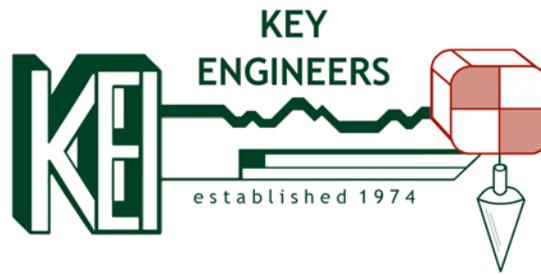


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STORMWATER POLLUTION PREVENTION PLAN

FOR THE

TOWNSHIP OF HADDON

Camden County, New Jersey

Revised Dec. 30, 2016

(KEI #38-32HT)

Prepared By:

Gregory B. Fusco, P.E., P.P., C.M.E.
Haddon Township Engineer

Tier A Municipal Stormwater Regulation Program

Stormwater Pollution Prevention Team Members

Number of team members may vary.

Completed by: *Gregory B. Fusco, P.E.*

Title: Haddon Township Engineer

Date: June 1, 2009

Municipality: Township of Haddon

County: Camden

NJPDES #: NJG 0152188

PI ID #: 198012

Stormwater Program Coordinator: James Stevenson

Title: Superintendent of Public Works

Office Phone #: 856-854-1825

Emergency Phone #: 609-685-2516

Public Notice Coordinator: Kate Burns

Title: BID Director, Community Coordinator

Office Phone #: 856-854-1176 (4194)

Emergency Phone #: 609-413-6528

Post-Construction Stormwater Management Coordinator: James Stevenson

Title: Superintendent of Public Works

Office Phone #: 856-854-1825

Emergency Phone #: 609-685-2516

Local Public Education Coordinator: Kate Burns

Title: BID Director, Community Coordinator

Office Phone #: 856-854-1176 (4194)

Emergency Phone #: 609-413-6528

Ordinance Coordinator: Betty Band

Title: Compliance Officer

Office Phone #: 856-854-1176 (4125)

Emergency Phone #:

Public Works Coordinator: James Stevenson

Title: Superintendent of Public Works

Office Phone #: 856-854-1825

Emergency Phone #: 609-685-2516

Employee Training Coordinator: James Stevenson

Title: Superintendent of Public Works

Office Phone #: 856-854-1825

Emergency Phone #: 609-685-2516

Other:

Title:

Office Phone #:

Emergency Phone #:

SPPP Form 2 - Public Notice

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: Kate Burns / BID Director, Community Coord.
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 1/2/05 Date of most recent update: April 1, 2015

Briefly outline the principal ways in which you comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of your stormwater program.

Haddon Township conducts meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.), public notice is provided in a manner that complies with the requirements of the Act. Haddon Township, when passing ordinances, provides public notice in a manner that complies with the requirements of N.J.S.A. 40:49-1 et seq. In addition, for municipal actions (e.g., adoption of the municipal stormwater management plan) subject to public notice requirements in the Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.), Haddon Township complies with those requirements. Haddon Township currently sends out a monthly publication and also has a website and cable television channel. Notices are posted in two local papers, the Courier Post and The Retrospect.

SPPP Form 3 – New Development and Redevelopment Program

Municipality Information	Municipality: Haddon Township County: Camden NJPDES # : NJG 0152188 PI ID #: 198012 Team Member/Title: James Stevenson / Superintendent of Public Works Effective Date of Permit Authorization (EDPA): April 1, 2004 Date of Completion: 2/2/05 Date of most recent update: April 1, 2015
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Describe in general terms your post-construction stormwater management in new development and redevelopment program (post-construction program), and how it complies with the Tier A Permit minimum standard. This description must address compliance with the Residential Site Improvement Standards for stormwater management; ensuring adequate long-term operation and maintenance of BMPs (including BMPs on property that you own or operate); design of storm drain inlets (including inlets that you install); and preparation, adoption, approval, and implementation of a municipal stormwater management plan and municipal stormwater control ordinance(s). Attach additional pages as necessary. Some additional specific information (mainly about that plan and ordinance(s)) will be provided in your annual reports.

To control stormwater from new development and redevelopment projects throughout the Township of Haddon (including projects operated by the Township) we will do the following:

The Township is already ensuring that new residential development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management (including the NJDEP Stormwater Management rules, N.J.A.C. 7:8, referenced in those standards) are in compliance with those standards. The combined Land Use Board ensures such compliance before issuing preliminary or final subdivision or site plan approvals under the Municipal Land Use Law.

Prior to the EDPA, Haddon Township has been involved in two redevelopment projects on municipal property: The Westmont Movie Theater and the Dy-dee Redevelopment Area. The Township will ensure adequate long-term operation and maintenance of BMPs for that project by requiring a project maintenance plan similar to the maintenance plan described in the draft ordinance, and by requiring and funding the implementation of that plan. Also, any storm drain inlets that are installed will comply with the design standards in Attachment C of the general permit. Once the stormwater control ordinance takes effect, all non-residential and redevelopment projects will be subject to these requirements operation and maintenance for any new development or redevelopment projects on municipal property will comply with the maintenance requirements as outlined in the ordinance. In addition, any storm drain inlets installed for municipal projects will comply with the standards outlined in the ordinance.

SPPP Form 4- Local Public Education Program

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: Kate Burns / BID Director, Community Coord.
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: December 1, 2017

Local Public Education Program

Describe your Local Public Education Program. Be specific on how you will distribute your educational information, and how you will conduct your annual event. Attach additional pages with the date(s) of your annual mailing and the date and location of your annual event.

Haddon Township will distribute the NJDEP educational information at their annual "September Block Party". The format of this event will allow the municipality to setup and display educational pamphlets at a booth dedicated to the Stormwater Management Program. Other possible municipal events include the 4th of July Celebration and Arbor Day.

The annual NJDEP mailing will be distributed along with one of the Township's standard monthly mailings.

- Township of Haddon Website – 1 point
- Stormwater Display – 2 points
- Mailing (Annual Calendar) – 3 points
- Partnership Agreement / Local Event – 3 points
- Ordinance Education – 5 points

SPPP Form 5 – Storm Drain Inlet Labeling and Maintenance

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Storm Drain Inlet Labeling

Describe your storm drain inlet labeling program, including you Labeling Schedule, the details of your long-term maintenance plan, and plans in coordinating with watershed groups of other volunteer organizations.

Where practical, Haddon Township will coordinate with local high school groups to label storm drain inlets. In those portions of the community where it is not safe for a volunteer group to perform the labeling, the Department of Public Works personnel will perform labeling. All storm drain inlets that are along streets with sidewalks and all storm drain inlets within plazas will be stenciled with the words "No Dumping – Drains to Waterways" or equivalent. Additionally, each label will be checked to ensure that it is still legible during the annual catch basin cleaning program.

SPPP Form 6 – MS4 Outfall Pipe Mapping

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: Gregory B. Fusco, P.E. / Township Engineer
Effective Date of Permit Authorization (EDPA): April 1, 2005
Date of Completion: 2/2/05 Date of most recent update: Dec. 30, 2016

Explain how you will prepare your map (include its type and scale, and the schedule for the mapping process). Who will prepare your map (e.g., municipal employees, a consultant, etc.)?

The Township has identified and physically located (by GPS equipment) the ends of outfall pipes which are operated by the Township. The locations have been placed on the "Stormwater Inlet and Outfall Plan".

The Public Works Department continues to investigate, report and take the necessary actions, under the Illicit Connection Elimination Program and Outfall Pipe Scouring Remediation Program, to address any unacceptable conditions, which are observed at any pipe outfall.

