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David Preissig

**AGENDA****STORMWATER COMMITTEE**

**Tuesday, November 1st, 2016**

**7:00 p.m.**

**Department of Public Works  
451 Commerce Street**

- 1) CALL TO ORDER**
- 2) ROLL CALL**
- 3) APPROVAL OF AUGUST 9, 2016 MINUTES**
- 4) STATUS OF SPECTRUM SENIOR LIVING FACILITY P.U.D.**
- 5) STATUS OF BUCKTRAIL ESTATES SUBDIVISION CONSTRUCTION AND STORMWATER DETENTION**
- 6) STATUS OF COUNTY/MUNICIPAL PARTNERSHIP FOR NPDES COMPLIANCE**
- 7) CONSIDERATON OF DOLFOR COVE-WALREDON AVENUE RESIDENT DRAINAGE ISSUE AND ENGINEERING DIVISION STUDY**
- 8) CONSIDERATON OF 9400 WEST FALLINGWATER DRIVE DRAINAGE CONCERN**
- 9) AUDIENCE DISCUSSION**
- 10) ADJOURNMENT**



## M E M O

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**To:** Chairperson Guy Franzese  
Members of the Village of Burr Ridge Stormwater Committee

**From:** David Preissig, P.E., Director of Public Works & Village Engineer

**Date:** October 28, 2016

**Subject:** Agenda Summary for Stormwater Committee Meeting on November 1, 2016

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### **1) CALL TO ORDER**

### **2) ROLL CALL**

### **3) APPROVAL OF MINUTES FROM THE AUGUST 9, 2016 STORMWATER COMMITTEE MEETING**

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Please see attached minutes for consideration.

### **4) STATUS OF SPECTRUM SENIOR LIVING FACILITY P.U.D.**

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As reported in previous meetings of this Committee, the Spectrum Senior Living development includes 190 dwelling units in a continuing care retirement community at Illinois Route 83 and 91st Street including three future commercial lots along IL 83.

DuPage County Stormwater Management Division provided preliminary approval of the developer's wetland impacts, following a joint meeting between the developer, Village, and County on August 30, 2016. One late request by the County was made to obtain concurrence from two adjacent unincorporated lot owners regarding the effective elimination of wetlands in their property resulting from entrapment of the stormwater in the Spectrum detention ponds. The developer has paid all wetland impact fees to the County and the Army Corps of Engineers. The final County certification will be provided upon receipt of concurrence letters from the adjacent unincorporated homeowners.

Construction activities on the site have commenced. At the end of September, tree clearing, grubbing, and installation of tree protection was initiated. Soil erosion and sediment control (SESC) measures were immediately installed following tree removal during the week of October 3rd. With the exception of the wetland area (future commercial lots), the site has been stripped, topsoil stockpiled, and sediment basins excavated. A new engineered berm was also

constructed with suitable compacted clay along the rim of the southeast basin (adjacent to Falling Water subdivision). Mass-grading is expected to be continue throughout the week of October 31st.

The site retaining walls are scheduled to begin in the next two weeks, and should be completed before the end of this year. To construct the building pads for the east cottages, these 3-tier retaining wall have to be installed. Fine-grading will continue until winter weather causes a shut-down for earthmoving operations.

Fence along the east property line (adjacent to Falling Water subdivision) will likely be installed the week of November 14th.

The first utility coordination meeting will be held at the beginning of November with underground utilities starting the week of November 7th. Site utilities are expected to be installed throughout the winter and into summer of 2017.

When the building permit for the main building is issued by the Village, then excavation for the foundation will be started. Shortly thereafter, the first floor plumbing and piping will be installed after meetings are held with all the trades. The main building construction will continue throughout the winter.

*(Please see attached “Spectrum Senior Living PUD - Burr Ridge: Approximate Construction Sequencing and Schedule”).*

## **5) STATUS OF BUCKTRAIL ESTATES SUBDIVISION CONSTRUCTION AND STORMWATER DETENTION**

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As reported in previous meetings of this Committee, construction of the Bucktrail Estates subdivision improvements and four of its residential sites are currently under construction.

Subdivision site grading has been finally constructed and maintained in accordance with the approved engineering plans. Corrective work previously requested by the Village following two (2) instances of silt runoff toward the northeast has been completed. The site is fairly stabilized with turf and landscaping around the detention area, as well as additional erosion control measures around each of the four residential sites.

The detention pond has been design to incorporate the latest best management practices (BMP) for stormwater runoff required by the Cook County Watershed Management Ordinance. This BMP requirement includes Volume Control Practices, which utilize designated infiltration areas or structures to capture the first 1” of stormwater runoff from all impervious surfaces and retain it on-site to 1) percolate through (or into) the underlying soils, 2) evaporate, 3) dissipate through evapotranspiration by plants, or 4) drain back slowly into the minor system via underdrains. The process of percolating runoff through the soil is an effective mechanism for both site runoff volume reduction and pollutant removal. Pollutants such as fine sediment, nutrients, and organic materials can be filtered, absorbed by soil particles, or utilized by plants, thus providing a water quality benefit.



The Village and adjacent residents in the Burr Oaks Glen South subdivision have concerns regarding the water and the depth to which it sits in the Bucktrail Estates detention pond. The Cook County BMP requirement does not adequately address the fact that the majority of the County consists of either native poorly-drained soils or became that way due to development. Even well-drained soils for a particular area on a soil survey have likely lost their infiltration capacity, if the area has been previously developed or otherwise disturbed.

The detention area in Bucktrail Estates is designed with a layer of topsoil on its bottom that should allow the designed quantity of water to saturate and be cleansed by the native plants in the pond. However, the pond is holding water for too long, and the plants are not establishing as needed. The developer's engineer has been tasked with determining if the depth of water and time to infiltration is exceeding the design standards and how to mitigate these deficiencies. The developer was also treating this area throughout the past summer with larvacide to abate mosquito concerns in the standing water.

Diagrams showing examples of best management practice (BMP) for stormwater runoff, taken from the Cook County Watershed Management Ordinance are included for discussion (*Please see attached "Volume Control Best Management Practices"*).

## **6) STATUS OF COUNTY/MUNICIPAL PARTNERSHIP FOR NPDES COMPLIANCE**

As reported in previous meetings of this Committee, the National Pollutant Discharge Elimination System (NPDES) Permit requirements are outlined in the Illinois EPA's new statewide ILR40 Storm Water Permit for Small Municipal Separate Storm Sewer Systems (MS4). The Village completed and submitted its Notice of Intent (NOI), in May 2016, which was submitted jointly with DuPage County and 23 other municipalities.

New requirements of the MS4 program include:

- Develop a storm water management program comprised of best management practices (BMPs) and measurable goals for each of the following six minimum control measures:
  1. Public education and outreach on storm water impacts
  2. Public involvement and participation
  3. Illicit discharge detection and elimination
  4. Construction site storm water runoff control
  5. Post-construction storm water management in developments
  6. Pollution prevention/good housekeeping for municipal operations
- Submit a completed Notice of Intent. Municipalities can choose to share responsibilities for meeting these program requirements. Those entities choosing to do so may submit jointly with other municipalities or governmental entities.
- Submit annual reports to the IEPA by June 1st each year. The report must include:



1. The status of compliance with the permit conditions, including an assessment of the BMPs and progress toward the measurable goals
2. Results of any information collected and analyzed, including monitoring data;
3. A summary of the storm water activities planned for the next reporting cycle;
4. A change in any identified best management practices or measurable goals;
5. If applicable, notice of relying on another governmental entity to satisfy some of the permit obligations.

