MAY 12 200

Municipality/Organization: Town of Rockport

EPA NPDES Permit Number: MAR041217

MaDEP Transmittal Number: W036169

Annual Report Number
& Reporting Period: No. 2: March 04-March 05 (03)

NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: John Tomasz, P.E. Title: DPW Director

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: John M. Tomasz

Printed Name: JOHN M. TOMASZ

Title: DPW DIRECTOR

Date: 5/10/05

The Town of Rockport has successfully implemented or begun implementation of several Measurable Goals noted in its Notice of Intent. Prior to developing its Comprehensive Stormwater Management Program, including Measurable Goals, the Town had an assessment performed of current activities, programs, and regulations that could support the NPDES Phase II Stormwater program. This assessment became the basis for modifying current activities, recommending new programs, and informing town boards and departments of their obligation toward successful implementation of Rockport's Comprehensive Stormwater Program.

Rockport is pleased to present the following summary describing its success at implementing the second year's Comprehensive Stormwater Management Program.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
PE-1	Storm water Brochure	Department of Public Works	Y1-Y5: Develop and mail one (1) brochure per year in the Consumer Confidence Report to residents and industries in Rockport.	The Consumer Confidence Report continues to be distributed and made available at public offices and the website: http://www.town.rockport.ma.us/ for viewing.	The Town of Rockport expects to continue this program.
PE-2	Provide stormwater information at Town buildings	Department of Public Works Chamber of Commerce	Y1-Y5: Brochures will be available in the Chamber of Commerce and Town Hall	The Consumer Confidence Report continues to be available at public offices for viewing.	The Town of Rockport has a disk containing EPA fact sheets and other stormwater education brochures. Relevant publications will be printed, copied, and distributed.
PE-3	Stormwater Editorial	Department of Public Works	Y1-Y5: Print one (1) editorial in the Gloucester Daily Times each year.	The year 2 goal was not met.	The Town of Rockport will prepare an editorial or press release.
PE-4	Pet Waste	Department of Public Works	Y1-Y5: Post signs at public park lands and supply bags for pet owners to properly dispose of waste. Enforce leash law and exclusion of pets from resource areas during the summer.	Signs have been posted for proper disposal of pet waste and leash laws. Plastic bags are available for public use. Town of Rockport regulations applicable to public beaches and parks are available for public viewing on the Town website.	The Town of Rockport expects to continue this program.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
PP-1	Involve Public Schools	High School Science Dept./ Allyson Bachta and Eric Sabo	Y2: Stormwater presentation to high school science class and environmental sampling field trip to local water body. Conduct necessary planning for biology and environmental science projects incorporating stormwater issues. Y3-Y5: Implement stormwater projects in biology and environmental science classes.	The science department was contacted. The science department held a field trip to investigate, sample and report on the Mill Brook. Samples were tested for fecal coliform and total coliform.	The science department will have this field trip as an annual event.
PP-2	Incorporate Stormwater into Public Meetings	Department of Public Works	Y1: Discuss final Stormwater Management Plan (SWMP) at Spring Town Meeting. Y2-Y5: Present updates to the SWMP. Continue to invite stormwater discussion at one (1) meeting per year.	Stormwater Management Plan was announced at the DPW Commissioners meeting (open to the public.) The Town of Rockport has a complete *Stormwater Management Plan*, August 2000. Copies are available for review by town departments and the public.	The Town of Rockport will continue to present updates to the SWMP and invite storm water discussion at public meetings on the Storm water Management Plan.
PP-3	Stencil Storm Drains	Department of Public Works	Y2: Identify potential labor sources (scouts, etc.). DPW will facilitate storm drain stenciling effort in the downtown area. (50% complete) Y4: Continue effort in downtown area (100% complete)	Contact was made with youth groups and students to start and continue the stenciling program. The storm drains stenciled are at 10% complete in the downtown area.	The groups and students will continue the program for years 3,4 and 5, with Town direction.