The "MS4 Outfall Pipe Map", dated revised Dec. 30, 2016, has been prepared by the Township Engineer and depicts the locations of each pipe outfall. Each pipe outfall has an alphanumeric identifier, the names of the water bodies, which are receiving the discharge from the pipe outfall are also identified on the map.

SPPP Form 7 – Illicit Connection Elimination Program

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2005
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Describe your Illicit Connection Elimination Program, and explain how you plan on responding to complaints and/or reports of illicit connections (e.g., hotlines, etc.). Attach additional pages as necessary.

Illicit Connections with regard to sanitary sewer system have been an ongoing problem within Haddon Township. The Township has entered into an Administrative Consent Order with the NJDEP to address illicit connections. In compliance with the Municipal Stormwater Program, Haddon Township will implement an Illicit Connection Elimination Program and conduct initial physical inspections of outfall pipes during the mapping process. The DEP Illicit Connection Report Form will be used to record the results of each inspection. Additionally the public is encouraged to contact the Haddon Township Department of Public Works directly at (856) 854-1825 with information regarding potential illicit connections. Complaints will be investigated with equipment such as a camera crawler that has the ability to identify any and all illicit connections. Once an illicit connection is found the responsible party may be cited for being in violation of the Illicit Connection Ordinance (proposed - to be implemented as outlined in the general permit) and the connection will be eliminated.

As a result of efforts by the Governing Body in 2009/2010 regarding sanitary sewer system in the Bettewood Section of the municipality the NJDEP lifted the Administrative Consent Order and the Township continues to look for and eliminate illicit connections to both the sanitary sewer system and storm sewer system.

SPPP Form 8 – Illicit Connection Records

Municipality Information	Municipality: Haddon Township County: Camden NJPDES # : NJG 0152188 PI ID #: 198012 Team Member/Title: James Stevenson / Superintendent of Public Works Effective Date of Permit Authorization (EDPA): April 1, 2005 Date of Completion: 2/2/05 Date of most recent update: April 1, 2015
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Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.

Total number of inspections performed this year?

Number of outfalls found to have a dry weather flow?

Number of outfalls found to have an illicit connection?

How many illicit connections were eliminated?

Of the illicit connections found, how many remain?

Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow. None

Total number of inspections performed this year?

Number of outfalls found to have a dry weather flow?

Number of outfalls found to have an illicit connection?

How many illicit connections were eliminated?

Of the illicit connections found, how many remain?

Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow. None

Total number of inspections performed this year?

Number of outfalls found to have a dry weather flow?

Number of outfalls found to have an illicit connection?

How many illicit connections were eliminated?

Of the illicit connections found, how many remain?

Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow. None

Total number of inspections performed this year?

Number of outfalls found to have a dry weather flow?

Number of outfalls found to have an illicit connection?

How many illicit connections were eliminated?

Of the illicit connections found, how many remain?

SPPP Form 9 – Yard Waste Ordinance/Collection Program

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Please describe your yard waste collection program. Be sure to include the collection schedule and how you will notify the residents and businesses of this schedule. Attach additional pages as necessary.

The Township of Haddon has an established yard waste program as follows:

Leaf Collection

Currently, the Municipality performs leaf collection every two weeks during seasons of leaf litter.

Yard Waste & Bush Pickup

Yard waste is currently collected once per week and predominantly follows that of the trash collection schedule.

In the future, the program will be enhanced by the addition of a yard waste ordinance that will specify the seasons of leaf litter as October through December. Additionally, the ordinance will specify that yard wastes cannot be placed in the street for more than seven days prior to the scheduled pick up date and yard waste cannot be placed within 10 feet of a storm drain inlet.

Haddon Township also adopted and enforces a yard waste ordinance that prohibits all yard waste, that is not containerized, from being

SPPP Form 10 – Ordinances

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: Betty Band / Compliance Officer
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

For each ordinance, give the date of adoption. If not adopted, explain the development status:

Pet Waste: See attached

Are information sheets regarding pet waste distributed with pet licenses? Y () N ()

Litter: See attached

Improper Waste Disposal: See attached

Wildlife Feeding: See attached

Yard Waste: See attached

Illicit Connections: See attached

How will these ordinances be enforced?

The Compliance Officer will enforce these ordinances. If someone is found to be in violation of any one of these ordinances, they will be issued a warning. If the violation is not corrected, a penalty will be assessed.

The following describes the Ordinances in the Municipal Code:

1. **Pet Waste:** This Ordinance requires all pet owners to pick up and properly dispose of pet waste dropped on public or private property. This requirement prevents fecal contamination from impacting our local waterways.
2. **Litter:** This Ordinance states that it is unlawful to throw, drop, discard or otherwise place litter of any nature on any public or private property, other than a litter receptacle. This requirement has been adopted to prevent all types of litter from cluttering public streets and private property and prevents litter from impacting our waterways.
3. **Improper Disposal of Waste:** This Ordinance states that it is illegal to dispose of waste in any place other than a proper solid waste storage container. The purpose of this Ordinance is to prevent unsanitary conditions and groundwater pollution.
4. **Wildlife Feeding:** Feeding of waterfowl on municipal park land or property is prohibited by Ordinance. The purpose of this Ordinance is to reduce waterfowl population in response to health concerns regarding bacteria from fecal matter which is harmful to humans' and fish populations.
5. **Yard Waste:** This Ordinance has been created to establish a system for the placement and collection of leaves, brush, and other yard wastes. The purpose of the Ordinance is to keep leaves, grass and other yard waste out of the stormwater inlets and piping, and ultimately out of our waterways.
6. **Illicit Connections:** It is unlawful to connect any pipe or discharge to the municipal storm sewer system that is intended to discard, spill or dump any substance other than stormwater or groundwater (via sump discharge) into the system. The purpose of this Ordinance is to prevent contamination of our streams and waterways which receive discharge from our storm sewers.

The transport of pollutants into local streams and water bodies can result in the destruction of fish, wildlife, and habitats; threats to public health and the loss of recreational and aesthetic value.

The Governing Body has enacted the above listed Ordinances to protect our environment, and to keep pollutants that are commonly conveyed by stormwater from adversely impacting our waterways and groundwater supplies. These ordinances can be found in the Chapter 202 of the Municipal Code of the Township of Haddon or on the official Township website, www.haddontwp.com. All information regarding the New Jersey's Stormwater program requirements can be found at www.cleanwaternj.org.

PPP Form 11 – Storm Drain Inlet Retrofitting

Municipality Information	Municipality: Haddon Township County: Camden NJPDES # : NJG 0152188 PI ID #: 198012 Team Member/Title: James Stevenson / Superintendent of Public Works Effective Date of Permit Authorization (EDPA): April 1, 2004 Date of Completion: 2/2/05 Date of most recent update: Dec. 30, 2016
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What type of storm drain inlet design will generally be used for retrofitting?

Barrington Borough will use the N.J.D.O.T. bicycle safe grate style and (if needed), a curb opening with a clear space no bigger than two inches across the smallest dimension.

Repaving, repairing, reconstruction or alteration project name	Projected start date	Start date	Date of completion	# of storm drain inlets	# of storm drains w/ hydraulic exemptions
<i>* Township has prepared a color coded inlet map which illustrates inlets that contain ECO heads that inlets that require castings to be replaced with ECO heads.</i>					

Are you claiming any alternative device exemptions or historic place exemptions for any of the above projects? Please explain:

SPPP Form 12 – Street Sweeping and Road Erosion Control Maintenance

Municipality Information

Municipality: Haddon Township County: Camden
 NJPDES # : NJG 0152188 PI ID #: 198012
 Team Member/Title: James Stevenson / Superintendent of Public Works
 Effective Date of Permit Authorization (EDPA): April 1, 2004
 Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Street Sweeping

**Please describe the street sweeping schedule that you will maintain.
 (NOTE: Attach a street sweeping log containing the following information: date and area swept, # of miles swept and the total amount of materials collected.)**

All curbed streets within the Township that have speed limits less than or equal to 35 mph in predominantly commercial areas are under the jurisdiction of the county, therefore, the SBR for street sweeping within the township is the responsibility of the county. In all other areas the current Township street sweeping schedule of approximately 5 times per year can be maintained.

