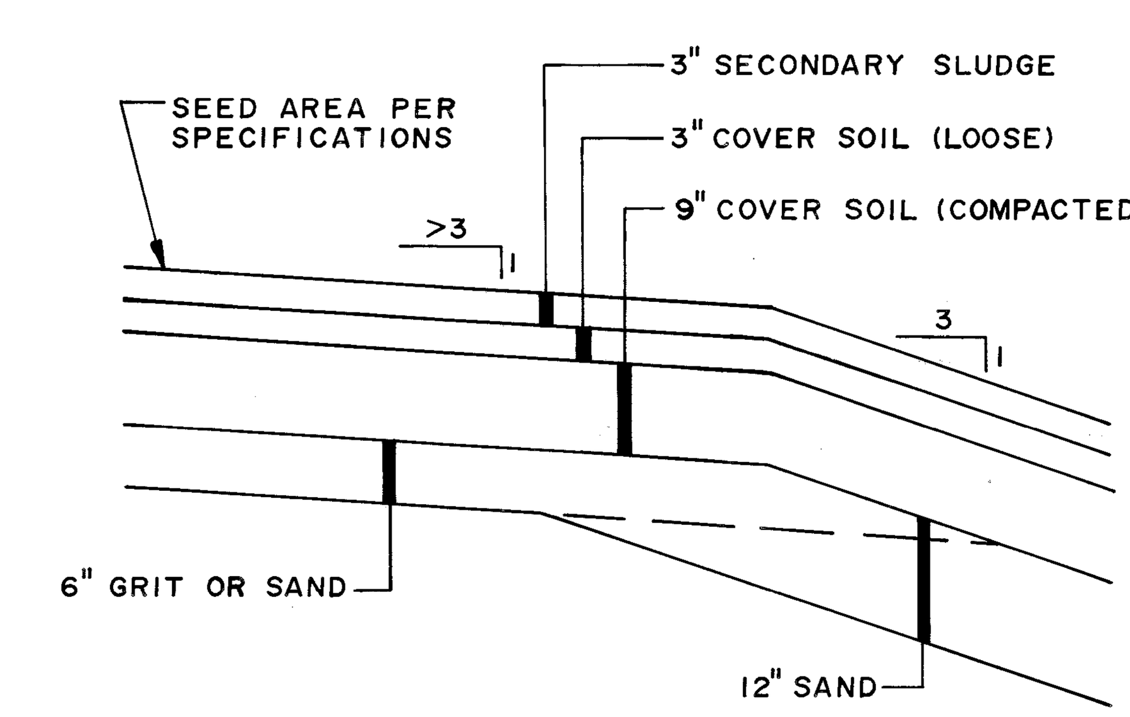
PIPE TRENCH (5)
N.T.S. YB-21003



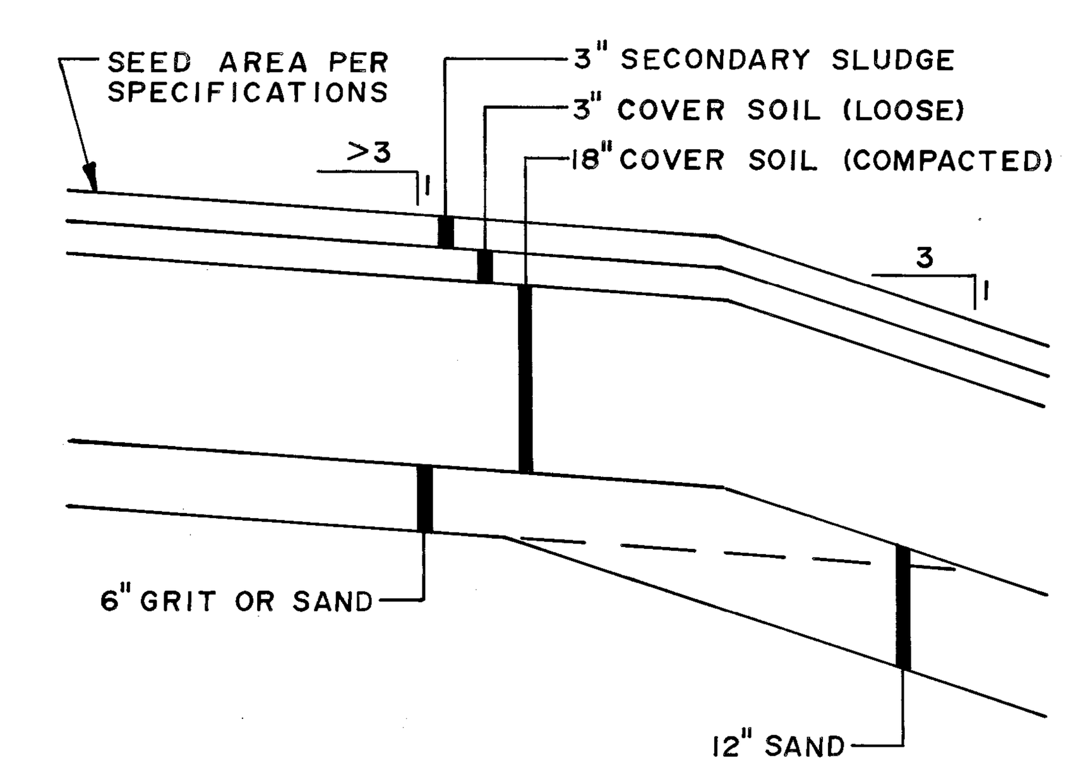
DRAINAGE MANHOLE (A)
NTS YB-21003



TYPICAL DIKE SECTION (4)
N.T.S. YB-21003



INTERMEDIATE SLOPE COVER SECTION (6)
NTS YB-21005



FINAL COVER SECTION (7)
NTS YB-21005

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				8-18-94	RECORD DRAWING/CELL 8 CONSTRUCTION	CJB			
		B	1	8-4-93	ISSUED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 93028

DRN	PAF	6-93
CKD		6-93
CKD		
CORR		
APPVD		

ISSUE CODE
P - PRELIM B - BIDS
M - MTL T.O. C - CONST
SCALE NTS

BOWATER
GREAT NORTHERN PAPER, INC.

CENTRAL ENGINEERING DEPARTMENT
EAST OPERATION

DOLBY III LANDFILL
CELL 6 CLOSURE,
CELLS 8 & 9 CONSTRUCTION
SECTIONS & DETAILS

JOB NO.
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

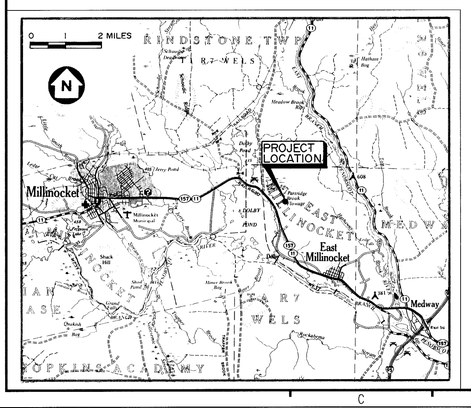
YB-21006

GREAT NORTHERN PAPER, INC.
A SUBSIDIARY OF BOWATER INCORPORATED
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 9 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23039
2	SYMBOLS & ABBREVIATIONS	YB-23040
3	SITE LOCATION PLAN	YB-23041
4	CELL 9 - SITE DEVELOPMENT PLAN	YB-23042
5	CELL 9 - FINAL GRADING PLAN	YB-23043
6	SECTIONS & DETAILS	YB-23044 SHEET 1 OF 2
7	SECTIONS & DETAILS	YB-23044 SHEET 2 OF 2

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1994



STATE OF MAINE PETER M. MAHER #4107 REGISTERED PROFESSIONAL ENGINEER

RECORD DRAWING

SEVEE & MAHER ENGINEERS, INC.	DRN
CONSULTING ENGINEERS	CHK
CUMBERLAND CENTER, MAINE	CHK
	CORR
	APPVD
JOB NO. 94028	ISSUE CODE: P - Prelim, B - Bids, M - Mtl T.O., C - Const.
	SCALE

BOWATER Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 9 CONSTRUCTION
COVER SHEET

JOB NO. 94654
ENG. REQ. NO. _____ YB-23039
FILE NO. 2-092-4703.7082

D:\GNP\ACAD\GNPCOV Thu Sep 8 09:08:39 1994

C D E F G H I L M N O P Q

SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
25	25	CONTOUR LINES
25 x 63	x 25.56	SPOT ELEVATION (GRADE)
E.G.		EXISTING GROUND (PROFILES & SECTIONS)
S.B.		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION POINT
	0+00 1+00	CONSTRUCTION BASELINE
P		PROPERTY OR DEED LINE (NOT SURVEYED)
525.14' N35°-10'-41"E	525.14' N35°-10'-41"E	PROPERTY LINE W/BEARING & DISTANCE
		ROADS, EASEMENTS OR RIGHT OF WAY LINE
		BOUNDARY LINE (STATE, COUNTY, MUNICIPALITY)
MON.	MON.	SURVEY MONUMENT
I.F.	I.F.	SURVEY IRON (FOUND)
D.H. PK. STK.	D.H. PK. STK.	DRILL HOLE, PK OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE (DECIDUOUS)
		INDIVIDUAL TREE (CONIFEROUS)
		TREE, TO BE REMOVED
		MARSH AREA

EXISTING	PROPOSED	
		STONE WALL
		DRAINAGE COURSES W/DIRECTION & DITCH
SHORE SIDE		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		ROCK OUTCROP OR LEDGE
		FENCE LINE (WOOD)
		FENCE LINE (WIRE)
(STONE)	(CONC) FACE	RETAINING WALL (TYPE)
		GUARD RAIL
		BUILDING & STRUCTURES
		STEPS W/TYPE (WOOD/CONCRETE)
	1 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
	TOP OF SLOPE	SLOPES (W/SLOPE RATIO)
		EDGE OF TRAVELED WAY (TYPE)
	C F	CUT OR FILL LINE
	CLL	CONSTRUCTION LIMIT LINE
		BITUMINOUS PAVEMENT
		GRAVEL ROAD
		CONCRETE
B-12 MW-2 P-20	B-12 MW-2 P-20	TEST BORING, MONITORING WELL OR PROBE & NUMBER

EXISTING	PROPOSED	
TP-103	TP-103	TEST PIT & NUMBER
		CLEAN OUT STRUCTURES
		MANHOLE
		WATER VALVE
		HYDRANT
		TELEPHONE OR POWER POLE
		CATCH BASIN
G	8" G	UNDERGROUND GAS MAIN & SIZE
T	T	UNDERGROUND TELEPHONE CABLE/CONDUIT
E	E	UNDERGROUND ELECTRIC CABLE/CONDUIT
OE	OE	OVERHEAD ELECTRICAL LINE
	12" ACP	SANITARY SEWER, SIZE & TYPE
	8" PVC	FORCE MAIN, SIZE & TYPE
	8" DI	WATER MAIN, SIZE & TYPE
	12" RCP	STORM DRAIN, SIZE & TYPE
UD	8" PVC UD	UNDERDRAIN, SIZE & TYPE
	12" BCCMP	CULVERT, SIZE & TYPE
		RAILROAD
	S S	SILTATION FENCE

ABBREVIATIONS

A.C.C.M.P.	ASPHALT COATED C.M.P.
A.C.P.	ASBESTOS CEMENT PIPE
AC	ACRE
AGG	AGGREGATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ASB	ASBESTOS
ASPH	ASPHALT
AT2 C.M.P.	ALUMINUM TYPE 2 C.M.P.
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH
B.C.C.M.P.	BITUMINOUS COATED C.M.P.
B.M.	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
C.B.	CATCH BASIN
C.M.P.	CORRUGATED METAL PIPE
C.O.	CLEAN OUT
CEM. LIN.	CEMENT LINED
CEN	CENTRAL ANGLE OF CURVE
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CTR	CENTER
CY	CUBIC YARD
D	DEGREE OF CURVE (ARC DEF.)
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EG	EXISTING GROUND OR GRADE
ELEC	ELECTRIC
ELL	ELBOW
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
F.G.	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HYD	HYDRANT
I.D.	INSIDE DIAMETER
IN OR "	INCHES
INV	INVERT
INV. EL.	INVERT ELEVATION
LB	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LIN. FT.	LINEAR FEET
LOC	LOCATION
LT	LEFT
M.H.	MANHOLE
M.J.	MECHANICAL JOINT
MATL	MATERIAL
MAX.	MAXIMUM
MFR	MANUFACTURE
MIN.	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
N.I.T.C.	NOT IN THIS CONTRACT
N.T.S.	NOT TO SCALE
N/F	NOW OR FORMERLY
NO. OR #	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.C.	POINT OF CURVE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENT
PERF	PERFORATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R.O.W.	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
V	VOLTS
W/	WITH
W/O	WITHOUT
YD	YARD

GENERAL NOTES:

1. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.
2. CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATION:

COMMON BORROW - MDOT SPECIFICATION - 703.18

ROADWAY SUBBASE - MDOT SPECIFICATION - 703.06 TYPE "D"

ROADWAY SUBBASE - MDOT SPECIFICATION - 703.06 TYPE "G"

ROADWAY SURFACE COURSE - MDOT SPECIFICATION - 703.10

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

PIPE BEDDING - THE PIPE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

BASAL BLANKET - MDOT SPECIFICATION - 703.05

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).

6" AND 8" PVC PIPE - SDR 21

18" PVC PIPE - SDR 26

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 9 ROADWAY AND SEDIMENTATION POND AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING LANDFILL.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIALS -

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:

TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE.

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION

SECTION NO. & LOCATION

3
C-300

DRAWING WHERE SECTION OR DETAIL APPEARS

DETAIL IDENTIFICATION & LETTER

MANHOLE A
C-300

SECTION TITLE & NO.

ACCESS ROAD 3
C-100

DRAWING WHERE SECTION IS TAKEN

DETAIL TITLE & LETTER

MANHOLE A
C-100

DRAWING WHERE DETAIL IS CALLED OUT

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

JOB NO. 94028

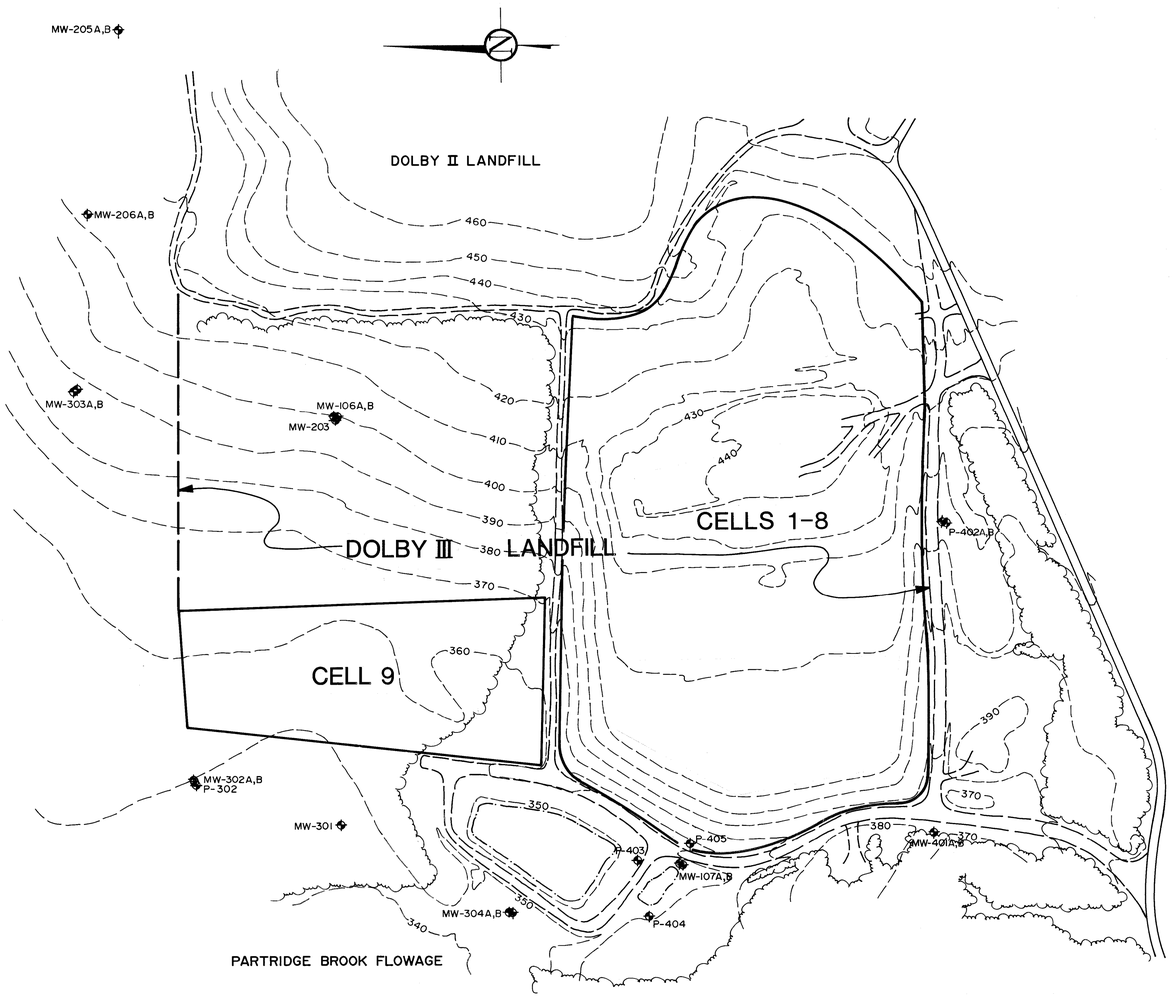
DRN
CKD
CKD
CORR
APPVD
ISSUE CODE B-BIDS
SCALE

BOWATER
GREAT NORTHERN PAPER, INC.

EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SYMBOLS & ABBREVIATIONS

JOB NO. 94654
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-23040



0 100 200 400 600 800 FEET

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				7/95	RECORD DRAWING				
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SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 94028

DRN	
CKD	
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE	1" = 200'

BOWATER
GREAT NORTHERN PAPER, INC.

EAST OPERATION
DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SITE LOCATION PLAN

JOB NO. 94654
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23041

172202
SPILLER'S

CELL 9

END CAP
INV 356.5

N 665000

N 665115.61
E 474450.50

EXISTING TYPE 1 DITCH

370

N 664000

E 474500

CONTAINMENT DIKES TO BE BUILT PRIOR TO LANDFILLING IN CELL 9 NTC

EXISTING SPOIL STOCKPILE

360

CLL

BRANCH CONNECTOR A YB-23044

END CAP (TYP)

REMOVE EXISTING ROAD PRIOR TO LANDFILLING IN CELL 9 NTC

TYPE 1 DRAINAGE DITCH 5 YB-23044

358

STRIP EXISTING COVER MATERIAL PRIOR TO LANDFILLING IN CELL 9 NTC

6-IN AND 8-IN LEACHATE COLLECTION PIPES 6 YB-23044

STONE CHECK DAM (TYP) F YB-23044

PERFORATED LEACHATE COLLECTION PIPE 4 YB-23044

356

REMOVE EXISTING CATCH BASIN COVER REPLACE WITH SOLID H-20 LOADING MANHOLE COVER AS MANUF. BY AMERICAN CONCRETE, OR EQUAL NTC

CB #28
18" INV IN 352.03
8" INV IN 353.65
18" INV OUT 352.03
8" INV OUT 353.65
RIM ELEV 359.7

CB #30
18" INV IN 353.03
18" INV OUT 353.03
RIM ELEV 359.7

CB #29
18" INV IN 352.55
18" INV OUT 352.55
RIM ELEV 359.2

PERFORATED LEACHATE COLLECTION MAIN 4 YB-23044

CB #26
18" INV IN 351.08
18" INV OUT 351.08
RIM ELEV 357.75

LANDFILL ACCESS ROAD 1 YB-23044

STONE CHECK DAM (TYP)

355

CATCH BASIN 2 YB-23044

CB #27
18" INV IN 351.55
18" INV OUT 351.55
RIM ELEV 358.2

SILTATION FENCE E YB-23044

LEVEL SPREADER D YB-23044
L= 35 FEET

8" PVC (SOLID)

48" BCCMP W/ RIPRAP B YB-23044
INV IN 352.0
INV OUT 349.5

REMOVE EXISTING STUB AND INSTALL 18" LC PIPE 18" INV IN 350.88

N 665074.47
E 473997.07

INV 348.3
BASE AT 347.5

RIPRAP (TYP)

GATE VALVE MANHOLE 3 YB-23044
SHUT OFF UNTIL CELL 9 LANDFILLING BEGINS
INV IN 350.88
INV OUT 350.88

E 474000

30" BCCMP

SEDIMENT POND

N 664498.11
E 474403.88

N 664506.62
E 473930.05

N 664351.47
E 474018.42

N 665094.05
E 473997.07

N 665094.05
E 473078.61

N 665003.13
E 473955.71

350

POND SPILLWAY C YB-23044

STATE OF MAINE
PETER MAHER
#4107
REGISTERED
PROFESSIONAL ENGINEER

25 0 50 100 FEET

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SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 94028

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CHK	
CHK	
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APPVD	

ISSUE CODE
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SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SITE DEVELOPMENT PLAN

JOB NO. 94654
ENG. REQ. NO. _____ YB-23042
FILE NO. 2-092-4703.7082

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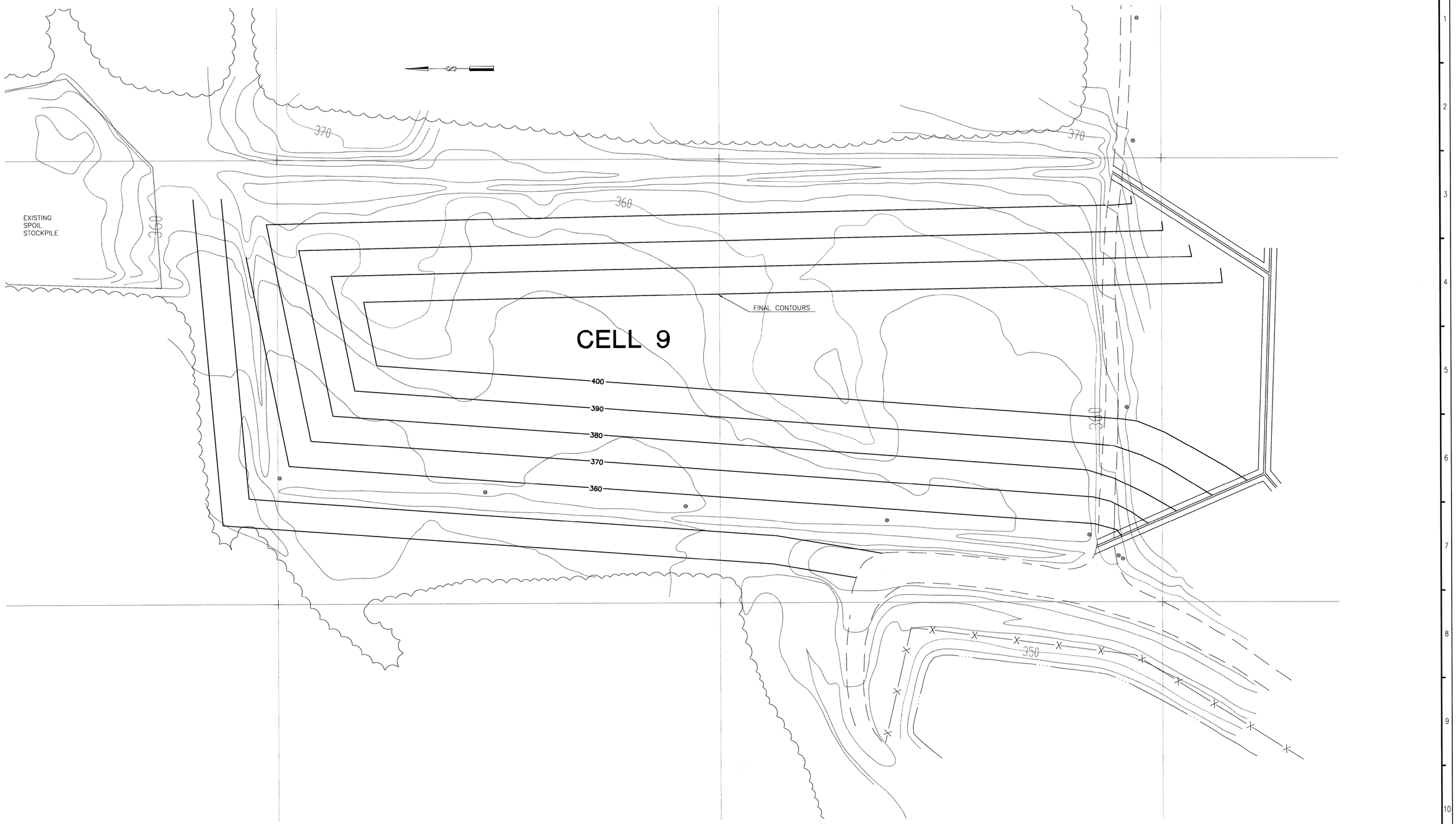

STATE OF MAINE
PETER M. MAHER
#4107
REGISTERED PROFESSIONAL ENGINEER

25 0 50 100 FEET

DRAWING NO.	REFERENCE DRAWING TITLE

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SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 94028

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CHK	
CHK	
CORR	
APPVD	

ISSUE CODE

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M – Mtl T.O.	C – Const.

SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 9 CONSTRUCTION
FINAL GRADING PLAN

JOB NO. 94654
ENG. REQ. NO. _____ YB-23043
FILE NO. 2-092-4703.7082

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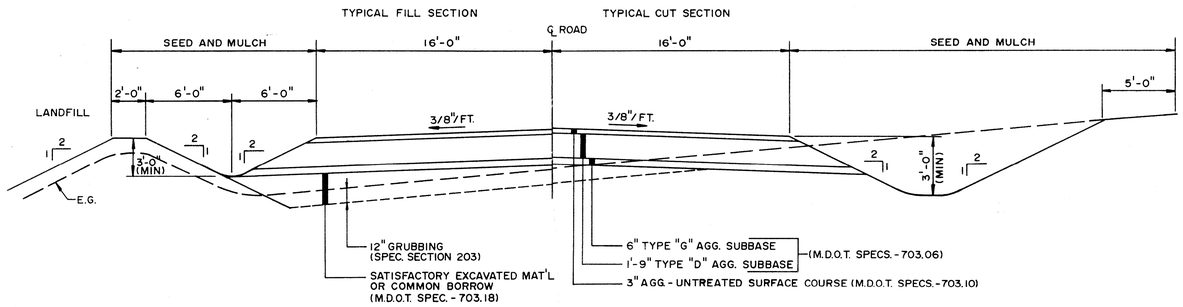
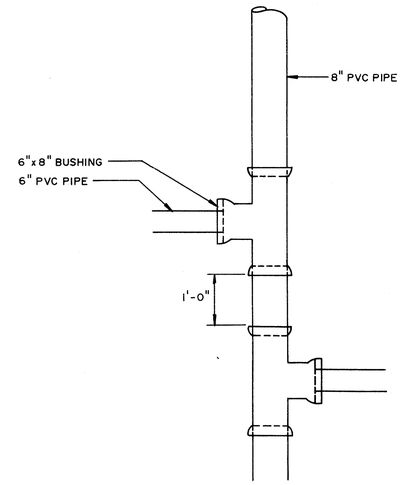


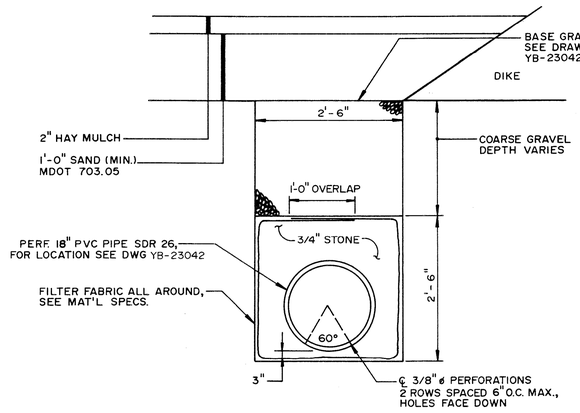
TYPICAL SECTION LANDFILL ACCESS ROAD (1)

N.T.S. YB-23042



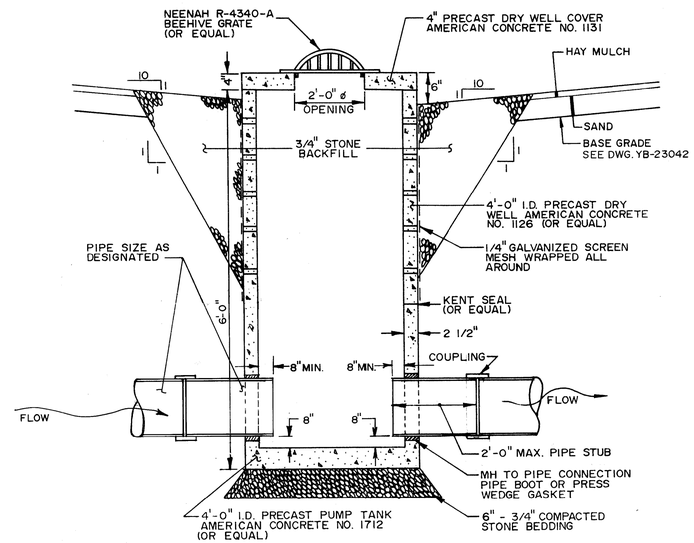
BRANCH CONNECTOR (A)

N.T.S. YB-23042



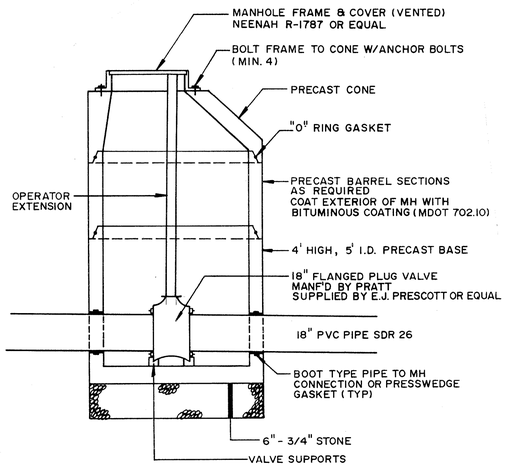
PERF. LEACHATE COLLECTION MAIN (4)

N.T.S. YB-23042



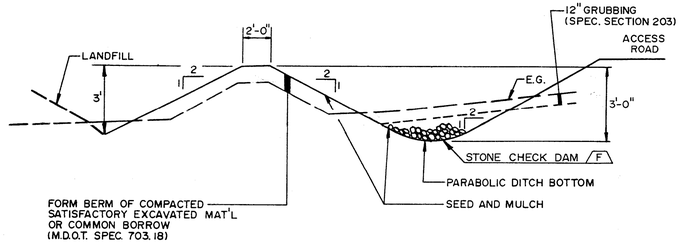
CATCH BASIN (2)

N.T.S. YB-23042



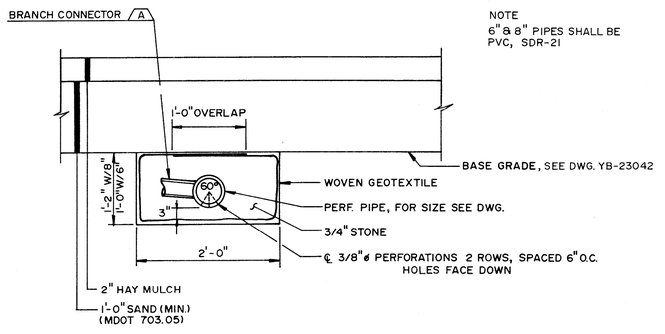
VALVE MANHOLE (3)

N.T.S. YB-23042



DIKE AND TYPE I DRAINAGE DITCH (5)

N.T.S. YB-23042



6-IN. 8-IN. LEACHATE COLLECTION PIPES (6)

N.T.S. YB-23042

STATE OF MAINE — PETER M. MAHER #4107 — REGISTERED PROFESSIONAL ENGINEER

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CUMBERLAND, MAINE

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BOWATER
GREAT NORTHERN PAPER, INC.