2. Public Involvement and Participation (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
PP-4	Involve Watershed Protection Committee	John Tomasz, Chairman (Members from several Town departments)	Y1-Y5: Discuss stormwater issues at quarterly meetings.	The Watershed Protection Committee discussed the future of the Storm Water Management Plan and other issues once every month.	The Watershed Protection Committee will continue to discuss the future of the Storm water Management Plan and other issues once every month.
PP-5	Poster Contest	High School Science Dept./ Allyson Bachta and Eric Sabo	Y1: Develop concept and approach educators Y2: Pilot poster contest as a part of science class Y3-5: Modify and continue poster contest	The Pilot poster contest did not occur this year.	Contact will be made with the high school science department regarding the poster contest.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
ID-1	Evaluate Eligibility Criteria	Department of Public Works	Y1: Create map of critical habitats and historic properties as described in the General Permit Part 1.B. Y2: Once outfalls are mapped in these areas (see ID-2), consult applicable services and departments (e.g. Fish and Wildlife Service, National Marine Fisheries Service, State Historic Preservation Officer.) Y3: Take appropriate measures for any unauthorized discharges by the General Permit.	An outfall map was created as part of the August 2000 Stormwater Management Plan. (This map is attached as an appendix at the end of this report.) An ex-member of the Conservation Commission is knowledgeable about the critical and historical habitats, however the Town has not mapped the locations onto the outfall map.	The Town will map the critical habitats and take appropriate measures for any unauthorized discharges.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
ID-2	Eliminate Illicit Discharges	Department of Public Works	Y1: Develop Illicit Discharge Detection and Elimination Plan as described in General Permit Part II.B.3. Y2-Y5: Implement plan.	Town of Rockport has begun installing IDDE required program practices. o The DPW conducted wet and dry weather testing to determine any source of pollution. This is an ongoing program. o The Town has an ongoing smoke-testing program to trace illicit discharges into the storm drain system. This program has been ongoing and continues today.	The DPW will continue to implement the IDDE program.
ID-3	Develop and Implement Illicit Discharge By-Law	Department of Public Works	Y1: Develop draft bylaw prohibiting non-stormwater discharges into the storm sewer and providing for appropriate enforcement procedures. Y2: Present bylaw at Town meeting and finalize. Y3-Y5: Implement and enforce bylaw.	The Town has compiled bylaws from other towns' bylaws. The bylaws are currently 98% complete but have not been presented at Town meeting.	The Town of Rockport will finalize a bylaw prohibiting non-storm water discharges into the storm sewer. The Town will also seek to present the bylaw at Town meeting. Once the bylaw is finalized at Town meeting the Town will implement and enforce the bylaw.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
ID-4	Educate Citizens	Department of Public Works	Y2: Notify public of Illicit Discharge Detection and Elimination Plan. Y3: Notify public of upcoming Illicit Discharge Bylaw. Y4: Notify public of new bylaw in place.	The Town held a public meeting in year 2 to discuss the IDDE Plan. Topic of discussion was tracking sources of pollution.	Rockport will notify the public via local cable access, public meeting, and the website of the IDDE plan.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
CS-1	Develop and Implement Construction Site Runoff Control Program	Department of Public Works	Y1: Develop Construction Site Runoff Control Program as described in General Permit Part II.B.4. Y2-Y5: Implement plan.	The bylaws for ID-3 include bylaws for Construction Site Runoff Control Program. These bylaws are 98% complete and are awaiting approval at Town meeting.	After the bylaws are finalized at Town meeting the Town will begin Implementing the bylaws.
CS-2	Develop and Implement Erosion and Sediment Control Bylaw	Department of Public Works	Y1: Research bylaw requirements (General Permit Part II.B.4 and MA DEP Stormwater Management Standard 8) and compare to existing town regulations. Y2: Modify existing regulations and/or develop bylaw. Y3: Present bylaw at Town meeting and finalize. Y4-Y5: Implement bylaw.	The bylaws for ID-3 include bylaws for Erosion and Sediment Control Bylaw. These bylaws are 98% complete awaiting Town meeting.	The Town of Rockport will present and finalize the bylaw at Town meeting.