Road Erosion Control Maintenance

Describe your Road Erosion Control Maintenance Program, including inspection schedules. A list of all sites of roadside erosion and the repair technique(s) you will be using for each site should be attached to this form.

(NOTE: Attach a road erosion control maintenance log containing the following information: location, repairs, date)

There is currently no Road Erosion Control Maintenance Program for Haddon Township. Inspections are performed on a daily basis via general observations and all public concerns/complaints are addressed in a timely fashion through the Department of Public Works. However the Township will implement a Road Erosion Control Maintenance Program and will maintain a log of roads inspected and repaired.

SPPP Form 13 – Stormwater Facility Maintenance

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Please describe your annual catch basin cleaning program and schedule. Attach a map/diagram or additional pages as necessary.

The Township will implement a catch basin cleaning program to maintain catch basin function and efficiency. All catch basins will be inspected once per year. If at the time of inspection the catch basin is functioning properly, then it will not be cleaned. All catch basins will be inspected annually. Maintenance will be scheduled for catch basins that are in need of repair. Additionally, the Township responds to problems that are reported by members of the community. The Township has sufficient equipment, such as combination machines, that can vacuum and jet the lines.

Please describe your stormwater facility maintenance program for cleaning and maintenance of all stormwater facilities operated by the municipality. Attach additional pages as necessary. (NOTE: Attach a maintenance log containing information on any repairs/maintenance performed on stormwater facilities to ensure their proper function and operation.)

The Township will implement a stormwater facility maintenance program to insure that all stormwater facilities operated by the Township function properly. Additionally, stormwater facilities will be inspected annually to insure they are function properly.

SPPP Form 14 - Outfall Pipe Stream Scouring Remediation

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Describe your stormwater outfall pipe scouring detection, remediation and maintenance program to detect and control active, localized stream and stream bank scouring. Attach additional pages as necessary.

(NOTE: Attach a prioritized list of sites observed to have outfall pipe stream and stream bank scouring, date of anticipated repair, method of repair and date of completion.)

When doing illicit connection inspections, Haddon Township will check all outfalls operated by the Township for signs of scouring. All sites identified as needing repair will be prioritized and all repairs will be made in accordance with the Standards for Soil Erosion and Sediment Control.

SPPP Form 15 – De-icing Material Storage

Municipality
Information

Municipality: Haddon Township County: Camden
NJPDES # : NJG 0152188 PI ID #: 198012
Team Member/Title: James Stevenson / Superintendent of Public Works
Effective Date of Permit Authorization (EDPA): April 1, 2004
Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

De-icing Material Storage

Describe how you currently store your municipality's de-icing materials, and describe your inspection schedule for the storage area. If your current storage practices do not meet the de-icing material storage SBR describe your construction schedule and your seasonal tarping interim measures. If you plan on sharing a storage structure, please include its location, as well as a complete list of all concerned public entities. If you store sand outdoors, describe how it meets the minimum standard.

Haddon Township's de-icing materials are currently stored indoors within a salt tent. During the off-season the salt is double tarped to insure that road salt is properly contained. The Township is considering switching over to a brine solution that could be spread in a liquid sprayer if sufficient funding is provided in the upcoming budget.

SPPP Form 16 – Standard Operating Procedures

Municipality Information	Municipality: Haddon Township County: Camden NJPDES # : NJG 0152188 PI ID #: 198012 Team Member/Title: James Stevenson / Superintendent of Public Works Effective Date of Permit Authorization (EDPA): April 1, 2004 Date of Completion: 2/2/05 Date of most recent update: April 1, 2015	
BMP	Date SOP went into effect	Describe your inspection schedule
Fueling Operations (including the required practices listed in Attachment D of the permit)	<i>Ongoing</i>	All fueling operations are conducted at the Township Department of Public Works. Monthly inspection will be conducted to insure that the SOP is being followed.
Vehicle Maintenance (including the required practices listed in Attachment D of the permit)	<i>Ongoing</i>	Vehicle maintenance is conducted in the Public Works garage. Monthly inspection will be conducted to insure that the SOP is being followed.
Good Housekeeping Practices (including the required practices listed in Attachment D of the permit) Attach inventory list required by Attachment D of the permit.	<i>Ongoing</i>	Good housekeeping procedures are followed on a routine basis. Monthly inspections will be conducted to insure the SOP is being followed
Equipment and Vehicle Washing	<i>Ongoing</i>	

SPPP Form 17 – Employee Training

Municipality Information

Municipality: Haddon Township County: Camden
 NJPDES # : NJG 0152188 PI ID #: 198012
 Team Member/Title: James Stevenson / Superintendent of Public Works
 Effective Date of Permit Authorization (EDPA): April 1, 2004
 Date of Completion: 2/2/05 Date of most recent update: April 1, 2015

Describe your employee training program. For each required topic, list the employees that will receive training on that topic, and the date the training will be held. Attach additional pages as necessary.

Course:

Attendees:

Waste Disposal Education

Public Works Personnel

Municipal Ordinances

Public Works Personnel
 Code Enforcement, Local Police Department

Yard Waste Collection Program

Public Works Personnel

Street Sweeping

Public Works Personnel

Stormwater Facility Maintenance

Public Works Personnel

Road Erosion Control

Public Works Personnel

Outfall Pipe Stream Scouring Remediation

Public Works Personnel

Construction Activity/Post Construction

Stormwater Management in New Development and Redevelopment (for municipally owned projects)

