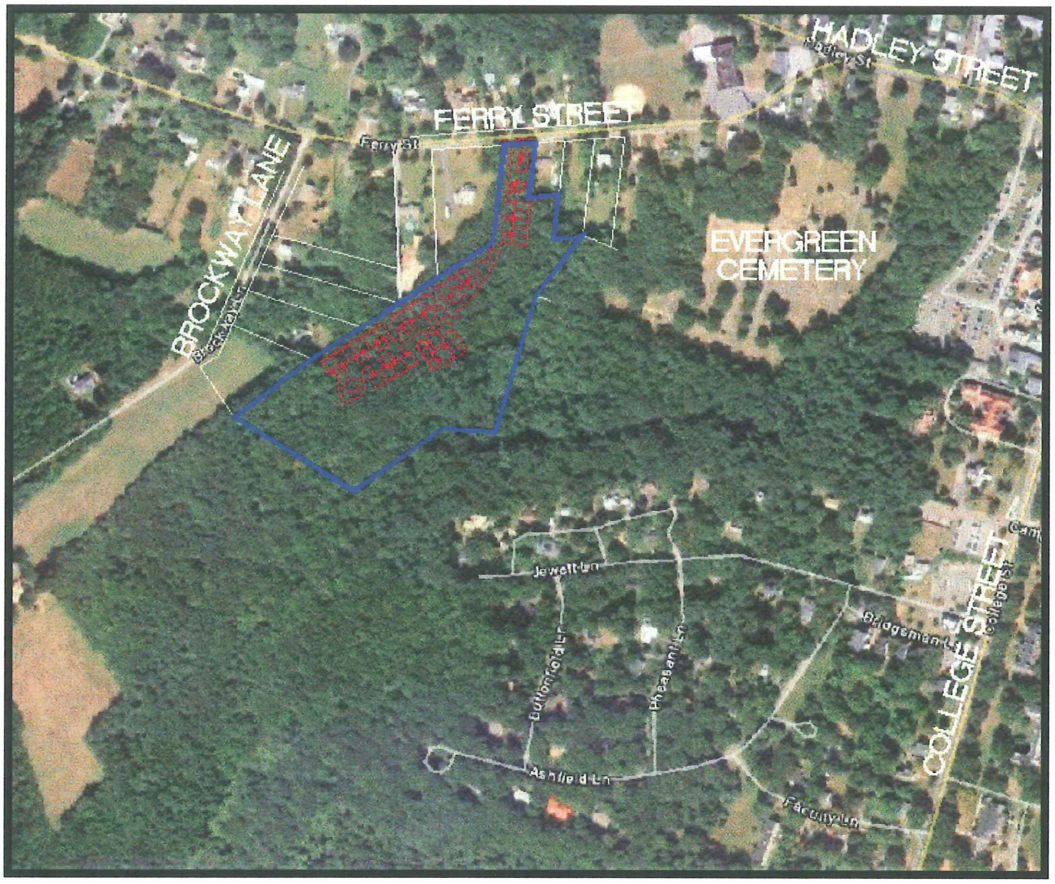
STORMWATER MANAGEMENT REPORT

RIVERCREST CONDOMINIUMS
FERRY STREET
SOUTH HADLEY, MA



Prepared for:
Rivercrest Condominiums LLC
c/o Craig Authier
1421 Granby Road
Chicopee, MA 01020

Prepared by:
HERITAGE SURVEYS, INC.
Professional Surveyors and Engineers

241 College Highway & Clark Street
Post Office Box 1
Southampton, MA 01073
(413) 527-3600

COMMONWEALTH OF MASSACHUSETTS
RICHARD P. WEISSE
No. 9623
REGISTERED PROFESSIONAL ENGINEER

Richard P. Weisse

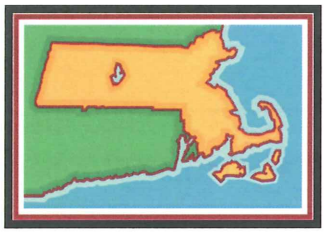
HSI No: 5560-100113
April 15, 2011

EXHIBIT TABLE

EXHIBIT A

- CHECKLIST FOR STORMWATER REPORT
- STORMWATER MANAGEMENT STANDARDS
- DRAINAGE CALCULATION SUMMARY
- EXISTING & POST CONSTRUCTION DRAINAGE AREA PLANS
- HYDROCAD DRAINAGE REPORT
- SOIL TESTING LOGS
- RECHARGE CALCULATION
- TSS REMOVAL CALCULATION WORKSHEET
- MASTEP TECHNOLOGY REVIEW
- STORMCEPTOR DESIGN SUMMARY SHEETS