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
PC-1	Develop, Implement, and Enforce Post-Construction Runoff Control Program	Department of Public Works	Y1: Develop Post-Construction Site Runoff Control Program as described in General Permit Part II.B.5 and MA DEP Stormwater Management Standards 2, 3, 4, and 7. Y2 -Y5: Implement plan.	The bylaws for ID-3 include bylaws for Post-Construction Runoff Control Program. These bylaws are 98% complete awaiting Town meeting.	The Town of Rockport will present and finalize the bylaw at Town meeting and begin to Implement the bylaws.
PC-2	Develop, Implement, and Enforce Post-Construction Runoff Bylaw	Department of Public Works	Y1: Research Post Construction Runoff bylaw requirements (General Permit Part II.B.5 and MA DEP Stormwater Management Standard 2, 3, 4, and 7) as part of the Post-Construction Runoff Control Program. Y2: Modify existing regulations and/or develop bylaw. Y3: Present bylaw at Town meeting and finalize. Y4: Implement bylaw. Y5: Review effectiveness of bylaw and enhance if necessary.	The bylaws for ID-3 include bylaws for Post-Construction Bylaw. These bylaws are 98% complete awaiting Town meeting.	The Town of Rockport will present and finalize the bylaw at Town meeting.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
GH-1	Employee Training Program	Department of Public Works	Y1-Y5: Hold one good housekeeping workshop per year at DPW.	The DPW director attended at least 1 NPDES information/training session with Vortechnics for particle settling catch basins.	The Town of Rockport expects to continue the training program.
GH-2	Storm Drain Stenciling	Department of Public Works	Y1: DPW will stencil storm drains in Town (excluding downtown area) while cleaning catch basins. Y3: Re-stencil drains. Y5: Re-stencil drains.	The DPW has not initiated the storm drain-stenciling program. The DPW cleans the storm drains twice a year.	The DPW will stencil storm drains in Town.
GH-3	Beach Clean-up	Department of Public Works	Y1-Y5: DPW will clean seaweed and trash from beaches weekly in the summer.	The DPW cleans seaweed and trash from the beaches throughout the summer.	The DPW expects to continue this program.
GH-4	Catch Basin Cleaning	Department of Public Works	Y1-Y5: DPW will clean each catch basin in Town once per year.	The DPW cleans catch basins twice a year.	The DPW expects to continue this program.
GH-5	Street Sweeping	Department of Public Works	Y1-Y5: DPW will sweep every street in Town once per year. The downtown area will be swept daily in the summer.	The DPW sweeps streets in the downtown area daily in the summer. All of the streets in town are swept at least once per year.	The DPW expects to continue this program.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
GH-6	Recycling Program	Department of Public Works	Y1-Y5: Continue the Town's recycling and household hazardous waste collection programs.	The Town of Rockport Transfer Station is available to town residents. Signs are posted at the facility indicating where to leave recycling and hazardous waste products. The Transfer Station provides several services to help reduce the amount of waste produced by the community: o The Town held one hazardous waste collection day. o Four times per year, oil is collected at the Waste Water Treatment Plant to prevent it from being released into drains or the ocean. o Hazardous items such as mercury thermometers and fluorescent light bulbs are collected at the Transfer Station and disposed of properly.	The DPW expects to continue this program.
GH-7	Operation and Maintenance	Department of Public Works	Y1: Inventory maintenance activities, identify potential pollutant runoff. Y3: Identify means of reducing potential pollutant runoff, implement reductions as budget allows. Y5: Reduce pollutant runoff potential.	Permit Year 1 storm water infrastructure improvement projects included installation of catch basins and associated piping. Town completed a SWPPP (Storm water Management Plan) in 1999. No action required year 2	The Town expects to identify means of reducing potential pollutant runoff and implement reductions as the budget allows.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
GH-8	Reporting	Department of Public Works	Y1: Create a method to record stormwater management activities (e.g. catch basins cleaned, streets swept, yearly training workshops held, bylaws implemented, etc.) Y1-Y5: Begin recording all stormwater management activities. Provide MADEP and EPA with yearly report as described in the General Permit, Part II.E.	The Town of Rockport maintains a log of storm water management activities. Such as: This maintenance log is updated on an ongoing basis.	The Town of Rockport currently records storm water management activities and will continue this practice.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)-

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2	Planned Activities – Permit Year 3
TMDL-1	Check Current Impairment List	Department of Public Works	Y1: There are no completed TMDL studies for receiving waters in Rockport. Y2-Y5: Reference Part II of the current Massachusetts Integrated List of Waters for newly listed water bodies with completed TMDL studies in which Rockport SW outfalls directly or indirectly discharge.	Rockport outfalls do not exceed TMDL limits.	