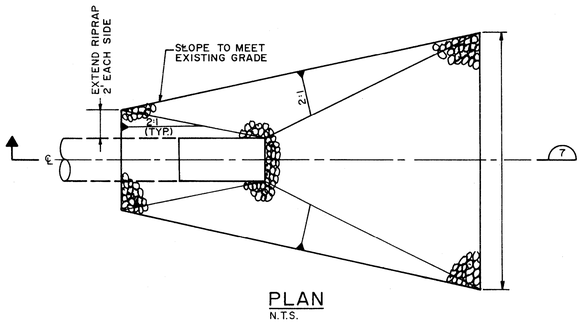
EAST OPERATION

DOLBY III LANDFILL
CELL 9 CONSTRUCTION
SECTIONS & DETAILS

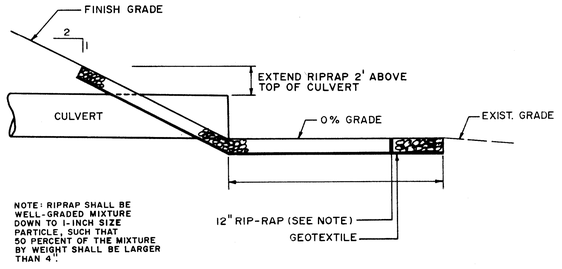
JOB NO. 94654
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-23044
SHEET 1 OF 2

172202
SPILLER'S

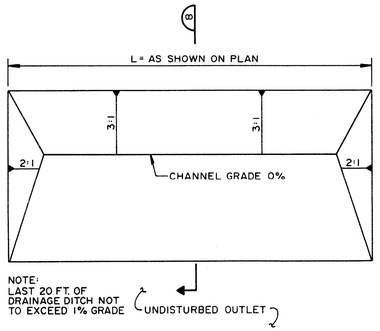


PLAN
N.T.S.

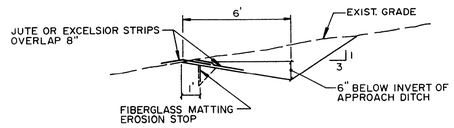


SECTION 7
N.T.S.

CULVERT W/RIPRAP B
YB-23042

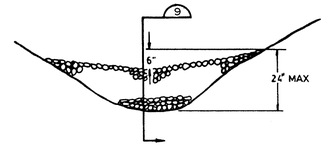


PLAN
NTS

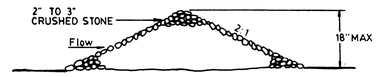


SECTION 8

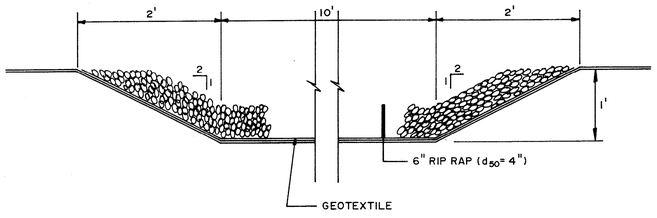
LEVEL SPREADER D
NTS
YB-23042



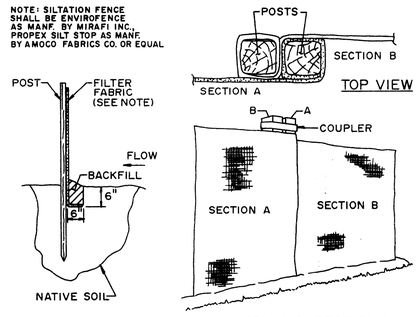
STONE CHECK DAM F
N.T.S.
YB-23042



SECTION 9
N.T.S.



POND SPILLWAY C
N.T.S.
YB-23042



TOE-IN DETAIL

JOINING SECTIONS

SILTATION FENCE E
N.T.S.
YB-23042

STATE OF MAINE
PETER M. MAHER
6107
REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				7/95	RECORD DRAWING				
				9/8/94	ISSUED FOR BID				
				9/7/94	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 94028

DRN	
CKD	
CKD	
CORR	
APPVD	

ISSUE CODE: P - PRELIM | B - BIDS | M - MTL T.O. | C - CONST

SCALE N.T.S.

BOWATER
GREAT NORTHERN PAPER, INC.

EAST OPERATION

DOLBY III LANDFILL CELL 9 CONSTRUCTION SECTIONS & DETAILS

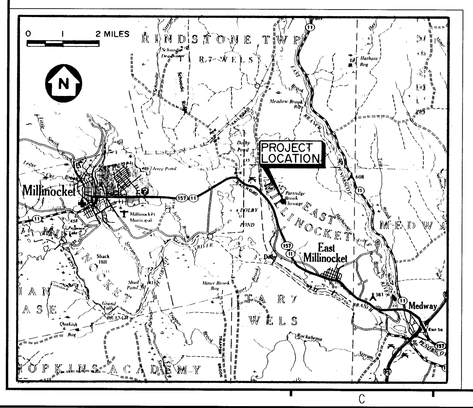
JOB NO. 94654
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

YB-23044
SHEET 2 OF 2

172202
SPILLER'S

GREAT NORTHERN PAPER, INC.
A SUBSIDIARY OF BOWATER INCORPORATED
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 10 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-23378
2	SYMBOLS & ABBREVIATIONS	YB-23379
3	SITE LOCATION PLAN	YB-23380
4	CELL 10 – SITE DEVELOPMENT PLAN	YB-23381
5	CELLS 7 & 8 CLOSURE – FINAL GRADING PLAN	YB-23382
6	CELL 10 – FINAL GRADING PLAN	YB-23383
7	SECTIONS & DETAILS	YB-23384 SHEET 1 OF 2
8	SECTIONS & DETAILS	YB-23384 SHEET 2 OF 2



SEVEE & MAHER ENGINEERS, INC.
CUMBERLAND, MAINE

1995

STATE OF MAINE
PETER J. MAHER
#4107
REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

DRN	
CHK	
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APPVD	

ISSUE CODE

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M – Mtl T.O.	C – Const.

SCALE

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 10 CONSTRUCTION
COVER SHEET

JOB NO. _____
ENG. REQ. NO. _____ YB-23378
FILE NO. 2-092-4703.7082

D:\GNP\ACAD\CELL10\GNPCOV10 Tue May 23 09:35:02 1995

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL	○	●	MANHOLE
		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)	◎	⊙	CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER	⋈	⧓	WATER VALVE
25 x 63	25.56 x	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.	x x	x x	FENCE LINE (WIRE)		⊘	CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		2 1↑ OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
⊡	■	SURVEY MONUMENT		TOP OF SLOPE	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER, SIZE & TYPE
○IF	●IF	SURVEY IRON			EDGE OF TRAVELLED WAY	FM	8" PVC	FORCE MAIN, SIZE & TYPE
○	●	DRILL HOLE, PK, OR STAKE		C F	CUT OR FILL LINE	W	8" D.I.	WATER MAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CONSTRUCTION LIMIT LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			RAILROAD
		MARSH AREA	TP-12	TP-12	TEST PIT AND NUMBER		S	SILTATION FENCE

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18
ROADWAY SUBBASE – MDOT SPECIFICATION 703.06 TYPE "D"
ROADWAY SUBBASE – MDOT SPECIFICATION 703.06 TYPE "G"
ROADWAY SURFACE COURSE – MDOT SPECIFICATION 703.10

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4–INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET – MDOT SPECIFICATION 703.05

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE – SDR 21

12" PVC PIPE – SDR 26

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 10 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:

TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

VIEW MARKERS & IDENTIFICATION

A.C.C.M.P	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE (ARC DEF.)	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	P.I.	POINT OF INTERSECTION
AC	ACRE	DEG OR °	DEGREE	HYD	HYDRANT	P.T.	POINT OF TANGENT
AGG	AGGREGATE	DEPT	DEPARTMENT			PERF	PERFORATED
ALUM	ALUMINUM	DI	DUCTILE IRON	I.D.	INSIDE DIAMETER	PSI	POUNDS PER SQUARE INCH
APPD	APPROVED	DIA OR ø	DIAMETER	IN OR "	INCHES	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	DIM	DIMENSION	INV	INVERT	PVMT	PAVEMENT
ASB	ASBESTOS	DIST	DISTANCE	INV. EL	INVERT ELEVATION		
ASPH	ASPHALT	DN	DOWN			QTY	QUANTITY
AUTO	AUTOMATIC	DR	DRAIN	LB	POUND		
AUX	AUXILIARY	DWG	DRAWING	LC	LEACHATE COLLECTION	R.O.W.	RIGHT OF WAY
AVE	AVENUE			LD	LEAK DETECTION	RAD	RADIUS
AZ	AZIMUTH	EA	EACH	LIN FT.	LINEAR FEET	REQD	REQUIRED
		EG	EXISTING GROUND OR GRADE	LOC	LOCATION	RT	RIGHT
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	ELEC	ELECTRIC	LT	LEFT	RTE	ROUTE
B.M.	BENCH MARK	EL	ELEVATION				
BIT	BITUMINOUS	ELB	ELBOW	M.H.	MANHOLE	S	SLOPE
BLDG	BUILDING	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT	SCH	SCHEDULE
BOT	BOTTOM	EST	ESTIMATED	MATL	MATERIAL	SF	SQUARE FEET
BRG	BEARING	EXC	EXCAVATE	MAX	MAXIMUM	SD	STORM DRAIN
		EXIST	EXISTING	MFR	MANUFACTURE	SDR	STANDARD DIMENSION RATIO
C.B.	CATCH BASIN			MIN	MINIMUM	SHT	SHEET
CEN	CENTER	F.G.	FINISH GRADE	MISC	MISCELLANEOUS	STA	STATION
CEM. LIN.	CEMENT LINED	FBRGL	FIBERGLASS	MON	MONUMENT	SY	SQUARE YARD
C.M.P.	CORRUGATED METAL PIPE	FDN	FOUNDATION				
C.O.	CLEAN OUT	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT	TAN	TANGENT
CF	CUBIC FEET	FLG	FLANGE	N.T.S.	NOT TO SCALE	TDH	TOTAL DYNAMIC HEAD
CFS	CUBIC FEET PER SECOND	FLR	FLOOR	N/F	NOW OR FORMERLY	TEMP	TEMPORARY
CI	CAST IRON	FPS	FEET PER SECOND	NO. OR #	NUMBER	TYP	TYPICAL
CL	CLASS	FT OR '	FEET				
CONC	CONCRETE	FTG	FOOTING	O.C.	ON CENTER	V	VOLTS
CONST	CONSTRUCTION			O.D.	OUTSIDE DIAMETER		
CONTR	CONTRACTOR	GA	GAUGE			W/	WITH
CTR	CENTER	GAL	GALLON			W/O	WITHOUT
CY	CUBIC YARD	GALV	GALVANIZED				
		GPD	GALLONS PER DAY			YD	YARD
		GPM	GALLONS PER MINUTE				

STATE OF MAINE PETER M. MAHER #4107 REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

DRN	
CHK	
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APPVD	
ISSUE CODE	
P – Prelim	B – Bids
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SCALE	

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL CELL 10 CONSTRUCTION

SYMBOLS & ABBREVIATIONS

JOB NO. _____
ENG. REQ. NO. _____
FILE NO. 2-092-4703.7082

YB-23379

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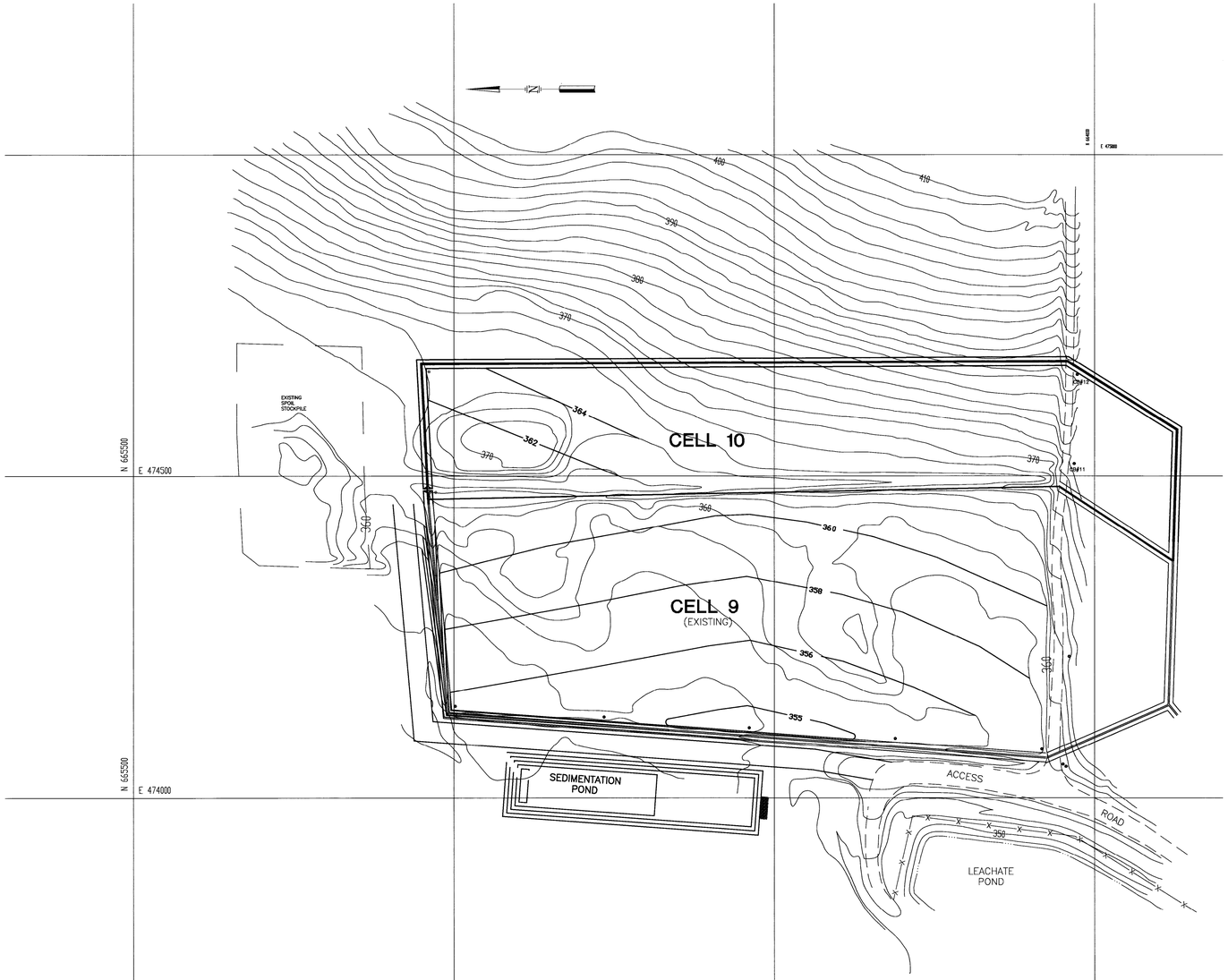

50 0 100 200 FEET

DRAWING NO.	REFERENCE DRAWING TITLE
YB–15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION
YB–23042	DOLBY III LANDFILL AREA, CELL 9 CONSTRUCTION, SITE DEVELOPMENT PLAN

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		5/95	SUBMITTED FOR BID				
		4/95	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

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SCALE AS SHOWN

STATE OF MAINE
PETER W. MAHER
#4107
REGISTERED
PROFESSIONAL ENGINEER

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL CELL 10 CONSTRUCTION SITE LOCATION PLAN

JOB NO. _____ YB–23380
ENG. REQ. NO. _____
FILE NO. 2–092–4703,7082

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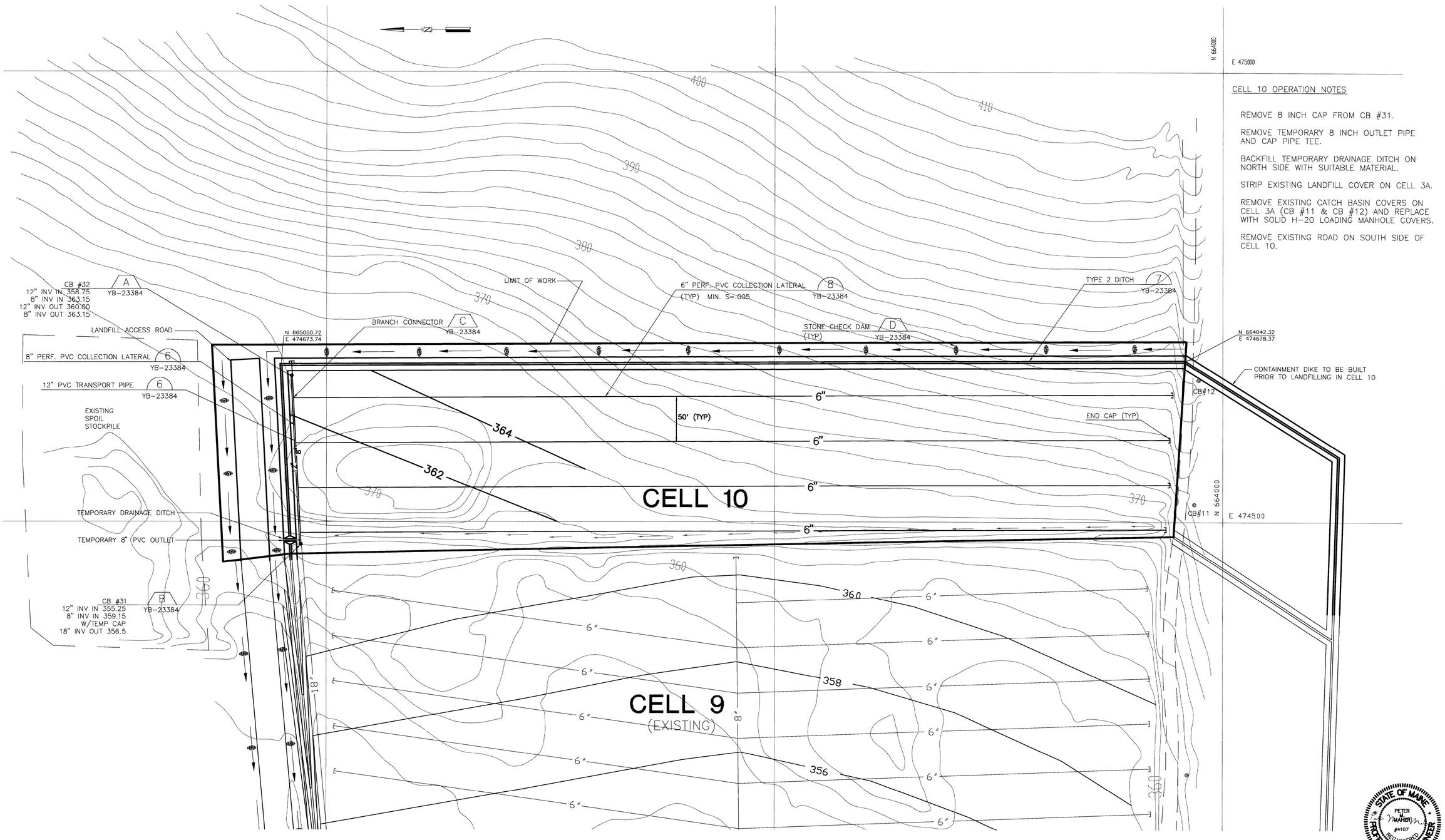

CELL 10 OPERATION NOTES

REMOVE 8 INCH CAP FROM CB #31.

REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.

BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.

STRIP EXISTING LANDFILL COVER ON CELL 3A.

REMOVE EXISTING CATCH BASIN COVERS ON CELL 3A (CB #11 & CB #12) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVERS.

REMOVE EXISTING ROAD ON SOUTH SIDE OF CELL 10.

STATE OF MAINE
PETER M. MAHER #4107
REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE
YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION
YB-23042	DOLBY III LANDFILL AREA, CELL 9 CONSTRUCTION, SITE DEVELOPMENT PLAN

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		5/95	SUBMITTED FOR BID				
		4/95	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

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CHK	
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Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL CELL 10 CONSTRUCTION SITE DEVELOPMENT PLAN

JOB NO. YB-23381
ENG. REQ. NO.
FILE NO. 2-092-4703.7082

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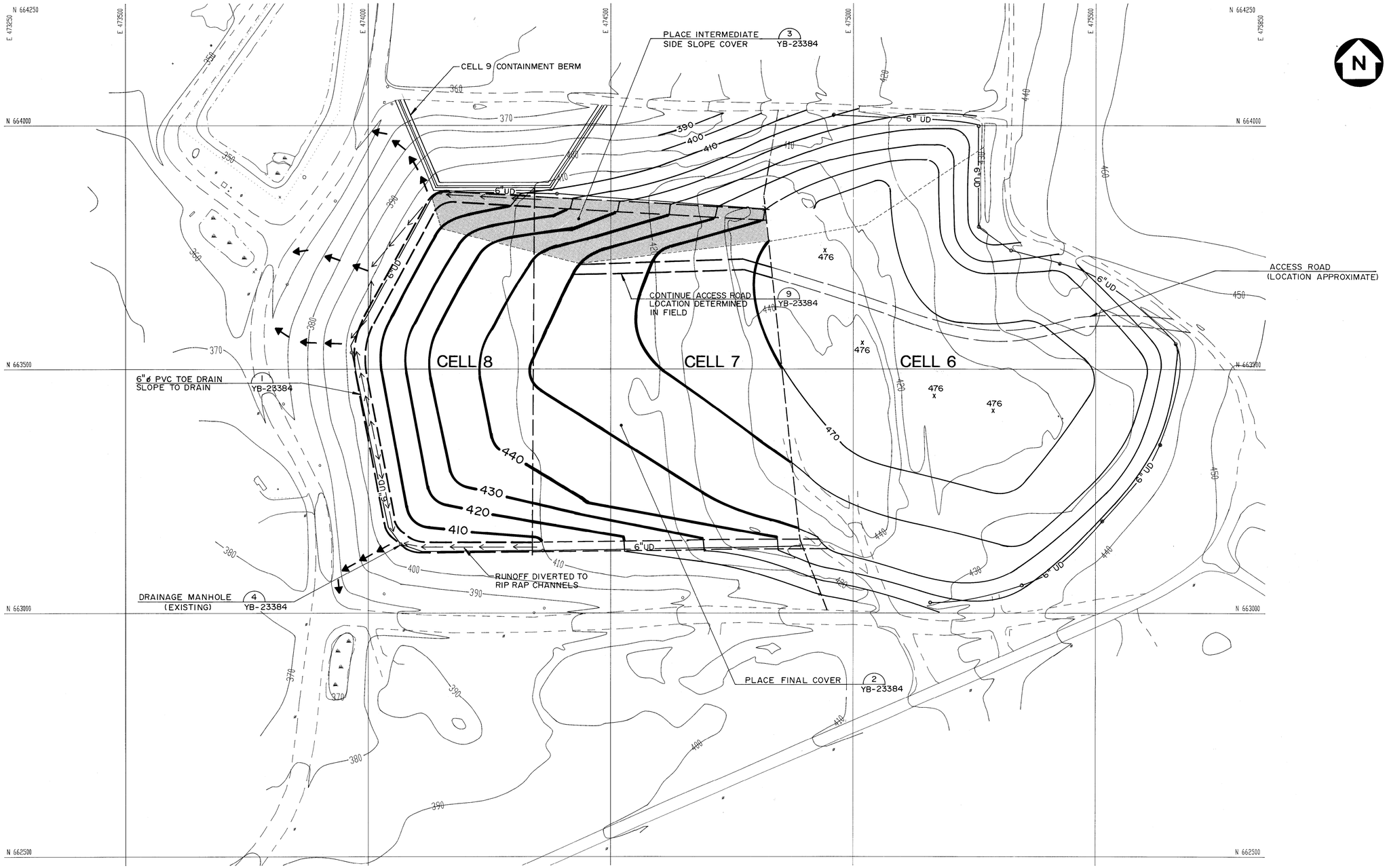


COMPILED AND CONTROLLED BY JAMES W. SEWALL CO.
OLD TOWN, ME BY PHOTOGRAMMETRIC METHODS
FROM AERIAL PHOTOGRAPHS DATED 8/9/90

DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
				10/97	RECORD DRAWING	PAF			
		C		8/95	ISSUED FOR CONSTRUCTION	PAF			
		B		5/95	SUBMITTED FOR BID				

STATE OF MAINE — PETER A. MAHER — 10107 — REGISTERED PROFESSIONAL ENGINEER

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 95019

DRN	PAF
CKD	PAF
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE 1" = 100'	