EXHIBIT B



- LOCUS MAP
- FLOOD INSURANCE MAP
- NATURAL HERITAGE MAP
- SOIL MAP

EXHIBIT C

- EROSION AND SEDIMENTATION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN & INSPECTION LOG
- OPERATION & MAINTENANCE OF STORMWATER SYSTEM AND LOG FORMS
- SUMMARY REPORT OF WETLAND DELINEATION

HERITAGE SURVEYS, INC.

Professional Surveyors and Engineers
241 College Hwy & Clark St, P O Box 1
Southampton, Massachusetts 01073-0001

Bruce A. Coombs, President
Professional Surveyor, MA, CT & VT
E-mail: bruce@heritagesurveys.com

Telephone (413) 527-3600
Facsimile (413) 527-8280
Website: heritagesurveys.com

April 15, 2011
HSI Job # 5560-100113

STORMWATER MANAGEMENT STANDARDS

STANDARD #1: UNTREATED STORMWATER:

- The project is designed so that new stormwater point discharge does not discharge untreated stormwater into, or cause erosion to, wetlands and waters. The stormwater management system consists of deep sump/hooded catch basins, Stormceptor 900, forebay, infiltration basin, roof runoff drywell and yard drywells. The outlet from the infiltration basin leads to a rip-rap area, rip rap plunge pool with a level spreader.

STANDARD #2: POST-DEVELOPMENT PEAK DISCHARGE RATES:

- The project as designed will not increase off-site flooding impacts from the 10-yr, 24-hr storm.

STANDARD #3: RECHARGE TO GROUNDWATER:

- The forebay, basin, and drywells will allow for recharge.

STANDARD #4: REMOVE 80% TOTAL SUSPENDED SOLIDS (TSS):

- Stage construction so that disturbed areas are not greater than necessary for construction to proceed. (nonstructural practice)
- The best management practices treatment train consists of deep sump/hooded catch basins, Stormceptor 900, forebay, and infiltration basin, see TSS removal table.
- Operation and Maintenance Plan prepared to ensure BMPs are maintained as designed.

STANDARD #5: HIGHER POTENTIAL POLLUTANT LOADS:

- The project is not classified as having a higher potential pollutant loads.

STANDARD #6: PROTECTION OF CRITICAL AREAS:

- The project is not located within a critical area.

STANDARD #7: REDEVELOPMENT PROJECT:

- This project is not a redevelopment project.

STANDARD #8: EROSION/SEDIMENT CONTROL:

- See Erosion and Sediment Control Plan and Stormwater Pollution Prevention Plan
- Stone tracking pad shall be installed and maintained at any point where construction traffic goes from an unpaved area to a paved area. From the paved road to the unpaved travel way to access the site.
- Prevent off-site vehicle tracking of sediment. Clean and sweep up any debris tracked, dumped or spilled off-site.

STANDARD #9: OPERATION/MAINTENANCE PLAN:

- See Operation & Maintenance of Stormwater System

STANDARD #10: ILLICIT DISCHARGE PROHIBITED:

- There shall be no illicit discharge to the stormwater management system, including wastewater discharges and discharges of stormwater contaminated by contact with process wastes, raw materials, toxic pollutants, hazardous substances, oil or grease as stated within the Operation & Maintenance of Stormwater System document.

Rivercrest Condominiums
Ferry Street
South Hadley, MA 01075
HSI Job #5560-100113

Summary of Pre & Post Development Drainage Calculations

The drainage report was prepared using the computer program HydroCAD version 9.10 by Applied Microcomputer Systems. The report is broken into three sections. The first section of the drainage calculations (pages 1-39) is for the 2 year storm event for the existing conditions (pages 1-4) and post development conditions (pages 5-39). The second section of the drainage calculations (pages 1-39) is for the 10 year storm event for the existing conditions (pages 1-4) and post development conditions (pages 5-39). The third section of the drainage calculations (pages 1-39) is for the 100 year storm event for the existing conditions (pages 1-4) and post development conditions (pages 5-39). The existing drainage subcatchment are labeled with ES. The post development drainage subcatchments are labeled as PS. The catch basins are called pond 1-CB - 8-CB and 9-CBDB (double catch basin). The drain manholes are called pond 10-DMH1 - 80DMH. The Stormceptor is called pond 81PS1. The forebay of the basin is called pond 90-FB, basin is pond 100-P.