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Town of Rockport is currently developing a source water protection plan.
Sampling and analysis has not been performed.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and $)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	

Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	

The following data will be obtained or verified for each outfall:

Structure Type

Size

Material

Condition

Observable Flow

Signs of Illicit Connections

GE&A will attempt a visit to each location once, on the assumption that outfall location survey and inspection can be conducted simultaneously. If an outfall is inaccessible, this fact will be noted.

As required by the Phase II Stormwater Program, GE&A will provide the Town of Abington a table listing all outfalls with an outfall ID #, location, and receiving water body. In addition, information regarding the outfall will be documented along with photographs of the outfall.

Deliverable: A tabulated inventory of outfalls, with photographs and inspection summaries for each outfall.

6.3.6 Identify Potential Sources of Illicit Discharges

In Phase 1, Guertin Elkerton & Associates, Inc. prepared a map of the Town of Abington showing receiving bodies of water and drainage basins and identified potential "hot spots" using land use activities and local knowledge. In Task 6.3.5 dry weather flows from outfalls will be observed for odor, color, turbidity, floatable matter, stains, vegetation, and damage to outfall structure. Flows may also be sampled for the presence of fecal coliform.

Since the number of flowing outfalls (if any) is unknown, GE&A recommends a budget be set aside for sampling and other procedures in an attempt to identify and remove the source of the illicit discharge. Other procedures may include manhole and up the pipe storm drain inspections, dye testing, video, inspection, and smoke testing. Efforts beyond what is feasible within the budget will be described in section 6.3.7

Deliverable: A report documenting the attempts to identify and eliminate sources of illicit discharge.

6.3.7 Plan to Follow-Up on Dry Weather Flows

Guertin Elkerton & Associates, Inc. proposes to prepare a plan with recommendations and costs for additional follow-up to investigate sources of dry-weather flows. The plan will serve as a resource document for the Town to use when future dry weather flows are identified.

The plan will include a description of the following:

- Inspection and documentation procedures
- Sampling and analysis procedures to verify if dry weather flows are contaminated
- Procedures and estimated costs to pinpoint illicit discharges.
- Procedures include:
- Notification process
- Manhole and up the pipe storm drain inspections
- Dye testing
- Video inspection
- Smoke testing
- Summary of identified illicit discharges
- Specific tasks recommended for follow-up, and
- An estimated implementation costs.

Guertin Elkerton & Associates, Inc. proposes to review the plan with appropriate local officials. GE&A will present the plan and the results of mapping and outfall inspection at a public meeting. Five copies of the plan will be provided to the Town.

Deliverable: A plan administering courses of action for the identification of illicit discharges not addressed in 6.3.6 and in the future. Return Hardware and Software used for GPS location and feature attribute collection.

6.3.8 Public Outreach and Education

Guertin Elkerton & Associates, Inc. proposes to facilitate a stormwater work session with relevant Town departments. The NPDES Phase II Comprehensive Stormwater Management Program requires the participation of multiple Town departments in order to be successful. The Board of Selectmen, Department of Public Works, Board of Health, Conservation Commission, Planning Board, Emergency Response, and other Town departments play critical roles in insuring the protection of local water quality.

GE&A will review Abington's Comprehensive Stormwater Management Program with emphasis on the Town's Measurable Goals, schedule of implementation, and responsible departments.

Literature and brochures reviewing stormwater best management practices (BMPs) prepared by environmental agencies or associations will be distributed at the work session. Departments can copy and distribute to the public at large.

Deliverable: Workshops and literature reviewing stormwater best management practices.

6.3.9 Illicit Discharge and BMP By-Laws

Guertin Elkerton & Associates, Inc. proposes to review with the Town, the Town's desire to secure professional assistance in the development of local by-laws and regulations prohibiting illicit discharges into the storm sewer system. If GE&A's assistance is desired, GE&A will submit a proposed budget reflecting the requested level of services.