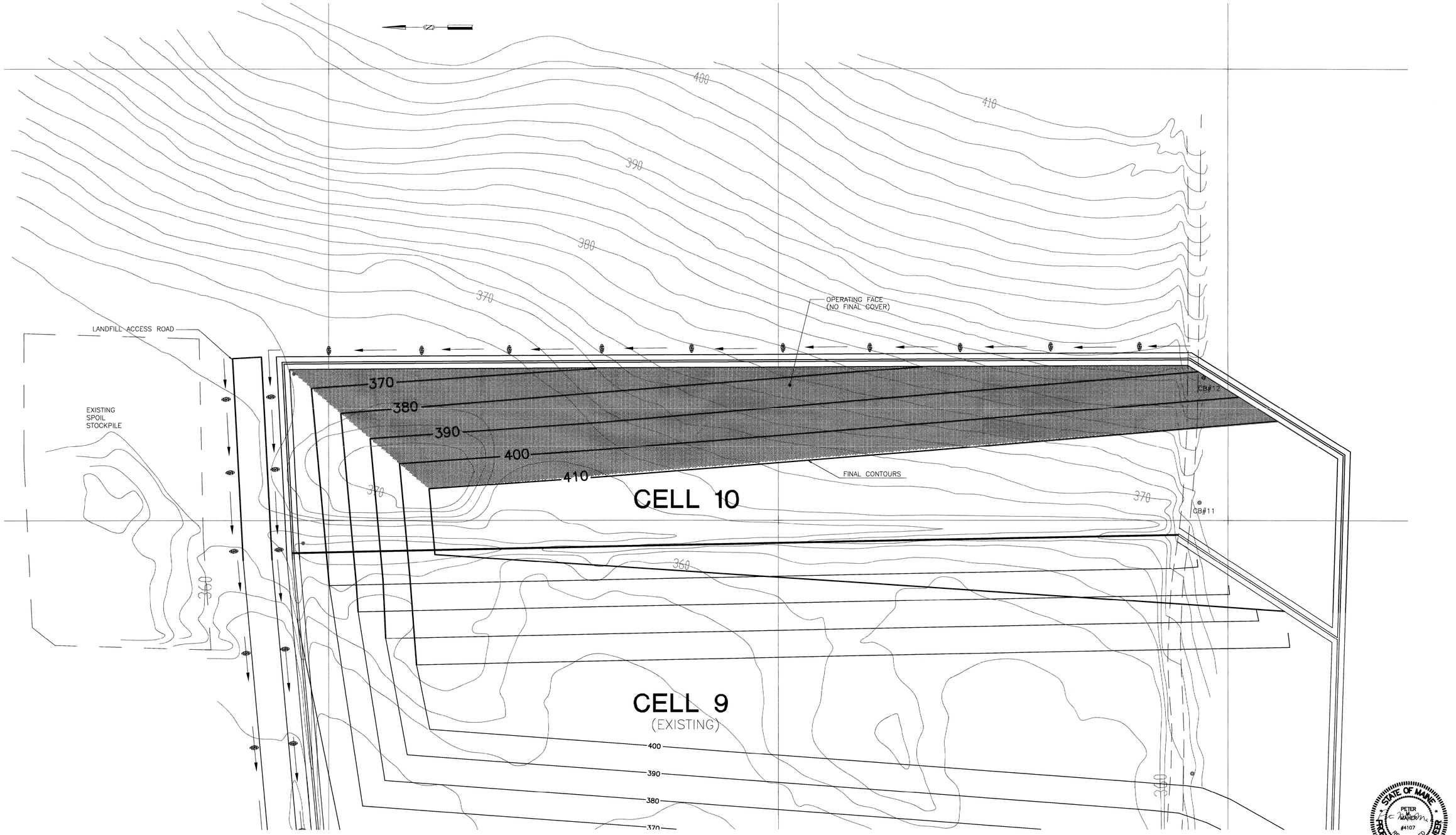
BOWATER
GREAT NORTHERN PAPER

EAST OPERATION
DOLBY III LANDFILL
CELLS 7 & 8 CLOSURE
FINAL GRADING PLAN

JOB NO. 94678
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23382

SPILLER'S



25 0 50 100 FEET

DRAWING NO.	REFERENCE DRAWING TITLE
YB-15263	DOLBY III LANDFILL AREA, TOPOGRAPHIC SURVEY AND DIGITIZATION
YB-23042	DOLBY III LANDFILL AREA, CELL 9 CONSTRUCTION, SITE DEVELOPMENT PLAN

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		5/95	SUBMITTED FOR BID				
		4/95	SUBMITTED TO CLIENT				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND CENTER, MAINE

JOB NO. 95019

DRN	
CHK	
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APPVD	

ISSUE CODE

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SCALE AS SHOWN

STATE OF MAINE
PETER J. MAHER, JR.
#4107
REGISTERED
PROFESSIONAL ENGINEER

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 10 CONSTRUCTION
FINAL GRADING PLAN

JOB NO. _____
ENG. REQ. NO. _____ YB-23383
FILE NO. 2-092-4703.7082

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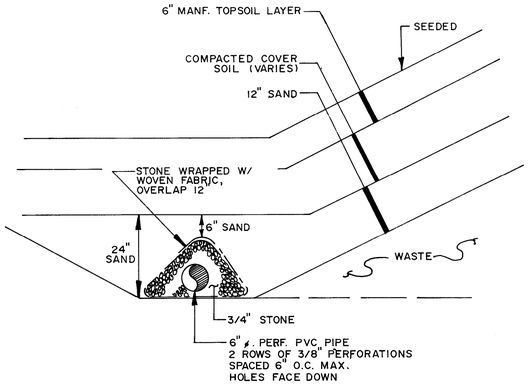
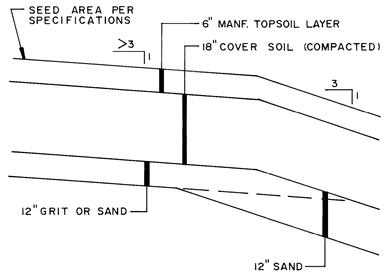
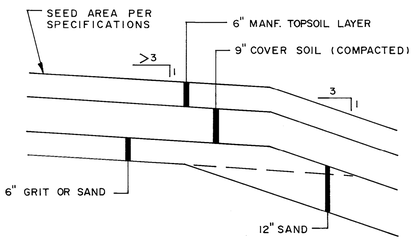


SECTION 1
N.T.S. YB-23382

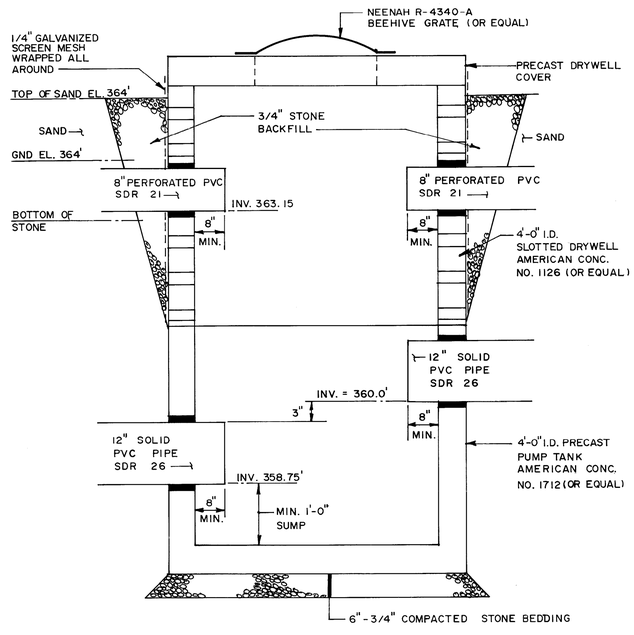


FINAL COVER SECTION 2
N.T.S. YB-23382

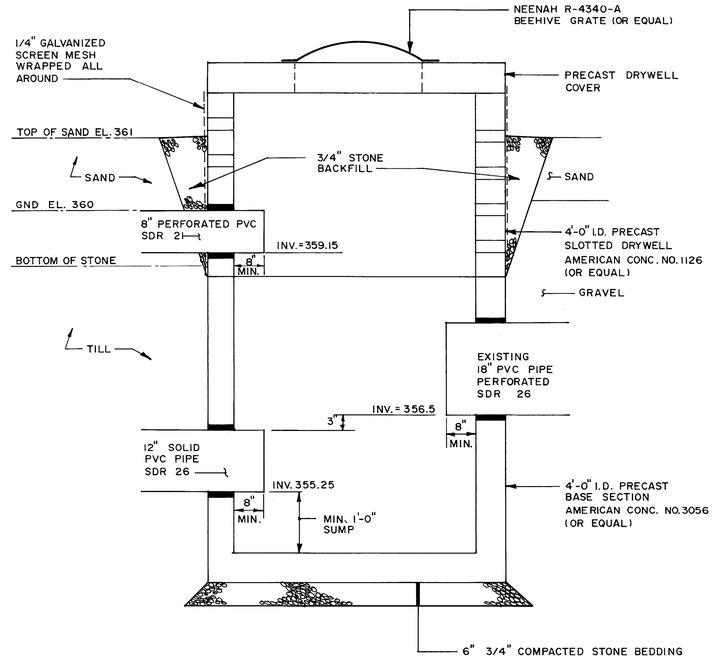


INTERMEDIATE SLOPE COVER SECTION 3
N.T.S. YB-23382

DRAINAGE MANHOLE 4
N.T.S. (EXISTING) YB-23382



CATCH BASIN # 32 A
N.T.S. YB-23381



CATCH BASIN # 31 B
N.T.S. YB-23381

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
C		8/95	ISSUED FOR CONSTRUCTION				
B		5/95	SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 95019

DRN	HAH
CKD	
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APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE N.T.S.	

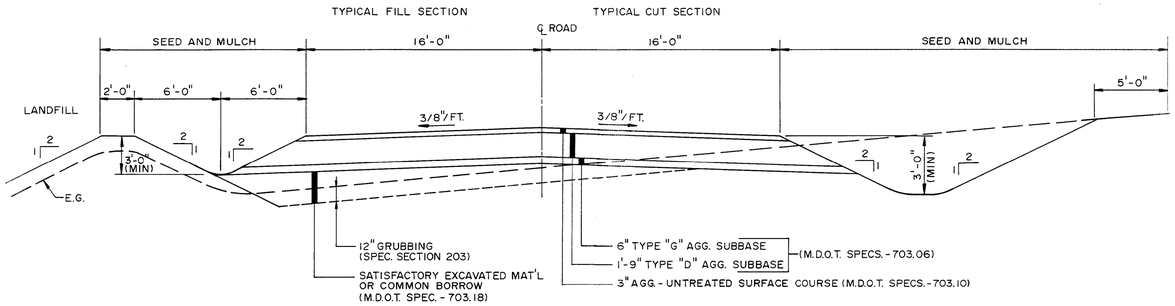
BOWATER
GREAT NORTHERN PAPER

EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS

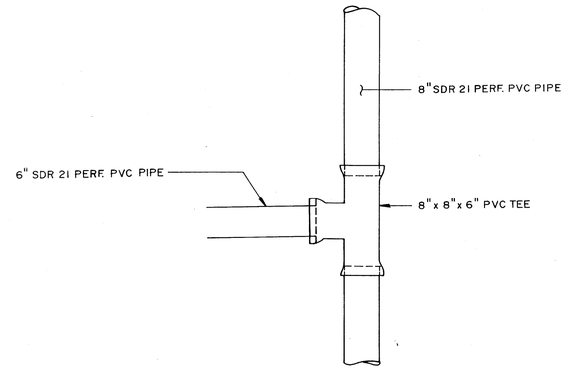
JOB NO. 94678
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23384
SHEET 1 OF 2

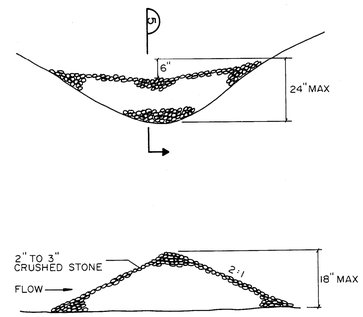
172303
SPILLER'S



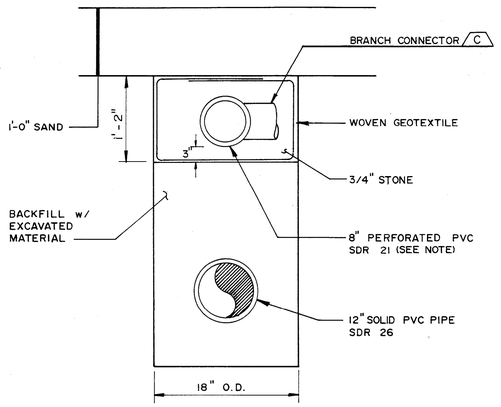
TYPICAL SECTION
LANDFILL ACCESS ROAD
NTS



BRANCH CONNECTOR C
N.T.S. YB-23381

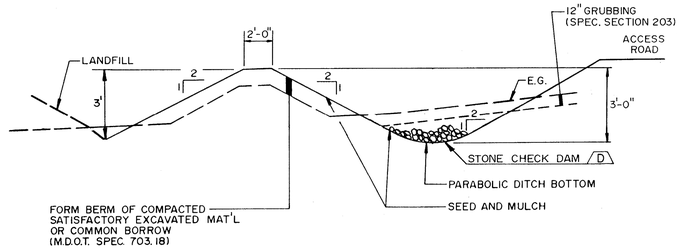


SECTION 5
STONE CHECK DAM D
NTS YB-23381

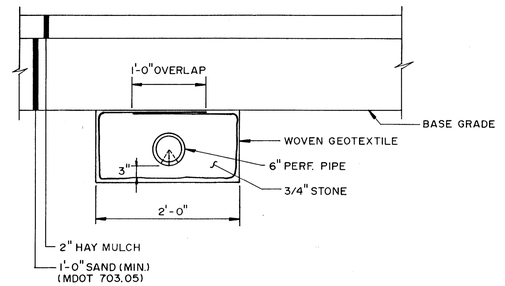


NOTE
PIPE PERFORATIONS SHALL BE 3/8" ø HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45°, MAXIMUM 60° FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

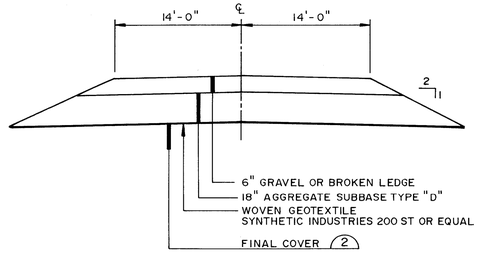
12-IN., 8-IN. LEACHATE COLLECTION PIPES 6
NTS YB-23381



DIKE AND TYPE 2 DRAINAGE DITCH 7
N.T.S. YB-23381



6-IN. LEACHATE COLLECTION PIPE 8
N.T.S. YB-23381



ACCESS ROAD 9
N.T.S. YB-23382

STATE OF MAINE — REGISTERED PROFESSIONAL ENGINEER

DRAWING NO.	REFERENCE DRAWING TITLE

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
C		8/95	ISSUED FOR CONSTRUCTION	MHL			
B		5/95	SUBMITTED FOR BID				

SEVEE & MAHER ENGINEERS, INC.
CONSULTING ENGINEERS
CUMBERLAND, MAINE

JOB NO. 95019

DRN	HAM
CKD	MHL
CKD	
CORR	
APPVD	
ISSUE CODE	
P - PRELIM	B - BIDS
M - MTL T.O.	C - CONST
SCALE N.T.S.	

BOWATER
GREAT NORTHERN PAPER

EAST OPERATION
DOLBY III LANDFILL
CELL 10 CONSTRUCTION
SECTIONS & DETAILS

JOB NO. 94678
ENG. REQ. NO.
FILE NO. 2-092-4703,7082

YB-23384
SHEET 2 OF 2

172202
SPILLER'S

GREAT NORTHERN PAPER, INC.
A SUBSIDIARY OF BOWATER INCORPORATED
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 11 CONSTRUCTION

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25219
2	SYMBOLS & ABBREVIATIONS	YB-25220
3	EXISTING CONDITIONS PLAN	YB-25221
4	CELL 11 - SITE DEVELOPMENT PLAN	YB-25222
5	FINAL GRADING PLAN	YB-25223
6	SECTIONS & DETAILS	YB-25224

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants

Cumberland Center, Maine

7/29/99

STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtl T.O.	C - Const.
SCALE	NONE

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 11 CONSTRUCTION
COVER SHEET

JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7082

YB-25219

99070.00

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C D E F G H I L M N O P Q

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL	○	●	MANHOLE
(N)		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)	◎	◉	CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER	⋈	⋈	WATER VALVE
25 x 63	25.56 x	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)		⊘	CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		1 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
⊡	■	SURVEY MONUMENT		TOP OF SLOPE 2:1	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER (SIZE & TYPE)
○IF	●IF	SURVEY IRON			EDGE OF TRAVELED WAY	FM	8" PVC	FORCE MAIN (SIZE & TYPE)
○	●	DRILL HOLE, PK, OR STAKE		P	CUT OR FILL LINE	W	8" D.I.	WATER MAIN (SIZE & TYPE)
		WOODS OR BRUSH LINE		CLL	CLEARING LIMIT LINE		12" RCP	STORM DRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			RAILROAD
		MAPPED WETLAND	TP-12	TP-12	TEST PIT AND NUMBER		S	SILTATION FENCE
						PD	6" PD	PERIMETER DRAIN (SIZE & TYPE)
						LT	6" LT	LEACHATE TRANSPORT (SIZE & TYPE)
						LC	6" LC	LEACHATE COLLECTION (SIZE & TYPE)
						LD	6" LD	LEAK DETECTION, SIZE & TYPE
								TERRACE DRAINAGE SWALE
							4" GS	GRAVITY SEWER
							6" SWP	SOLID WALL PIPE

A.C.C.M.P	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.I.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT			P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DUCTILE IRON	I.D.	INSIDE DIAMETER	PERF	PERFORATED
APPD	APPROVED	DIA OR ø	DIAMETER	IN OR "	INCHES	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INV	INVERT	PVC	POLYVINYL CHLORIDE
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASB	ASBESTOS	DN	DOWN				
ASPH	ASPHALT	DR	DRAIN	LB	POUND	QTY	QUANTITY
AUTO	AUTOMATIC	DWG	DRAWING	LC	LEACHATE COLLECTION		
AUX	AUXILIARY			LD	LEAK DETECTION	R.O.W.	RIGHT OF WAY
AVE	AVENUE	EA	EACH	LIN FT.	LINEAR FEET	RAD	RADIUS
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LOC	LOCATION	REQD	REQUIRED
		ELEC	ELECTRIC	LT	LEACHATE TRANSPORT	RT	RIGHT
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	EL	ELEVATION			RTE	ROUTE
B.M.	BENCH MARK	ELB	ELBOW	M.H.	MANHOLE		
BIT	BITUMINOUS	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT	S	SLOPE
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	SCH	SCHEDULE
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	SF	SQUARE FEET
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	SHT	SHEET
				MIN	MINIMUM	STA	STATION
C.B.	CATCH BASIN	F.G.	FINISH GRADE	MISC	MISCELLANEOUS	SY	SQUARE YARD
CEN	CENTER	FBRGL	FIBERGLASS	MON	MONUMENT		
CEM. LIN.	CEMENT LINED	FDN	FOUNDATION			TAN	TANGENT
C.M.P.	CORRUGATED METAL PIPE	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT	TDH	TOTAL DYNAMIC HEAD
C.O.	CLEAN OUT	FLG	FLANGE	N.T.S.	NOT TO SCALE	TEMP	TEMPORARY
CF	CUBIC FEET	FLR	FLOOR	N/F	NOW OR FORMERLY	TYP	TYPICAL
CFS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND	NO. OR #	NUMBER		
CI	CAST IRON	FT OR '	FEET			V	VOLTS
CL	CLASS	FTG	FOOTING	O.C.	ON CENTER		
CONC	CONCRETE			O.D.	OUTSIDE DIAMETER	W/	WITH
CONST	CONSTRUCTION	GA	GAUGE			W/O	WITHOUT
CONTR	CONTRACTOR	GAL	GALLON				
CTR	CENTER	GALV	GALVANIZED			YD	YARD
CY	CUBIC YARD	GPD	GALLONS PER DAY				
		GPM	GALLONS PER MINUTE				

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO. — ACCESS ROAD 3 — C-100 — DRAWING WHERE SECTION APPEARS

DETAIL TITLE & LETTER — MANHOLE A — C-100 — DRAWING WHERE DETAIL APPEARS

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET – MDOT SPECIFICATION 703.05

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE – SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 11 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:

TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		7/30/99	SUBMITTED TO CLIENT				

STATE OF MAINE — JOHN E. — REGISTERED PROFESSIONAL ENGINEER

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P – Prelim	B – Bids
M – Mtl T.O.	C – Const.
SCALE AS SHOWN	

BOWATER
Great Northern Paper

CENTRAL ENGINEERING

DOLBY III LANDFILL
CELL 11 CONSTRUCTION
SYMBOLS & ABBREVIATIONS

JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7082

YB-25220

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GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.
2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.
3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.

STATE OF MAINE — REGISTERED PROFESSIONAL ENGINEER — 8/3/99

50 0 100 200

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		7/30/99	SUBMITTED TO CLIENT				

JOB NO. 99070

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P – Prelim	B – Bids
M – Mtl T.O.	C – Const.
SCALE	AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 11 CONSTRUCTION
EXISTING CONDITIONS PLAN

JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7082

YB-25221

C D E F G H I L M N O P Q

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MW-303A
MW-303B
MW-106A
MW-106B
MW-203
N 665000
E 475000
N 664000
CB#33
(EXIST.) 12" INV IN =
8" INV IN = 379.00
(EXIST.) 12" INV OUT
8" INV OUT = 379.00
B
YB-25224
LIMIT OF WORK
TYPE 2 DITCH 1 YB-25224
6" PERF. PVC COLLECTION LATERAL 2 YB-25224
(TYP) MIN. S=.005
STONE CHECK DAM C YB-25224
CB#16
N 665062.22
E 474898.04
CONTAINMENT DIKE TO BE BUILT PRIOR TO LANDFILLING IN CELL 11
8" PERF. PVC COLLECTION LATERAL 4 YB-25224
EXISTING 12" PVC TRANSPORT PIPE
6"
LIMIT OF SAND DRAINAGE BLANKET (EL. 400)
CB#14
CELL 11
TEMPORARY DRAINAGE DITCH
EXIST. CB #32
12" INV IN 358.75
8" INV IN 363.15
12" INV OUT 360.00
8" INV OUT 363.15
LANDFILL ACCESS ROAD 5 YB-25224
BRANCH CONNECTOR A YB-25224
N 664042.32
E 474678.37
CB#12
END CAP (TYP)
EXISTING SPOIL STOCKPILE
CELL 10
(EXISTING)
CB#11
358.9
GROUND OBSCURED
CELL 9
(EXISTING)

CELL 11 OPERATION NOTES

REMOVE 8 INCH CAP FROM CB #32.

REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.

BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.

STRIP EXISTING LANDFILL COVER ON CELL 3B.

REMOVE EXISTING CATCH BASIN COVER ON CELL 3B (CB #14) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.

25 0 50 100

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		12/27/99	RECORD DRAWING				
		7/30/99	SUBMITTED TO CLIENT				

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 99070

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	

ISSUE CODE: P – Prelim; B – Bids; M – Mtl T.O.; C – Const.

SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL CELL 11 CONSTRUCTION SITE DEVELOPMENT PLAN

JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7082

YB-25222

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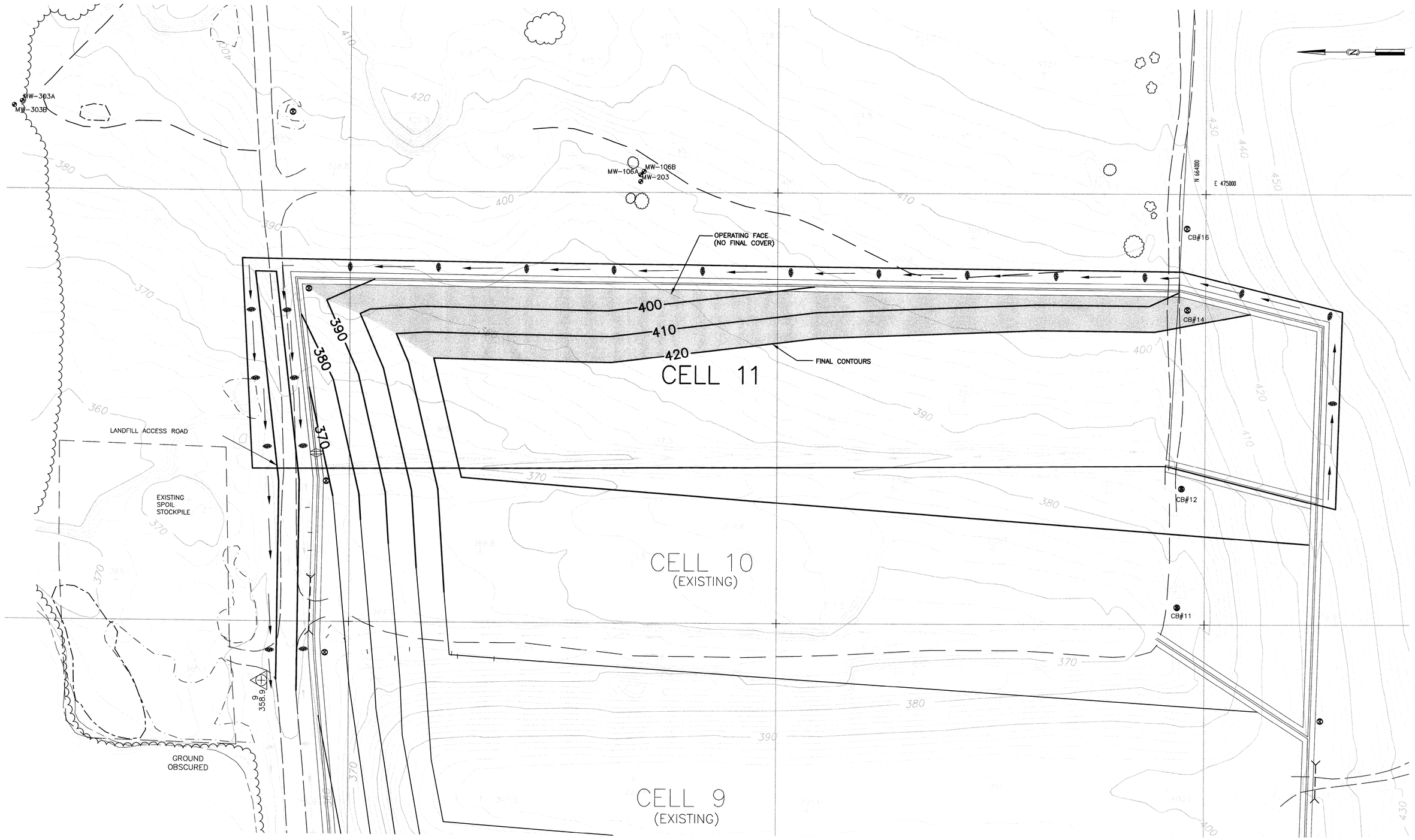

CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		7/30/99	SUBMITTED TO CLIENT				

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	

ISSUE CODE: P – Prelim | B – Bids | M – Mtl T.O. | C – Const.

