

STORM WATER POLLUTION PREVENTION PLAN REPORT

Project Name: Sable Drive Storm Sewer Reconstruction Project
County: Porter County
City: Valparaiso
Location: Sable Drive from Robyn Road to McCool Road.
Project Area: 1.10 Acres
Disturbed Area: 1.10 Acres
Start/End Date: March 2024/July 2025
HUC: 04040001050030
Latitude / Longitude: 41°32'45" N / 87°07'36" W
Civil Township: Sec. 6, T35N, R6W,
Union Township

Project Owner: Porter Co. Dept. Of Development & Storm
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FEBRUARY 2024

DLZ # 2264-1425-90



A1 – Index Showing Locations of Required Plan Elements

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A1 - Appendix A

Project Drawings including Erosion Control Plans

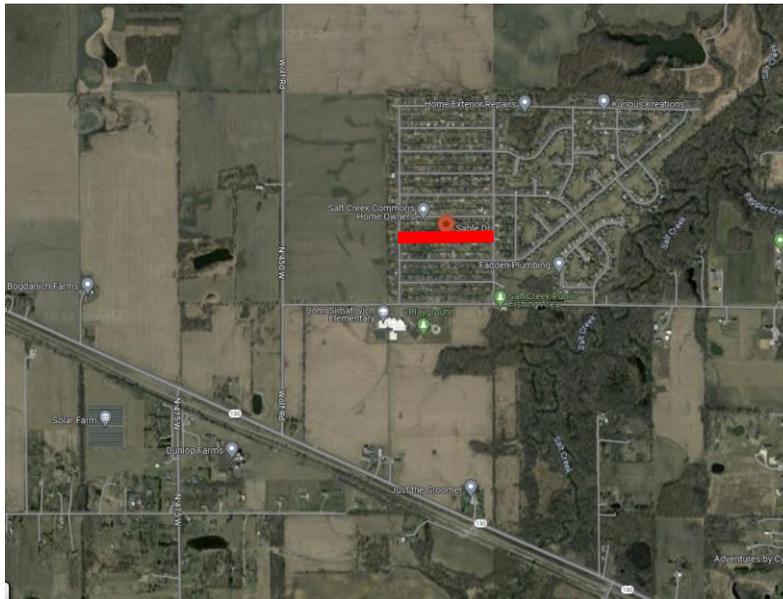
Sample Site Inspection Form

Notice of Intent Copy

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A2 – A vicinity map depicting the project site location in relationship to recognizable local landmarks, towns, and major road

The drawing below depicts the project areas in relation to surrounding streets.



Project Location in Valparaiso, Porter County, IN

A3 – Narrative Describing the Nature and Purpose of the Project

The purpose of this project is to reconstruct the roadway on Sable Drive and installation of new storm sewer.

A4 – Latitude and longitude to the nearest fifteen (15) seconds

The latitude and longitude for the project site is 41°32'45" N / 87°07'36" W.

A5 – Legal Description of the Project Site

The project is located in Section 6, T35N, R6W, St. Union Township in City of Valparaiso, Porter County, Indiana.

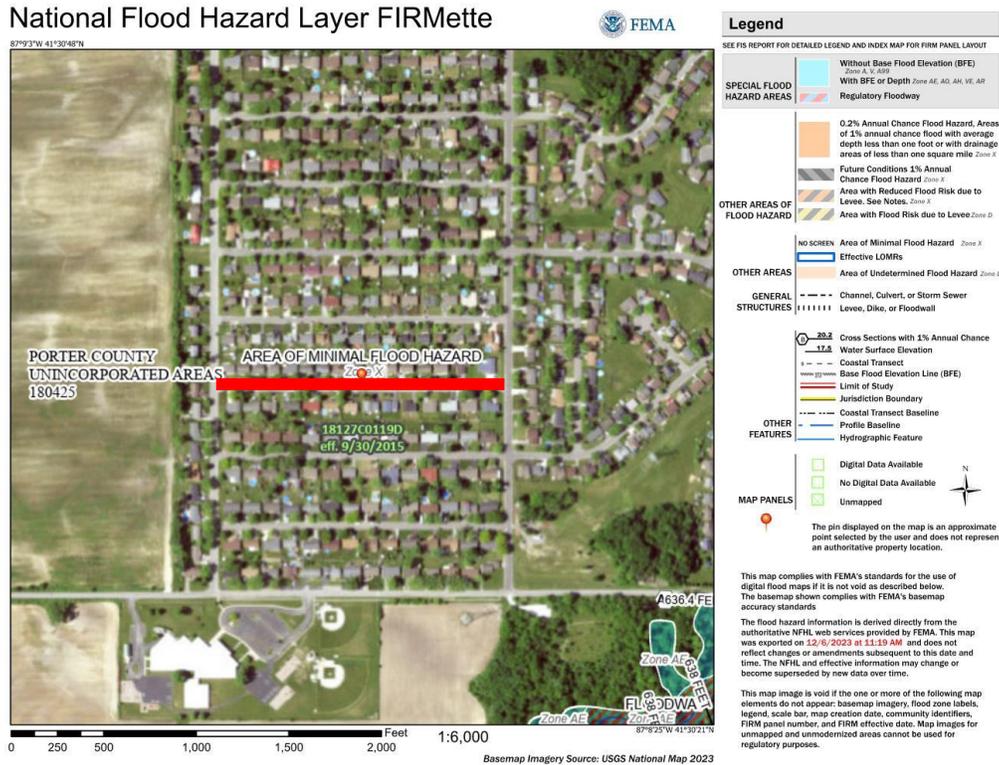
A6 – 11 X 17-inch plat showing building lot numbers/boundaries and road layout/names

The existing and proposed site conditions, including lot lines, property lines, and right-of way lines, are shown in attached plans included in Appendix A. (Sheets: 5-7)

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A7 – Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways

As indicated on the maps below, the project limit does not lie within the limits of a FEMA regulatory floodway or floodplain. The panel that the project limits lie within are 18127C0119D.