DuPage County Stormwater Management is coordinating with municipalities to develop a Qualifying Local Program that would meet these requirements in a streamlined and efficient manner and to reduce redundancies among agencies. Under the joint program proposed, DuPage County would take a lead role and implement some of the minimum control measures required on behalf of municipalities. The County is assessing how municipalities could select a level of participation in the joint program and what minimum level of participation might be required. Intergovernmental agreements (IGA) may be proposed by either agency to provide assistance with new requirements.

Attached is the DRAFT framework for a proposed county/municipal partnership for NPDES compliance. *(Please see attached “DuPage County Regional NPDES Program Framework for Stormwater Compliance”).*

The Municipal Engineers Discussion Group will meet and discuss this draft outline at its regular scheduled meeting on November 3, 2016. This framework could be incorporated into an NOI format and submitted to the IEPA for review and approval. IGA's with the various municipalities would be based on the framework and Countywide NOI.

As previously discussed, it will be advantageous for the Village to participate in this joint process. Staff will participate in DuPage County discussions and consider how County services could meet the IEPA requirements without substantially increasing staff time or costs.

## **7) CONSIDERATION OF DOLFOR COVE-WALREDON AVENUE RESIDENT DRAINAGE ISSUE AND ENGINEERING DIVISION STUDY**

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Residents of 8413 Walredon Avenue inquired in Spring 2016 if the Village could install a storm sewer and inlets spanning six rear yard lots between Dolfor Cove and Walredon Avenue. Village Engineer David Preissig met in June 2016 to get an understanding of this resident's concerns. It was observed that decades of landscaping modifications and tree root growth had adversely affected the rear yard drainage in these properties. This is consistent with past problems observed at other locations in this neighborhood (in 2013, the Village coordinated with residents at 8424 & 8436 Dolfor Cove in which rear-yard swales had been filled and sump pump discharges illegally buried at the property lines).

Working with the resident of 8413 Walredon Avenue, who leads the cost-sharing arrangement among all six lot owners, the Village developed a preliminary plan for improving the rear yard drainage. The Department's engineering intern, under the guidance of our Project Engineer, surveyed the lot lines, designed a small-diameter PVC pipe improvement project, and provided



a brief report to the residents. The residents used this report and a list of landscaping contractors also provided by the Village, to obtain estimates for the work. The Village waived permit fees and the landscaper has recently completed the improvement. (*Please see attached "Dolfor/Walredon Yard Survey"*).

## **8) CONSIDERATON OF 9400 FALLINGWATER DR. WEST DRAINAGE CONCERN**

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In September 2016, a Project Engineer with DuPage County Stormwater Management contacted the Village with a report of a drainage concern at 9400 Falling Water Drive West. The new HOA representative of the Falling Water subdivision advised the County that they had completed a few projects to handle the stormwater from an undeveloped area to the west; however, residents have concerns for transport of sediment and other debris onto their property, streets, and into their ponds. The new HOA representative contacted the County through County Board Member (John Curran), who forwarded the request to Stormwater Management. These areas are in the corporate limits of the Village, therefore the Village has jurisdiction in this matter. (*Please see attached "Falling Water Drive & Oak Hill Court map"*).

A ditch that originates from 94th Street and Oak Hill Court is eroding, especially through the property at 10S681 Oak Hill Court. Since this ditch is existing and not directly impacted by part of a new development, it is not a stormwater ordinance violation. However, the Village has notified the homeowner, in correspondence related to the existing building permit and engineering plan review of the adjacent home construction that exposed soil and erosion must be addressed. It should be noted that this residence is vacant and the Village is in legal proceedings against this property owner for numerous building code and construction permit violations (permit #07-250), and entry to the property is not advised.

The Department of Public Works will be taking measures to slow the flow of water from the 94th Street ditch before it enters private property. A rock-check dam will be installed at the pipe outfall before the ditch flow enters the ravine. There are no easements along the property lines in this old neighborhood that permit the Village to enter the affected property and install other measures downstream in the ditch. The Falling Water HOA is aware of the Village's plans for counteracting this condition.

## **ATTACHMENTS**

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*Minutes: Stormwater Management Committee Meeting, August 9, 2016*

*Spectrum Senior Living PUD: Approximate Construction Sequencing and Schedule*

*Volume Control Best Management Practices*

*DuPage County Regional NPDES Program Framework for Stormwater Compliance*

*Dolfor/Walredon Yard Survey*

*Falling Water Drive & Oak Hill Court map*





**MINUTES  
STORMWATER MANAGEMENT COMMITTEE MEETING  
August 9, 2016**

**CALL TO ORDER**

Chairperson Guy Franzese called the meeting to order at 7:05 PM

**ROLL CALL**

Present: Chairperson Guy Franzese, Trustee Al Paveza, Trustee Tony Schiappa, Nancy Montelbano and Dave Allen

Absent: Wil Wilcox and Alice Krampits

Also Present: Village Administrator Steve Stricker, Public Works Director/Village Engineer David Preissig

**APPROVAL OF MINUTES**

A **motion** was made by Trustee Al Paveza to approve the minutes of May 10, 2016. The motion was **seconded** by Dave Allen and **approved** by a vote of 5-0.

**SHADY LANE CULVERT REPAIR**

Public Works Director David Preissig stated that, on June 19, a flatbed trailer delivering construction materials struck and damaged the brick wall atop the west abutment of the culvert pipe at 6500 Shady Lane. He stated that, although the driver fled from the scene, a neighbor saw the incident and the driver was eventually found and cited. Mr. Preissig stated that the Public Works Department had determined the estimated cost for labor, barrier walls and brick replacement to be approximately \$8,700, which will be paid by IRMA and collected through subrogation with the trucking company. He stated that, subsequent to obtaining estimates, a nearby resident contacted the Village to inquire if a private donation could be made to construct a wider roadway with decorative appurtenances. He stated that, to-date, he has not received any firm commitment from the residents and that, if he does not receive one by the end of September, they will go forward with the project as originally proposed.

**UPDATE – PROPERTY ADJACENT TO 15W619 81ST STREET**

Public Works Director David Preissig reminded the Committee that, at the May meeting, residents Gary and Nicolette Panice, 15W619 81<sup>st</sup> Street, expressed concerns regarding a landscape berm on a neighboring property to the south at 15W622 82<sup>nd</sup> Street, owned by Mr. & Mrs. George Carioscia. He stated that the berm is blocking the flow of water, which is supposed to flow toward 82<sup>nd</sup> Street and into the lake bounded by the properties on 82<sup>nd</sup> Street, 83<sup>rd</sup> Street and Lake Ridge Drive. He stated that a letter was sent to the Carioscias in February, which required correction by the end of May. Unfortunately, no work had occurred and a second letter was sent, with work to be completed on July 1, 2016. Mr.

Preissig stated that a landscape company hired by the property owner performed some work, although it was not adequate. He stated that Project Engineer Jim Miedema met again on site with the property owner and requested that additional work be done. He stated that Staff will continue to monitor this work until satisfactory progress is made.

**UPDATE – BUCKTRAIL ESTATES SUBDIVISION CONSTRUCTION**

Public Works Director David Preissig reminded the Committee that, at the May Stormwater Committee meeting, the Bucktrail Estates Subdivision improvements were reviewed in detail with the Committee and the residents. He stated that twice this summer, once when the top soil was just removed and prior to the pond being built, and recently, as a result of a swale that had been improperly graded, water flowed off the site at the northeast corner and onto the adjacent property at 11792 Woodside Court, owned by Bill and Molly Iovino. He stated that, in both instances, this should not have happened and it was the contractor's responsibility to correct the situation, which they did immediately.

Village Administrator Steve Stricker stated that, after the second occurrence, he met immediately with the developer to inform him of our disappointment and that this type of incident cannot be allowed to happen again. He instructed the developer to have somebody onsite be responsible on a daily basis to make sure that the site is not left in a condition that would create a drainage problem.