The developed drainage area is within the hydrologic group "A" soils (Windsor) and hydrologic group "C" soils (Amostown), according to the Soil Map-Hampshire County Massachusetts, Central Part, USDA Natural Resources Conservation Services (see enclosed Map). Soil testing has been performed by Mark P. Reed a certified soil evaluator on December 9, 2010. (see enclosed soil logs). The soils were classified as sand, sandy loam and fine sandy loam. The infiltration rate used for the design of the basin was 1.02 in/hr based on DEP Table 2.3.3. 1982 Rawls Rates.

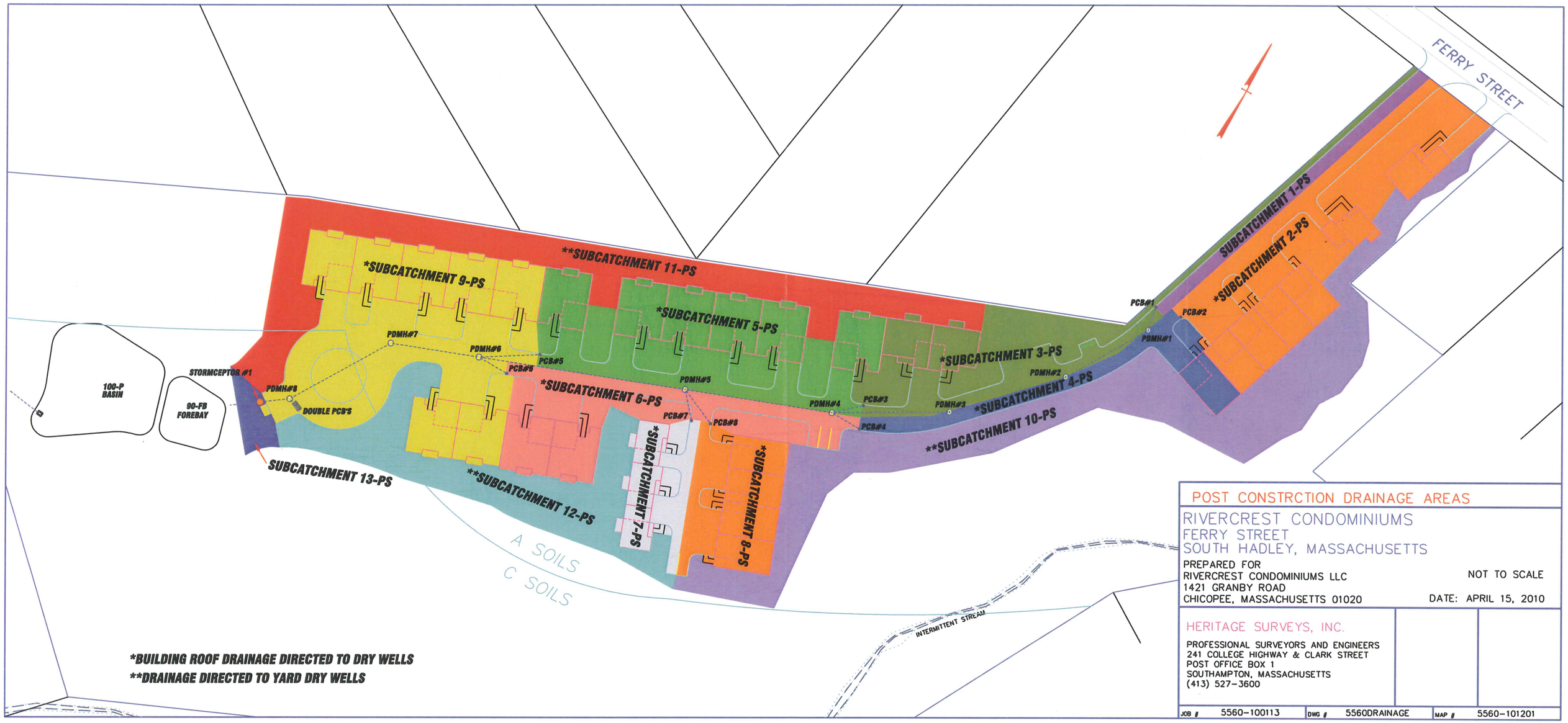
The proposed basins have been designed to have no increase in peak discharge between pre and post construction conditions for the 10 year stormevent.