SCALE AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION

DOLBY III LANDFILL
CELL 11 CONSTRUCTION
FINAL GRADING PLAN

JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7087

YB-25223

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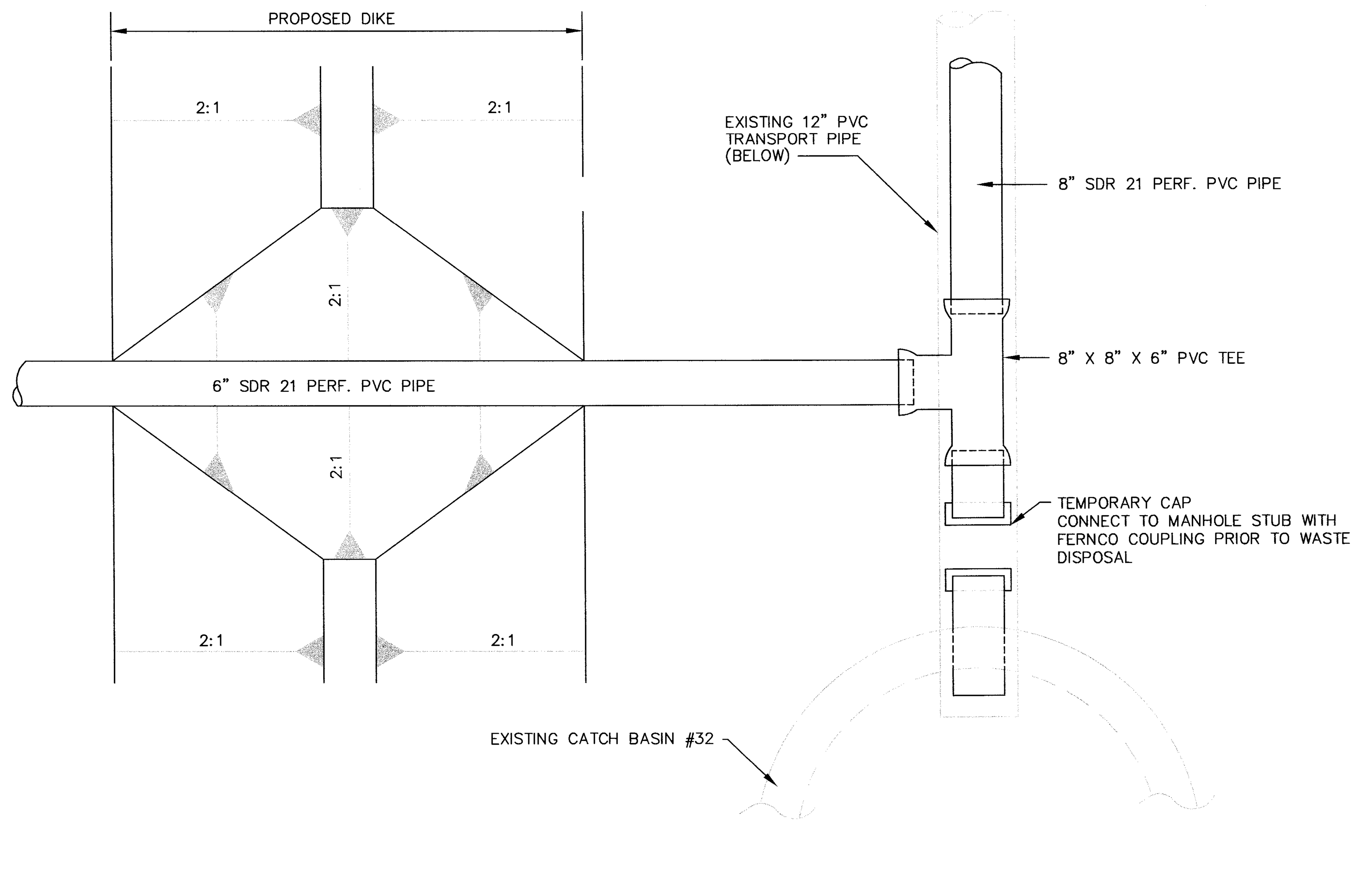
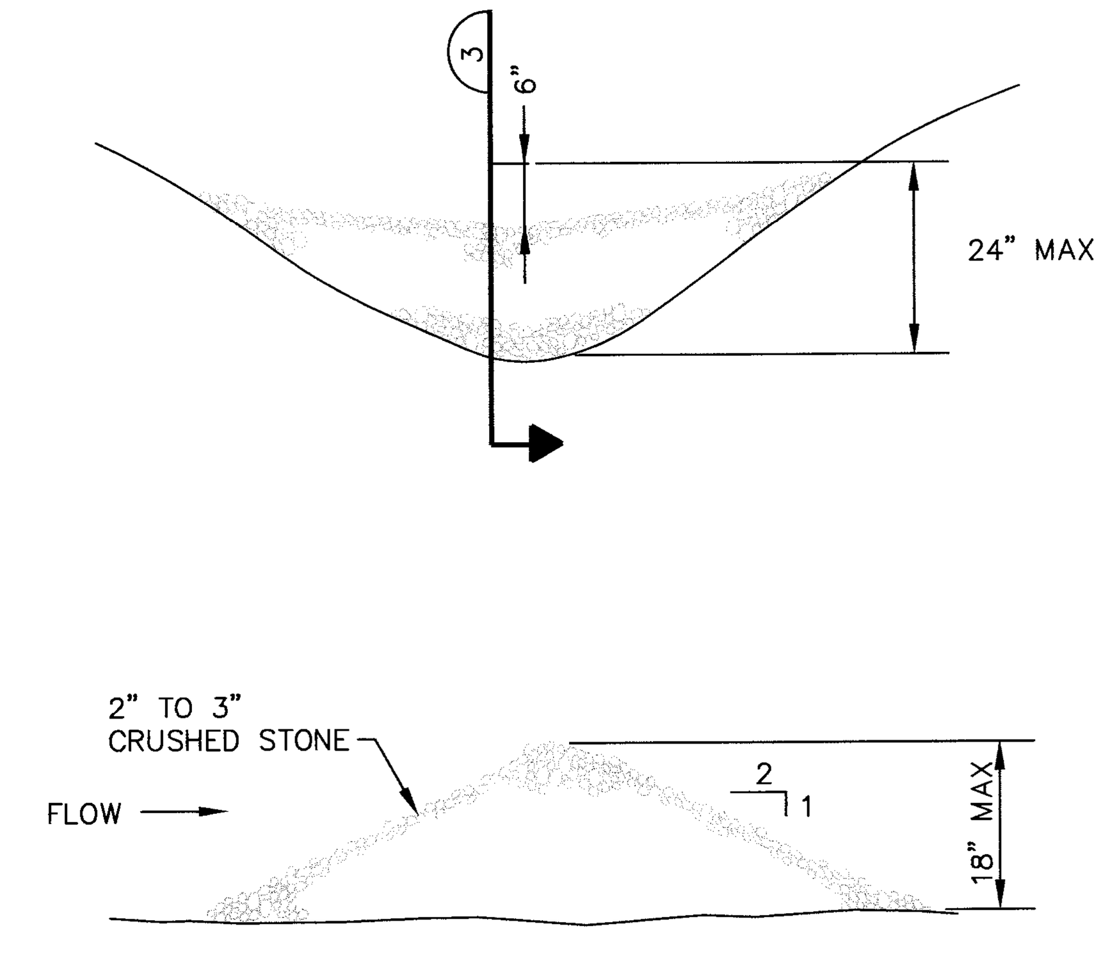
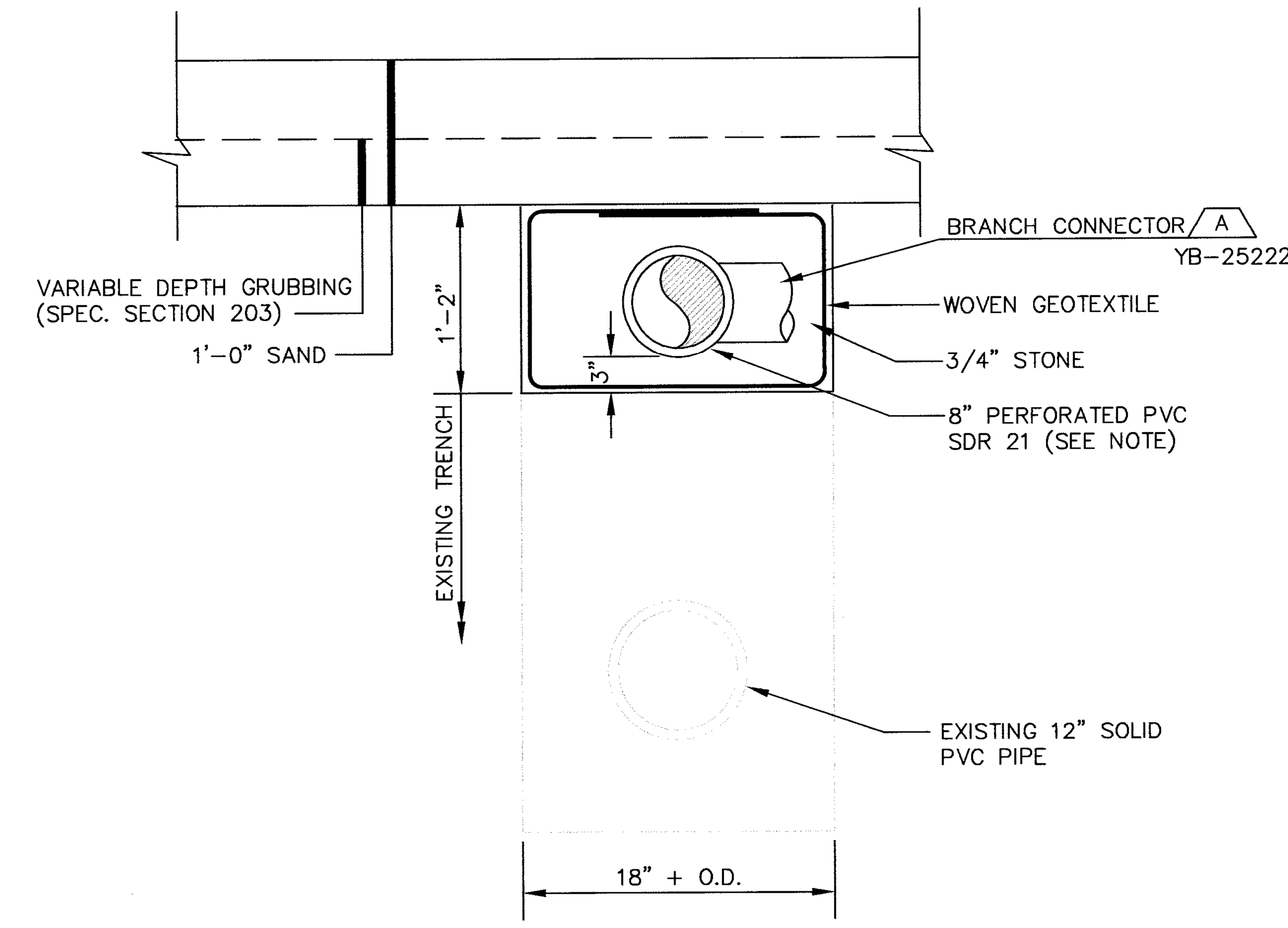


BRANCH CONNECTOR (A)
N.T.S. YB-25222



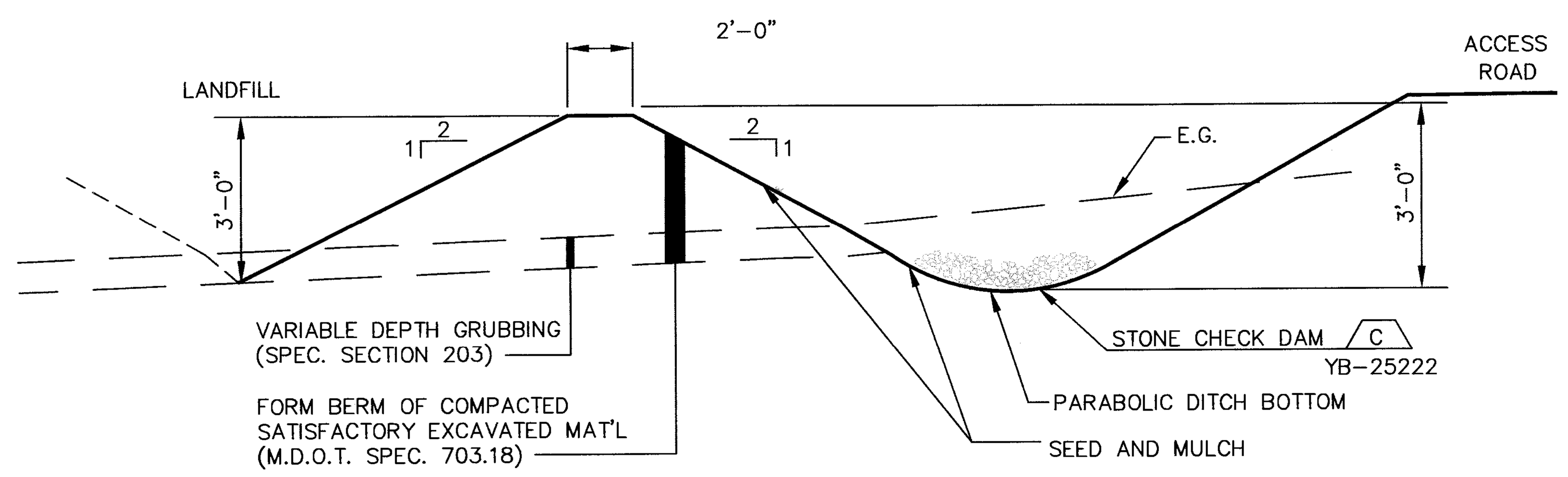
SECTION (3)

STONE CHECK DAM (C)
N.T.S. YB-25222

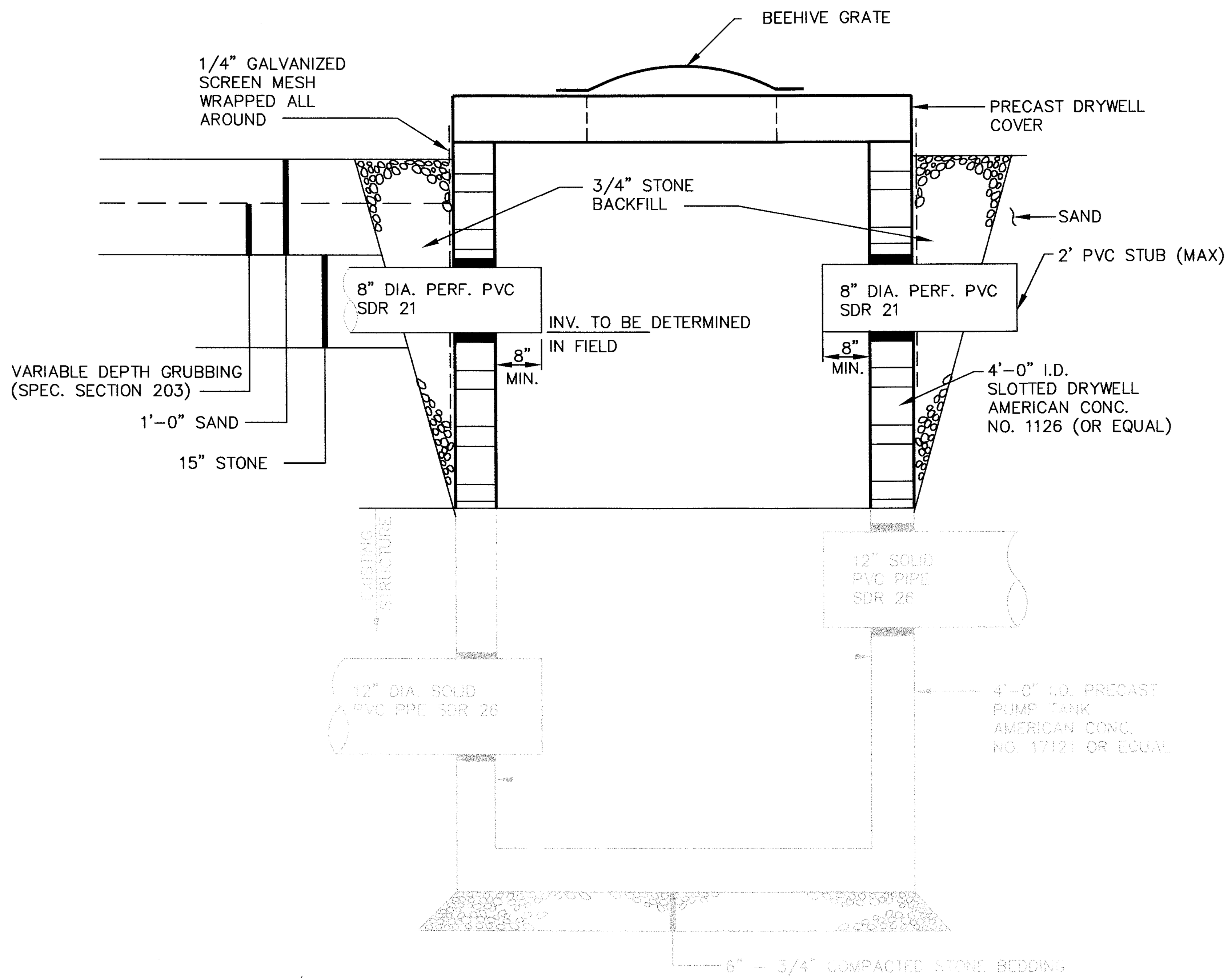


NOTE:
PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHLL BE MINIMUM 45°, MAXIMUM 60° FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

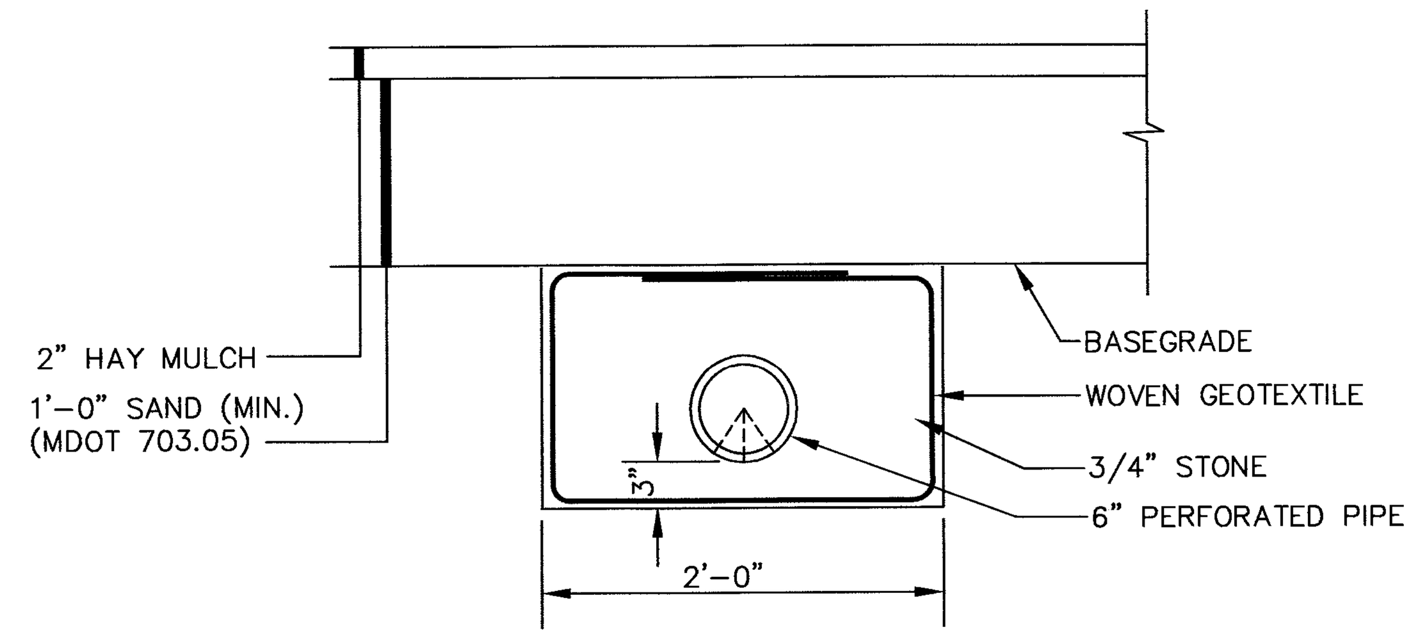
8" LEACHATE COLLECTION PIPES (4)
N.T.S. YB-25222



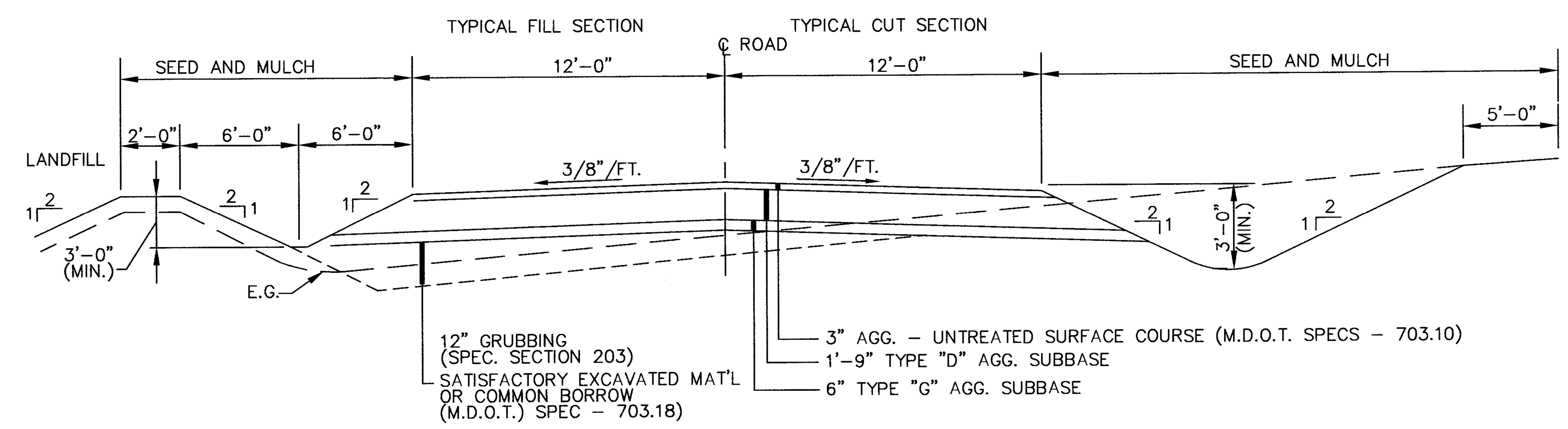
DIKE AND TYPE 2 DRAINAGE DITCH (1)
N.T.S. YB-25222



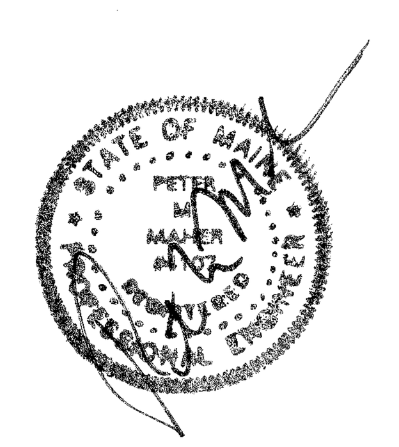
CATCH BASIN # 33 (B)
N.T.S. YB-25222



6" LEACHATE COLLECTION PIPE (2)
N.T.S. YB-25222



LANDFILL ACCESS ROAD (4)
N.T.S. YB-25222



CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB No.
		12/27/99	RECORD DRAWING				
		7/30/99	SUBMITTED TO CLIENT				

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 99070

DRN	MSB
CHK	GHC
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim	B - Bids
M - Mtl T.O.	C - Const.
SCALE	AS SHOWN

BOWATER
Great Northern Paper

EAST OPERATION
DOLBY III LANDFILL
CELL 11 CONSTRUCTION
SECTIONS & DETAILS
JOB NO. 94744
ENG. REQ. NO.
FILE NO. 2-092-7082
YB-25224

C D E F G H I L M N O P Q

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GREAT NORTHERN PAPER, INC.
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE

SHT. NO.	TITLE	DWG. NO.
1	COVER SHEET	YB-25539
2	SYMBOLS & ABBREVIATIONS	YB-25540
3	EXISTING CONDITIONS PLAN	YB-25541
4	CELL 12 – SITE DEVELOPMENT PLAN	YB-25542
5	OPERATIONAL GRADING PLAN	YB-25543
6	SECTIONS & DETAILS (SHEET 1 OF 2)	YB-25544
7	SECTIONS & DETAILS (SHEET 2 OF 2)	YB-25544

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants

Cumberland Center, Maine

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	–	
5	–	
4	–	
3	–	
2	–	
1	–	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	– –						
	– –						
	– –						
	– –						
	6/8/00	C	ISSUED FOR CONSTRUCTION				
	5/31/00	P	SUBMITTED TO CLIENT				

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	– –						
	– –						
	– –						
	– –						
	– –						
	– –						

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		– –

ISSUE CODE

P - Preliminary

B - Bids

C - Construction

ASB - As Built

SCALE NONE

Great Northern PAPER, INC.

CAD FILE: GNPCOV12.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
COVER SHEET

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO. _____

YB-25539

G:\GNP\Dol\ACAD\CELL12\Gnpcov12.dwg Thu Jun 08 09:06:36 2000

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL	○	●	MANHOLE
N		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)	◎	◉	CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER	⋈	⧓	WATER VALVE
25 x 63	25.56 x	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
A S B		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)		⊘	CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		1' 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
⊡	■	SURVEY MONUMENT		TOP OF SLOPE 2:1	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER (SIZE & TYPE)
○IF	●IF	SURVEY IRON			EDGE OF TRAVELED WAY	FM	8" PVC	FORCE MAIN (SIZE & TYPE)
○	●	DRILL HOLE, PK, OR STAKE		FL	CUT OR FILL LINE	W	8" D.I.	WATER MAIN (SIZE & TYPE)
		WOODS OR BRUSH LINE		CLL	CLEARING LIMIT LINE		12" RCP	STORM DRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			RAILROAD
		MAPPED WETLAND	TP-12	TP-12	TEST PIT AND NUMBER		S	SILTATION FENCE
						PD	6" PD	PERIMETER DRAIN (SIZE & TYPE)
						LT	6" LT	LEACHATE TRANSPORT (SIZE & TYPE)
						LC	6" LC	LEACHATE COLLECTION (SIZE & TYPE)
						LD	6" LD	LEAK DETECTION, SIZE & TYPE
								TERRACE DRAINAGE SWALE
							4" GS	GRAVITY SEWER
							6" SWP	SOLID WALL PIPE

A.C.C.M.P	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	P.C.	POINT ON CURVE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER	PD	PERIMETER DRAIN
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT	P.I.	POINT OF INTERSECTION
AGG	AGGREGATE	DEPT	DEPARTMENT			P.T.	POINT OF TANGENT
ALUM	ALUMINUM	DI	DUCTILE IRON	I.D.	INSIDE DIAMETER	PERF	PERFORATED
APPD	APPROVED	DIA OR ø	DIAMETER	IN OR "	INCHES	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	DIM	DIMENSION	INV	INVERT	PVC	POLYVINYL CHLORIDE
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	INV. EL	INVERT ELEVATION	PVMT	PAVEMENT
ASB	ASBESTOS	DN	DOWN				
ASPH	ASPHALT	DR	DRAIN	LB	POUND	QTY	QUANTITY
AUTO	AUTOMATIC	DWG	DRAWING	LC	LEACHATE COLLECTION		
AUX	AUXILIARY			LD	LEAK DETECTION	R.O.W.	RIGHT OF WAY
AVE	AVENUE	EA	EACH	LIN FT.	LINEAR FEET	RAD	RADIUS
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LOC	LOCATION	REQD	REQUIRED
		ELEC	ELECTRIC	LT	LEACHATE TRANSPORT	RT	RIGHT
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	EL	ELEVATION			RTE	ROUTE
B.M.	BENCH MARK	ELB	ELBOW	M.H.	MANHOLE		
BIT	BITUMINOUS	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT	S	SLOPE
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	SCH	SCHEDULE
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	SF	SQUARE FEET
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	SHT	SHEET
				MIN	MINIMUM	STA	STATION
C.B.	CATCH BASIN	F.G.	FINISH GRADE	MISC	MISCELLANEOUS	SY	SQUARE YARD
CEN	CENTER	FBRGL	FIBERGLASS	MON	MONUMENT		
CEM. LIN.	CEMENT LINED	FDN	FOUNDATION			TAN	TANGENT
C.M.P.	CORRUGATED METAL PIPE	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT	TDH	TOTAL DYNAMIC HEAD
C.O.	CLEAN OUT	FLG	FLANGE	N.T.S.	NOT TO SCALE	TEMP	TEMPORARY
CF	CUBIC FEET	FLR	FLOOR	N/F	NOW OR FORMERLY	TYP	TYPICAL
CFS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND	NO. OR #	NUMBER		
CI	CAST IRON	FT OR '	FEET			V	VOLTS
CL	CLASS	FTG	FOOTING	O.C.	ON CENTER		
CONC	CONCRETE			O.D.	OUTSIDE DIAMETER	W/	WITH
CONST	CONSTRUCTION	GA	GAUGE			W/O	WITHOUT
CONTR	CONTRACTOR	GAL	GALLON				
CTR	CENTER	GALV	GALVANIZED			YD	YARD
CY	CUBIC YARD	GPD	GALLONS PER DAY				
		GPM	GALLONS PER MINUTE				

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO. — ACCESS ROAD 3 — C-100 — DRAWING WHERE SECTION APPEARS

DETAIL TITLE & LETTER — MANHOLE A — C-100 — DRAWING WHERE DETAIL APPEARS

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4–INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

BASAL BLANKET – MDOT SPECIFICATION 703.05

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" AND 8" PVC PIPE – SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 11 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:

TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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6/8/00	C	ISSUED FOR CONSTRUCTION					
5/31/00	P	SUBMITTED TO CLIENT					

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		– –

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

Great Northern PAPER, INC.

CAD FILE: SYMSHT.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25540

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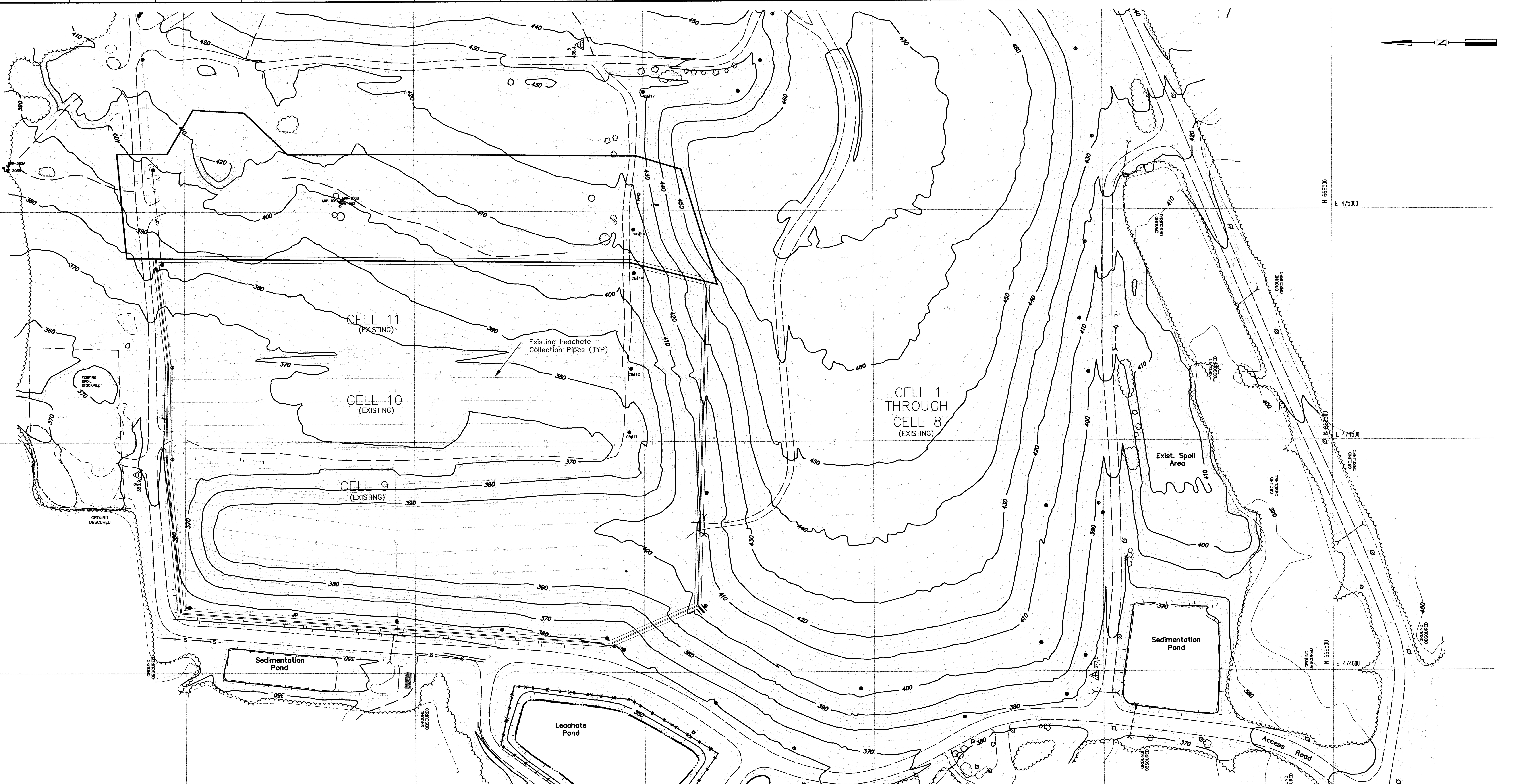

GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.