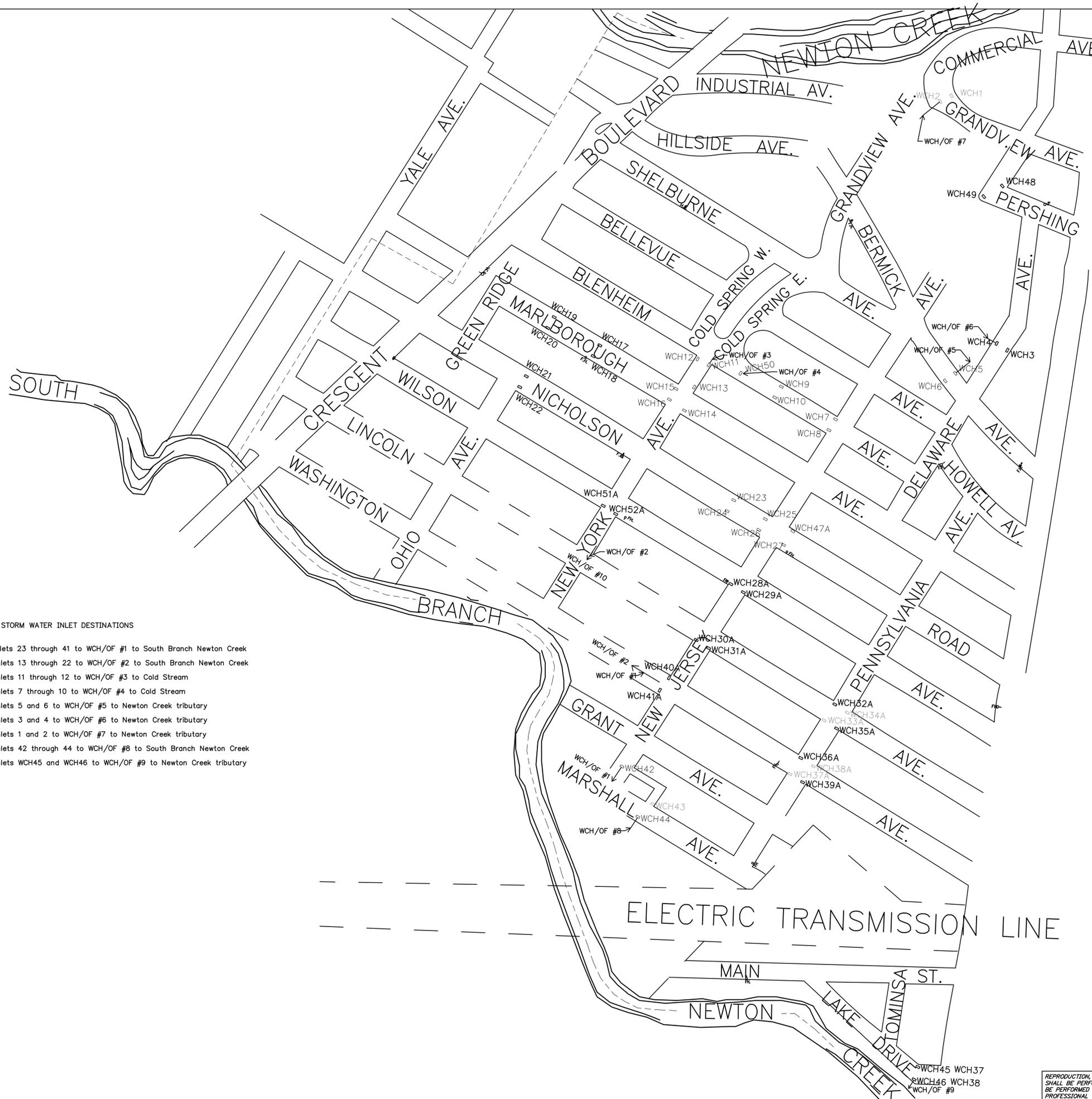
Public Works Personnel

Illicit Connection Elimination and Outfall Mapping

Public Works Personnel

Maintenance Yard Operation

Public Works Personnel



STORM WATER INLET DESTINATIONS

1. Inlets 23 through 41 to WCH/OF #1 to South Branch Newton Creek
2. Inlets 13 through 22 to WCH/OF #2 to South Branch Newton Creek
3. Inlets 11 through 12 to WCH/OF #3 to Cold Stream
4. Inlets 7 through 10 to WCH/OF #4 to Cold Stream
5. Inlets 5 and 6 to WCH/OF #5 to Newton Creek tributary
6. Inlets 3 and 4 to WCH/OF #6 to Newton Creek tributary
7. Inlets 1 and 2 to WCH/OF #7 to Newton Creek tributary
8. Inlets 42 through 44 to WCH/OF #8 to South Branch Newton Creek
9. Inlets WCH45 and WCH46 to WCH/OF #9 to Newton Creek tributary

NOTE:

1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED JULY 28, 2005.
2. INLET INFORMATION ADDED TO THE MAPS WAS PERFORMED BY KEY ENGINEERS, INC. DURING THE SUMMER OF 2015.
3. ALL INLETS SHOWN ON THESE MAPS HAVE NOT BEEN CROSS REFERENCED WITH THE TOWNSHIP UTILITIES MAPS PREPARED BY THE WPA DATED MAY 1, 1936, REVISED TO DECEMBER 1966. CROSS REFERENCING IS A WORK IN PROGRESS.
4. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT LABELING / ECOHEAD INSTALLATION AND CONDITION OF INLETS.
5. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT OUTFALL INSPECTIONS AND CONDITION.

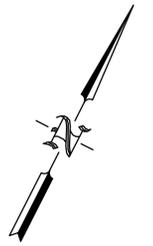
LEGEND:

- - INLET
- - ECO-HEAD INLET
- - REMOVED INLET

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.
REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN				
Haddon Township Stormwater Collection System				
Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE: #	SHEET No. 1 OF 8		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER N.J.P.E. No. 32853 PA.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
		<small>80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24628041300</small>		
				DATE

BOROUGH OF COLLINGSWOOD

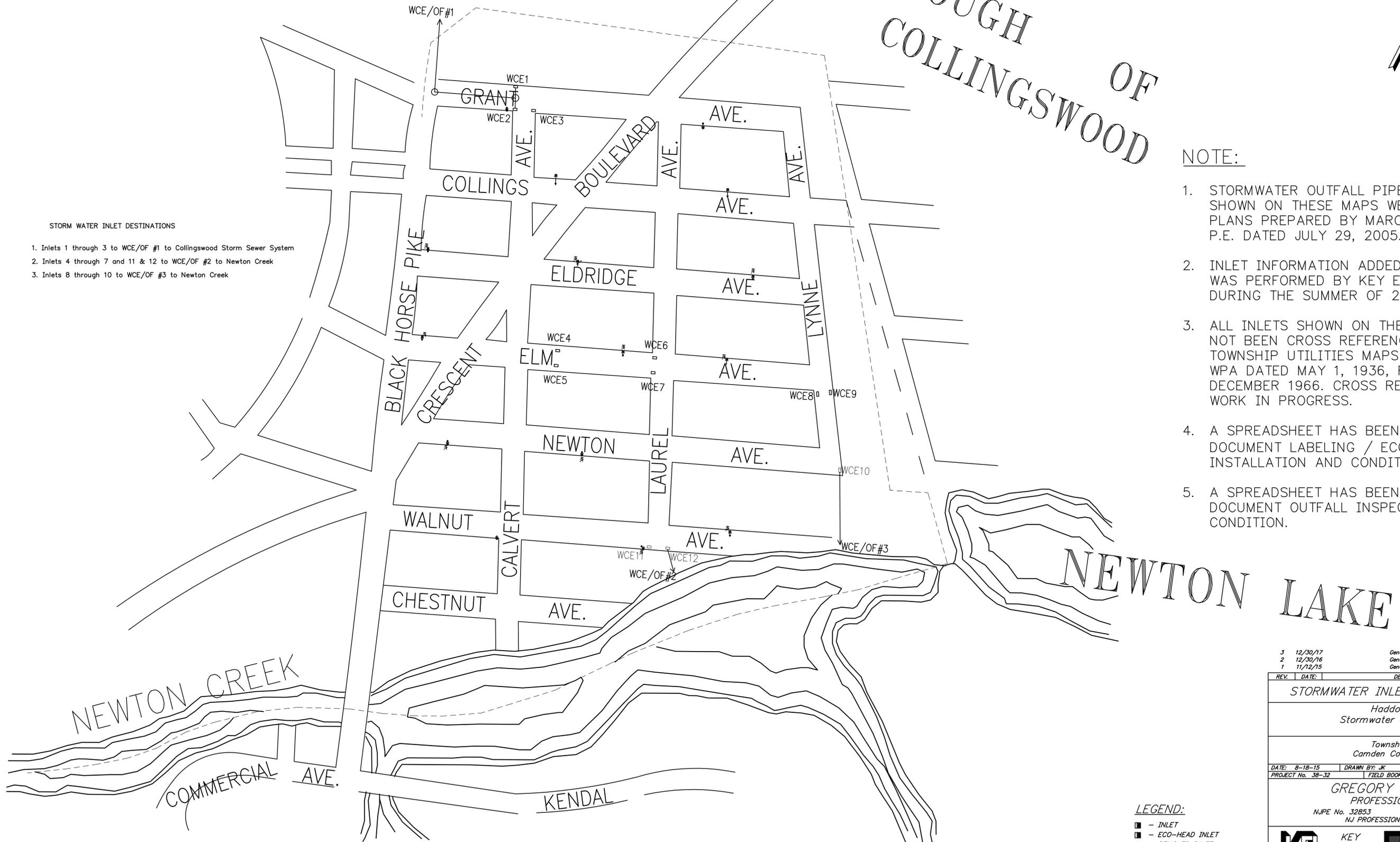


NOTE:

1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED JULY 29, 2005.
2. INLET INFORMATION ADDED TO THE MAPS WAS PERFORMED BY KEY ENGINEERS, INC. DURING THE SUMMER OF 2015.
3. ALL INLETS SHOWN ON THESE MAPS HAVE NOT BEEN CROSS REFERENCED WITH THE TOWNSHIP UTILITIES MAPS PREPARED BY THE WPA DATED MAY 1, 1936, REVISED TO DECEMBER 1966. CROSS REFERENCING IS A WORK IN PROGRESS.
4. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT LABELING / ECOHEAD INSTALLATION AND CONDITION OF INLETS.
5. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT OUTFALL INSPECTIONS AND CONDITION.