Table 1: Pre & Post Drainage Calculations
2, 10, 100 Year Storms

YEAR STORM	PRE-CONSTRUCTION PEAK DISCHARGE	POST-CONSTRUCTION PEAK DISCHARGE	DIFFERENCE IN PEAK DISCHARGE
2YR	**0.0 CFS** REACH ES SUM	**0.0 CFS** POND PB1	**0.0 CFS**
10YR	**0.0 CFS** REACH ES SUM	**0.0 CFS** POND PB1	**0.0 CFS**
100YR	**0.2 CFS** REACH ES SUM	**0.9 CFS** POND PB1	**0.7 CFS**

Table 2: Basin Peak Elevation
2, 10, 100 Year Storms

STORM EVENT	PEAK ELEVATION
2 YEAR STORM EVENT	182.4 (0.4 FEET)
10 YEAR STORM EVENT	183.4 (1.4 FEET)
100 YEAR STORM EVENT	184.0 (2.0 FEET)
Bottom Basin 182 Top Basin 185	



*BUILDING ROOF DRAINAGE DIRECTED TO DRY WELLS
**DRAINAGE DIRECTED TO YARD DRY WELLS

POST CONSTRCTION DRAINAGE AREAS

RIVERCREST CONDOMINIUMS
FERRY STREET
SOUTH HADLEY, MASSACHUSETTS

PREPARED FOR
RIVERCREST CONDOMINIUMS LLC
1421 GRANBY ROAD
CHICOPEE, MASSACHUSETTS 01020

NOT TO SCALE

DATE: APRIL 15, 2010

HERITAGE SURVEYS, INC.
PROFESSIONAL SURVEYORS AND ENGINEERS
241 COLLEGE HIGHWAY & CLARK STREET
POST OFFICE BOX 1
SOUTHAMPTON, MASSACHUSETTS
(413) 527-3600

JOB #	5560-100113	DWG #	5560DRAINAGE	MAP #	5560-101201

Operation & Maintenance of Stormwater System

Name of Project: Rivercrest Condominiums
Project Location: Ferry Street, South Hadley
Assessor's Map, Parcel(s): Map 47 Parcel 76
Book: 9221 **Pages:** 295

Owner of the Stormwater System:
Ferry Street Nominee Trust and the successors as their interest may appear as owner of record of the property.

Responsible Party for Operation & Maintenance of Stormwater System
Ferry Street Nominee Trust and the successors as their interest may appear as owner of record of the property.

Financial Responsibility for Operation & Maintenance of Stormwater System:
Ferry Street Nominee Trust and the successors as their interest may appear as owner of record of the property.

Maintenance Schedule

Drainage System

All components of the drainage system shall be inspected as specified below or immediately after major storm events (a major stormevent is defined as a storm that is equal to or greater than the 2 year, 24 hour stormevent - generally 2.9 to 3.6 inches of rain in a 24-hour period) and upon evidence of malfunction. The owner shall keep the stormwater system in good working condition at all times. Inspection and maintenance procedures are described below:

Catch Basin
The catch basin shall be inspected four times a year. The catch basin shall be clean four times per year or as needed or whenever the depth of deposits is greater than or equal to one half the depth from the bottom of the invert of the lowest pipe in the basin. All material removed from catch basins shall be disposed in accordance with applicable local, state, and federal guidelines and regulations.

***Stormceptor 900 (or approved equal)**

Stormceptor Maintenance Guidelines

The performance of all storm water quality measures decrease as they fill with sediment. Although the maintenance frequency will be site specific, Rinker Materials generally recommends annual maintenance be performed or when the sediment volume in the unit reaches 15% of the total storage. This recommendation is based on several factors:

- Minimal performance degradation due to sediment build-up.
- Sediment removal is easier when removed on a regular basis (as sediment builds up it compacts and solidifies making maintenance more difficult).
- Development of a routine maintenance will be required for most applications; annual maintenance is a routine occurrence which is easy to plan for and remember.