2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.

3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.

5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 10. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE		REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REVISION	BY	CKD	APPVD	JOB
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1	-			5/31/00	P	SUBMITTED TO CLIENT						- -					

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 00044

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

Great Northern PAPER, INC.

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
EXISTING CONDITIONS PLAN

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25541

STATE OF MAINE · PETER MA... · REGISTERED PROFESSIONAL ENGINEER

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REGRADE

LIMIT OF WORK

TYPE 2 DITCH (1) YB-25544

STONE CHECK DAM (C) 100' O.C. (TYP) YB-25544

CONTAINMENT DIKE TO BE BUILT PRIOR TO LANDFILLING IN CELL 12

CATCH BASIN #34 (B) YB-25544
(EXIST) 12" INV IN = 391.2
8" INV IN = 397.0
(EXIST) 12" INV OUT = 391.1
8" INV OUT = 397.0

MW-303A
MW-303B

8" LEACHATE TRANSPORT PIPE (4) YB-25544

EXISTING 12" PVC TRANSPORT PIPE

ABANDON EXISTING MONITORING WELLS (BY OTHERS)

MW-106A
MW-106B
MW-203

LEACHATE COLLECTION PIPE (2) YB-25544

LIMIT OF SAND BLANKET (EL: 400)

LANDFILL ACCESS ROAD (5) YB-25544

TEMPORARY DRAINAGE DITCH

END CAP (TYP)

BRANCH CONNECTOR (A) YB-25544

EXISTING CATCH BASIN #33
(EXIST) 12" INV IN = 373.25
8" INV IN = 379.00
(EXIST) 12" INV OUT = 373.15
8" INV OUT = 379.00

CB#15

CB#14

CB#12

CB#11

N 559000

E 475000

CELL 11
(EXISTING)

CELL 10

EXISTING
SPOIL
STOCKPILE

388.9

GROUND

CELL 12 OPERATION NOTES (PRIOR TO FILLING)

REMOVE 8 INCH CAP FROM CB #33.
REMOVE TEMPORARY 8 INCH OUTLET PIPE AND CAP PIPE TEE.
BACKFILL TEMPORARY DRAINAGE DITCH ON NORTH SIDE WITH SUITABLE MATERIAL.
STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 4.
REMOVE EXISTING CATCH BASIN COVER ON CELL 4 (CB #16) AND REPLACE WITH SOLID H-20 LOADING MANHOLE COVER.

25 0 50 100

STATE OF MAINE
PETER M. ANNIS
REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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	10/16/01	ASB	RECORD DRAWING				
	6/8/00	C	ISSUED FOR CONSTRUCTION	GHC			
	5/31/00	P	SUBMITTED TO CLIENT				

CODE	DATE	REVISION	BY	CKD	APPVD	JOB
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JOB NO. 00044

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		

ISSUE CODE
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ASB - As Built
SCALE NONE

Great Northern PAPER, INC.

CAD FILE: SITEDEV.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
CELL 12 - SITE DEVELOPMENT PLAN

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25542

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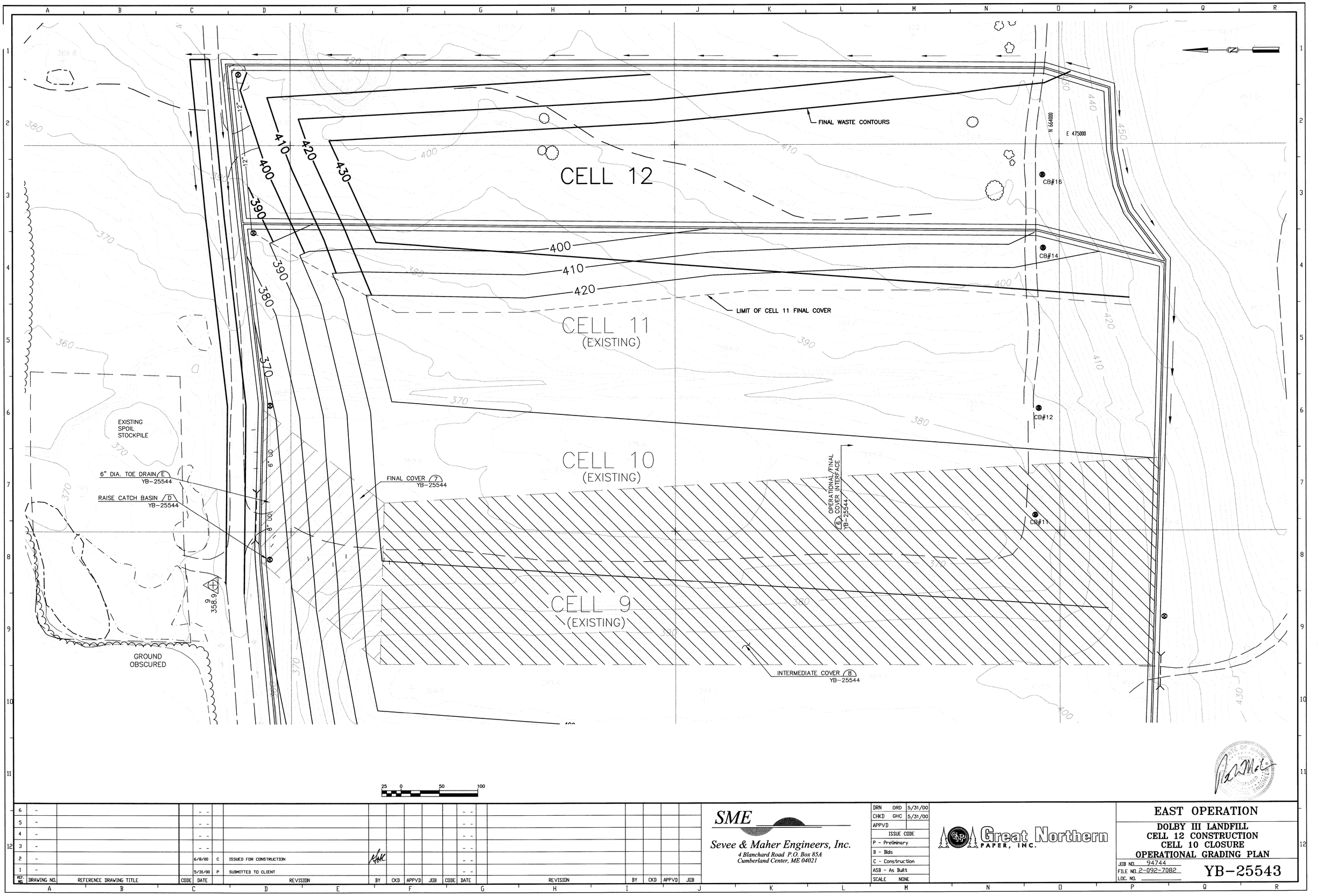

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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P	5/31/00		SUBMITTED TO CLIENT				

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4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	DRD	5/31/00
CHKD	GHC	5/31/00
APPVD		

ISSUE CODE
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SCALE NONE

Great Northern PAPER, INC.

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
OPERATIONAL GRADING PLAN

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25543

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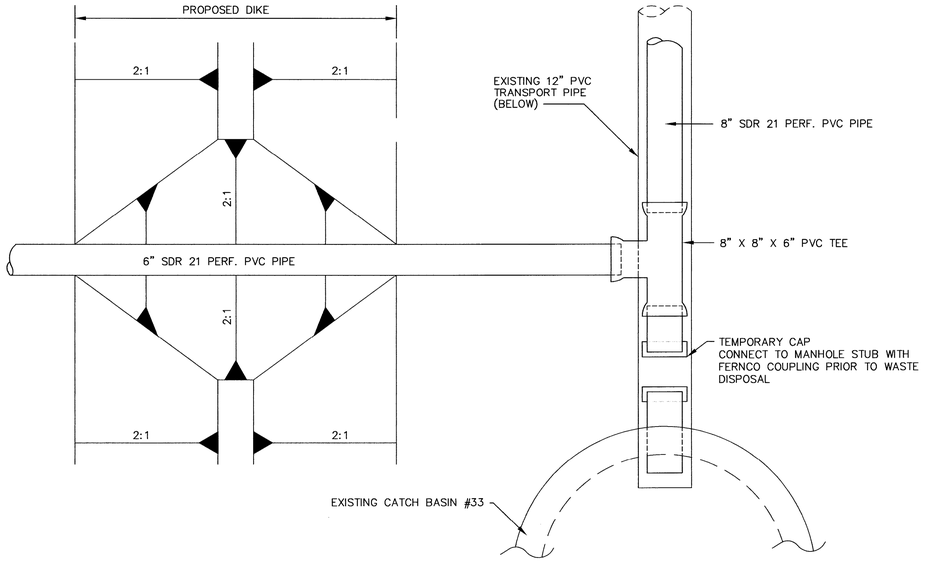
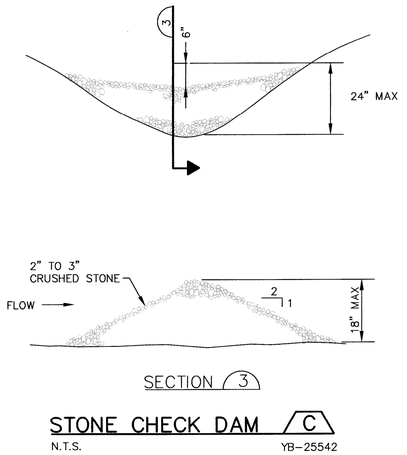


BRANCH CONNECTOR A

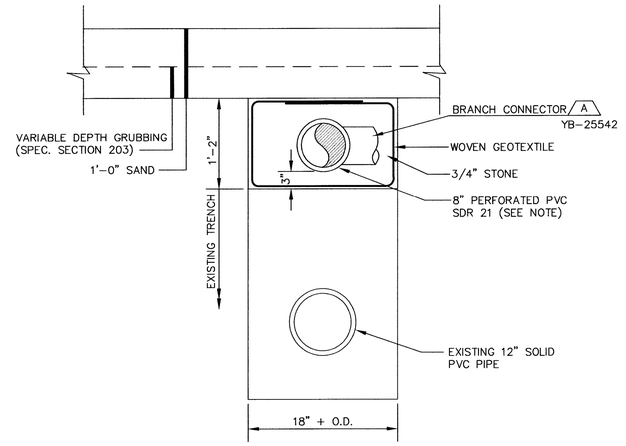
N.T.S. YB-25542



SECTION 3

STONE CHECK DAM C

N.T.S. YB-25542

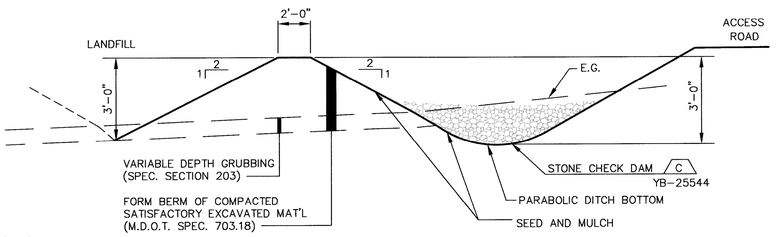


NOTE:

PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45°, MAXIMUM 60° FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

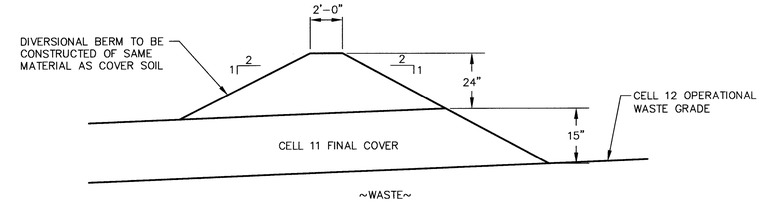
8" LEACHATE TRANSPORT PIPES 4

N.T.S. YB-25542



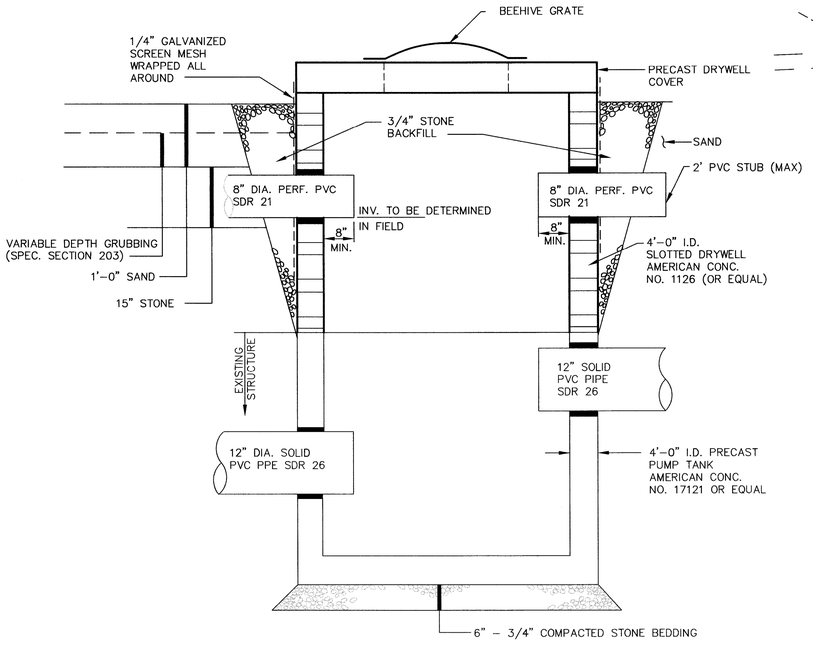
DIKE AND TYPE 2 DRAINAGE DITCH 1

N.T.S. YB-25542



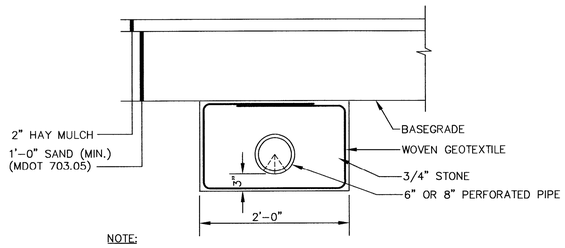
OPERATIONAL/FINAL COVER INTERFACE 6

N.T.S. YB-25543



CATCH BASIN # 34 B

N.T.S. YB-25542

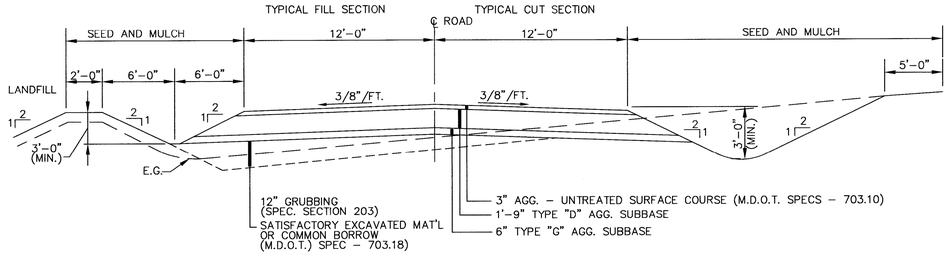


NOTE:

PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45°, MAXIMUM 60° FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

LEACHATE COLLECTION PIPE 2

N.T.S. YB-25542



LANDFILL ACCESS ROAD 5

N.T.S. YB-25542

STATE OF MAINE — PETER A. MAHER — REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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2	–			6/8/00	C	ISSUED FOR CONSTRUCTION						– –						
1	–			5/31/00	P	SUBMITTED TO CLIENT						– –						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MBISK	5/31/00
CHKD	GHC	5/31/00
APPVD		– –

ISSUE CODE
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ASB – As Built
SCALE NONE

Great Northern PAPER, INC.

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SECTIONS & DETAILS

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25544
SHEET 1 OF 2

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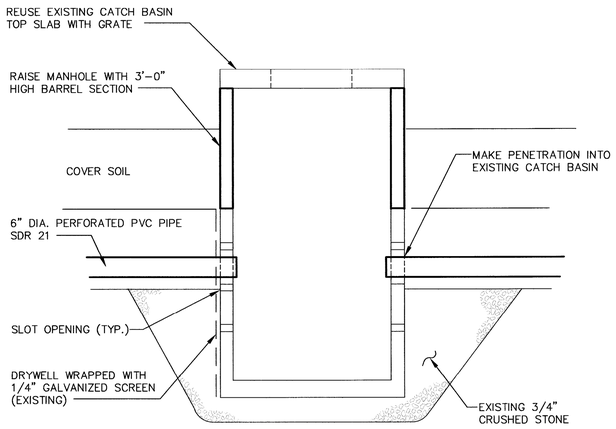
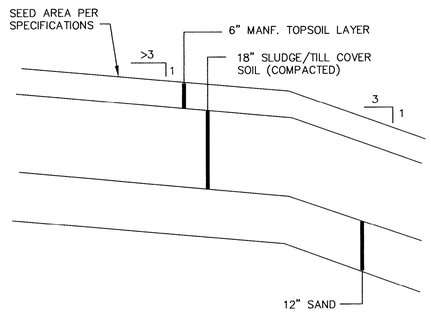
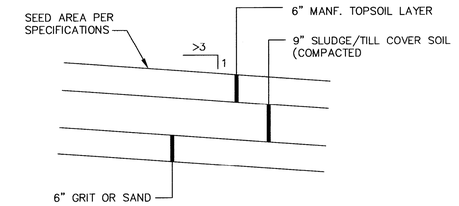


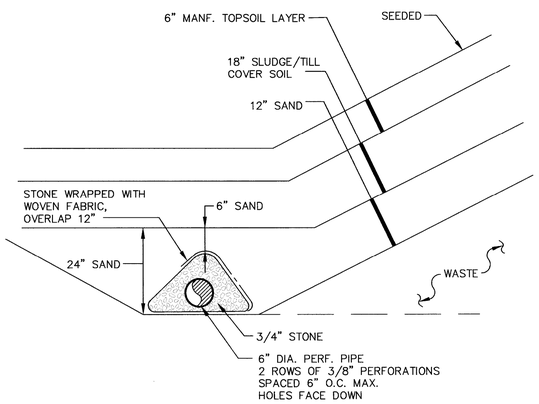
RAISE CATCH BASIN D
N.T.S. (EXISTING) YB-25543



FINAL COVER 7
N.T.S. YB-25543



INTERMEDIATE COVER 8
N.T.S. YB-25543



TOE DRAIN E
N.T.S. YB-25543

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1	–			5/31/00	P	SUBMITTED TO CLIENT				

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SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MBISK	5/31/00
CHKD	GHC	5/31/00
APPVD		– –

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SCALE NONE

Great Northern PAPER, INC.

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 12 CONSTRUCTION
CELL 10 CLOSURE
SECTIONS & DETAILS

JOB NO. 94744
FILE NO. 2-092-7082
LOC. NO.

YB-25544
SHEET 2 OF 2

G:\GAP\Dbl\ACAD\CELL12\DETAILS.dwg Thu Jun 08 10:14:33 2000

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants

Cumberland Center, Maine

STATE OF MAINE
PETER M. MAHER
NO. 4107
REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	–	
5	–	
4	–	
3	–	
2	–	
1	–	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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ASB	5/03		RECORD DRAWING				
C	4/29/02		ISSUED FOR CONSTRUCTION	GHC			
P	– –		SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		– –

ISSUE CODE
P – Preliminary
B – Bids
C – Construction
ASB – As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: GNPCOV13.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
COVER SHEET

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26077

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SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL	○	●	MANHOLE
		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)	◎	⊙	CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER	⋈	⋈	WATER VALVE
25 x 63	25.56	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION P.T.			FENCE LINE (WIRE)		⊘	CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		1:2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
⊟	■	SURVEY MONUMENT		TOP OF SLOPE	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER (SIZE & TYPE)
○IF	●IF	SURVEY IRON			EDGE OF TRAVELED WAY	FM	8" PVC	FORCE MAIN (SIZE & TYPE)
○	●	DRILL HOLE, PK, OR STAKE		F	CUT OR FILL LINE	W	8" D.I.	WATER MAIN (SIZE & TYPE)
		WOODS OR BRUSH LINE		CLL	CLEARING LIMIT LINE		12" RCP	STORM DRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN (SIZE & TYPE)
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER			RAILROAD
		MAPPED WETLAND	TP-12	TP-12	TEST PIT AND NUMBER		S	SILTATION FENCE
						PD	6" PD	PERIMETER DRAIN (SIZE & TYPE)
						LT	6" LT	LEACHATE TRANSPORT (SIZE & TYPE)
						LC	6" LC	LEACHATE COLLECTION (SIZE & TYPE)
						LD	6" LD	LEAK DETECTION, SIZE & TYPE
								TERRACE DRAINAGE SWALE
							4" GS	GRAVITY SEWER
							6" SWP	SOLID WALL PIPE

A.C.C.M.P	ASPHALT COATED C.M.P.	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE
A.C.P.	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HP	HORSEPOWER
AC	ACRE	DEG OR °	DIAMETER	HYD	HYDRANT
AGG	AGGREGATE	DEPT	DEPARTMENT		
ALUM	ALUMINUM	DI	DUCTILE IRON	I.D.	INSIDE DIAMETER
APPD	APPROVED	DIA OR ø	DIAMETER	IN OR "	INCHES
APPROX	APPROXIMATE	DIM	DIMENSION	INV	INVERT
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	INV. EL	INVERT ELEVATION
ASB	ASBESTOS	DN	DOWN		
ASPH	ASPHALT	DR	DRAIN	LB	POUND
AUTO	AUTOMATIC	DWG	DRAWING	LC	LEACHATE COLLECTION
AUX	AUXILIARY			LD	LEAK DETECTION
AVE	AVENUE	EA	EACH	LIN FT.	LINEAR FEET
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LOC	LOCATION
		ELEC	ELECTRIC	LT	LEACHATE TRANSPORT
B.C.C.M.P.	BITUMINOUS COATED C.M.P.	EL	ELEVATION		
B.M.	BENCH MARK	ELB	ELBOW	M.H.	MANHOLE
BIT.	BITUMINOUS	EQUIP	EQUIPMENT	M.J.	MECHANICAL JOINT
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE
				MIN	MINIMUM
C.B.	CATCH BASIN	F.G.	FINISH GRADE	MISC	MISCELLANEOUS
CEN	CENTER	FBRGL	FIBERGLASS	MON	MONUMENT
CEM. LIN.	CEMENT LINED	FDN	FOUNDATION		
C.M.P.	CORRUGATED METAL PIPE	FLEX	FLEXIBLE	N.I.T.C.	NOT IN THIS CONTRACT
C.O.	CLEAN OUT	FLG	FLANGE	N.T.S.	NOT TO SCALE
CF	CUBIC FEET	FLR	FLOOR	N/F	NOW OR FORMERLY
CFS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND	NO. OR #	NUMBER
CI	CAST IRON	FT OR '	FEET		
CL	CLASS	FTG	FOOTING	O.C.	ON CENTER
CONC	CONCRETE			O.D.	OUTSIDE DIAMETER
CONST	CONSTRUCTION	GA	GAUGE		
CONTR	CONTRACTOR	GAL	GALLON		
CTR	CENTER	GALV	GALVANIZED		
CY	CUBIC YARD	GPD	GALLONS PER DAY		
		GPM	GALLONS PER MINUTE		

P.C.	POINT ON CURVE	S	SLOPE		
PD	PERIMETER DRAIN	SCH	SCHEDULE		
P.I.	POINT OF INTERSECTION	SF	SQUARE FEET		
P.T.	POINT OF TANGENT	SHT	SHEET		
PERF	PERFORATED	STA	STATION		
PSI	POUNDS PER SQUARE INCH	SY	SQUARE YARD		
PVC	POLYVINYL CHLORIDE				
PVMT	PAVEMENT	TAN	TANGENT		
		TDH	TOTAL DYNAMIC HEAD		
QTY	QUANTITY	TEMP	TEMPORARY		
		TYP	TYPICAL		
R.O.W.	RIGHT OF WAY				
RAD	RADIUS	V	VOLTS		
REQD	REQUIRED				
RT	RIGHT	W/	WITH		
RTE	ROUTE	W/O	WITHOUT		
		YD	YARD		

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO. — ACCESS ROAD 3 — C-100 — DRAWING WHERE SECTION APPEARS

DETAIL TITLE & LETTER — MANHOLE A — C-100 — DRAWING WHERE DETAIL APPEARS

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4–INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

SAND BLANKET – MDOT SPECIFICATION 703.05

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE – SDR 35

6" PVC PIPE – SDR 21

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE CELL 13 ROADWAY AND CELL AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:

TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

STATE OF MAINE — PETER M. MAHER NO. 7107 — REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	–	
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CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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	5/03	ASB	RECORD DRAWING				– –
	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC			– –
		P	SUBMITTED TO CLIENT	GHC			– –

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine
JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD	– –	

ISSUE CODE
P – Preliminary
B – Bids
C – Construction
ASB – As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: SYMSHT.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26078

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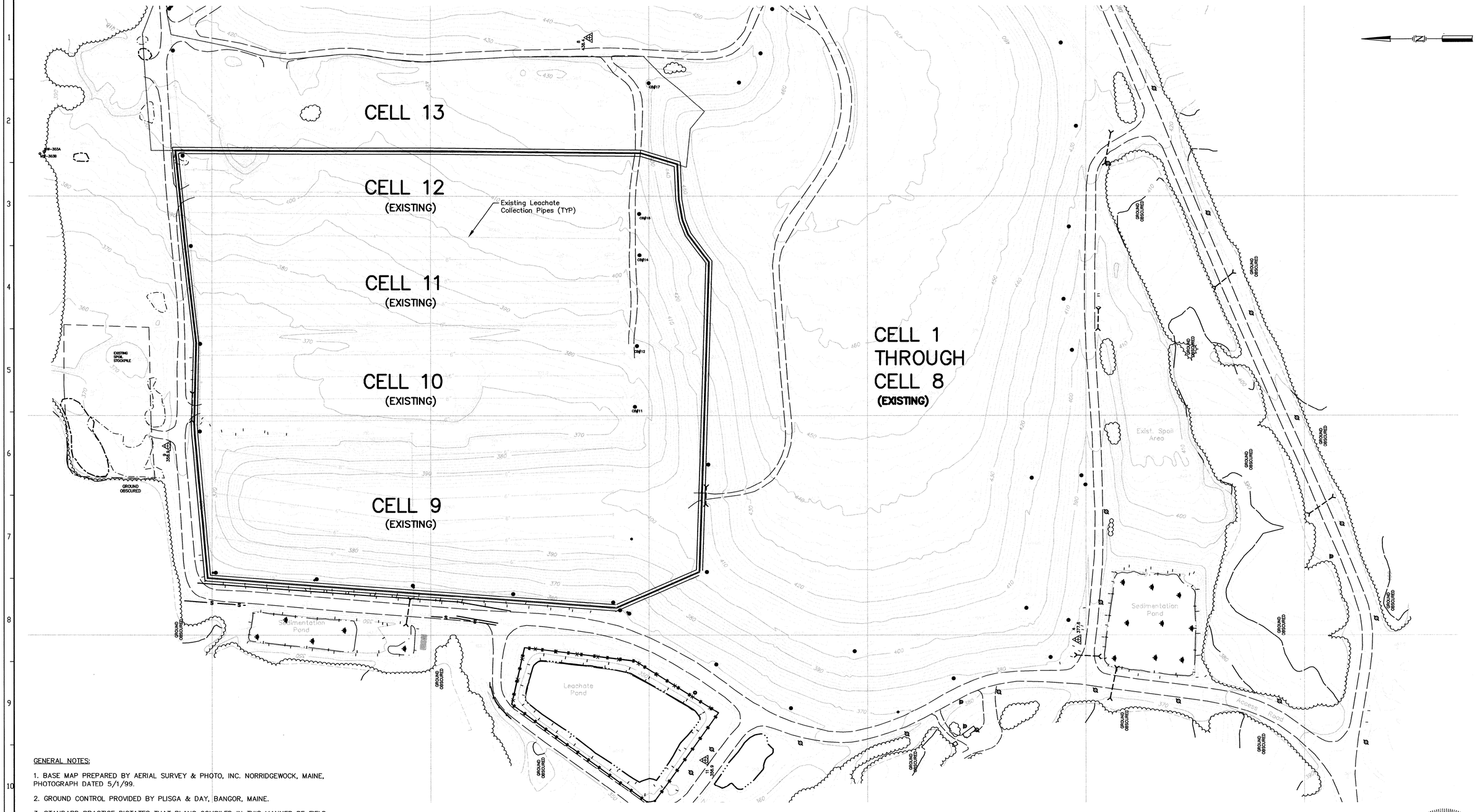

GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.

2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.

3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.

5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 12. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.