STORM WATER INLET DESTINATIONS

1. Inlets 1 through 3 to WCE/OF #1 to Collingswood Storm Sewer System
2. Inlets 4 through 7 and 11 & 12 to WCE/OF #2 to Newton Creek
3. Inlets 8 through 10 to WCE/OF #3 to Newton Creek



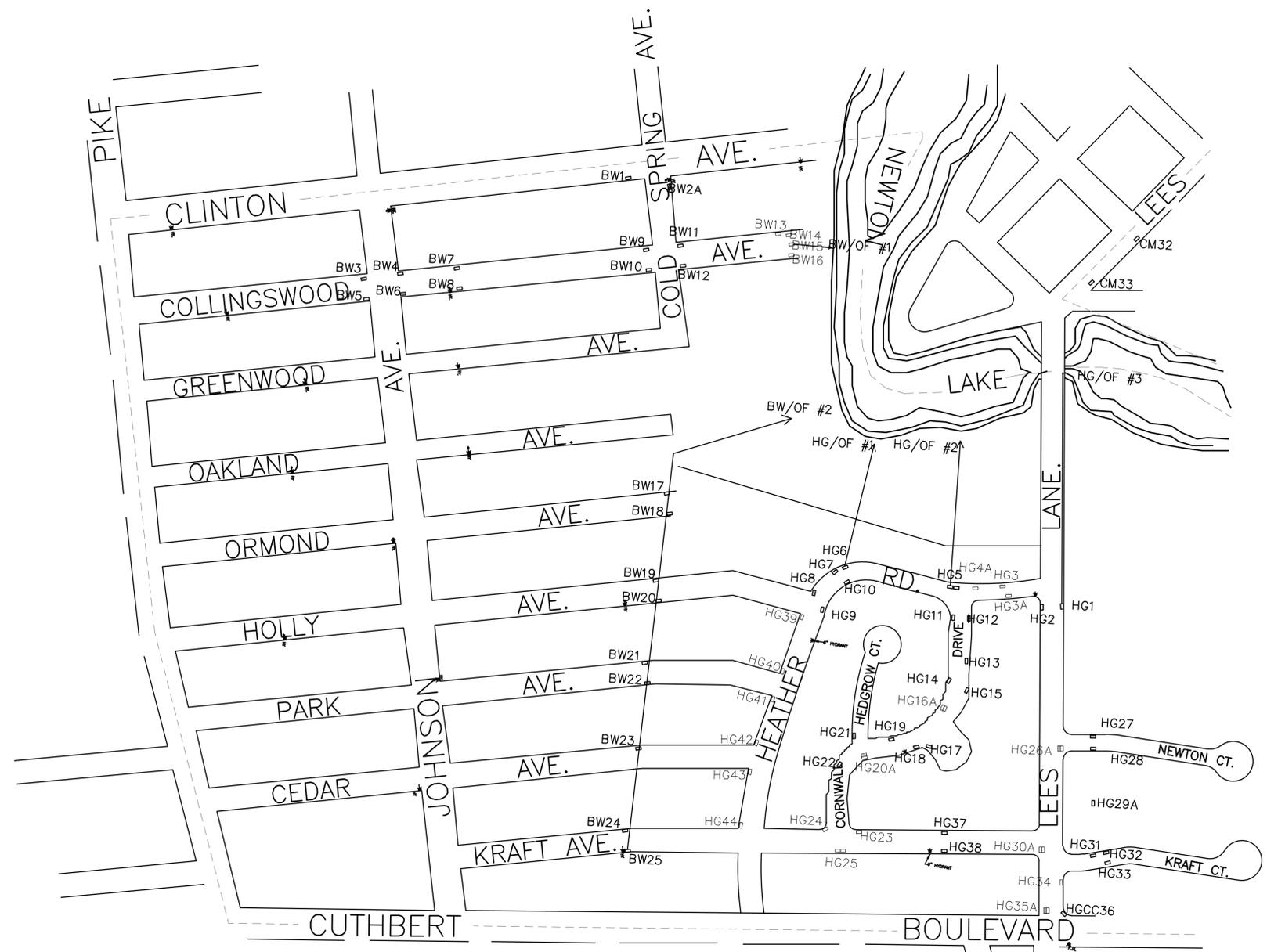
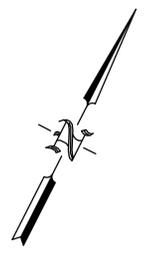
LEGEND:

- - INLET
- ▣ - ECO-HEAD INLET
- - REMOVED INLET

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN				
Haddon Township Stormwater Collection System				
Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE: #		SHEET No. 2 OF 8	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 PAPE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
KEY		ENGINEERS, INC.		
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300		phone: (856) 767-6111 fax: (856) 763-1091 www.keyengineers.com		
				DATE



NOTE:

1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED AUGUST 1, 2005.
2. INLET INFORMATION ADDED TO THE MAPS WAS PERFORMED BY KEY ENGINEERS, INC. DURING THE SUMMER OF 2015.
3. ALL INLETS SHOWN ON THESE MAPS HAVE NOT BEEN CROSS REFERENCED WITH THE TOWNSHIP UTILITIES MAPS PREPARED BY THE WPA DATED MAY 1, 1936, REVISED TO DECEMBER 1966. CROSS REFERENCING IS A WORK IN PROGRESS.
4. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT LABELING / ECOHEAD INSTALLATION AND CONDITION OF INLETS.
5. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT OUTFALL INSPECTIONS AND CONDITION.