Hydrocarbon Spills

In the event of any hazardous material spill, Rinker Materials recommends maintenance be performed immediately. Maintenance should be performed by a licensed liquid waste hauler. You should also notify the appropriate regulatory agencies as required.

Recommended Maintenance Procedure

Oil is removed through the 6" inspection/oil port and sediment is removed through the 24" diameter outlet riser pipe. Alternatively, oil could be removed from the 24" opening if water is removed from the treatment chamber, lowering the oil level below the drop pipe.

The depth of sediment can be measured from the surface of the Stormceptor with a dipstick tube equipped with a ball valve (Sludge Judge). Rinker Materials recommends maintenance be performed once the sediment depth exceeds the guideline value provided below.

Model	Sediment Depth
900	8"

No entry into the unit is required for routine maintenance of the Inlet Stormceptor or the smaller disc insert models of the In-Line Stormceptor. Entry to the level of the by-pass may be required for servicing the larger in-line models. Any potential obstruction at the inlet can be observed from the surface. The by-pass chamber has been designed as a platform for authorized maintenance personnel, in the event that an obstruction needs to be removed, drain flushing needs to be performed, or camera surveys are required.

Typically, maintenance is performed by the Vacuum Service Industry, a well established sector of the service industry that cleans underground tanks, sewers, and catch-basins. Costs to clean a Stormceptor will vary based on the size of the unit and transportation distances. If you need assistance for cleaning a Stormceptor unit, contact your local Rinker Materials representative, or the Rinker Materials Stormceptor Information Line at (800) 909-7763.

Disposal

The requirements for the disposal of material from a Stormceptor are similar to that of any other Best Management Practices (BMPs). Local guidelines should be consulted prior to disposal of the separator contents.

In most areas the sediment, once dewatered, can be disposed of in a sanitary landfill. It is not anticipated that the sediment would be classified as hazardous waste. In some areas, mixing the water with the sediment will create a slurry that can be discharged into a trunk sanitary sewer. In all disposal options, approval from the disposal facility operator/agency is required. Petroleum waste products collected in Stormceptor (oil/chemical/fuel spills) should be removed by a licensed waste management company.

**Information taken from The Stormceptor System Technical Manual*

Winter Maintenance
Snow shall not be plowed into the forebay or infiltration basin.

Forebay, Infiltration Basin
The forebay and basin shall be inspected once annually for cracking and erosion of side slopes and embankments, accumulation of sediment, condition of vegetative cover, and overall performance according to the design.

The following routine maintenance shall be completed:

- All areas in the forebay and basin, devoid of vegetation or found to be eroding shall be immediately repaired. Repairs shall include replacement of eroded soils, re-establishment and protection of vegetative cover, and immediate stabilization with erosion control measures to control erosion until stabilization occurs.
- Sediment shall be removed from the forebay areas when it reaches a thickness of 6 inches. Sediment shall be removed from the main basin areas when it reaches a thickness of 4 inches and/or as necessary for the proper functioning of the system.
- All material removed from basin and related structures shall be disposed in accordance with applicable local, state, and federal guidelines and regulations.
- Regular maintenance includes mowing, fertilizing, liming, watering, pruning, and weed and pest control.

Dry Wells
Inspect annually or more frequently as indicated by structure performance. Remove sediment when the dry well is 50% filled. Rehabilitate the dry well if it fails due to clogging.

Sweeping
Paved areas shall be swept at least two times per year, Spring and Fall. If needed an additional sweeping be performed after fall leaf debris has ceased. Routinely pick up and remove litter from the paved areas and perimeter landscape areas in addition to regular pavement sweeping. All materials swept from paved areas shall be disposed in accordance with applicable local, state, and federal guidelines and regulations.
All material removed from the catch basin, and related structures shall be disposed in accordance with applicable local, state, and federal guidelines and regulations.

Illicit Discharge
There shall be no illicit discharge to the stormwater management systems, on the entire site, including wastewater discharges and discharges of stormwater contaminated by contact with process wastes, raw materials, toxic pollutants, hazardous substances, oil or grease.

Record Keeping and Annual Reports
Records shall be maintained by owner and his successors as their interest may appear as owner of record of the property at their offices as described above and shall document all routine and emergency maintenance work performed by licensed contractors to the stormwater management system and shall bear the signature of the individual supervising the work.

Maintenance Responsibility
Rights shall be granted to Members of the South Hadley Planning Board, Conservation Commission, Highway Department and/or their agent, to enter the property for the purpose of inspection of the stormwater management system.