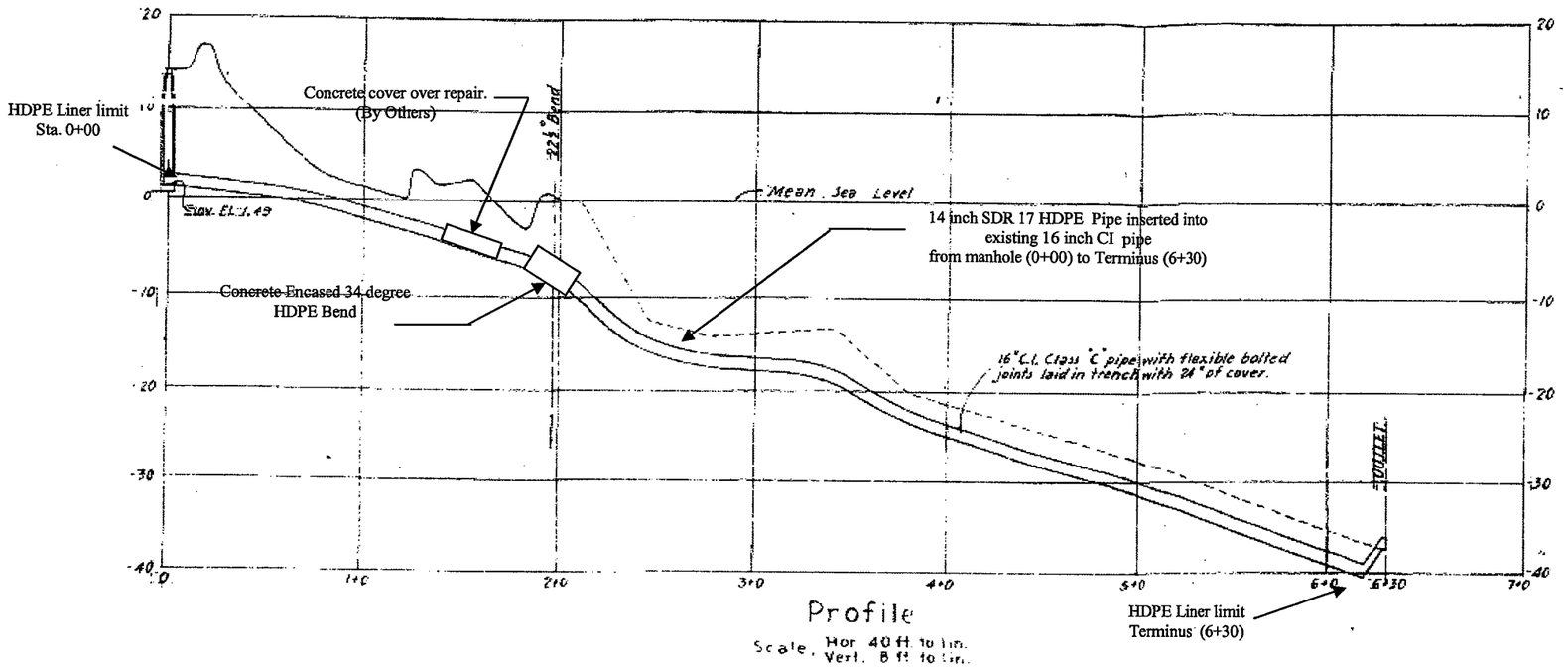
6.3.10 Annual Report

Guertin Elkerton & Associates, Inc. proposes to assist the Town in the preparation and submission of Abington's Stormwater Annual Report to the Environmental Protection Agency and the Massachusetts Department of Environmental Protection due annually on May 1.

Deliverable: A report submitted to both MADEP and EPA describing the Town of Abington's success at implementing the Comprehensive Stormwater Management Program.