SHEET 4

STORM WATER INLET DESTINATIONS

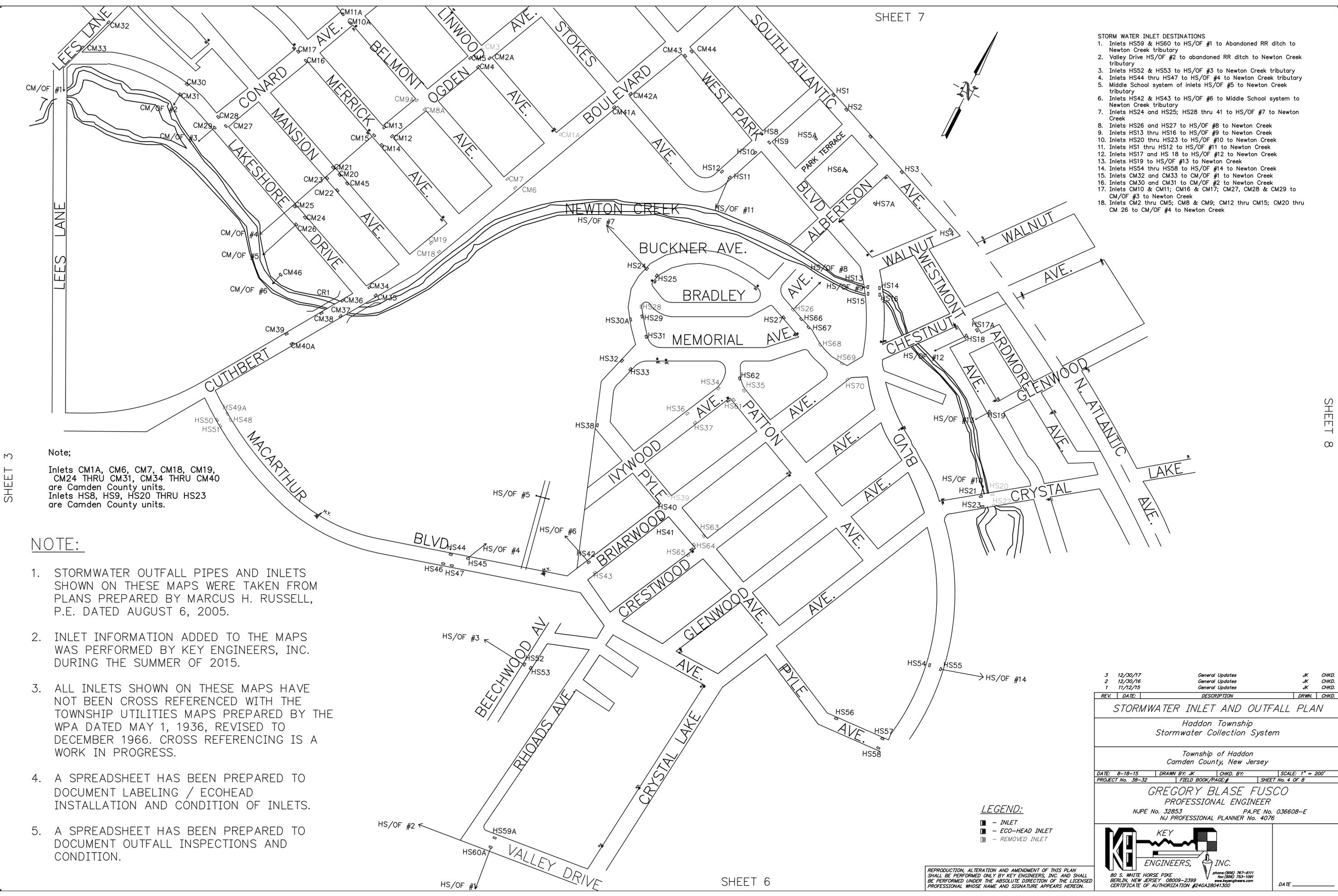
1. Inlets BW1 through BW16 to BW/OF #1 to Newton Lake
2. Inlets BW17 through BW25 to BW/OF #2 to Newton Lake
3. Inlets HG6 through HG10 to HG/OF #1 to Newton Lake
4. Inlets HG3 through HG5 and HG11 through HG 25 to HG/OF #2 to Newton Lake
5. Inlets HG 1 & HG2 and HG27 through HG35 to HG/OF #3 to Newton Lake

LEGEND:

- - INLET
- ▣ - ECO-HEAD INLET
- ◻ - REMOVED INLET

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2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.
REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN Haddon Township Stormwater Collection System Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE: 7		SHEET No. 3 OF 8	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
			phone: (856) 767-6111 fax: (856) 763-1091 www.keyengineers.com	
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300			DATE _____	



- STORM WATER INLET DESTINATIONS**
1. Inlets HS59 & HS60 to HS/OF #1 to Abandoned RR ditch to Newton Creek tributary
 2. Valley Drive HS/OF #2 to abandoned RR ditch to Newton Creek tributary
 3. Inlets HS52 & HS53 to HS/OF #3 to Newton Creek tributary
 4. Inlets HS44 thru HS47 to HS/OF #4 to Newton Creek tributary
 5. Middle School system of inlets HS/OF #5 to Newton Creek tributary
 6. Inlets HS42 & HS43 to HS/OF #6 to Middle School system to Newton Creek tributary
 7. Inlets HS24 and HS25; HS28 thru 41 to HS/OF #7 to Newton Creek
 8. Inlets HS26 and HS27 to HS/OF #8 to Newton Creek
 9. Inlets HS13 thru HS16 to HS/OF #9 to Newton Creek
 10. Inlets HS20 thru HS23 to HS/OF #10 to Newton Creek
 11. Inlets HS1 thru HS12 to HS/OF #11 to Newton Creek
 12. Inlets HS17 and HS 18 to HS/OF #12 to Newton Creek
 13. Inlets HS19 to HS/OF #13 to Newton Creek
 14. Inlets HS54 thru HS58 to HS/OF #14 to Newton Creek
 15. Inlets CM32 and CM33 to CM/OF #1 to Newton Creek
 16. Inlets CM30 and CM31 to CM/OF #2 to Newton Creek
 17. Inlets CM10 & CM11; CM16 & CM17; CM27, CM28 & CM29 to CM/OF #3 to Newton Creek
 18. Inlets CM2 thru CM5; CM8 & CM9; CM12 thru CM15; CM20 thru CM 26 to CM/OF #4 to Newton Creek

SHEET 3

Note;
 Inlets CM1A, CM6, CM7, CM18, CM19, CM24 THRU CM31, CM34 THRU CM40 are Camden County units.
 Inlets HS8, HS9, HS20 THRU HS23 are Camden County units.

NOTE:

1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED AUGUST 6, 2005.
2. INLET INFORMATION ADDED TO THE MAPS WAS PERFORMED BY KEY ENGINEERS, INC. DURING THE SUMMER OF 2015.
3. ALL INLETS SHOWN ON THESE MAPS HAVE NOT BEEN CROSS REFERENCED WITH THE TOWNSHIP UTILITIES MAPS PREPARED BY THE WPA DATED MAY 1, 1936, REVISED TO DECEMBER 1966. CROSS REFERENCING IS A WORK IN PROGRESS.
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5. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT OUTFALL INSPECTIONS AND CONDITION.

SHEET 6

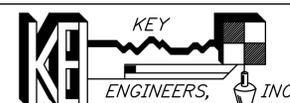
SHEET 8

- LEGEND:**
- - INLET
 - - ECO-HEAD INLET
 - - REMOVED INLET

3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN				
Haddon Township Stormwater Collection System				
Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE #	SHEET No. 4 OF 8		

GREGORY BLASE FUSCO
 PROFESSIONAL ENGINEER
 NJPE No. 32853 PA.PE No. 036608-E
 NJ PROFESSIONAL PLANNER No. 4076



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 www.keyengineers.com
 CERTIFICATE OF AUTHORIZATION #246A28041300

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DATE

COLLINGSWOOD BORO.