If the owner fails to perform required maintenance of the stormwater management system, a notification will be sent. If after 30 days from notification that the stormwater management system is not being maintained by the owner, the town shall retain the rights to perform the required maintenance at the cost to the owner and assessed penalty.

WITNESS the following signatures and seals:

_____
Company/Corporation/Partnership Name (Seal)

By: _____

_____
(Type Name)

_____
(Type Title)

COMMONWEALTH OF MASSACHUSETTS

County of Hampshire

On this _____ day of _____, 20___, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which was a Driver's License, to be the person whose name is signed on the proceeding document, and acknowledged to me that he signed it voluntarily for its stated purpose.

_____
NOTARY PUBLIC

My Commission Expires: _____

Stormwater Management System
Inspection & Maintenance Log

Stormwater Management System Rivercrest Condominiums Ferry Street South Hadley, MA		Inspector Name:
Date:		Contractor Name:
Weather:		
Inspection ❑ and/or Maintenance ❑		
Specified Inspection/Maintenance ❑		Major Storm Event Inspection/Maintenance ❑

❑ Maintenance/Cleaning Catch Basins
❑ Maintenance/Stormceptor
❑ Maintenance/Cleaning Dry Wells
❑ Maintenance/Rip-Rap Inlet/Outlet
❑ Maintenance/Cleaning Forebay
❑ Maintenance/Cleaning Basin
INSPECTION & MAINTENANCE NOTES

HERITAGE SURVEYS, INC.

Professional Surveyors and Engineers
241 College Hwy & Clark St, P O Box 1
Southampton, Massachusetts 01073-0001

Bruce A. Coombs, President
Professional Surveyor, MA, CT & VT
E-mail: bruce@heritagesurveys.com

Telephone (413) 527-3600
Facsimile (413) 527-8280
Website: heritagesurveys.com

December 1, 2010
HSI Job # 5560-100113

Rivercrest Condominiums
Ferry Street
South Hadley

EROSION AND SEDIMENT CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

NOTE: This document shall be retained onsite at the project location.

Project Name and Location:
Rivercrest Condominiums
Ferry Street
South Hadley, MA 01075
Assesors Map 47 Parcel 76

Owner Name and Address:
Ferry Street Nominee Trust
1421 Granby Road
Chicopee, MA 01020
(413) 537-4231

Applicant Name and Address:
Rivercrest Condominiums
c/o Craig Authier
1421 Granby Road
Chicopee, MA 01020
(413) 537-4231

Contractor Name and Address:
Marion Excavating Corp.
c/o Todd Marion
510 New Ludlow Road
South Hadley, MA 01035
(413) 536-1267

Narrative Description:

Existing Site Description: The existing site is a vacant wooded parcel of land located on the southerly side of Ferry Street, approximately 700 feet east of the intersection of Brockway Lane in South Hadley. The parcel of land is 10.831 acres of land. There is an annual brook which travels along the south boundary off the parcel. There are two intermittent streams, one on the property along the south easterly portion of the lot and the other in located off the property in the westerly end of the property. There are bordering vegetated wetland along the south easterly boundary and the northwest corner of the property. The abutting properties are comprised of residential neighborhoods and Evergreen Cemetery.

Project Description: The proposed project involves the construction of thirty one condominium units. The units will be accessed from Ferry Street with a proposed roadway traveling in a south westerly direction ending in a cul-de-sac. There will be one side street off the main roadway traveling in a southerly direction. There are five different styles of units, a two story unit with one car garage, one story unit with one car or two car garages. The development area of the project includes, the roadway, condominium units, site grading and the grading for the stormwater basin, which totals approximately 4.9 acres.

Stormwater Runoff/Management

The stormwater management for the proposed project consists of a series of hooded deep sump catch basins, which will discharge stormwater to a forebay then to an infiltration basin. The infiltration basin has an outlet control structure with a deep sump. The outlet control structure will discharge to a plunge pool area and then to a level spreader.

Install Sediment Control Measures

- Stone tracking pad shall be installed and maintained at any point where construction traffic goes from an unpaved area to a paved area. From the paved road to the unpaved travel way to access the site.
- Prevent off-site vehicle tracking of sediment. Clean and sweep up any debris tracked, dumped or spilled off-site.
- Avoid disturbing vegetation on steep slopes or other critical areas and locate material stock piles, borrowed areas, and access roads away from critical areas.
- Sedimentation barriers shall be installed per the plan prior to the start of construction. All sedimentation barriers shall be maintained in good working condition until the entire site is stabilized. No work or equipment are allowed beyond the limits of the sedimentation barriers.