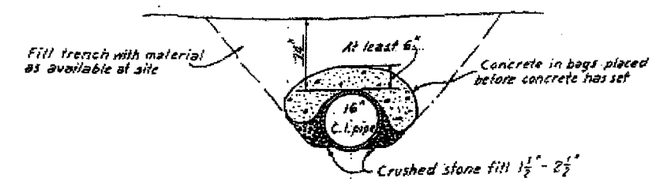
OUTFALL

MAY 12 2005

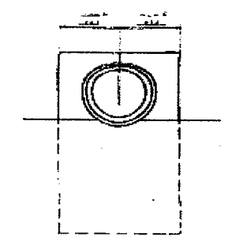


Profile

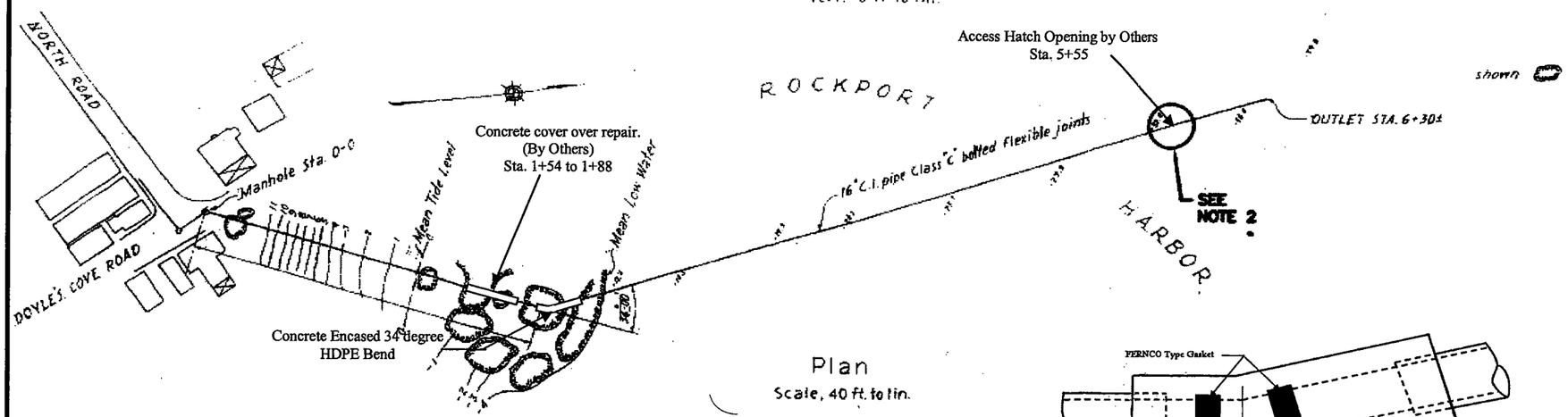
Scale, Hor. 40 ft. to 1 in.
Vert. 8 ft. to 1 in.



TYPICAL SECTION OF PIPE IN TRENCH
Scale, ½ in. to 1 ft.

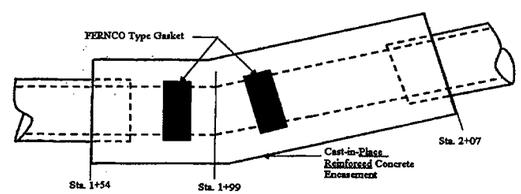


Elevation A-A

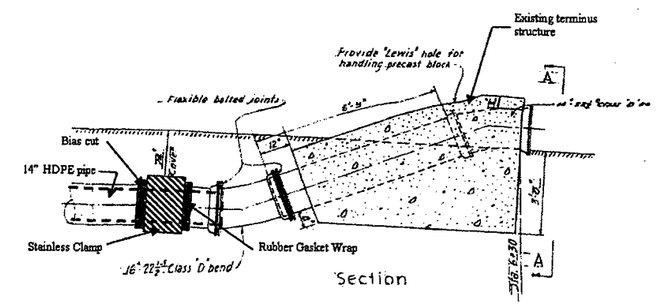


Plan

Scale, 40 ft. to 1 in.



Bend Detail
Plan View



Outlet Detail
Elevation View

NOTE:
1. EXISTING CONDITIONS TAKEN FROM OCEAN SEWER OUTLET DRAWING DATED AUGUST 1938, BY METCALF AND EDDY ENGINEERS.

2. APPROXIMATE LOCATION OF 316 STEEL ACCESS HATCH, AS REFERENCED IN APPENDIX B OF THIS BID PACKAGE.

J.F. WHITE CONTRACTING COMPANY	SCALE 1/2 SIZE DRAWING	WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING	AS-BUILT Outfall Pipe December 31, 2004	MWH Boston, Massachusetts	TOWN OF ROCKPORT, MASSACHUSETTS WATER POLLUTION CONTROL PLANT OUTFALL REHABILITATION	CONTRACT NO. FY04-10.01 OUTFALL EXISTING CONDITIONS PLAN, PROFILE, DETAIL AND SECTIONS	SHEET C-1