Chairperson Franzese stated that he was extremely dismayed regarding these two incidents and thanked Public Works Director Preissig for being quick to resolve the problem.

**UPDATE – SPECTRUM P.U.D./DUPAGE STORMWATER CERTIFICATION**

Public Works Director David Preissig reported previously that the Spectrum Senior Living development had been studying and justifying the wetland impacts as part of a stormwater certification permit through DuPage County. He stated that the developer will be paying into a wetland "bank" through DuPage County and the Army Corps of Engineers as mitigation for filling the small wetland on the east side of their site. The developer has submitted their final site plans concurrently to the Village and DuPage County, and the County has only minor comments before final approval. With this in mind, it is anticipated that the developer will receive a permit and will be allowed to begin onsite grading by the end of August.

**UPDATE – ST. MARK CHURCH EXPANSION/PINE TREE LANE RESIDENTS**

Public Works Director David Preissig reminded the Committee that the Village has been working closely with representatives of St. Mark Coptic Church and the residents of the adjacent Pine Tree Subdivision to complete the required grading work for this project. He stated that the Staff had met with the contractor last fall and again in the spring to remind them of the importance to correct these problems and grow grass to eliminate potential for erosion before the growing season ended. Unfortunately, this did not occur and work that was done is insufficient. He indicated that another meeting was held with church officials and two letters have been sent to them reminding them that work must be completed by August 29 or the Village will pull their landscape bond and do the work ourselves.



Administrator Stricker stated his disappointment that we have not been able to get the church to complete this project appropriately and indicated that this item will be placed on the Board agenda for the first meeting in September to pull the landscape bond and do the work ourselves, if appropriate action is not taken.

#### **UPDATE – NPDES STORMWATER PERMITS FOR MS4s**

Public Works Director David Preissig stated that, as he has mentioned in previous meetings, the Village has been working with other municipalities and the County to submit a joint Notice of Intent to the Illinois EPA. Under the proposed program, DuPage County would take the lead role and be responsible for implementing some of the minimum control measures required in the NPDES requirements on behalf of municipalities, including monitoring and annual reports, which could cover activities over entire watersheds. He stated that the County is now assessing how municipalities could select a level of participation in the joint program and what minimum level of participation might be required. He stated that Staff will continue to monitor discussions with DuPage County and will present recommendations in the future regarding cost saving measures in which we could share responsibility for some of these NPDES requirements.

#### **NEXT MEETING DATE**

Public Works Director David Preissig stated that the next meeting date is November 8, which is Election Day. After some discussion, it was agreed that meeting should be rescheduled to Tuesday, November 1, at 7:00 p.m.

#### **AUDIENCE DISCUSSION**

Mark Toma, a resident on Drew Avenue, mentioned that the final grading work along the ditches on 75<sup>th</sup> Street that was supposed to be completed by the Harvester Memory Care Center has yet to be completed. In response, Public Works Director David Preissig stated that he is aware of the problem and that, although they had done some work the previous week, there was still more work to be done and the contractor has been informed.

Mr. Toma also mentioned once again his concern regarding the drainage way through the property at 7523 Drew Avenue and that water is not flowing as it was designed.

#### **OTHER CONSIDERATIONS**

Public Works Director David Preissig briefly updated the Committee regarding the repair work to the culvert section at County Line Road that was done at the pond in McCullough Park by the Park District and Cook County.

#### **ADJOURNMENT**

There being no further business, a **motion** was made by Trustee Al Paveza to adjourn the meeting. The motion was **seconded** by Trustee Tony Schiappa and **approved** by a vote of 5-0. The meeting was adjourned at 7:50 p.m.

Respectively submitted,

A handwritten signature in dark ink, appearing to read 'Steve Stricker', is written above the printed name.

Steve Stricker  
Village Administrator

SS:bp

9/07/2016 – updated 9/22/16

## **Spectrum Senior Living PUD - Burr Ridge**

### Approximate Construction Sequencing and Schedule

Staff Approval of Final Engineering, Final Landscaping, and Final Plat

Approval of Final Plat by Village Board of Trustees

Approval of wetland mitigation, etc by Du Page County

Posting of LOC or Bond (prior to commencement of work)

Pre-Construction Meeting with DPW staff

Payment of Subdivision review fees

Mobilization, erosion control installation, clear and grub site

Mass grading site and Stormwater Management Facilities

Easement permissions for Fallingwater storm sewer connection

Construction of Site Utilities (storm)

Issuance of Permit for Main Building

Construction of Main Building (foundations, slabs, framing, roofing)

Construction of Site Retaining Walls

Easement permissions for Fallingwater water main connection

Approval of Du Page County DPW Permit for Sanitary Sewer

Approval of EPA Permit for water main

Approval of IDOT permit for work on IL 83

Site Utilities (water, sanitary, elec, tel, cable, gas)

Review and Approval of Covenants

Recording of Final Plat

Issuance of Permits for Carports

Issuance of Permits for Cottages

Construction of Cottages

Paving (curbs, pavement binder course)

Landscaping and Irrigation (Site Areas)

Main Building (Enclosure)

Offsite Roadway Improvements

Main Building (Interior)

Landscaping and Irrigation (around main building)

Complete Site Work

Acceptance of Subdivision Improvements

Reduction of Bond for Completed Work

Reduction of Bond to 10% Maintenance Period

Final Building Inspection and Punchlist

Certificates of Occupancy

Final Release of LOC/Bond

9/8/2016

9/12/16

Prior to any mass grading within the wetland area (est. 9/28/16)

Posted 9/20/16

Meeting held 9/20/16

Fees paid 9/20/16

9/27/16

10/5/16 – 12/14/16

Prior to Off Site Storm Sewer construction

1/9/17 - 2/26/17

Prior to Main Building Construction

11/21/16 – 9/22/17

10/24/16 – 12/23/16

Prior to Construction of Water main within the easement area

Prior to Construction of Sanitary Sewer

Prior to Construction of Water Main

Prior to Work in IDOT ROW

12/8/16 – 6/1/17

Prior to recording final plat

Within one year after BOT approval and prior to acceptance of subdivision improvements and issuance of CO

Prior to Construction

Prior to Construction

3/15/17 – 2/14/18

5/10/17 – 7/20/17

5/15/17 – 9/11/17

7/9/17 – 12/29/17

6/15/17 – 8/15/17

7/21/17 - 8/3/18

4/16/18 – 6/8/18

6/1/18 – 7/10/18

Prior to CO or 1 year after BOT approval of final plat, whichever occurs first

Upon Approval of Village Engineer

Upon Acceptance of Subdivision Improvements

7/23/18 – 8/3/18

8/9/18

2 years after acceptance of subdivision improvements

Note: The above schedule is an approximate schedule and may be adjusted. This schedule does not include the construction of buildings, parking lots, etc, within the commercial lot; which is subject to PUD final approval at which time specific construction schedules will be established relative to the subdivision improvements.