Project Construction Sequencing

- The project shall be constructed as follows.
    - Placement of Sedimentation barrier.
    - Removal of trees within area of proposed limits of development.
    - Construction of the roadway and utilities.
    - The stormwater infiltration basin shall be constructed prior to the conveyance of stormwater to the roadway drainage system.
    - Construction of buildings
    - Stabilization of site by loam and seeding.
    - Restoration of basin surface to ensure construction related deposition and or debris has not altered the design function.
    - Clean catch basins after stabilization of site to remove any accumulation of construction related deposition of sediment or debris.

Inspections

- Sedimentation barriers and stone tracking pad shall be inspected to insure proper function. Records of the inspection and actions taken shall be recorded.
- The stormwater management system shall be inspected weekly and after major stormevents during the construction phase of the project (catch basins, outlet control structure, forebay and basin). Records of the inspection and actions taken shall be recorded.
- After final stabilization of the site the stormwater management system shall be restored to remove any construction related deposit and debris.
- Inspections of the stormwater system shall continue in accordance with the Stormwater Maintenance Plan.

Temporary Surface Stabilization

- Stage construction so that disturbed areas are not greater than necessary for construction to proceed.
- Sedimentation barriers shall be installed and shall be maintained throughout the duration of the project until disturbed areas have been stabilized.

Permanent Surface Stabilization

- Stabilize all denuded areas within 14 calendar days after final grading. Disturbed areas that are inactive and will be exposed to rain for 30 days or more should also be temporarily stabilized.

Landscaping and Final Stabilization

- During favorable seeding dates and in areas where vegetation can be established, the following should be implemented:
  - Use seeding and fertilizing in very flat, nonsensitive areas with favorable soils.
  - Use seeding and mulching for less erosive soil or on moderately steep slopes with moderately erosive soils in relatively sensitive areas.
  - Use seeding with multiple mulching treatments or sodding for highly erosive soil, very steep slopes, or sensitive areas with highly erosive soils.
- If stabilization is required during the time of the year that vegetation cannot be established, implement the following practices:
  - On moderate slopes or soil that is not highly erodible, mulching should be employed.
  - On steep slopes or highly erodible soils, multiple mulching treatments should be used.
- Route construction traffic to avoid existing or newly planted vegetation.
- Divert runoff away from denuded areas or newly seeded slopes.

Waste Disposal

- **Waste Disposal**

All waste materials will be collected and stored in a proper receptacle in accordance with all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in dumpsters. The trash will be hauled to an appropriate waste disposal site. No construction waste materials will be buried onsite. All project personnel will be instructed regarding the correct procedure for waste disposal.

- **Hazardous Waste**

All hazardous waste materials will be disposed of in the manner specified by the manufacturer and as required by local or State regulation. Site personnel will be instructed in these practices.

- **Sanitary Waste**

All sanitary waste will be collected from the portable units as required by local and State regulation.

Spill Prevention

The following are the materials management practices that will be used to reduce the risk of spill or other accidental exposure of materials and substances to stormwater runoff.

Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction of the project.

- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers. Materials which have the potential for contaminating runoff during storm events will be stored in their appropriate watertight containers, stored under a canopy, tarpaulin, shrink wrapped or otherwise precluded from direct exposure to precipitation.
- Empty containers that may contain chemical residues shall be disposed of in accordance with State and local regulations.
- Products, where possible, will be kept in their original containers with the original manufacture's label.
- Chemical or petroleum product will be used up before disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed.
- The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.

Petroleum Products

- All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.

- It is recommended that, if practicable, all refueling, repair and changing of equipment and vehicle fluids shall be conducted in a designated area. This area will be designed in a manner to reduce the potential for contamination of onsite resources. For refueling, repair and changing of equipment and vehicles outside of the designated area, care should be taken to avoid activities within environmentally sensitive areas.
- Petroleum products will be stored in tightly sealed containers, which are clearly labeled.
- An area will be designated for the collection and storage of all chemical and petroleum based products and containers for the collection and storage of all chemical and petroleum based products and containers for these products. The containers shall be protected from rain events.
- Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

- The project superintendent will regularly inspect the site to insure proper disposal methods of used antifreeze, oil, filters and other hazardous materials are followed.