50 0 100 200

STATE OF MAINE
PETER M. MANEK
NO. 10107
REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	-	
5	-	
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CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC			
		P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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	- -						
	- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		

ISSUE CODE
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C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-SITEDEV.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
EXISTING CONDITIONS PLAN

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26079

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LIMIT OF WORK

N 665100.36
E 475344.39

N 664946.55
E 475313.51

N 664899.47
E 475299.56

N 664846.64
E 475287.50

N 664804.46
E 475291.84

N 664774.98
E 475297.30

N 664669.45
E 475304.15

N 664646.11
E 475301.57

N 664601.99
E 475293.73

N 664530.02
E 475287.24

TYPE 2 DITCH (3) YB-26082

N 664324.67
E 475286.54

STONE CHECK DAM (C) YB-26082
100' O.C. (TYP)

N 663995.16
E 475267.74

CATCH BASIN #35 (B) YB-26082
(EXIST) 12" INV IN = 391.2
(EXIST) 12" INV OUT = 391.1

SLOPE TO DRAIN

CB#17

EXISTING 12" PVC TRANSPORT PIPE

N 663903.86
E 475191.89

BRANCH CONNECTOR (A) YB-26082

6" LEACHATE COLLECTION PIPE (2) YB-26082

END CAP (TYP)

N 663926.78
E 475161.09

03A

B

EXISTING CATCH BASIN #34
(EXIST) 12" INV IN = 391.2
(EXIST) 8" INV IN = 397.0
(EXIST) 12" INV OUT = 391.1

CB#16

CB#14

CB#12

CB#11

EXISTING
SPOIL
STOCKPILE

CELL 13

CELL 12
(EXISTING)

CELL 11
(EXISTING)

CELL 10
(EXISTING)

CELL 13 OPERATION NOTES (PRIOR TO FILLING)
STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 5.

25 0 50 100

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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	- -						- -
	- -						- -
	5/03	ASB	RECORD DRAWING				- -
	4/29/02	C	ISSUED FOR CONSTRUCTION	GHC			- -
		P	SUBMITTED TO CLIENT	GHC			- -

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						- -

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
CELL 13 - SITE DEVELOPMENT PLAN

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26080

STATE OF MAINE
PETER M. MAHER
NO. 4107
REGISTERED PROFESSIONAL ENGINEER

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3	-			5/03	ASB	RECORD DRAWING						- -						
2	-			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC					- -						
1	-				P	SUBMITTED TO CLIENT	GHC					- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
OPERATIONAL GRADING PLAN

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26081

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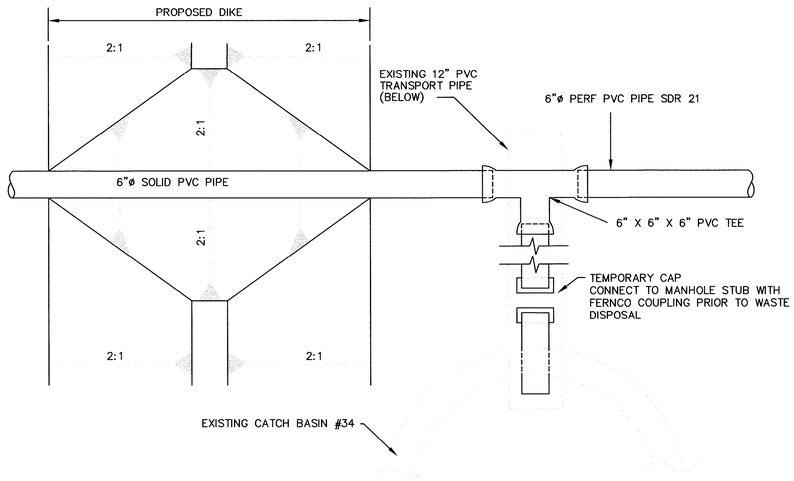
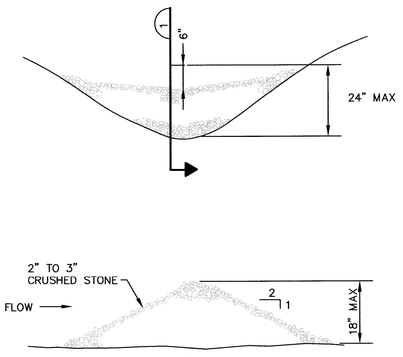


BRANCH CONNECTOR A

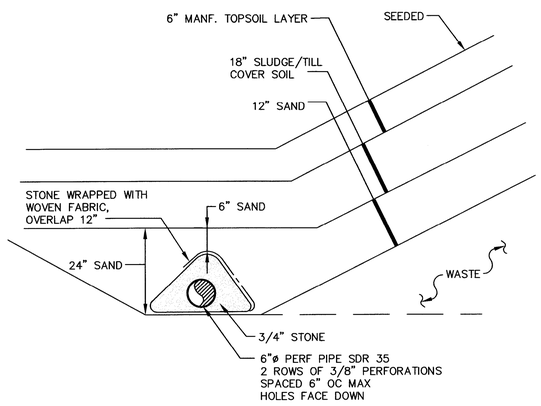
N.T.S. YB-26080



SECTION 1

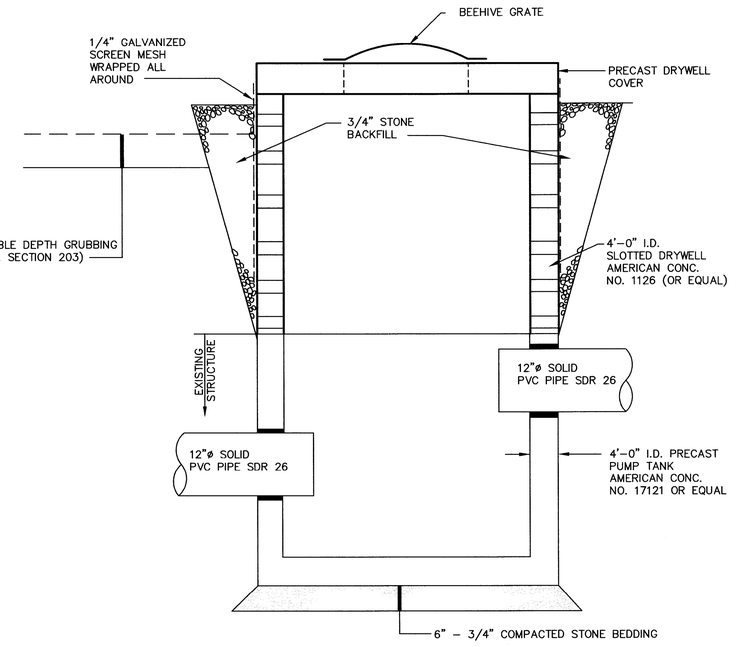
STONE CHECK DAM C

N.T.S. YB-26080



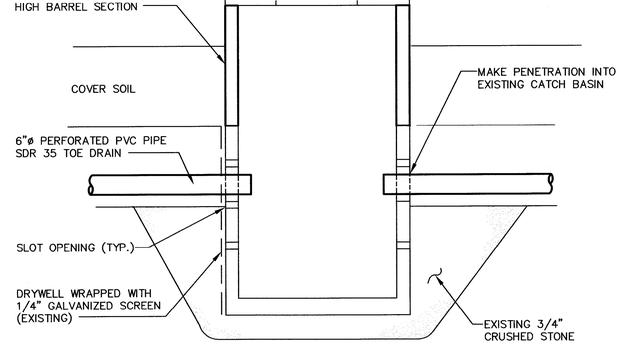
TOE DRAIN 1

N.T.S. YB-26081



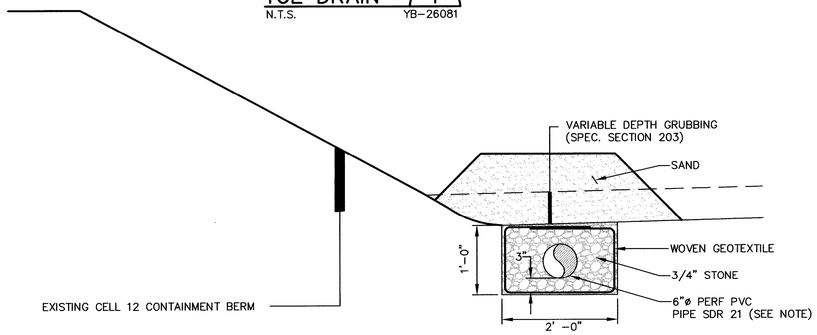
CATCH BASIN # 35 B

N.T.S. YB-26080



RAISE CATCH BASIN D

N.T.S. (EXISTING) YB-26081

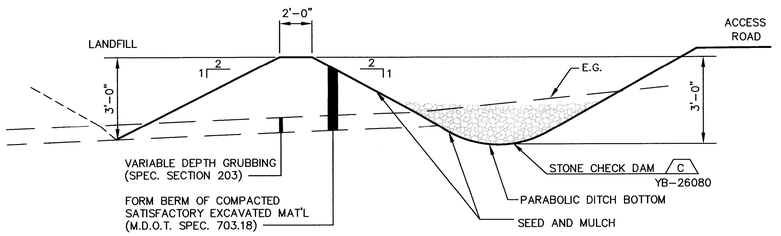


NOTE:

PIPE PERFORATIONS SHALL BE 3/8" DIA. HOLES, 6" O.C., 2 ROWS. ROWS SHALL BE MINIMUM 45°, MAXIMUM 60° FROM INVERT OF PIPE. HOLES SHALL FACE DOWN.

6" LEACHATE COLLECTION PIPE 2

N.T.S. YB-26080



DIKE AND TYPE 2 DRAINAGE DITCH 3

N.T.S. YB-26080

STATE OF MAINE — PETER L. MAHER NO. 4107 — REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	–			– –								– –						
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3	–			5/03	ASB	RECORD DRAWING						– –						
2	–			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC					– –						
1	–				P	SUBMITTED TO CLIENT	GHC					– –						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 02021

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APPVD		– –

ISSUE CODE
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ASB – As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS

JOB NO. 94768
FILE NO. 2-092-7092
LOC. NO.

YB-26082
SHEET 1 OF 3

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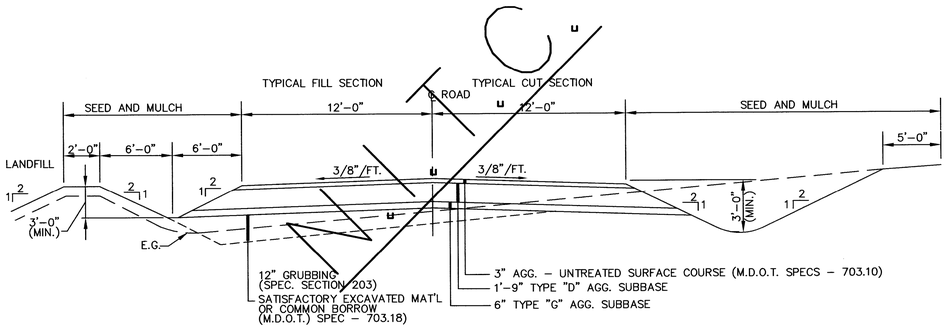
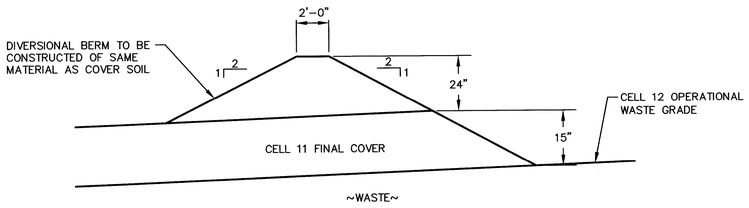


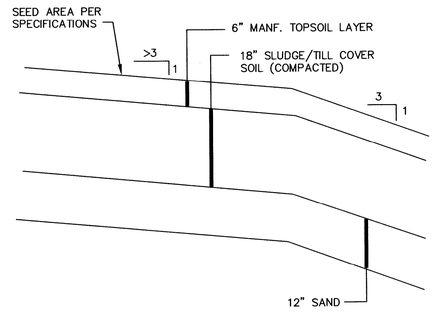
LANDFILL ACCESS ROAD (4)

N.T.S. YB-26080



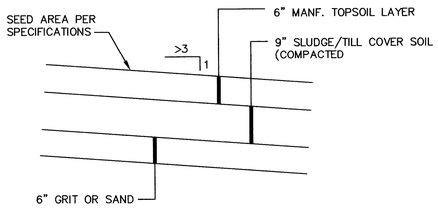
OPERATIONAL/FINAL COVER INTERFACE (5)

N.T.S. YB-26081



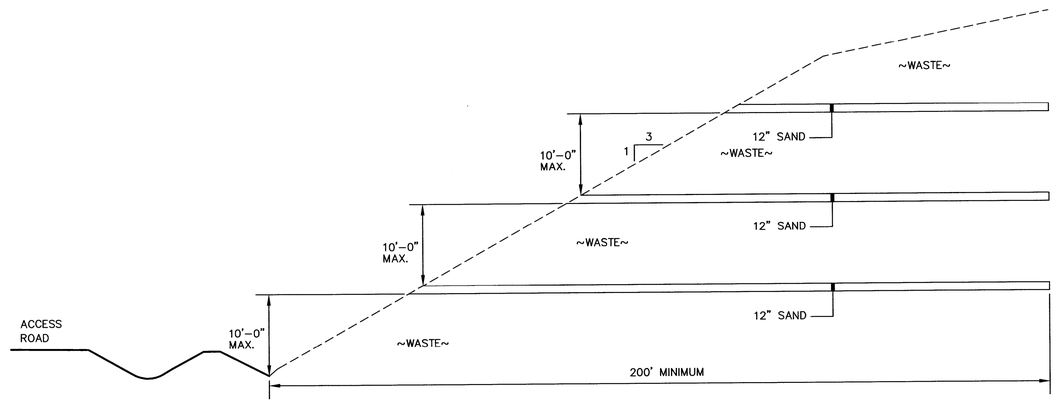
FINAL COVER (6)

N.T.S. YB-26081



INTERMEDIATE COVER (7)

N.T.S. YB-26081



NOTE: SAND DRAINAGE LAYERS TO BE INSTALLED ON NORTH SLOPE OF CELL 13

SLOPE STABILIZING DRAINAGE SYSTEM (10)

N.T.S. YB-26081

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -						
5	-			- -						
4	-			- -						
3	-			5/03	ASB	RECORD DRAWING				
2	-			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC			
1	-				P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	- -						
	- -						
	- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		- -

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26083
SHEET 2 OF 3

STATE OF MAINE PETER A. MAHER NO. 5107 REGISTERED PROFESSIONAL ENGINEER

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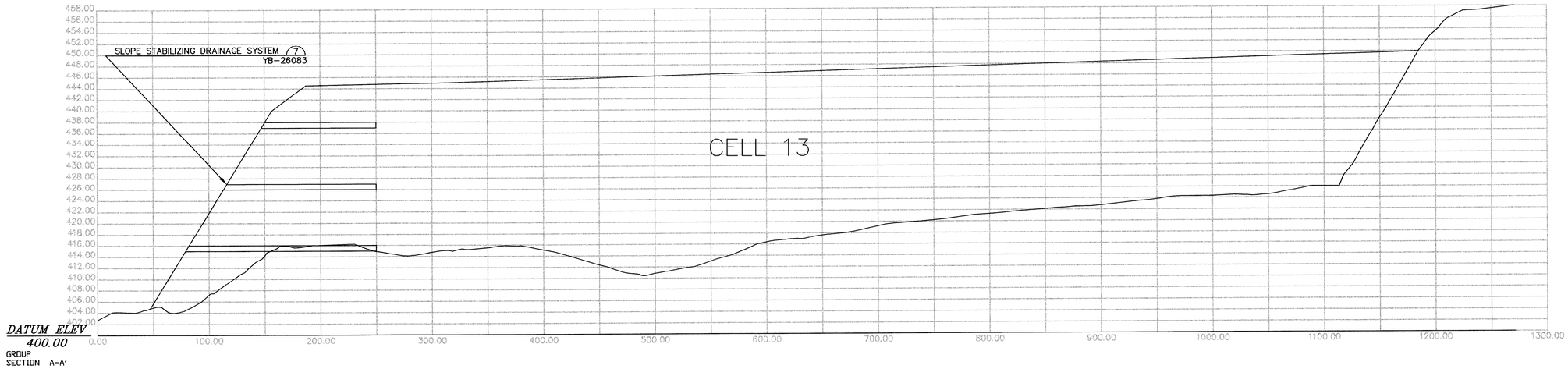

SECTION A – A' 8
YB-26081

SECTION B – B' 9
YB-26081

25 0 50 100

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	–			– –								– –						
5	–			– –								– –						
4	–			– –								– –						
3	–			5/03	ASB	RECORD DRAWING						– –						
2	–			4/29/02	C	ISSUED FOR CONSTRUCTION	GHC					– –						
1	–				P	SUBMITTED TO CLIENT	GHC					– –						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 02021

DRN	KLC	3/6/02
CHKD	GHC	3/8/02
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY, LLC.
MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 13 CONSTRUCTION
CELL 11 CLOSURE
SECTIONS & DETAILS

JOB NO. 94768
FILE NO. 2-092-7082
LOC. NO.

YB-26084
SHEET 3 OF 3

STATE OF MAINE
PETER M. MAHER
No. 7107
REGISTERED PROFESSIONAL ENGINEER

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KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants

Cumberland Center, Maine

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -						
5	-			- -						
4	-			- -						
3	-									
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION				
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	- -						
	- -						
	- -						

JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		- -
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: GNPCOV14.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
COVER SHEET

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26159

STATE OF MAINE
JOHN E. SEVEE
4150
REGISTERED PROFESSIONAL ENGINEER
7/12/04

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SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
DATE		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
25	25	CONTOUR LINES
	INV 25.56	SPOT ELEVATION (INVERT ELEVATION)
		EXISTING GROUND
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.
		PROPERTY LINE OR R.O.W.
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE
	0+00 1+00	CONSTRUCTION BASELINE
		BOUNDARY LINE (State, County, Municipality)
		SURVEY MONUMENT
		SURVEY CONTROL
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE
		MAPPED WETLAND
		GAS VENT
		GAS VENT (CAPPED)
		CLEAN OUT STRUCTURE
		CULVERT
		RAILROAD
		SLOPE INCLINOMETER
		VIBRATING WIRE SETTLEMENT CELL
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT
		VERTICAL DISPLACEMENT MONUMENT
		LIQUID SETTLEMENT GAGE

EXISTING	PROPOSED	
		DRAINAGE COURSE (WITH DIRECTION)
		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		FENCE LINE (WOOD)
		FENCE LINE (WIRE)
		STONE WALL
		RETAINING WALL
		GUARD RAIL
		BUILDING AND STRUCTURES
	2 / 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
TOP OF SLOPE	TOP OF SLOPE	SLOPES (WITH SLOPE RATIO)
		EDGE OF ROAD
		CUT OR FILL LINE
		BITUMINOUS PAVEMENT
		CONCRETE
B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
TP-12	TP-12	TEST PIT AND NUMBER
SW-12	SW-12	SURFACE WATER SAMPLE LOCATION
		GAS EXTRACTION WELL
		MANHOLE
		CATCH BASIN
		WATER OR GAS VALVE
		HYDRANT
		AIR RELEASE VALVE
		SURGE RELEASE VALVE
		UTILITY POLE
		LIGHT POLE

EXISTING	PROPOSED	
G	UG	UNDERGROUND GAS MAIN
T	UT	UNDERGROUND TELEPHONE LINE
E	UE	UNDERGROUND ELECTRICAL LINE
OE	OE	OVERHEAD ELECTRICAL LINE
OT	OT	OVERHEAD TELEPHONE LINE
12" SS	12" SS	SANITARY SEWER
8" FM	8" FM	FORCE MAIN
8" W	8" W	WATER MAIN
12" SD	12" SD	STORM DRAIN
8" UD	8" UD	UNDERDRAIN
6" PD	6" PD	PERIMETER DRAIN
6" LT	6" LT	LEACHATE TRANSPORT
6" LC	6" LC	LEACHATE COLLECTION
LD	6" LD	LEAK DETECTION
GO	6" G	GAS COLLECTION
		REDUCER
		MECHANICAL CAP OR PLUG
		COUPLING
		BEND
		TEE
		PIPE TO BE ABANDONED
		RISER PIPE & INLET GRATE
		STORM GRATE
		DRAINAGE INLET STRUCTURE
		UNDERDRAIN SUMP
	SF	SILTATION FENCE
	CLL	CLEARING OR CONSTRUCTION LIMIT LINE

ACCMP	ASPHALT COATED CMP
ACP	ASBESTOS CEMENT PIPE
AC	ACRE
AGG	AGGREGATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARMH	AIR RELEASE MANHOLE
ASB	ASBESTOS
ASP	ASPHALT
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AZ	AZIMUTH
BCCMP	BITUMINOUS COATED CMP
BM	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
BV	BALL VALVE
CB	CATCH BASIN
CEN	CENTER
CEM LIN	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CS	CURB STOP
CTR	CENTER
CU	COPPER
CY	CUBIC YARD
D	DEGREE OF CURVE
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA OR ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EG	EXISTING GROUND OR GRADE
ELEC	ELECTRIC
EL	ELEVATION
ELB	ELBOW
EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
FG	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HYD	HYDRANT
ID	INSIDE DIAMETER
IN OR "	INCHES
INV	INVERT
INV EL	INVERT ELEVATION
LB	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LF	LINEAR FEET
LOC	LOCATION
LT	LEACHATE TRANSPORT
MH	MANHOLE
MJ	MECHANICAL JOINT
MATL	MATERIAL
MAX	MAXIMUM
MFR	MANUFACTURE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/F	NOW OR FORMERLY
NO OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PD	PERIMETER DRAIN
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PT	POINT OF TANGENT
PERF	PERFORATED
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SMH	SANITARY MANHOLE
ST	STREET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
UD	UNDERDRAIN
V	VOLTS
VA TEE	VALVE ANCHORING TEE
VERT	VERTICAL
WG	WATER GATE
W/	WITH
W/O	WITHOUT
YD	YARD

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO.
ACCESS ROAD 3 YB-26160
DRAWING WHERE SECTION APPEARS

DETAIL TITLE
MANHOLE SEE DWG C-300
DRAWING WHERE DETAIL APPEARS

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18

STONE BEDDING – THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4-INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL

SAND BLANKET – MDOT SPECIFICATION 703.05

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PVC PIPE – SDR 35

12" LEACHATE TRANSPORT PIPE – SOLID HANCOR TITELINE

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:		
	TALL FESCUE	59%
	RED FESCUE	25%
	RED TOP	5%
	LADINO CLOVER	3%
	ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

STATE OF MAINE JOHN E. SEVEE 4150 REGISTERED PROFESSIONAL ENGINEER 7/12/04

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -						
5	-			- -						
4	-			- -						
3	-			- -						
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION	GHC			
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	- -						
	- -						
	- -						

SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine
JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		- -
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: SYMSHT.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SYMBOLS & ABBREVIATIONS

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26160

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CELL 13
(EXISTING)

CELL 14

CELL 12
(EXISTING)

Existing Leachate Collection Pipes (TYP)

CELL 11
(EXISTING)

CELL 10
(EXISTING)

CELL 9
(EXISTING)

CELL 1
THROUGH
CELL 8
(EXISTING)

EXISTING SPOIL STOCKPILE

Exist. Spoil Area

Sedimentation Pond

Leachate Pond

Sedimentation Pond

Access Road

GENERAL NOTES:

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, INC. NORRIDGEWOCK, MAINE, PHOTOGRAPH DATED 5/1/99.

2. GROUND CONTROL PROVIDED BY PLISGA & DAY, BANGOR, MAINE.

3. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MDEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE, AND LOCAL PERMITS.

5. GREAT NORTHERN PAPER IS ACTIVELY FILLING CELL 13. EXISTING GRADES MAY NOT REPRESENT CURRENT CONDITIONS.

50 0 100 200

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	-	
5	-	
4	-	
3	-	
2	-	
1	-	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
- -							
- -							
- -							
- -							
C	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC			
P	6/15/04	P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
- -							
- -							
- -							
- -							
- -							
- -							

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-EXCON.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
EXISTING CONDITIONS PLAN

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26161

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EXISITNG CATCH BASIN #35
(EXIST) 12" INV IN = 391.2
(EXIST) 12" INV OUT = 391.1

EXISTING 12" PVC TRANSPORT PIPE

EXISTING CATCH BASIN #34
(EXIST) 12" INV IN = 391.2
(EXIST) 8" INV IN = 397.0
(EXIST) 12" INV OUT = 391.1

6" DIA. TOE DRAIN (1) YB-26164

EXISTING CATCH BASIN #33
(EXIST.) 12" INV IN = 373.25
8" INV IN = 379.00
(EXIST.) 12" INV OUT = 373.15
8" INV OUT = 379.00

RAISE CATCH BASIN SEE DWG YB-26164

SIDESLOPE PIPE TRENCH (2) YB-26164

EXISTING CATCH BASIN #32
12" INV IN 358.75
8" INV IN 363.15
12" INV OUT 360.00
8" INV OUT 363.15

EXISTING SPOIL STOCKPILE

FINAL COVER (6) YB-26165

DRAINAGE MANHOLE SEE DWG YB-26165

CELL 14 OPERATIONS DITCH (SLOPE TO DRAIN)

12" UD

INTERMEDIATE COVER (7) YB-26165

OPERATIONAL/FINAL COVER INTERFACE (5) YB-26165

FINAL WASTE CONTOURS

CELL 13
(EXISTING)

CELL 12
(EXISTING)

CELL 11
(EXISTING)

CELL 10
(EXISTING)

N 663780.60
E 475082.65

N 663649.89
E 475035.46

(3) YB-26164 DIKE AND TYPE 1 DRAINAGE DITCH

N 663725.59
E 474927.75

N 663862.42
E 474843.33

OPERATIONAL ITEM TIE-IN DIKE WHEN STRIPPING COVER

CELL 14 OPERATION NOTES (PRIOR TO FILLING)
STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.

25 0 50 100

STATE OF MAINE JOHN F. [illegible] REGISTERED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	-	
5	-	
4	-	
3	-	
2	-	
1	-	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
- -							
- -							
- -							
- -							
- -	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC			
- -	6/15/04	P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
- -							
- -							
- -							
- -							
- -							
- -							

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-OPERGRADING.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SITE DEVELOPMENT PLAN

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26162

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CELL 14 OPERATION NOTES (PRIOR TO FILLING)

STRIP EXISTING LANDFILL COVER AND CONSTRUCT CONTAINMENT BERM ON CELL 6.