Prepared by:

Cross Engineering & Associates, Inc.; Revised by Village of Burr Ridge



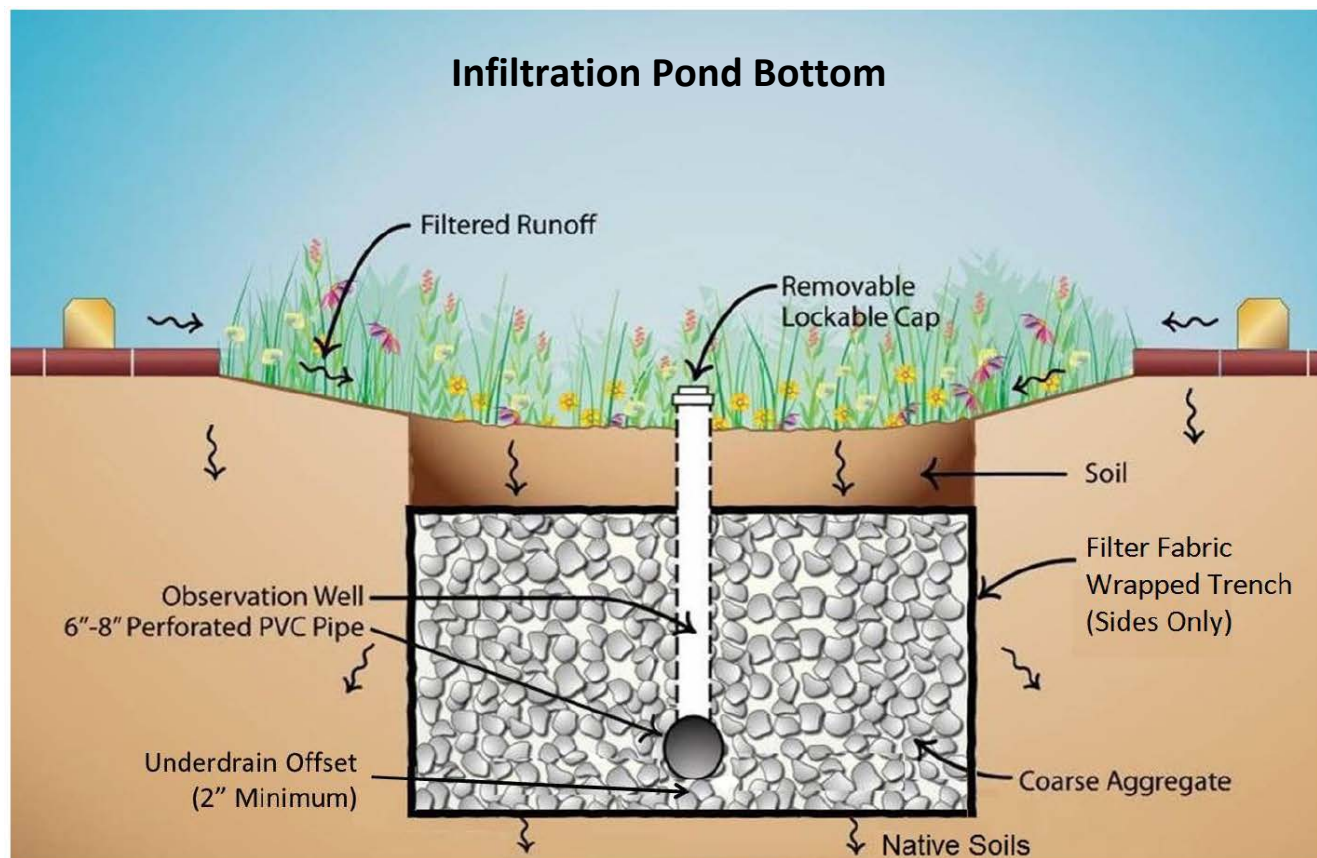


Figure 5.9. Example of Volume Control Practice

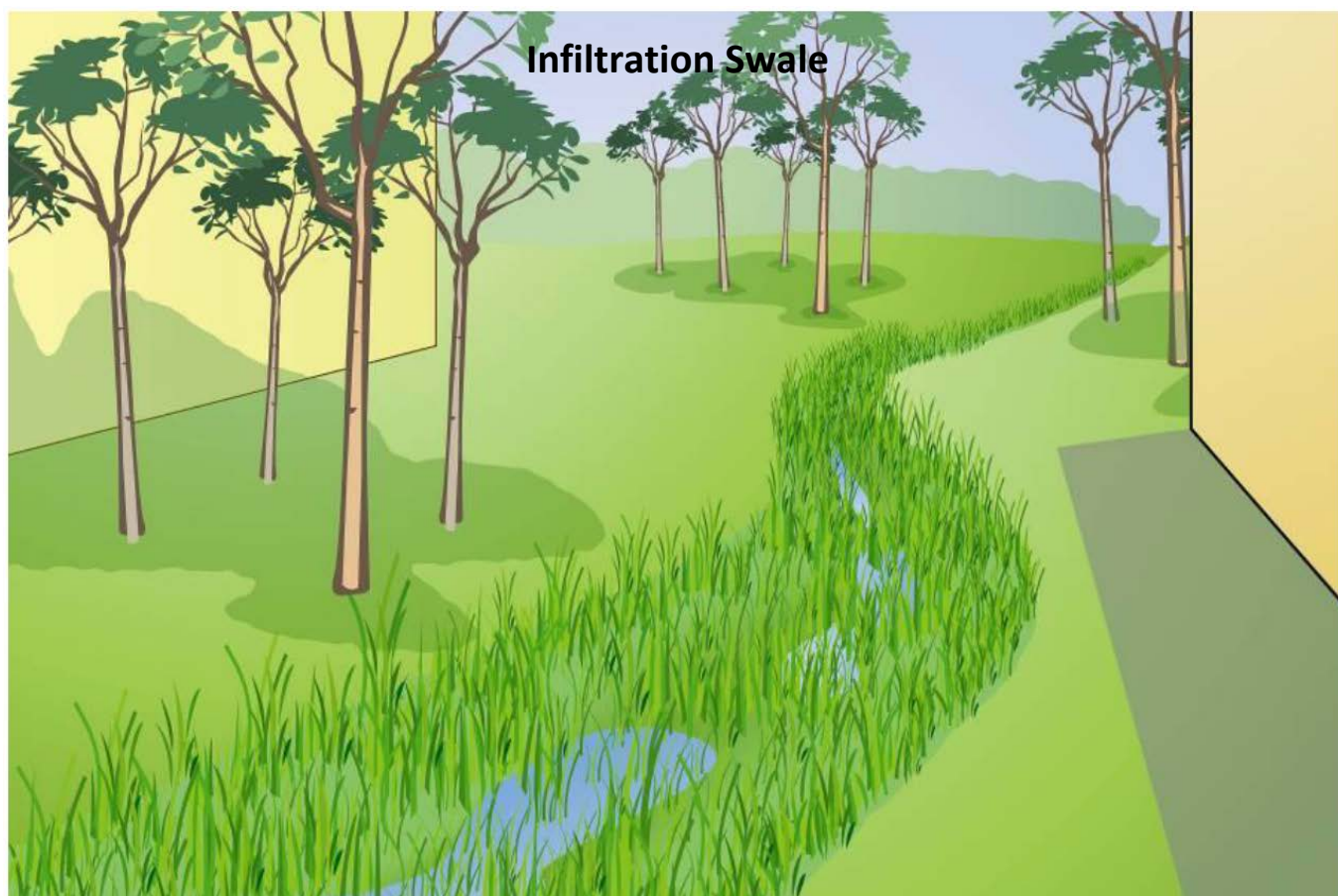


Figure 5.10. Flow-Through Practice



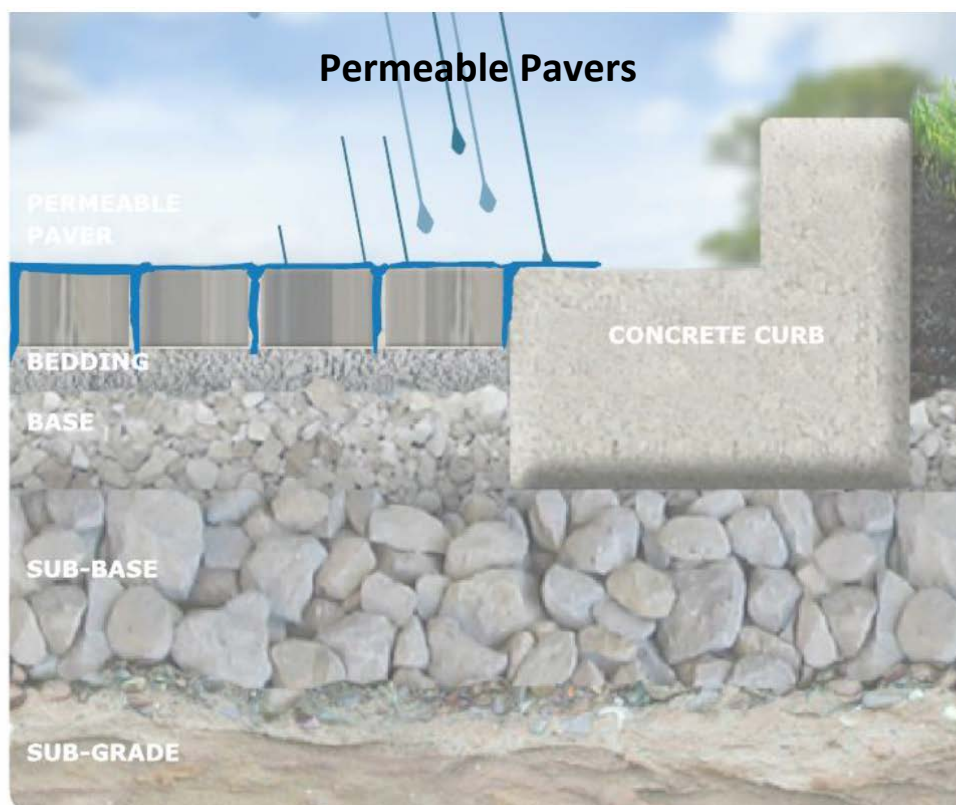


Figure 5.12. Example of a Permeable Paver Parking Lot Cross-Section (APT, 2011)

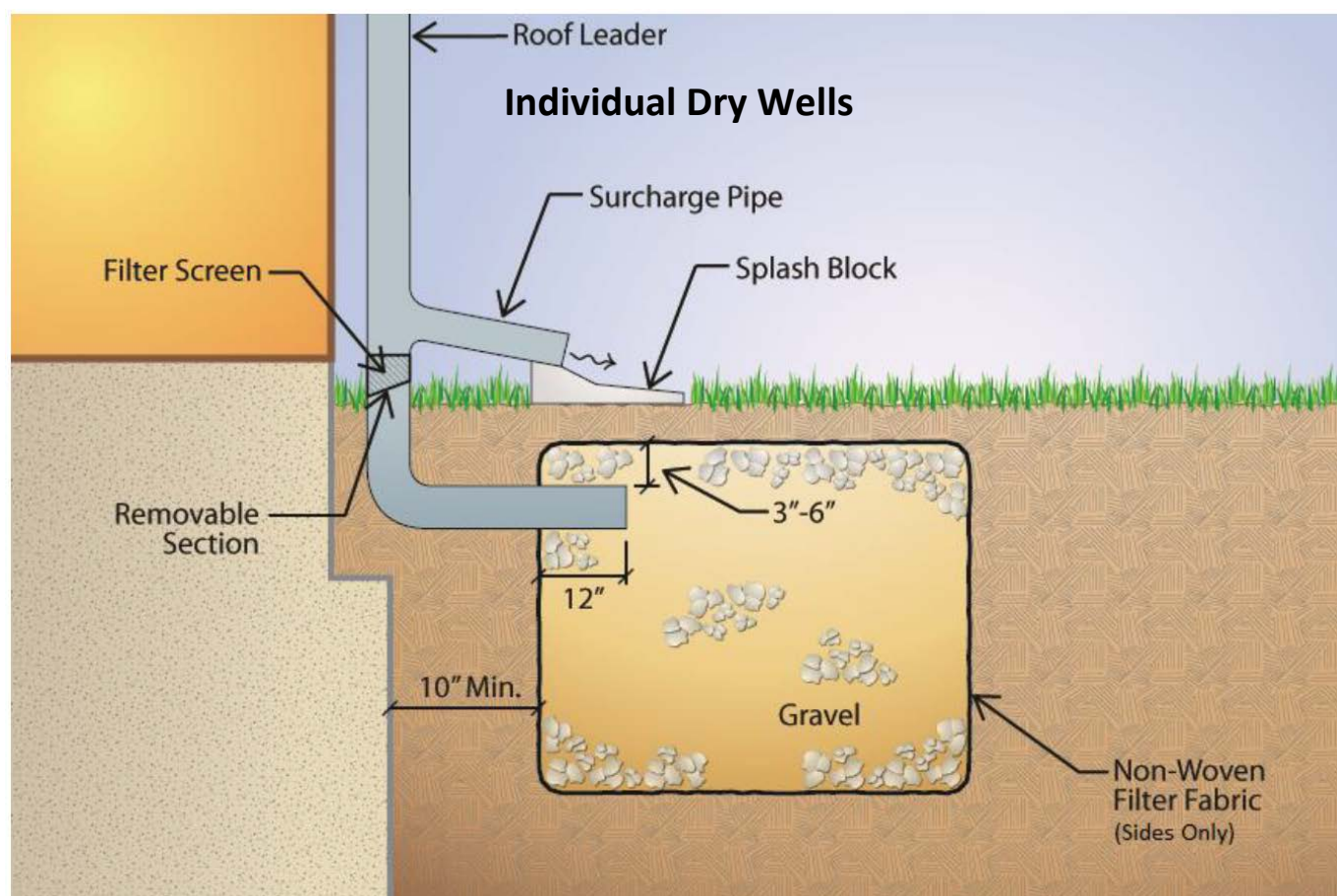


Figure 5.13. Typical cross-section for dry well

## DuPage County Regional NPDES Program Framework for Stormwater Compliance

The DuPage County qualifying local program has been created to address the National Pollutant Discharge Elimination System (NPDES) permit on a regional/ watershed scale in order to reduce overlap and redundancy in services. By mutual agreement, the program will address the six minimum control measures as well as provide monitoring and reporting on behalf of all participating MS4s (co-permittees). This shared responsibility will reduce cost and burden on the MS4s while providing the same or better level of service. Each MS4 may choose to participate in the County's program at a specific level of service to be formalized in an intergovernmental agreement. A minimum level of participation is required from all municipalities in the watershed to provide a comprehensive watershed wide program. These efforts shall take place throughout the East Branch DuPage River, West Branch DuPage River, and Salt Creek watersheds within the DuPage County, as well as where these watersheds extend into neighboring counties and municipalities. DuPage County will also continue these efforts within the watersheds of the Des Plaines River and Fox River watersheds that fall within the DuPage County borders unless an alternative watershed-wide program is created to encompass the entire Fox or Des Plaines River watersheds.

### Minimum Control Measures

#### 1. Public Education and Outreach on Stormwater Impacts

##### **Responsibilities of the COUNTY:**

DuPage County Stormwater Management will conduct public education and outreach activities throughout the region on a multitude of topics, such as watershed planning efforts, water quality, and best management practices (BMPs). On staff is a full time Stormwater Communications Supervisor who is responsible for managing stormwater education and outreach. The County also contracts annually, with several organizations that assist in providing additional education and outreach services pertaining to both technical and general education on stormwater impact topics.

- a. **Distribution of Publications.** Stormwater Management has created several handouts and brochures pertaining to sources of pollutants in waterways and water quality BMPs. These, as well as handouts from other entities, are distributed at public events, at the DuPage County complex, and through municipal partners. They are also available online. Informational topics include rain barrels, rain gardens, native plants, other green infrastructure techniques, citizen monitoring of waterways and seasonal BMPs for the spring, summer, fall and winter. Staff continues updating and developing educational materials to incorporate new and updated information, including the effects of climate change on stormwater impacts.