Fertilizers

- Fertilizers used will be applied according to manufacturer's product standards. The contents of any partially used bags of fertilizers will be transferred to a sealable plastic container to avoid spills.

Paints

- All containers will be tightly sealed and stored when not required for use. Excess paint will be properly disposed of according to manufacturers' instructions or State and local regulations.

Spill Prevention

In addition to the good housekeeping and material management practices discussed in the previous section of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacture's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and material may include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, absorbent material (e.g. kitty litter, sand, sawdust) and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- In the event of a spill of a hazardous substance, the spill will be immediately contained and the spill area will be kept well ventilated. Personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance during cleanup operation.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, as required by regulatory standards.

Illicit Discharge
There shall be no illicit discharge to the stormwater management system, including wastewater discharges and discharges of stormwater contaminated by contact with process wastes, raw materials, toxic pollutants, hazardous substances, oil or grease.

Pollution Prevention Plan 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 gathered and evaluated 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.

Signed: _____

Rivercrest Condominiums
c/o Craig Authier
1421 Granby Road
Chicopee, MA 01020
(413) 537-4231
craig_authier@yahoo.com

Date: _____

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) general permit that authorizes storm water discharge associated with the construction site activity identified as part of this certification.

Signed: _____

Marion Excavating Corp.
c/o Todd Marion
510 New Ludlow Road
South Hadley, MA 01035
(413) 536-1267

Date: _____

Erosion Control Inspection Log

Construction Site Name:_____

Site Inspector's Name:_____

Date:_____ Time:_____ Inspection Number:_____

At what stage of the Erosion & Sediment sequence is the project?_____

While inspecting the site, observe all sediment control facilities and answer the following questions **yes, no, or NA.** If answering NO, briefly describe the problem and when it will be or was corrected.

Is the CONSTRUCTION ENTRANCE installed and maintained according to plan?
YES NO NA

Is all SILT FENCE installed and maintained according to plan?
YES NO NA

Is INLET PROTECTION installed according to plan?
YES NO NA

Are SEDIMENT TRAPS/BASINS constructed, stabilized and maintained according to plan?
YES NO NA

Are OUTLET STRUCTURES constructed and installed according to plan?
YES NO NA

Are CHANNELS constructed, lined and stabilized according to plan?
YES NO NA

Is SEDIMENT POLLUTION leaving the construction site or has sediment pollution occurred since last inspection? If yes, correct immediately and notify SWCD for assistance.
YES NO NA

Are STOCKPILES AND OTHER INACTIVE AREAS of the site stabilized? If no, stabilize immediately.
YES NO NA

Other SEDIMENT CONTROL MEASURES, site comments and Erosion & Sediment observations:

Inspector Signature:_____

CHARLES H. DAUCHY, Environmental Consultant cdauchy@wildblue.net
24 Old Long Plain Road, Leverett, MA 01054 Phone (413) 548-8005, Fax 548-9987

12 April, 2011

SUMMARY REPORT OF WETLAND DELINEATION:

Location: South off of Ferry Street, South Hadley, MA
Proposed Rivercrest Condominiums

Date of Field Work: 4/6/06 & 4/20/06

Delineation by: Charles H. Dauchy, MFS, PWS

Resource Area description: Bordering Vegetated Wetland.

Criteria: Mass. Wetlands Protection Act MGL Ch.131, s.40 and 310 CMR 10.55(2)(c). "The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist". The site is wooded with tree and shrub cover. Vernal hydrophytes, (particularly Skunk Cabbage) were also evident. Where there were no clear direct indicators of wetland hydrology, soil auger investigations were done to identify hydric soils.

Field Marks:

Wetland edge:	Blue flags, sequentially numbered,
Hydric soils:	Yellow flags, marked "H"
Non-Hydric soils:	Orange flags, marked "NH"

Flag series: A1-36, B1-8, C1-10, D1-9, W1-39

Within the 200 ft. Riverfront Area of the perennial stream south of th site, the field delineation was generally limited to the upper sections of several wetland swales that extend into the site , where the 100 ft. wetland buffer might extend beyond the 200 ft. Riverfront Area.

Submitted by:

Charles H. Dauchy