CHERRY HILLS TOWNSHIP

STORM WATER INLET DESTINATIONS

1. Inlet BB1 to BB/OF #1 to Cooper River
2. Inlets BB4 thru BB7 to BB/OF #2 to Cooper River
3. Inlets BB10 and BB11 to BB/OF #3 to Cooper River
4. Inlets BB12 & BB13 connect to Camden Co. system in Cuthbert Blvd.
5. Inlets BB15 thru BB23 connect to Camden Co. system in Cuthbert Blvd.
6. Inlets EH19 thru EH38 connect to Camden Co. system in So. Park Dr.
7. Inlets EH23 & EH24, EH27 & EH28, EH29 THRU EH33 connect to Camden Co. system in Cuthbert Blvd.
8. Inlets EH39 & EH40 to EH/OF #4 to Cooper River



Note;

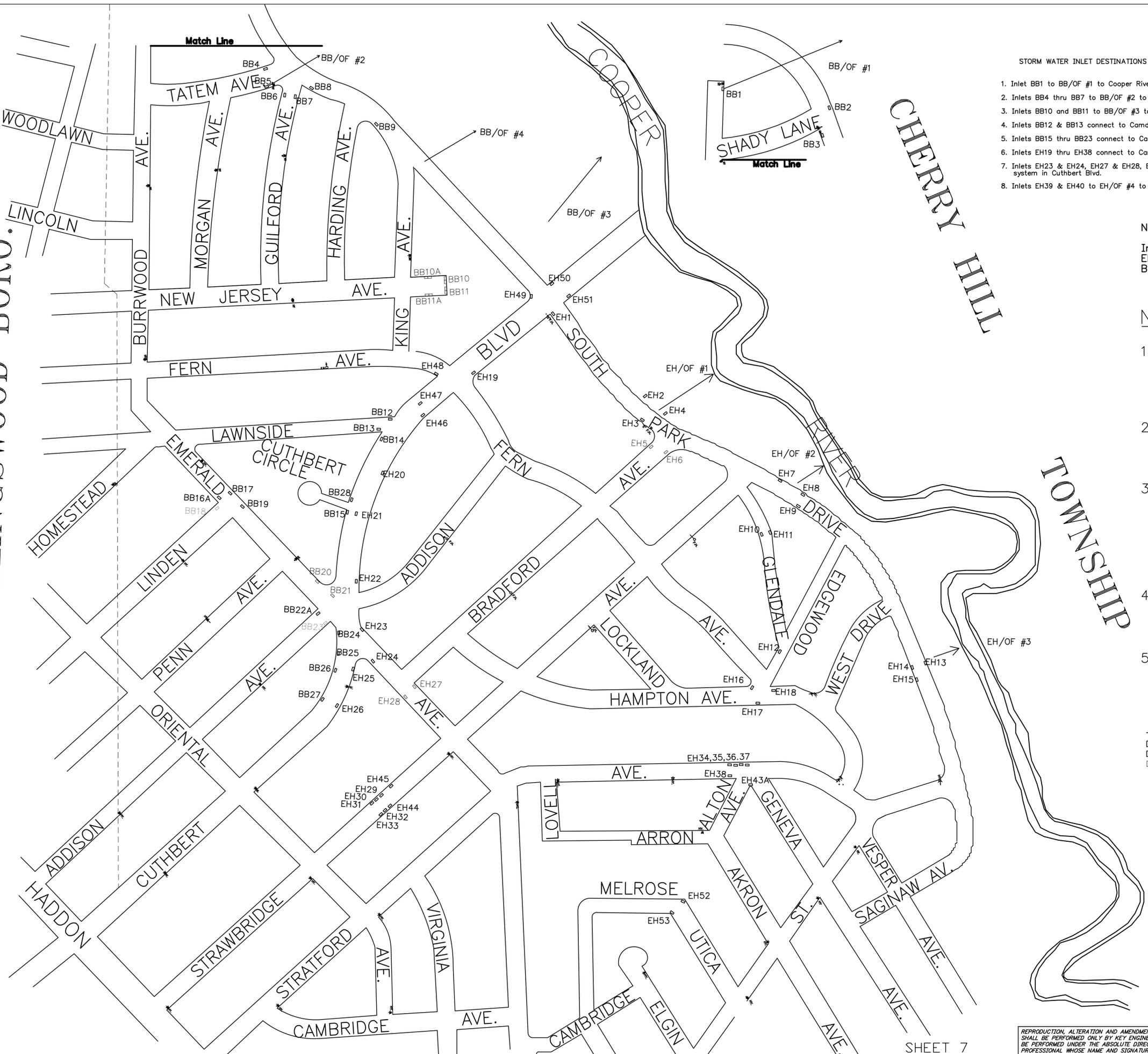
Inlets EH1 thru EH4, EH7 thru EH9, EH13 thru EH15, EH18 thru EH22, EH 25 and EH26, BB2 and BB3, BB8 and BB9, BB14, BB26 and BB27 are Camden County units.

NOTE:

1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED AUGUST 10, 2005.
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LEGEND:

- - INLET
- - ECO-HEAD INLET
- - REMOVED INLET



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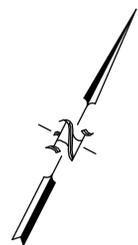
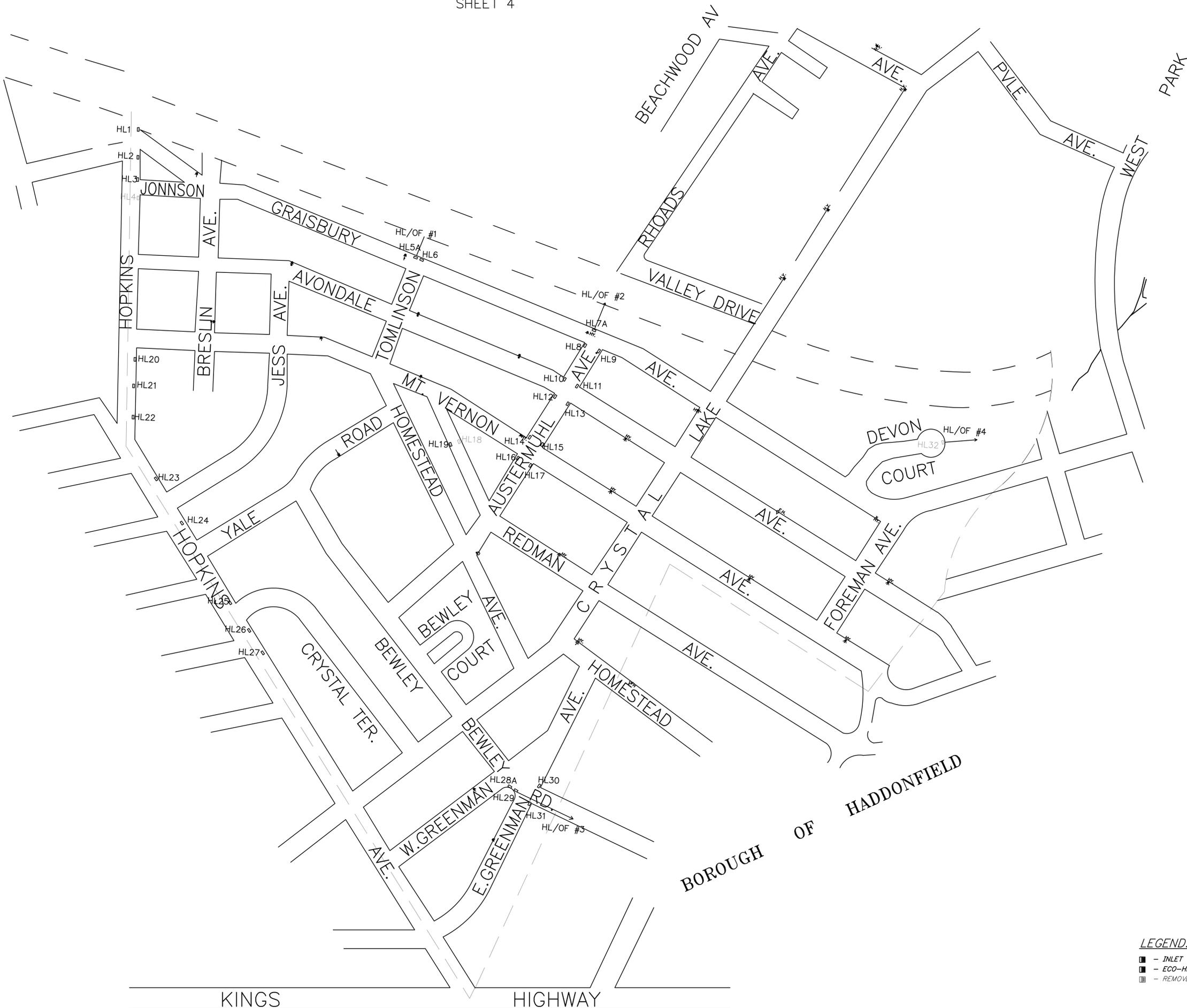
3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN				
Haddon Township Stormwater Collection System				
Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE: #	SHEET No. 5 OF 8		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		PA.PE No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				

80 S. WHITE HORSE PIKE
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phone: (856) 767-6111
fax: (856) 753-1091
www.keyengineers.com

DATE _____



STORM WATER INLET DESTINATIONS

1. Inlets HL5 & HL6 to HL/OF #1 to old RR ROW (to Newton Creek)
2. Inlets HL7 thru HL19 to HL/OF #2 to old RR ROW (to Newton Creek)
3. Inlets HL28 thru HL31 to HL/OF #3 to Haddonfield Boro system
4. HL32 to HL/OF #4 to Newton Creek

Note:
Inlets HL1 THRU HL4, HL18 THRU HL27
are Camden County units.