- b. **Speaking Engagements & Community Events.** Stormwater Management coordinates, hosts, and presents at many workshops and community events countywide throughout the year. Staff also invites outside speakers who are experts on particular topics to present. These events are held for residents, community groups, professional organizations, businesses, and governmental agencies. Among the topics discussed are water quality efforts for the watersheds, methods for pollutant reduction, during and after construction BMPs, native vegetation, and green infrastructure. In accordance with the updated NPDES requirements, presentations will include information on the potential impacts and effects of stormwater discharge due to climate change. Some of these presentations will be recorded and posted online for use by the County and municipalities for new staff or as a refresher course.
- c. **Public Service Announcements & Media.** Stormwater Management has taken advantage of technology to enhance outreach efforts. The department runs Facebook, Twitter, Instagram, and YouTube pages that detail water quality trends and highlight practices that can reduce the transport of pollutants into waterways. In recent years, Stormwater Management has created or modified six pollution prevention video public service announcements, as well as another eight videos detailing flood control facilities and water quality projects. The County promotes all of these informational outlets using a Stormwater Management monthly e-newsletter, distributed to more than 2,000 recipients. In addition, Stormwater Management engages in direct media relations using press releases and advisories to promote seasonal BMPs, events, and other stormwater-related news.
- d. **Classroom Education.** In partnership with schools and local educational organizations, DuPage County students are educated on stormwater management and water quality. Using several watershed models owned or borrowed by the County, students learn how watersheds work, including the transport of pollutants from watershed-wide land uses to waterways via stormwater. The students also learn about green infrastructure, such as rain gardens, permeable pavers, green roofs, native plants, and bioswales. DuPage County also promotes water quality and environmental efforts through the Water Quality Flag program. Schools and other institutions within the area can earn a Water Quality Flag by participating in certain educational trainings, using green infrastructure as a learning opportunity, and participating in a hands-on activity.

**Responsibilities of the MUNICIPALITY:**

The municipality will be responsible for promoting and advertising educational events and workshops within their jurisdictions. Municipalities are responsible for distributing educational materials to residents within the municipality. The municipality will also be responsible for ensuring their own staff attends workshops geared towards municipal staff on green infrastructure, good housekeeping, and other applicable topics to prevent and reduce the discharge of pollutants into waterways.

## 2. Public Involvement / Participation

**Responsibilities of the COUNTY:**

DuPage County Stormwater aims to inform the public on watershed initiatives and engage a broad range of individuals regarding policies and projects related to the control and reduction of pollutants in stormwater runoff. This is accomplished through technical trainings, stakeholder groups, volunteer opportunities, and public meetings. The County has identified environmental justice areas within the watershed planning jurisdictions in order to ensure prioritization of efforts in regards to public involvement and participation initiatives.

- a. **Public Panels.** Stormwater Management annually supports several training initiatives throughout the County, including The Conservation Foundation's Environmental Summit and biannual Beyond the Basics seminars and the DuPage River Salt Creek Workgroup's chloride reduction trainings. The purpose of the events is to engage local residents, organizations, and government agencies in pollution reduction practices and volunteer opportunities.
- b. **Stakeholder Meetings.** Stormwater Management hosts at least two regular water quality stakeholder meetings per year in each of the County's three main watersheds. These meetings address matters pertaining to pollutant reduction on a watershed level. In addition, input on water quality impairments is requested from stakeholders for incorporation into watershed planning efforts, which may cause the formation of separate stakeholder groups any given year.
- c. **Public Meetings & Hearings.** Stormwater Management will provide opportunity for public comment at several locations throughout the watershed in order to reach all interested residents on the adequacy of its MS4 program, watershed plans, and projects. At least one public meeting or hearing also accompanies public comment periods associated with plans or projects. The County will publicize public comment periods in accordance with its education and outreach initiatives and include opportunities to comment online, in person, or by mail.
- d. **Program Coordination.** Stormwater Management coordinates educational and public involvement strategies. To gauge their effectiveness, the County develops and distributes surveys via an email list, webpage, and on social media. These surveys measure citizen views, behaviors, and concerns pertaining to a variety of topics, including water quality, property management, flood perceptions, and residential pollutant control. County staff and/or educational partners analyze results of these surveys in order to improve and enhance the current program.
- e. **Volunteer Opportunities.** A variety of volunteer opportunities are sponsored by Stormwater Management, including:
  - The Adopt-a-Stream program, which engages the public by providing an opportunity to pick up trash and/or monitor a stretch of waterway;
  - The DuPage River Sweep, which is an annual event that allows residents, groups, schools, and businesses to volunteer for a day to pick trash out of a section of a local waterway; and



- The Storm Drain Stenciling program, where students can stencil information on a storm drain, which notifies the public where the drains lead and why nothing should be dumped into them.

**Responsibilities of the MUNICIPALITY:**

The municipality will be responsible for advertising and promoting meetings, hearings, and events online and within their jurisdictions. The municipality will also be responsible for ensuring attendance by their own staff, as necessary.

**3. Illicit Discharge Detection and Elimination****Responsibilities of the COUNTY:**

DuPage County will perform field inspections of all known MS4 outfall locations for illicit discharges. The County has created a hotline for the public to report illicit discharges. During the permit cycle, the DuPage County Stormwater Management will conduct inspections of outfalls within the watershed that are owned and maintained by partnering permittees.

- a. The County has developed a comprehensive storm sewer atlas from information obtained from partnering permittees, as well as other local and state entities. This atlas identifies the location of storm sewers and the outfalls point where a discharge into a Water of the State occurs. This atlas will be regularly updated to incorporate new projects as well as when updated information is received from other agencies. The atlas is also updated as outfall locations are verified and inspected for potential illicit discharges in the field.
- b. DuPage County will conduct the ten step prioritization program identified in the DuPage County IDDE Program Technical Guidance. The outfalls in each watershed will be inspected in the order of prioritization. Dry weather sampling will be conducted throughout the watershed in order to detect any non-stormwater discharges being conveyed through the storm sewer system.
- c. When a possible illicit discharge is located during dry weather conditions, field testing of pollutants is conducted. Testing parameters include temperature, surfactants, ammonia, fluoride, specific conductance, and pH.
- d. If a discharge from an outfall is suspected to be from an illicit source, then tracing procedures are conducted using the storm sewer atlas, as well as visual inspections of sewers in the field. When the source is located, the appropriate enforcement agency, as well as the owner of the property, are notified.
- e. DuPage County offers educational resources regarding illicit discharges to residents and businesses. Information regarding the County maintained IDDE Hotline is posted on DuPage County's website so that members of the public, residing throughout the watershed, can report suspected discharges from the storm sewer into a Water of the

State. The end goal is to stop the discharge and educate the polluter on the implications of such actions. The site of the discharge is evaluated to determine any necessary remediation actions.

- f. DuPage County conducts presentations to train appropriate staff members for all partnering permittees on the hazards associated with illicit discharges and the improper disposal of waste, as well as the requirement and mechanism for reporting such discharges.

#### **Responsibilities of the MUNICIPALITY:**

Illicit source removal procedures are outlined in IDDE ordinances, which are incorporated into and enforced through applicable County and municipal codes. Each municipality is responsible for enforcement within their jurisdiction or may elect to have the County enforce. If an MS4 chooses to have the COUNTY enforce their IDDE ordinance, such an arrangement must be established through an intergovernmental agreement. The municipality is also responsible for promoting use of the IDDE Hotline by their residents and promoting education to reduce illicit discharges within their jurisdictions.