25 0 50 100

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -						
5	-			- -						
4	-			- -						
3	-			1/18/05	C	ADDED 2004 CONSTRUCTION ACTIVITIES				
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION	GHC			
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC			

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 04011.04

DRN PAF 6/4/04
CHKD GHC 6/14/04
APPVD
ISSUE CODE
P - Preliminary
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ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-OPERGRADING.DWG

EAST OPERATION
DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
2004 CONSTRUCTION ACTIVITIES

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26162A

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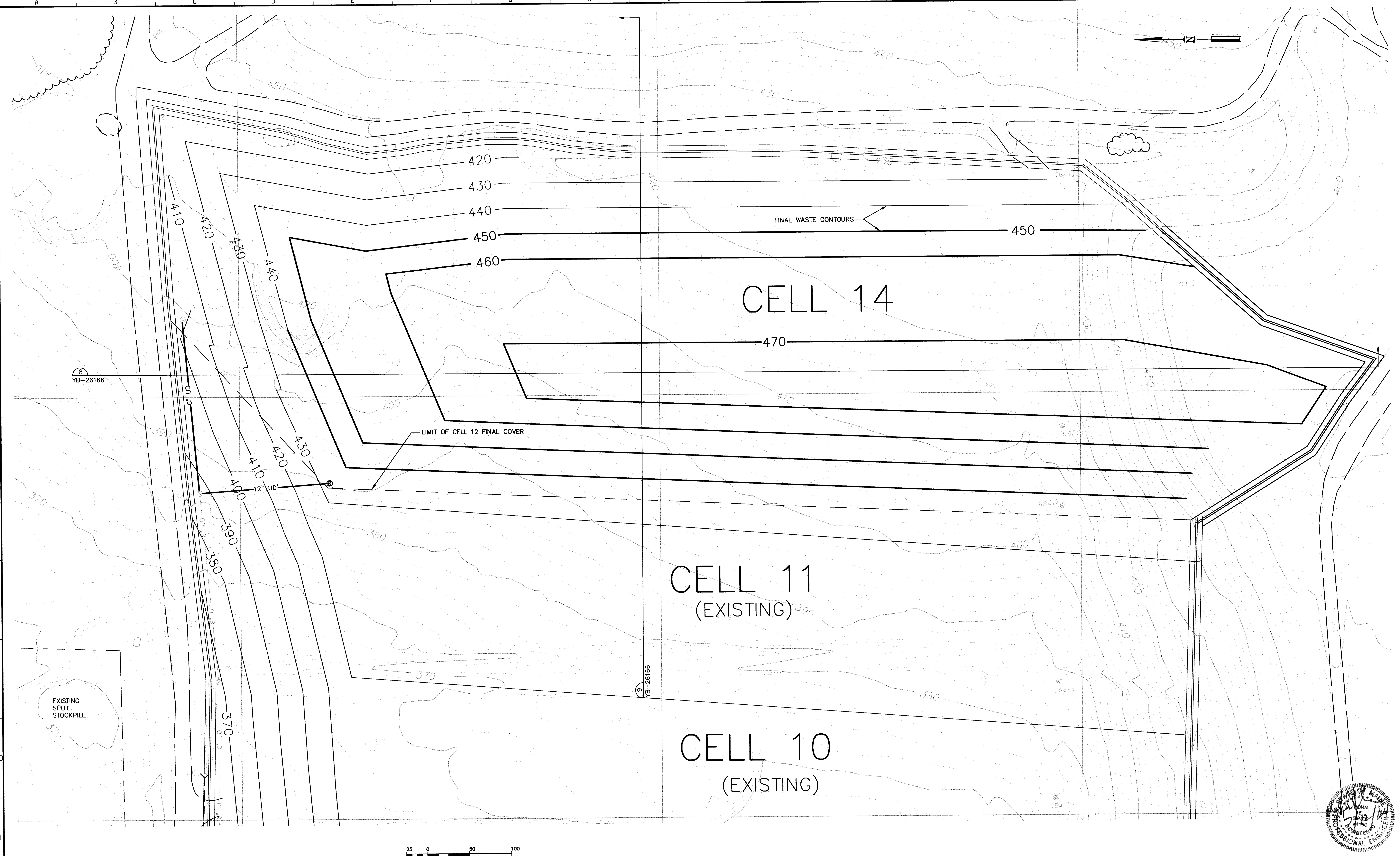

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5	-			- -						
4	-			- -						
3	-									
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION				
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC			

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	PAF	6/4/04
CHKD	GHC	6/14/04
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL14-OPERGRADING.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
CELL 14-OPERATIONAL GRADING PLAN

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26163

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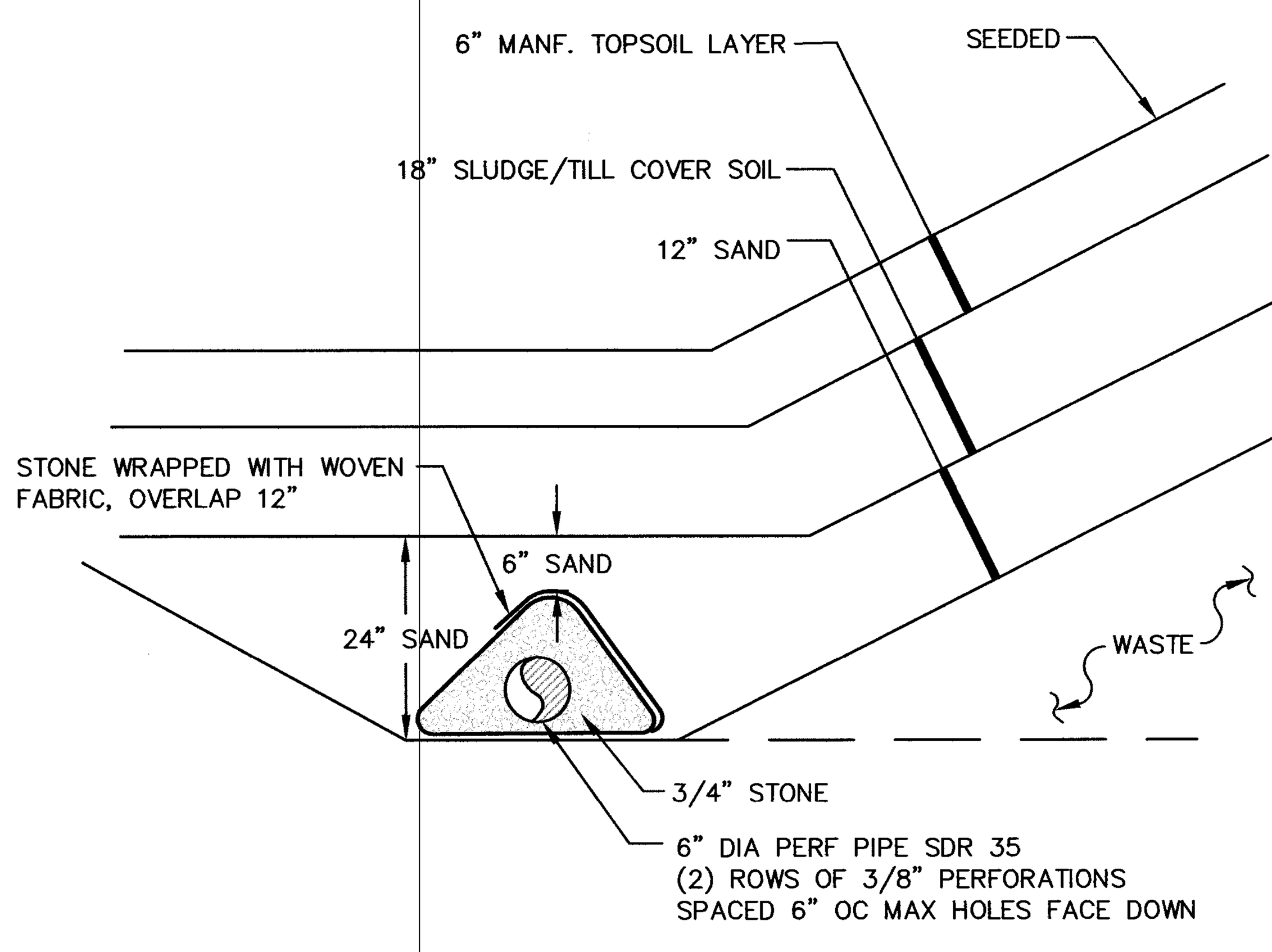
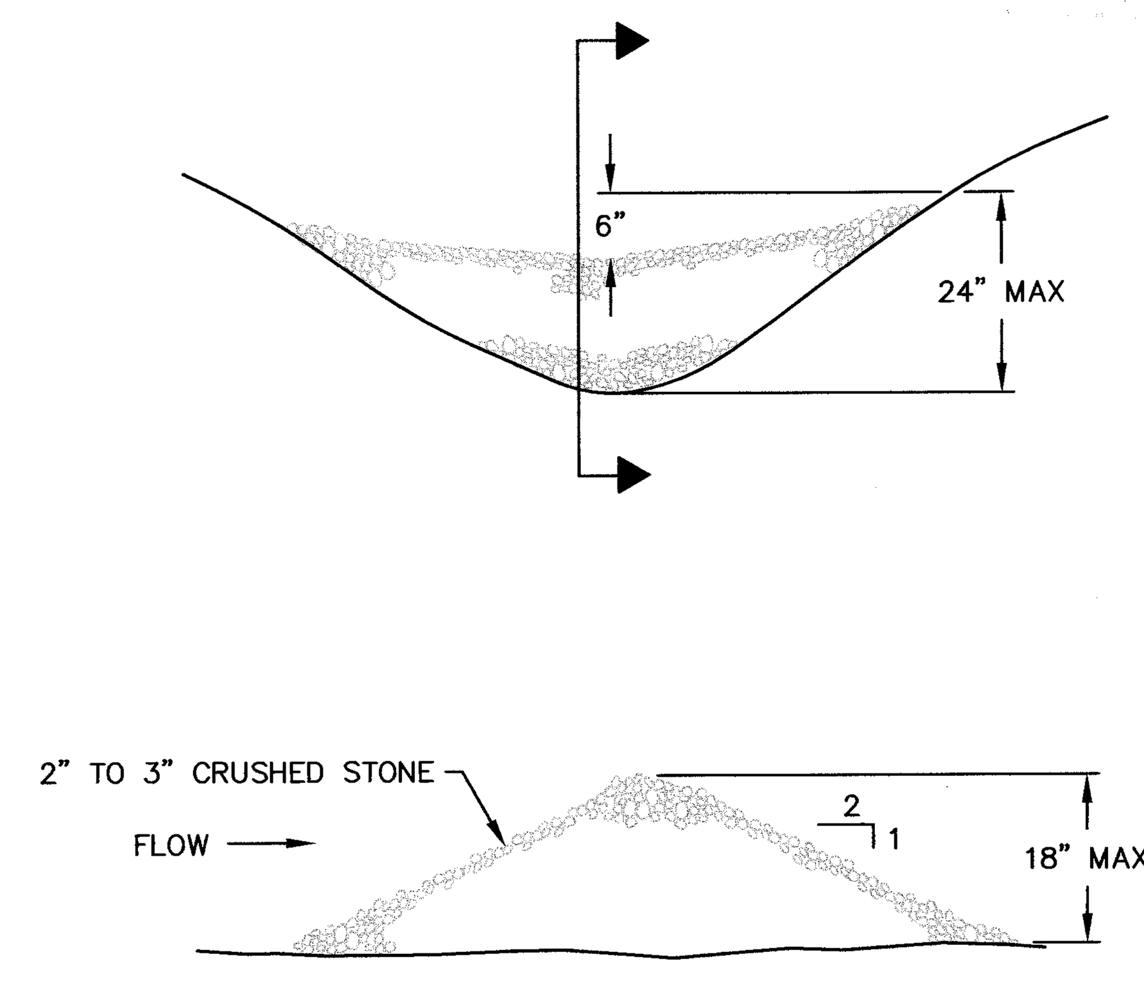
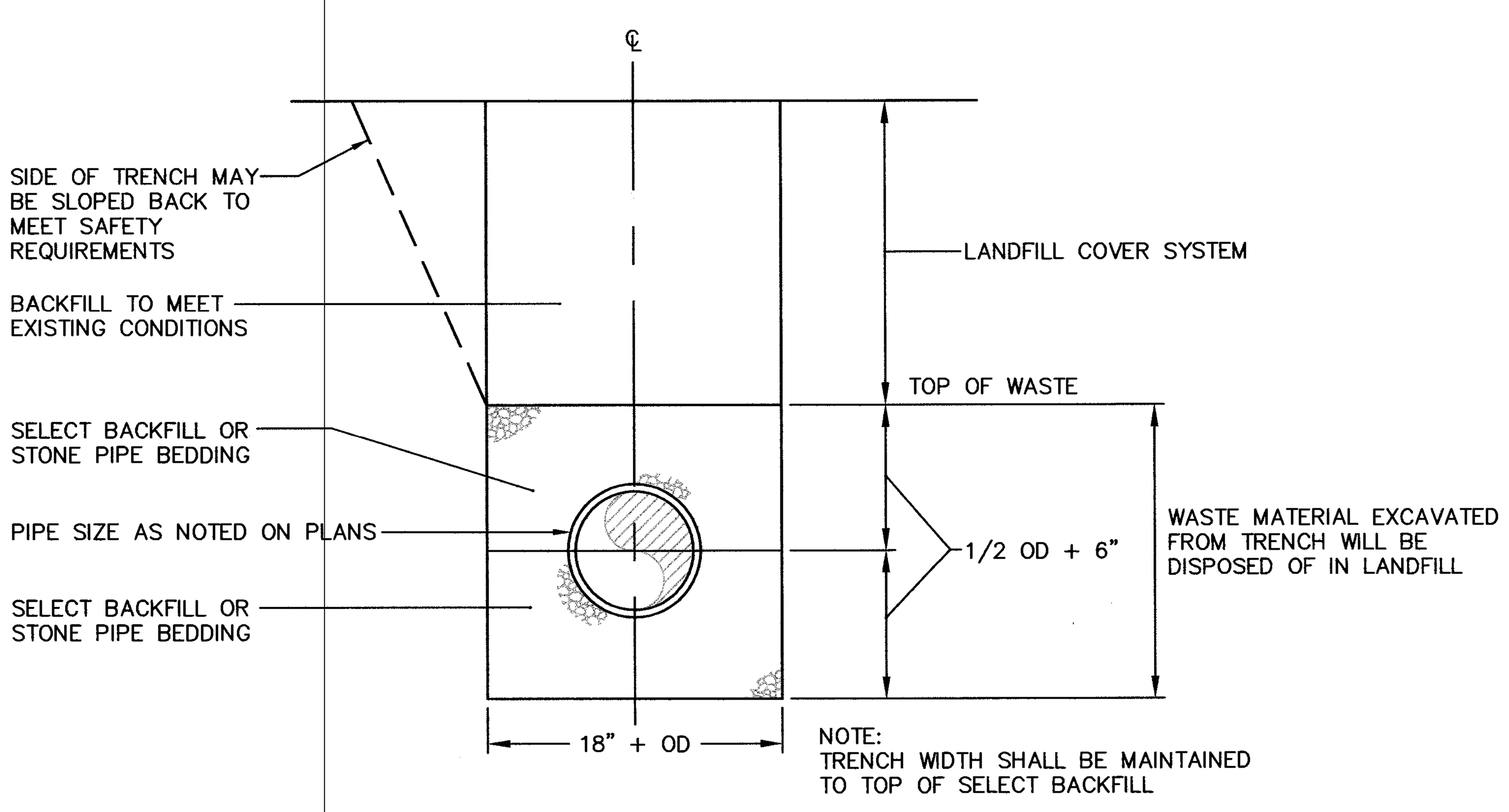


TOE DRAIN (1)
NTS YB-26162



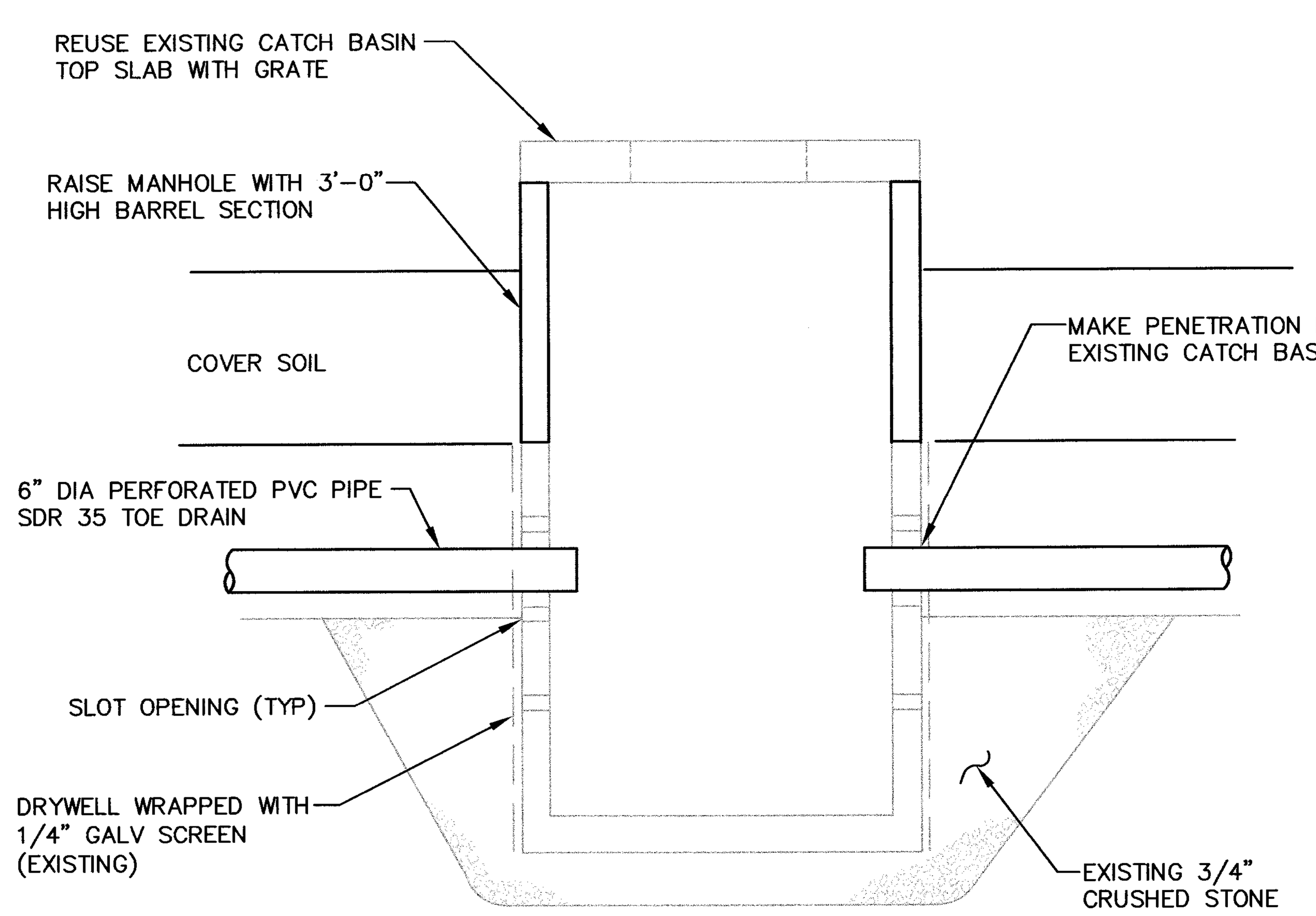
SECTION

STONE CHECK DAM
NTS

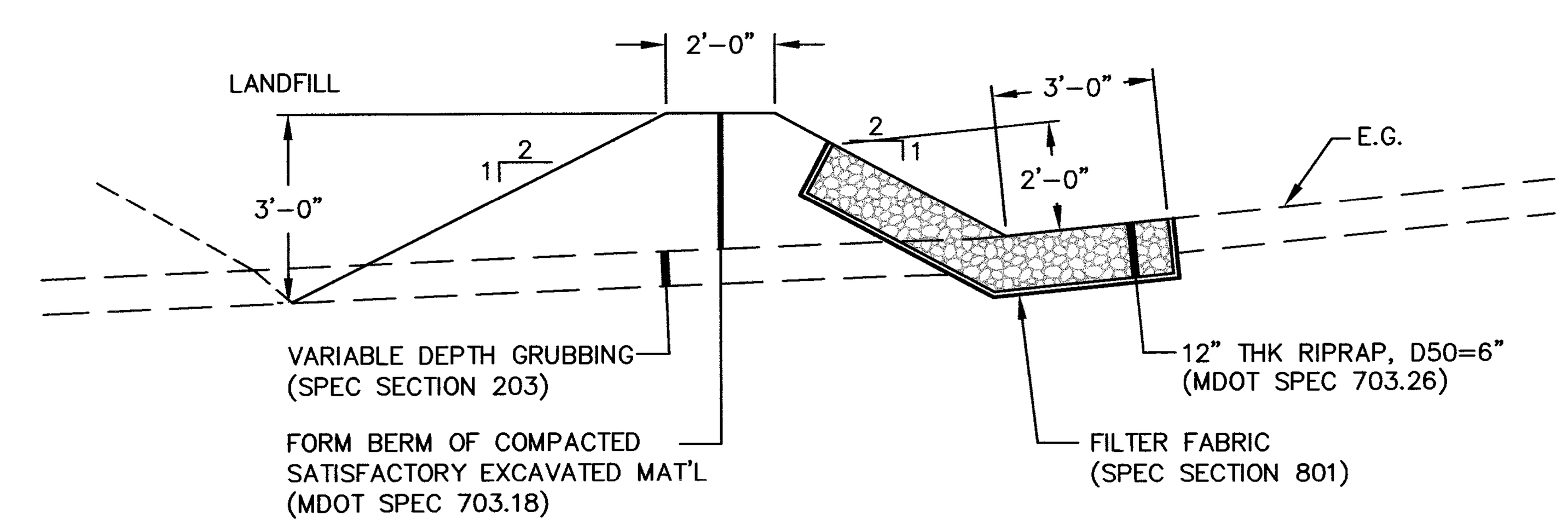


NOTE:
TRENCH WIDTH SHALL BE MAINTAINED TO TOP OF SELECT BACKFILL

SIDESLOPE PIPE TRENCH (2)
NTS YB-26162



RAISE CATCH BASIN
NTS (EXISTING)



DIKE AND TYPE 1 DRAINAGE DITCH (3)
NTS YB-26162

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -						
5	-			- -						
4	-			- -						
3	-			- -						
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION				
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC			

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD	-	-

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-052-7082
LOC. NO.

YB-26164
SHEET 1 OF 3

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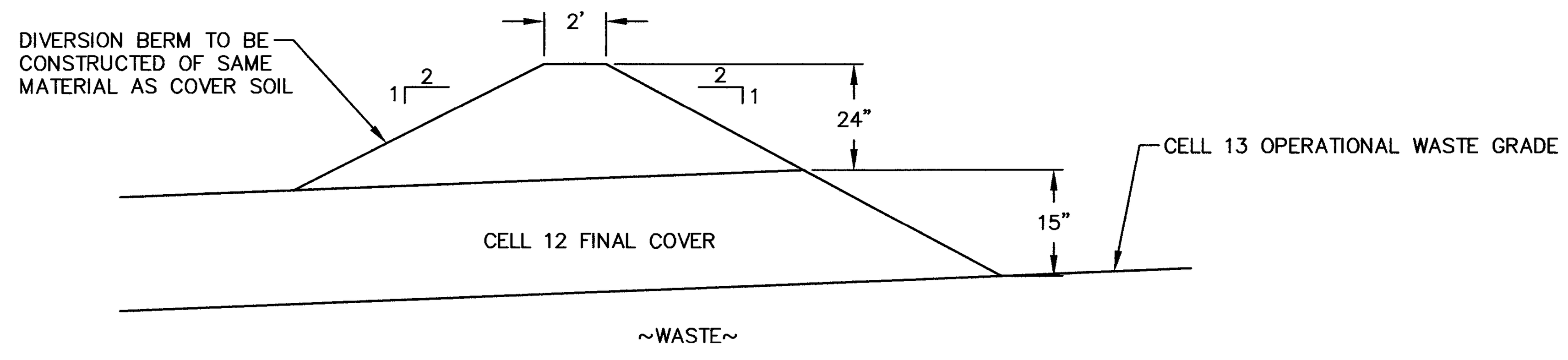
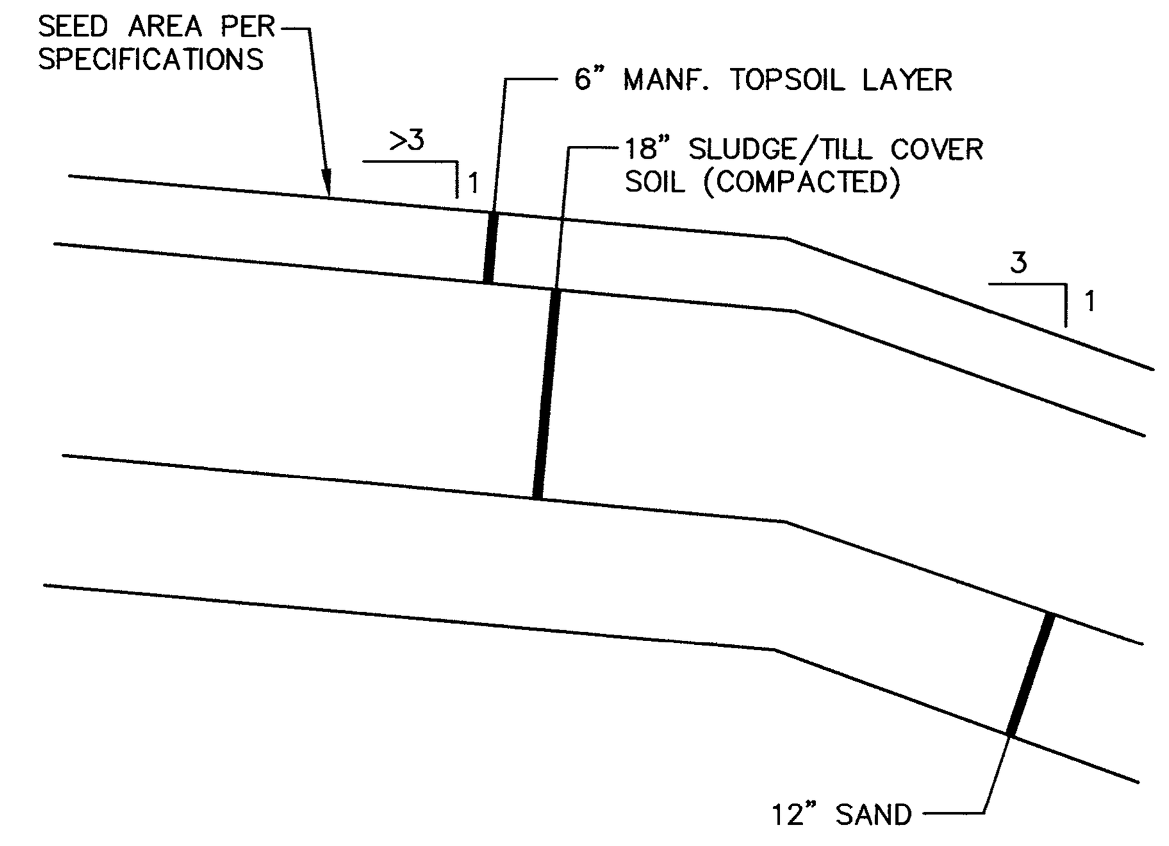
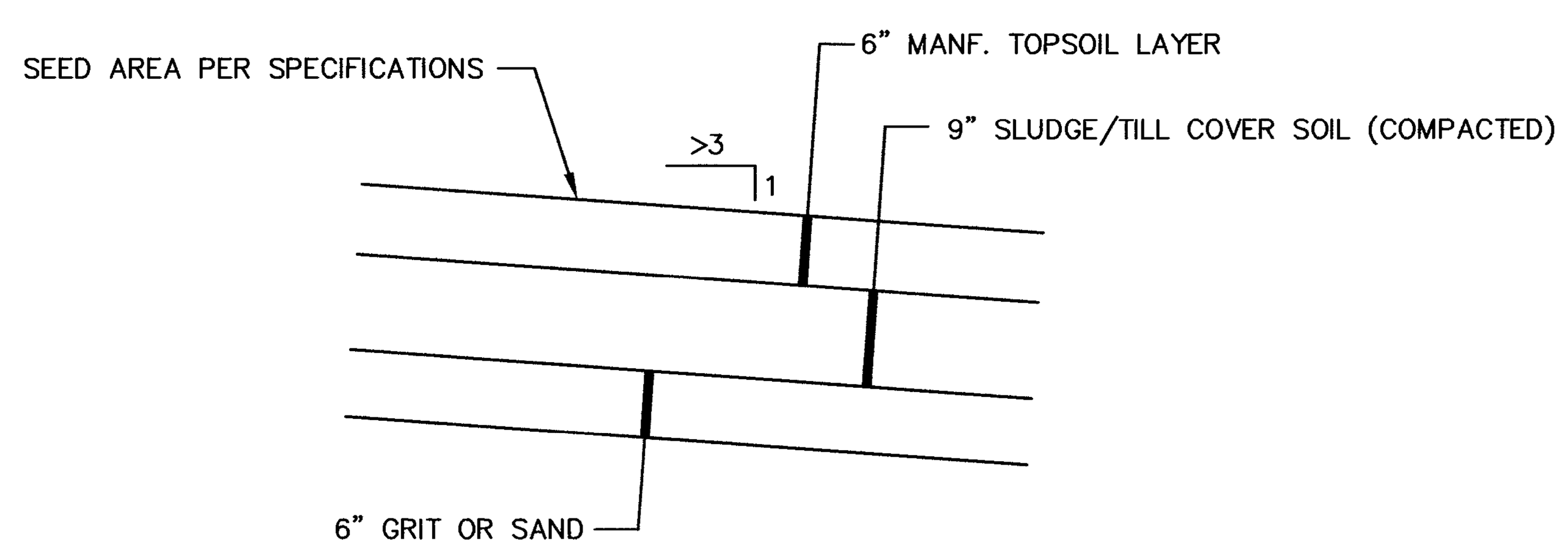