NOTE:

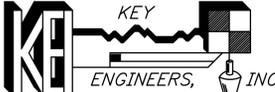
1. STORMWATER OUTFALL PIPES AND INLETS SHOWN ON THESE MAPS WERE TAKEN FROM PLANS PREPARED BY MARCUS H. RUSSELL, P.E. DATED AUGUST 10, 2005.
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5. A SPREADSHEET HAS BEEN PREPARED TO DOCUMENT OUTFALL INSPECTIONS AND CONDITION.

LEGEND:
 - INLET
 - ECO-HEAD INLET
 - REMOVED INLET

3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
STORMWATER INLET AND OUTFALL PLAN				
Haddon Township Stormwater Collection System				
Township of Haddon Camden County, New Jersey				
DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'	
PROJECT No. 38-32	FIELD BOOK/PAGE: #		SHEET No. 6 OF 8	

GREGORY BLASE FUSCO
 PROFESSIONAL ENGINEER
 NJPE No. 32853 PA.PE No. 036608-E
 NJ PROFESSIONAL PLANNER No. 4076



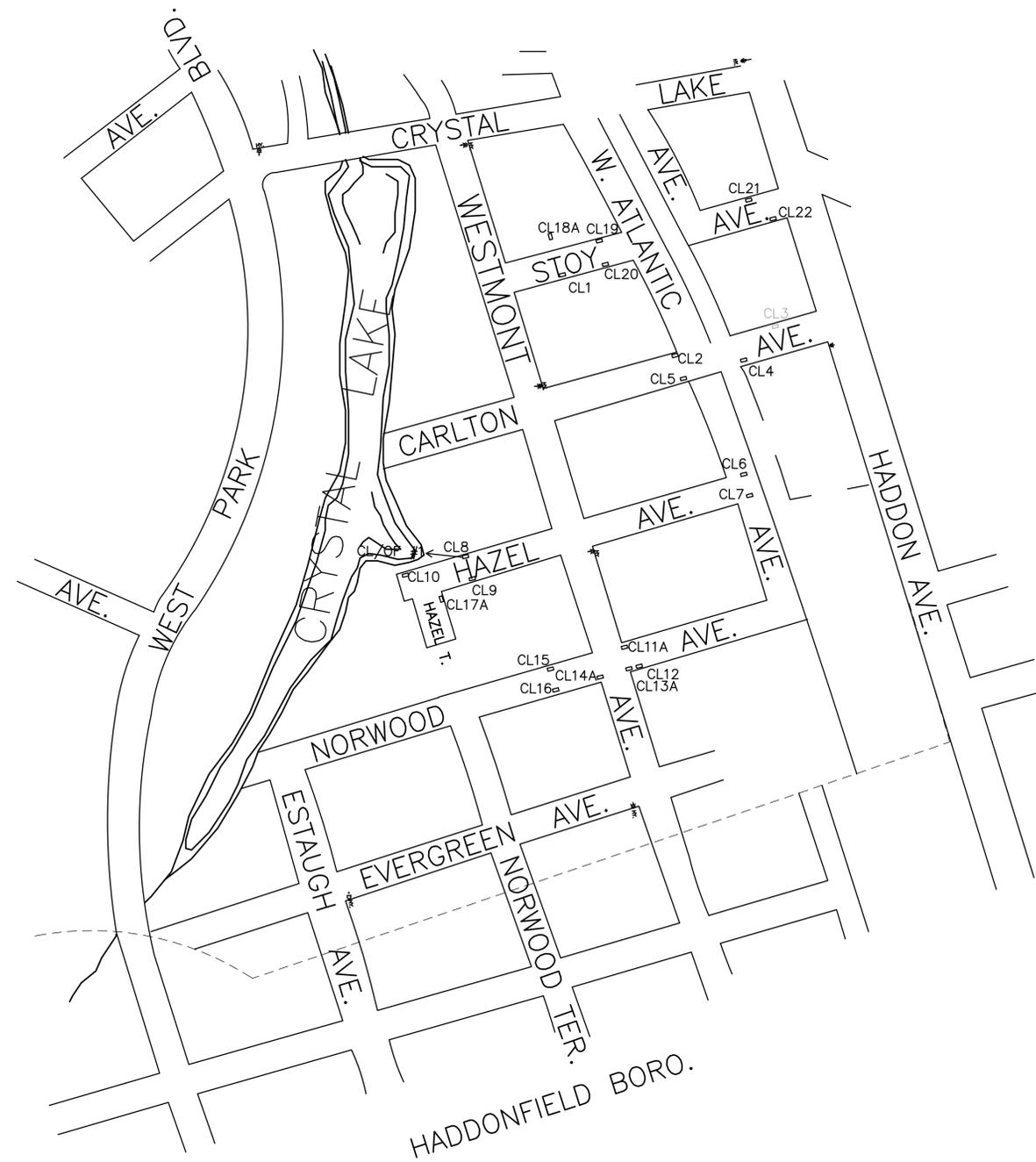
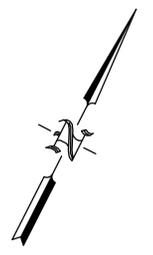
KEY ENGINEERS, INC.

80 S. WHITE HORSE PIKE
 BERLIN, NEW JERSEY 08009-2399
 CERTIFICATE OF AUTHORIZATION #246A28041300

phone: (856) 767-6111
 fax: (856) 763-1091
 www.keyengineers.com

DATE _____

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NOTE:

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STORM WATER INLET DESTINATIONS

1. Inlets CL6 thru CL10 to CL/OF #1 to Crystal Lake (Newton Creek)
2. Inlets CL11 thru CL16 to CL/OF #X to ????????????
3. Inlets CL1 thru CL5 to CL/OF #X to ????????????

LEGEND:

- - INLET
- - ECO-HEAD INLET
- - REMOVED INLET

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3	12/30/17	General Updates	JK	CHKD.
2	12/30/16	General Updates	JK	CHKD.
1	11/12/15	General Updates	JK	CHKD.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
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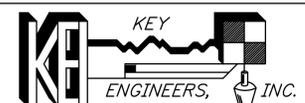
STORMWATER INLET AND OUTFALL PLAN

Haddon Township
Stormwater Collection System

Township of Haddon
Camden County, New Jersey

DATE: 8-18-15	DRAWN BY: JK	CHKD. BY:	SCALE: 1" = 200'
PROJECT No. 38-32	FIELD BOOK/PAGE: #	SHEET No. 8 OF 8	

GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
NJPE No. 32853 PAPE No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076



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CERTIFICATE OF AUTHORIZATION #240A28041300

DATE _____