#### **4. Construction Site Storm Water Runoff Control**

##### **Responsibilities of the COUNTY:**

DuPage County has developed and enacted the DuPage County Countywide Stormwater and Floodplain Ordinance (DCCSFPO) and will continue to administer the Ordinance and update as necessary. The Ordinance was first adopted in 1991 and has been revised several times. Sediment and erosion control provisions can be found in Section 15-40.E, 15-50, and Article VII of the DCCSFPO, last revised in April 2013. The DCCSFPO provides regulatory authority for developments in participating communities and unincorporated DuPage County. These communities may choose to review and process all aspects of the stormwater permit (complete waiver communities), while others may choose to delegate review authority for development in wetlands and floodplain, construction of post-construction BMPs, and sediment erosion control for developments over 1 acre to DuPage County (partial waiver communities), or the communities may allow DuPage County to review and process all aspects of the stormwater permit (non-waiver communities). The DCCSFPO establishes a minimum level of regulatory compliance that a municipality or unincorporated portion of the County must meet. As the DCCSFPO has been adopted into DuPage County's County Code, it serves as the regulatory mechanism for enforcement of these requirements. Development securities can be drawn upon in the event of non-compliance. Legal action through the State's Attorney's Office may also be applied. The DuPage County Stormwater Management Planning Committee oversees the administration and enforcement of the Ordinance on a countywide basis.

- a. The DCCSFPO includes provisions for sediment and erosion control. Site development plans for any construction site in which ground disturbance is occurring must include a sediment and erosion control plan. Each site development plan must provide proper sediment and erosion control in order to obtain a permit.
- b. Construction sites are inspected to ensure that disturbed areas meet soil erosion and sediment control requirements as outlined in the DCCSFPO. Inspections are conducted before and during construction to ensure proper sediment and erosion control. The DCCSFPO mandates that developments disturbing one acre or greater of land shall comply with the requirements of General Permit ILR10. As-built inspections are conducted on all development sites immediately following site development to ensure that each site is properly stabilized.

**Responsibilities of Municipality:**

Based on the level of service requested, the municipality shall provide one of the following:

If the municipality will conduct reviews of construction site runoff control on their own behalf:

- The municipality will be responsible for 4a and 4b. The municipality shall provide documentation to the County for inclusion in the annual report. This documentation should include the number of sediment and erosion control reviews and inspections conducted by the municipality for compliance with the NPDES program, as well as any enforcement action. Additional details may be required for inclusion of future annual reports as required by the IEPA.

If the County will perform reviews of construction site runoff control wholly or as requested on the behalf of the Municipality:

- The County will provide 4a and 4b, as well as document all sediment and erosion control reviews and inspections conducted on behalf of the municipality for inclusion in the annual report required by General Permit ILR40.

**5. Post-construction storm water management in new development and redevelopment****Responsibilities of the COUNTY:**

DuPage County has developed and enacted the DuPage County Countywide Stormwater and Floodplain Ordinance (DCCSFPO) and will continue to administer the Ordinance and update as necessary. The DCCSFPO was revised to include post-construction Best Management Practices in 2008. In 2013, the DCCSFPO was updated again to enhance the BMP section and add volume control requirements to all development sites increasing net new impervious area by 2,500 square feet or greater. Infiltration of runoff is allowed and considered to provide both volume and pollution control when sized correctly. BMP provisions can be found in Section 15-40.F, 15-49, and Article VIII of the DCCSFPO, last revised in April 2013. The DCCSFPO provides regulatory authority for developments in participating communities and unincorporated DuPage County. These communities may choose to review and process all aspects of the stormwater permit (complete waiver communities), while others may choose to delegate review authority for

development in wetlands and floodplain, construction of post-construction BMPs, and sediment erosion control for developments over 1 acre to DuPage County (partial waiver communities), or allow DuPage County to review and process all aspects of the stormwater permit (non-waiver communities). The DCCSFPO establishes a minimum level of regulatory compliance that a municipality or unincorporated portion of the County must meet. Inspections are conducted before, during, and after construction to ensure site stabilization. As the DCCSFPO has been adopted into the County Code, it serves as the regulatory mechanism for enforcement of these requirements. Development securities can be drawn upon in the event of non-compliance. Legal action through the State's Attorney's Office may also be applied. The DuPage County Stormwater Management Committee oversees the administration and enforcement of the Ordinance on a countywide basis.

- a. The DCCSFPO requires a management and monitoring period including performance standards for BMPs utilizing native vegetation to ensure successful establishment of the planted native species. The management and monitoring period is typically 1- 3 years or until performance standards are achieved, depending on the planting plan being implemented. Post-construction inspections are conducted at all development sites utilizing native vegetation as a BMP, as well as for wetland, buffer, or riparian restoration and enhancement. These inspections are conducted by staff at least once per year for the duration of the maintenance and monitoring period. Long term operations and maintenance will be established in the permit for development sites utilizing native vegetation as a BMP. Development sites proposing to implement mechanical BMPs must also include long term maintenance plans to ensure that they remain functional.
- b. The DCCSFPO requires that proposed BMP designs are submitted with a development permit application. BMPs are reviewed for compliance with the pollution control requirements, as well as volume control provisions.
- c. Reviews of as-built details of infiltration and mechanical BMPs are conducted during construction to ensure they are installed correctly. Rock size is provided for infiltration trenches, and catch basins are inspected for mechanical BMP placement. As-built inspections are conducted on all BMP development sites immediately following site development and stabilization to ensure that BMPs have been implemented according to plan.
- d. BMP training is conducted as new regulations are added to the Ordinance. This training is offered to the public and is also specifically targeted to municipalities, developers, consultants, and others often involved in the stormwater permitting process.

**Responsibilities of Municipality:**

Based on the level of service requested, the municipality shall provide one of the following:

If the Municipality will conduct BMP reviews on their own behalf:

- The Municipality will be responsible for 5a, 5b, and 5c. The Municipality shall provide documentation of 5a, 5b, and 5c to the County for inclusion in the annual report. This documentation should include the number of BMP permit



reviews and inspections conducted by the municipality for compliance with the NPDES program, as well as any enforcement action. Additional details may be required for inclusion of future annual reports as required by the IEPA. The County will provide services listed in 5d for the municipality's participation. The municipality will be responsible for ensuring municipal staff attends training as required by the IEPA.

If the County will perform BMP reviews wholly or as requested on the behalf of the municipality:

- The County will provide 5a, 5b, 5c on behalf of the municipality and provide training services listed in 5d. The County will document all BMP reviews conducted on behalf of the Municipality for inclusion in the annual report. The municipality will be responsible for ensuring appropriate staff attends BMP training.

## **6. Pollution prevention/ good housekeeping for municipal operations**

### **Responsibilities of the County:**

The County will organize training in procedures and practices that will minimize the discharge of pollutants from municipal operations into the storm sewer system for County and municipal staff. Examples of training topics include automobile maintenance, hazardous material storage, landscaping and lawn care, parking lot and street cleaning, pest control, pet waste collection, road salt application and storage, roadway and bridge maintenance, spill response and prevention, and storm drain system cleaning.

The County will create checklists and/or guidance materials to assist County and municipal staff in following the good housekeeping measures outlined in the ILR40 permit.

DuPage County Stormwater Management has the ability to provide shared services to local communities, in regards to maintenance of BMPs and associated infrastructure. This may include vegetation management, storm sewer cleanout, street sweeping, and other maintenance activities. The shared services will be determined by the equipment and staff available from participating agencies. Each municipality interested in shared services will have a specific contract identifying the scope, duties & responsibilities which would be incorporated into an IGA.

### **Responsibilities of the Municipality:**

The municipality will be responsible for ensuring that all applicable municipal staff positions attend appropriate training for their duties to prevent and minimize the discharge of pollutants into waterways. The municipality will also be responsible for ensuring their staff and procedures adhere to good housekeeping measures in order to minimize the discharge of pollutants from

municipal properties, infrastructure, and operations. The municipality may choose to partner with the County to share services for maintenance of BMPs and associated infrastructure.