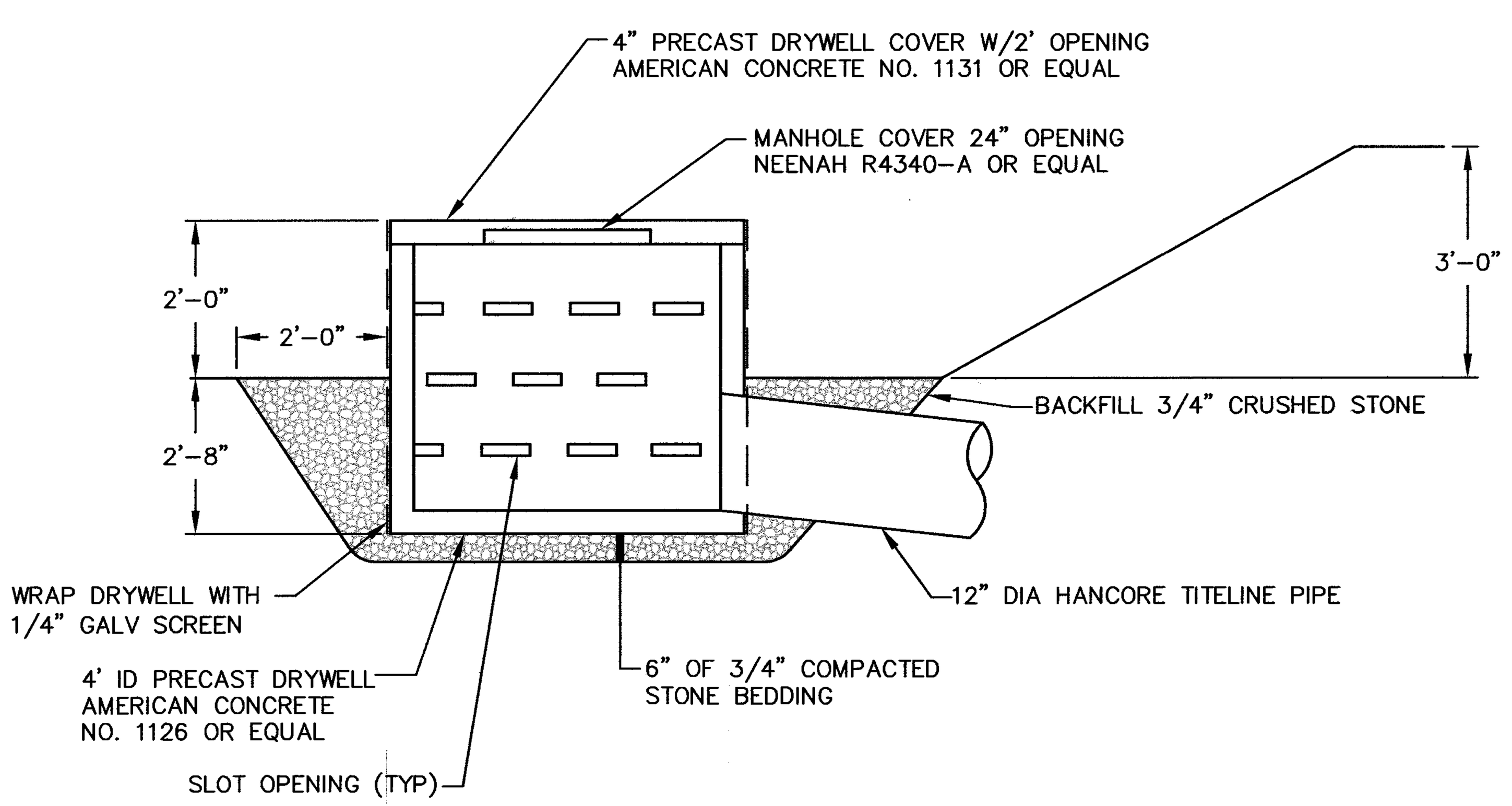
OPERATIONAL/FINAL COVER INTERFACE 5
NTS YB-26162



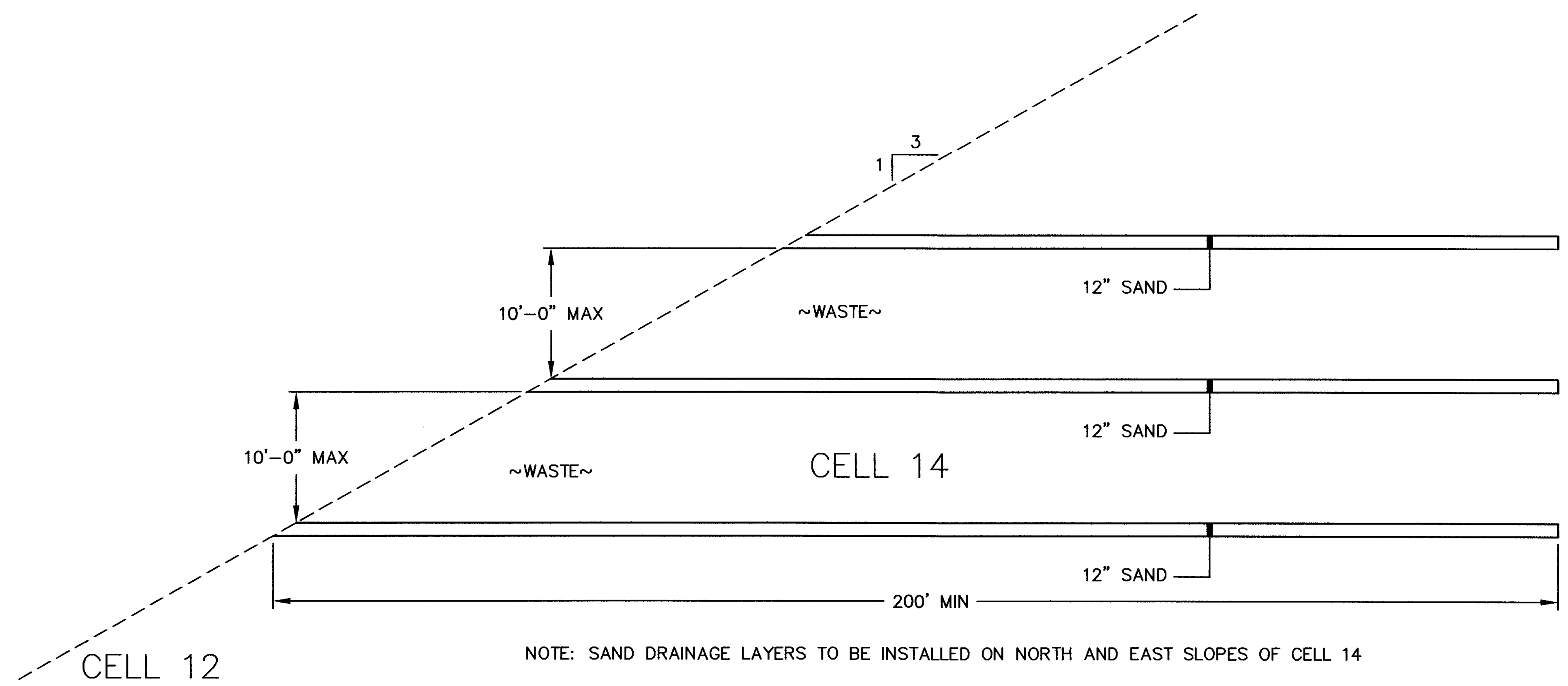
FINAL COVER 6
NTS YB-26162



INTERMEDIATE COVER 7
NTS YB-26162



DRAINAGE MANHOLE
NTS



NOTE: SAND DRAINAGE LAYERS TO BE INSTALLED ON NORTH AND EAST SLOPES OF CELL 14

SLOPE STABILIZING DRAINAGE SYSTEM 10
NTS YB-26166

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -								- -						
5	-			- -								- -						
4	-			- -								- -						
3	-			- -								- -						
2	-			7/12/04	C	ISSUED FOR CONSTRUCTION	GHC					- -						
1	-			6/15/04	P	SUBMITTED TO CLIENT	GHC					- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021
JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		- -
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: DETAILS.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26165
SHEET 2 OF 3

STATE OF MAINE JOHN E. SEVEE 4150 REGISTERED PROFESSIONAL ENGINEER 7/12/04

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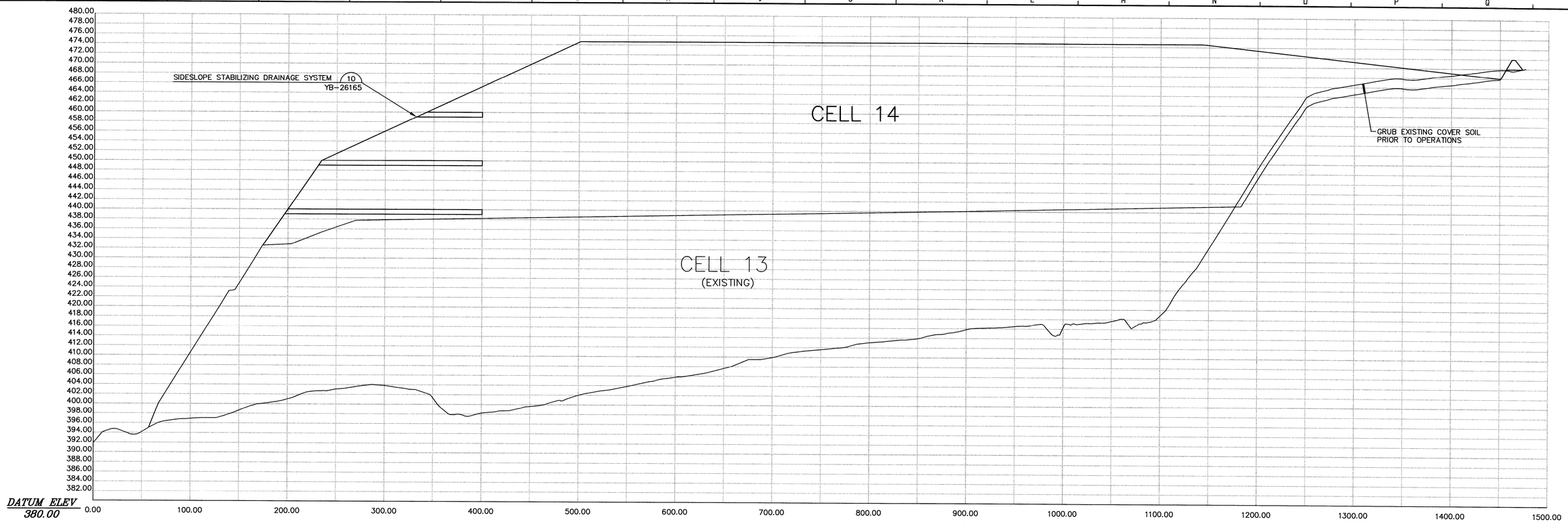
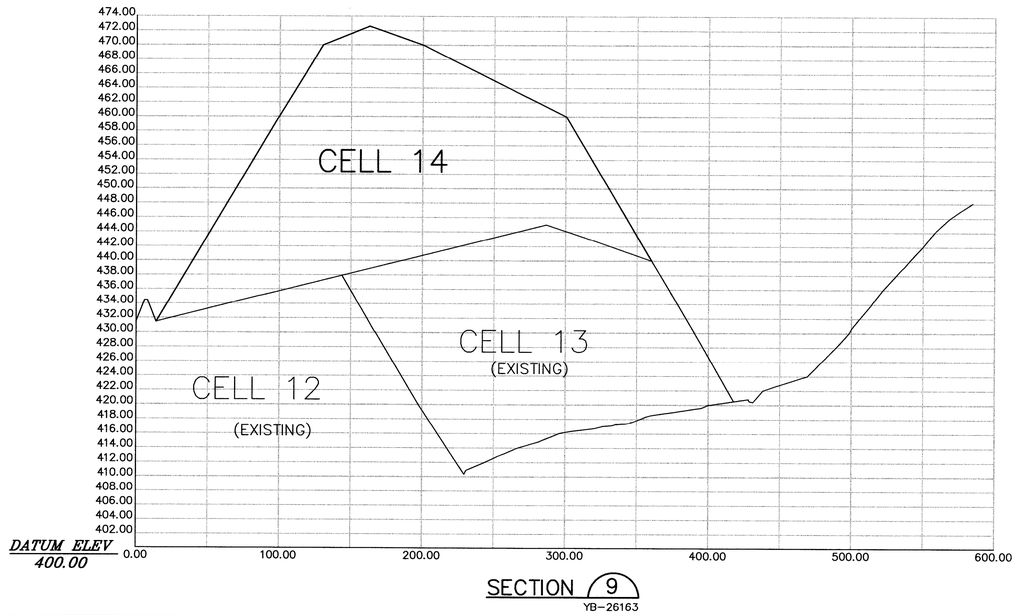


SECTION 8
YB-26163



SECTION 9
YB-26163

25 0 50 100

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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5	-	
4	-	
3	-	
2	-	
1	-	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	7/12/04	C	ISSUED FOR CONSTRUCTION	GHC			
	6/15/04	P	SUBMITTED TO CLIENT	GHC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	- -						
	- -						
	- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	DRD	6/4/04
CHKD	GHC	6/14/04
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL13-OPERGRADING.DWG

STATE OF MAINE
REGISTERED
PROFESSIONAL ENGINEER
6/14/04

EAST OPERATION

DOLBY III LANDFILL
CELL 14 CONSTRUCTION
CELL 12 CLOSURE
SECTIONS & DETAILS

JOB NO. 46226
FILE NO. 2-092-7082
LOC. NO.

YB-26166
SHEET 3 OF 3

F:\Kpc\Dolby\ACAD\CELL14\CELL14-SECTIONS.dwg, 7/12/2004 10:19:23 AM, drd

RAISE EXISTING CATCH BASIN #35
12" INV IN 407.2 (EXISTING)
12" INV OUT 407.1 (EXISTING)
6" INV IN 415.0
6" INV OUT 415.0
SEE DWG YB-26199
SHT 1 OF 2

6" DIA TOE DRAIN
SEE DWG YB-26199
SHT 1 OF 2

6"UD

EXISTING CATCH BASIN #18
6" INV OUT 428.0

420
430
440
450
460
470

LANDFILL COVER
SEE DWG YB-26199
SHT 2 OF 2

2 YB-26199 SHT 2 OF 2

FINAL WASTE CONTOURS

RAISE EXISTING CATCH BASIN #34
12" INV IN 391.2 (EXISTING)
8" INV IN 397.0 (EXISTING)
12" INV OUT 391.1 (EXISTING)
8" INV OUT 397.0 (EXISTING)
6" INV IN
SEE DWG YB-26199
SHT 1 OF 2

1 YB-26199 SHT 2 OF 2

CELL 14

TIE INTO CELL 14 DIKE

DIKE AND TYPE 1 DRAINAGE DITCH
SEE DWG YB-26199
SHT 1 OF 2

CATCH BASIN #33

EXISTING DRAINAGE MANHOLE

N 663726.69
E 474777.65

N 663712.83
E 474774.23

CELL 15
(INTERIM OPERATIONS)

N 663757.38
E 474712.66

N 663745.63
E 474704.75

BREAK ON SLOPE
TO BE FIELD DETERMINED

CELL 15 OPERATIONAL DITCH
(SLOPE TO DRAIN)

REMOVE EXISTING COVER

DRAINAGE MANHOLE
SEE DWG YB-26199
SHT 2 OF 2

PIPE TRENCH
SEE DWG YB-26199
SHT 1 OF 2

18"UD

EXISTING DRAINAGE MANHOLE

25 0 50 100

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
6	-	
5	-	
4	-	
3	-	
2	-	
1	-	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	2/12/07		UPDATED PER MEDEP COMMENTS				
	10/6/06		SUBMITTED TO MEDEP	GHC			
	8/24/06	P	SUBMITTED TO CLIENT	RBC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	- -						
	- -						
	- -						
	- -						
	- -						
	- -						

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 06116

DRN	PAF	7/18/06
CHKD	GHC	8/8/06
APPVD		

ISSUE CODE
P - Preliminary
B - Bids
C - Construction
ASB - As Built
SCALE AS SHOWN

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: YB-26197 B0

EAST OPERATION

DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SITE DEVELOPMENT PLAN

JOB NO.
FILE NO.
LOC. NO.

YB-26197

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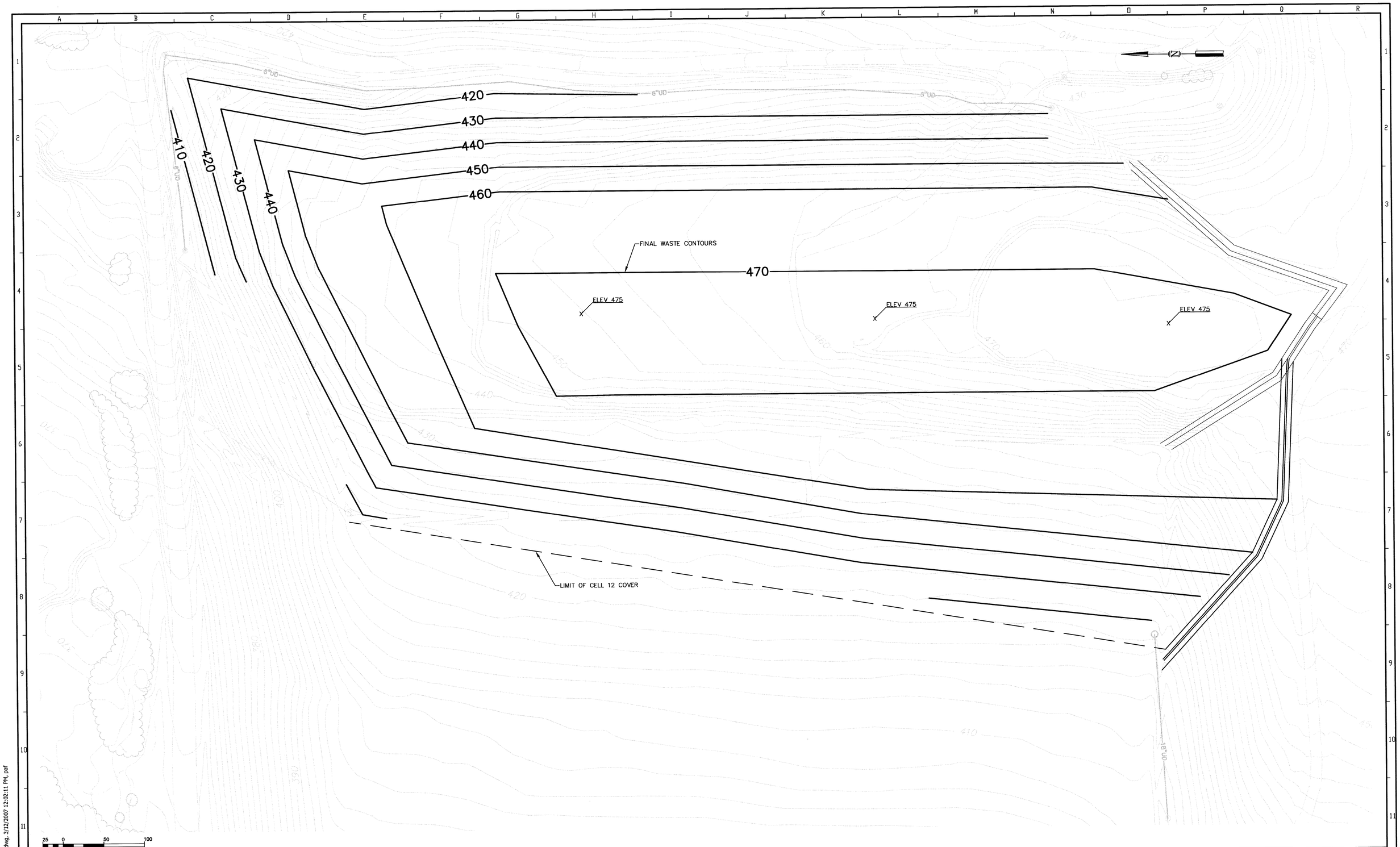

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE
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4	-	
3	-	
2	-	
1	-	

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
	2/12/07		UPDATED PER MEDEP COMMENTS				
	10/6/06		SUBMITTED TO MEDEP	GHC			
	8/24/06	P	SUBMITTED TO CLIENT	RBC			

CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 06116

DRN	PAF	7/18/06
CHKD	GHC	8/6/06
APPVD		

ISSUE CODE

P - Preliminary
B - Bids
C - Construction
ASB - As Built

SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: YB-26198 B0

EAST OPERATION

DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
CELL 15 OPERATIONAL GRADING PLAN

JOB NO.
FILE NO.
LOC. NO.

YB-26198

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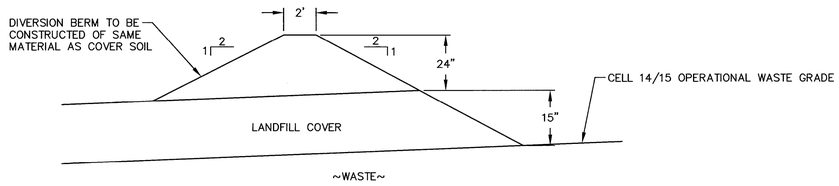
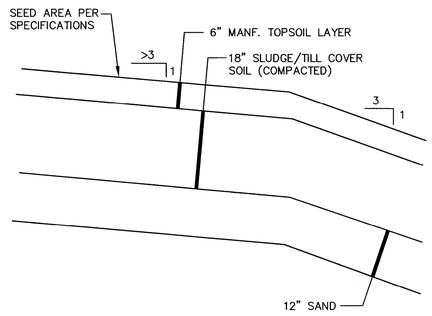


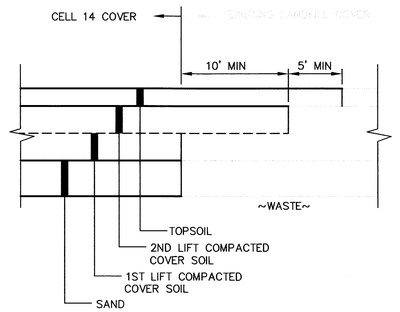
OPERATIONAL/LANDFILL COVER INTERFACE 1

NTS YB-26197



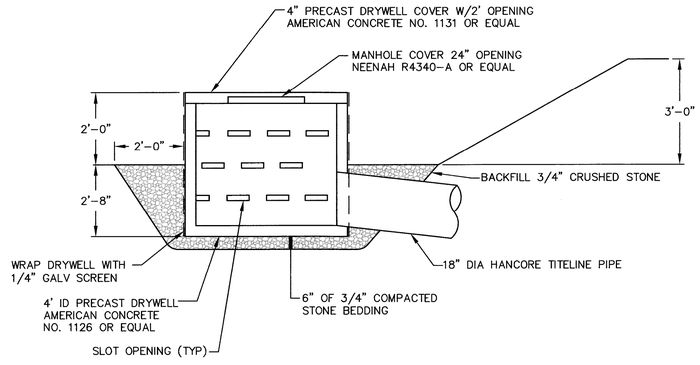
LANDFILL COVER

NTS



SECTION 2

NTS YB-26197



DRAINAGE MANHOLE

NTS

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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5	–			– –								– –						
4	–			– –								– –						
3	–			2/12/07		UPDATED PER MEDEP COMMENTS						– –						
2	–			10/6/06		SUBMITTED TO MEDEP	GHC					– –						
1	–			8/24/06	P	SUBMITTED TO CLIENT	RBC					– –						

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 04011.04

DRN	DRD	8/11/06
CHKD	GHC	8/11/06
APPVD		– –

ISSUE CODE
P – Preliminary
B – Bids
C – Construction
ASB – As Built
SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: YB-26199 B1

EAST OPERATION

DOLBY III LANDFILL
CELL 15 CONSTRUCTION
CELL 14 CLOSURE
SECTIONS & DETAILS

JOB NO. _____
FILE NO. _____
LOC. NO. _____

YB-26199
SHEET 2 OF 2

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KATAHDIN PAPER COMPANY, LLC
EAST MILLINOCKET, MAINE
DOLBY III LANDFILL
CELL 16 CONSTRUCTION

SME

Sevee & Maher Engineers, Inc.

Waste Management and Hydrogeologic Consultants

Cumberland Center, Maine

STATE OF MAINE PETER MAHER No. 4707 LICENSED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
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5	-			- -								- -						
4	-											- -						
3	-											- -						
2	-											- -						
1	-		P	7/23/08		SUBMITTED TO MEDEP	LLC	[illegible]				- -						

SME

Sevee & Maher Engineers, Inc.

4 Blanchard Road P.O. Box 85A

Cumberland Center, ME 04021

JOB NO. 08035.05

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		

ISSUE CODE
- P - Preliminary
- B - Bids
- C - Construction
- ASB - As Built

SCALE NONE

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: COVERSHT.DWG

EAST OPERATION

DOLBY III LANDFILL
CELL 16 CONSTRUCTION
COVER SHEET

JOB NO.
FILE NO.
LOC. NO.

SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
DATE		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
	25	CONTOUR LINES
	INV 25.56	SPOT ELEVATION (INVERT ELEVATION)
		EXISTING GROUND
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.
		PROPERTY LINE OR R.O.W.
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE
	0+00 1+00	CONSTRUCTION BASELINE
		BOUNDARY LINE (State, County, Municipality)
		SURVEY MONUMENT
		SURVEY CONTROL
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE
		MAPPED WETLAND
		GAS VENT
		GAS VENT (CAPPED)
		CLEAN OUT STRUCTURE
		CULVERT
		RAILROAD
		SLOPE INCLINOMETER
		VIBRATING WIRE SETTLEMENT CELL
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT
		VERTICAL DISPLACEMENT MONUMENT
		LIQUID SETTLEMENT GAGE

EXISTING	PROPOSED	
		DRAINAGE COURSE (WITH DIRECTION)
		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		FENCE LINE (WOOD)
		FENCE LINE (WIRE)
		STONE WALL
		RETAINING WALL
		GUARD RAIL
		BUILDING AND STRUCTURES
	2 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
TOP OF SLOPE 2:1	TOP OF SLOPE 2:1	SLOPES (WITH SLOPE RATIO)
		EDGE OF ROAD
	F	CUT OR FILL LINE
		BITUMINOUS PAVEMENT
		CONCRETE
B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
TP-12	TP-12	TEST PIT AND NUMBER
SW-12	SW-12	SURFACE WATER SAMPLE LOCATION
		GAS EXTRACTION WELL
		MANHOLE
		CATCH BASIN
		WATER OR GAS VALVE
		HYDRANT
		AIR RELEASE VALVE
		SURGE RELEASE VALVE
		UTILITY POLE
		LIGHT POLE

EXISTING	PROPOSED	
	UG	UNDERGROUND GAS MAIN
	UT	UNDERGROUND TELEPHONE LINE
	UE	UNDERGROUND ELECTRICAL LINE
	OE	OVERHEAD ELECTRICAL LINE
	OT	OVERHEAD TELEPHONE LINE
	12" SS	SANITARY SEWER
	8" FM	FORCE MAIN
	8" W	WATER MAIN
	12" SD	STORM DRAIN
	8" UD	UNDERDRAIN
	6" PD	PERIMETER DRAIN
	6" LT	LEACHATE TRANSPORT
	6" LC	LEACHATE COLLECTION
	6" LD	LEAK DETECTION
	6" G	GAS COLLECTION
		REDUCER
		MECHANICAL CAP OR PLUG
		COUPLING
		BEND
		TEE
		PIPE TO BE ABANDONED
		RISER PIPE & INLET GRATE
		STORM GRATE
		DRAINAGE INLET STRUCTURE
		UNDERDRAIN SUMP
	SF	SILTATION FENCE
	CLL	CLEARING OR CONSTRUCTION LIMIT LINE

ACCMP	ASPHALT COATED CMP
ACP	ASBESTOS CEMENT PIPE
AC	ACRE
AGG	AGGREGATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARMH	AIR RELEASE MANHOLE
ASB	ASBESTOS
ASP	ASPHALT
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AZ	AZIMUTH
BCCMP	BITUMINOUS COATED CMP
BM	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
BV	BALL VALVE
CB	CATCH BASIN
CEN	CENTER
CEM LIN	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CS	CURB STOP
CTR	CENTER
CU	COPPER
CY	CUBIC YARD
D	DEGREE OF CURVE
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA OR ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EG	EXISTING GROUND OR GRADE
ELEC	ELECTRIC
EL	ELEVATION
ELB	ELBOW
EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
FG	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HYD	HYDRANT
ID	INSIDE DIAMETER
IN OR "	INCHES
INV	INVERT
INV EL	INVERT ELEVATION
LB	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LF	LINEAR FEET
LOC	LOCATION
LT	LEACHATE TRANSPORT
MH	MANHOLE
MJ	MECHANICAL JOINT
MATL	MATERIAL
MAX	MAXIMUM
MFR	MANUFACTURE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/F	NOW OR FORMERLY
NO OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PD	PERIMETER DRAIN
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PT	POINT OF TANGENT
PERF	PERFORATED
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SMH	SANITARY MANHOLE
ST	STREET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
UD	UNDERDRAIN
V	VOLTS
VA TEE	VALVE ANCHORING TEE
VERT	VERTICAL
WG	WATER GATE
W/	WITH
W/O	WITHOUT
YD	YARD

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO.

ACCESS ROAD 3 YB-26160

DRAWING WHERE SECTION APPEARS

DETAIL TITLE

MANHOLE SEE DWG C-300

DRAWING WHERE DETAIL APPEARS

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

MATERIAL SPECIFICATIONS:

COMMON BORROW – MDOT SPECIFICATION 703.18

SCREENED TILL – SHALL BE EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. SCREENED TILL SHALL BE GLACIAL TILL FREE OF FROZEN MATERIALS, PERISHABLE RUBBISH, PEAT, ORGANIC MATER, LARGE ROCK FRAGMENTS, OR OTHER UNSUITABLE MATERIAL AND SHALL BE SCREENED TO LESS THAN 4" IN DIAMETER WITH GREATER THAN 20 PERCENT FINES. THE FINAL SURFACE OF THE SCREENED TILL SHALL BE FREE FROM PROTRUDING ROCKS GREATER THAN 3" IN DIAMETER.

SAND – THE DRAINAGE SAND SHALL BE AGGREGATE FREE OF ORGANIC MATTER, DEBRIS, AND ROCK FRAGMENTS LARGER THAN 1 INCH IN DIAMETER. SAND SHALL MEET A GRADATION AND HYDRAULIC CONDUCTIVITY REQUIREMENT AS FOLLOWS:

a. SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE
1/4"	60 – 100
#40	0 – 50
#200	0 – 7

b. REMOLDED HYDRAULIC CONDUCTIVITY (ASTM D 5084–90) MAXIMUM $\geq 1X10^{-3}$ cm/sec

3/4" STONE – THE PIPE BEDDING MATERIAL SHALL BE 3/4–INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

COMPACTION – DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

6" PERFORATED HDPE UNDERDRAIN PIPE – SDR 21 – HDPE PIPE JOINTS SHALL BE BUTT–FUSION WELDED OR ELECTROFUSION COUPLED.

12" UNDERDRAIN/LEACHATE TRANSPORT PIPE – SOLID HANCOR TITELINE

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

SEED:	
TALL FESCUE	59%
RED FESCUE	25%
RED TOP	5%
LADINO CLOVER	3%
ANNUAL RYEGRASS	8%

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION – MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

STATE OF MAINE LICENSED PROFESSIONAL ENGINEER

REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-			- -								- -						
5	-			- -								- -						
4	-			- -								- -						
3	-											- -						
2	-											- -						
1	-		P	7/23/08		SUBMITTED TO MEDEP						- -						

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

JOB NO. 08035.05

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: SYMSHT

EAST OPERATION

DOLBY III LANDFILL
CELL 16 CONSTRUCTION
SYMBOLS AND ABBREVIATIONS

JOB NO.
FILE NO.
LOC. NO.

C-100