## **Monitoring**

### **Responsibilities of the County:**

The County will be responsible for developing and implementing a monitoring and assessment program. This will include an evaluation of BMPs based on estimated effectiveness from published research accompanied by an inventory of the number and location of BMPs implemented as part of DuPage County and the Municipalities NPDES program and an estimate of pollutant reduction resulting from the BMPs. The County will also support and contribute to the DuPage River Salt Creek Workgroup ambient monitoring of waterways which will be performed within 48 hours of a precipitation event greater than or equal to one quarter inch in a 24-hour period. At a minimum, analysis of storm water discharges or ambient water quality will include monitoring for total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease. In addition, monitoring will be performed for any other pollutants associated with storm water runoff for which the receiving water is considered impaired pursuant to the most recently approved list under Section 303(d) of the Clean Water Act.

### **Responsibilities of the Municipality:**

The Municipality shall provide to the County locations and details on BMPs implemented as part of the NPDES program within their jurisdictions for inclusion in the BMP inventory.

## **Reporting**

### **Responsibilities of the County:**

The County will be responsible for ensuring annual reports are completed and submitted to the IEPA by June 1 of each year. Annual reports will include an evaluation of each minimum control measure, as well as reporting on measureable goals.

### **Responsibilities of the Municipality:**

The municipality will be responsible for ensuring that DuPage County Stormwater Management has all applicable documentation for inclusion in the annual report by May 1 of each year. Documentation shall include details on how the municipality promoted education and outreach efforts within their jurisdiction. The municipality will also provide statistics on permits issued for and inspections of development sites including Construction Site Stormwater Runoff Control and Post-Construction Stormwater Management conducted by the municipalities, including any required enforcement efforts. The municipality will provide any documentation on IDDE enforcement. The municipality will also be responsible for providing the County with current staff headcounts for recordkeeping and reporting of good housekeeping related training.



## Dolfor/Walredon Yard Survey

By Jim Miedema, P.E. and Rebecca Ventura, Intern

*Feel free to contact us with any questions*

*Village of Burr Ridge Public Works*

*451 Commerce Street, Burr Ridge, IL 60527*

*(630) 323-4733*

[jmiedema@burr-ridge.gov](mailto:jmiedema@burr-ridge.gov)

ITEM 7

61

8360

2

6" Pipe  
1% Grade  
Installed 2' off  
Property Line

8401

100 feet

8400

85 feet

1

Existing Inlet

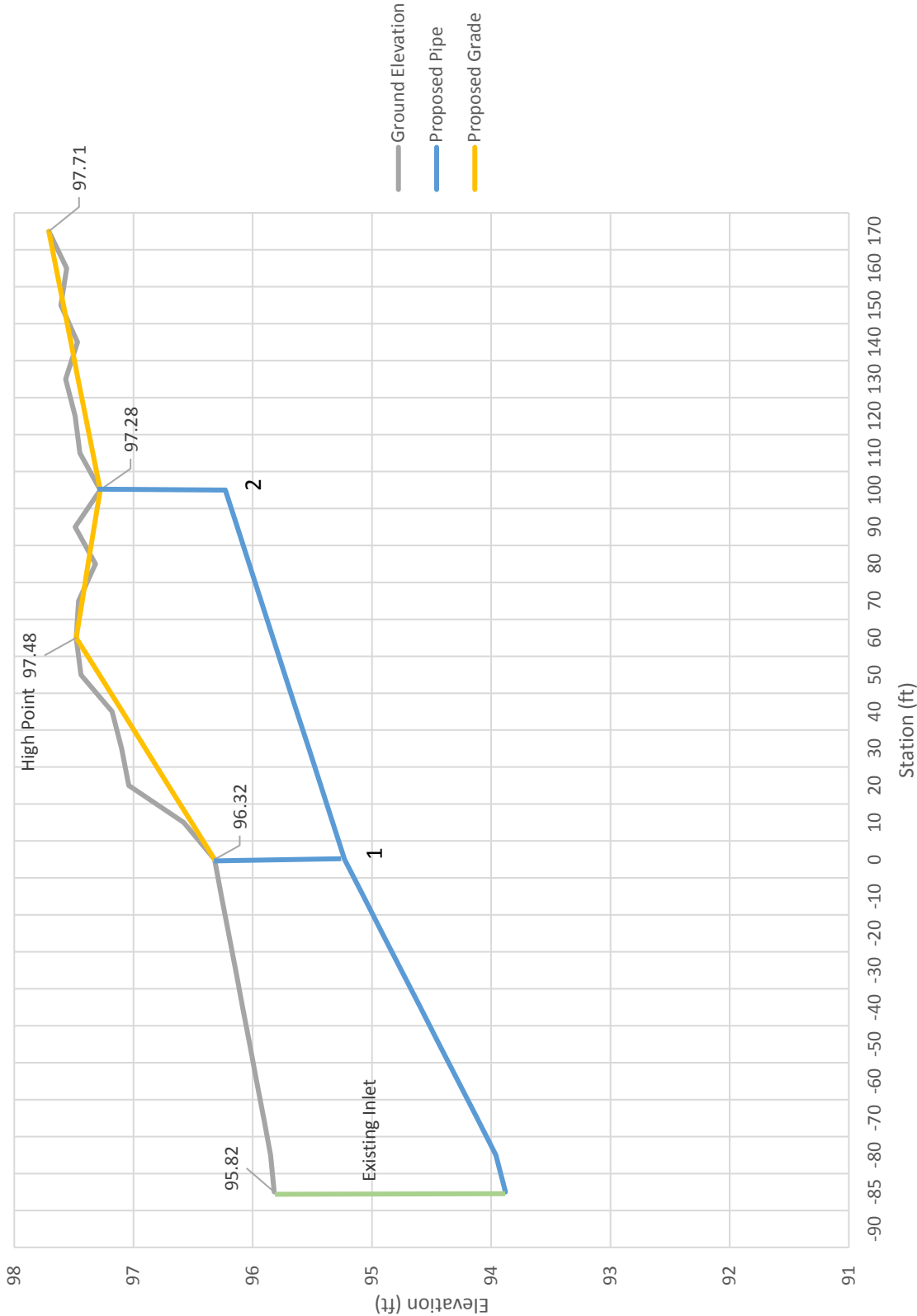
8413

8412





Current Ground Elevation, Proposed Pipe, and Proposed Grading



# ITEM 7

Station	Depth between Pipe and Ground Elevation (ft)		Ground Elevation (ft)	Proposed Pipe (ft)	Proposed Grade (ft)
	ft	in			
-85	1	11	95.82	93.88	
-80	1	11	95.85	93.96	
-70	1	9	95.91	94.12	
-60	1	8	95.97	94.28	
-50	1	7	96.03	94.44	
-40	1	6	96.08	94.59	
-30	1	5	96.14	94.75	
-20	1	3	96.20	94.91	
-10	1	2	96.26	95.07	
0	1	1	96.32	94.73	96.32
10	1	3	96.58	95.33	96.51
20	1	7	97.04	95.43	96.71
30	1	7	97.1	95.53	96.90
40	1	7	97.18	95.63	97.09
50	1	9	97.44	95.73	97.29
60	1	8	97.48	95.83	97.48
70	1	6	97.46	95.93	97.43
80	1	3	97.32	96.03	97.38
90	1	4	97.49	96.13	97.33
100	1	1	97.28	96.23	97.28
110			97.45	96.33	97.34
120			97.49	96.43	97.40
130			97.57	96.53	97.46
140			97.47	96.63	97.53
150			97.61	96.73	97.59
160			97.56	96.83	97.65
170			97.71	96.93	97.71



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DuPage Maps Portal:  
<http://dupage.maps.arcgis.com/home>

DuPage County, Illinois Web Site:  
[www.dupageco.org](http://www.dupageco.org)

This map is for assessment purposes only.