Project Location

A8 – Land use of all adjacent properties

The land use adjacent to the project limits is residential and farmland.

A9 – Identification of a U.S. EPA approved or established TMDL

Based on the Hydrologic Unit code (HUC), the project limit falls within the Salt Creek Watershed. From the IDEM website there are TMDL recorded. The Salt Creek Watershed which has a recorded TMDL of E. Coli and Impaired Biotic Communities.

A10 – Name(s) of the receiving water(s)

The receiving water for this project is Salt Creek.

A11 – Identification of discharges to a water on the current 303d list of impaired waters and the pollutant(s) for which it is impaired

According to the IDEM website, Salt Creek is not listed under 303(d).

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A12 – Soil map of the predominant soil types

Below are maps from the United States Department of Agriculture, Soil Conservation “Soil Survey of Lake County, Indiana.”



The project area is composed of OzaB2 & BaA. Soil Map Unit Descriptions are shown below.

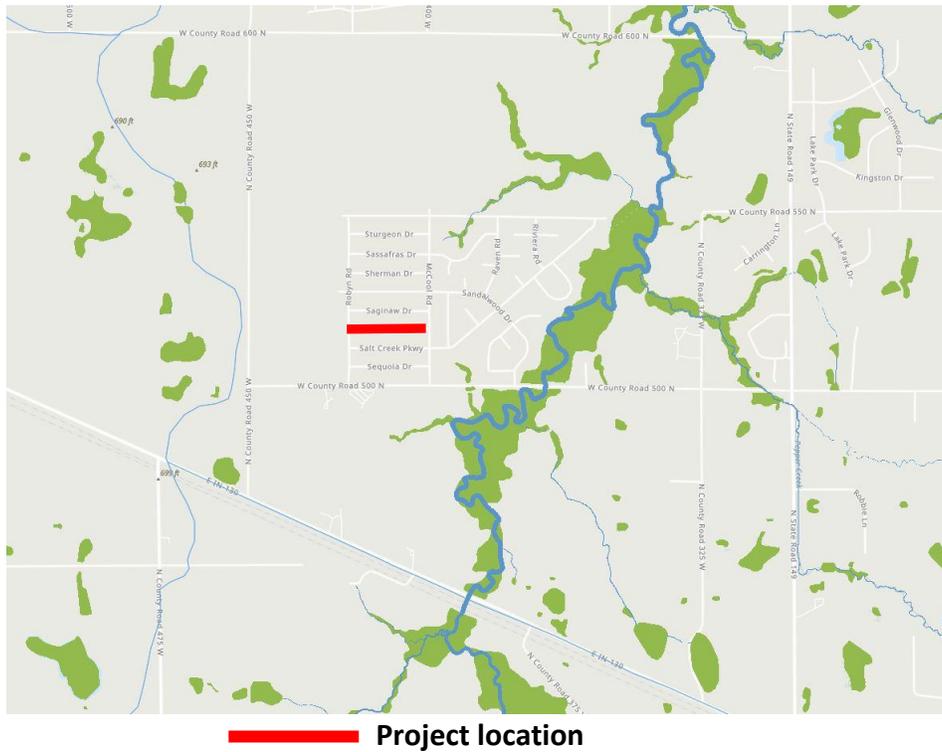


Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BaA	Blount silt loam, Lake Michigan Lobe, 0 to 2 percent slopes	0.3	32.9%
OzaB2	Ozaukee silt loam, 2 to 6 percent slopes, eroded	0.4	43.8%
OzaC2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	0.1	12.3%
Pe	Pewamo silty clay loam	0.1	11.0%
Totals for Area of Interest		0.9	100.0%

A13 – Identification and location of all known wetlands, lakes and water courses on or adjacent to the project site (construction plan, existing site layout)

As indicated on the IDEM Map below, there are wetlands near the project site. The largest wetland is located east to the project.



A14 – Identification of any other state or federal water quality permits or authorizations that are required for construction activities

There are no additional permits required.

*Valparaiso TOD – Downtown Trail***A15 – Identification and delineation of existing cover, including natural buffers**

See plan (Sheets: 5 – 7) included in Appendix A for the existing cover within the project limits. Natural buffers are not included in the project limit. As noted previously, existing land use in the project area is residential which results in existing cover to be roofs, lawns of buildings, asphalt roadway, and sidewalk.

A16 – Existing topography at a contour interval appropriate to indicate drainage patterns

In Appendix A, see the attached plan sheets (Sheets: 5 - 7) for existing site topography and contour information.

A17 – Location(s) of where run-off enters the project site

Generally, the run-off for this project will be from roadway, roofs, driveways, and front lawns of buildings.

A18 – Location(s) of where run-off discharges from the project site prior to land disturbance

Stormwater from the proposed improvements will drain into proposed storm sewers within the project limits. See plans (Sheets: 5 - 7) in Appendix A.

A19 – Location of all existing structures on the project site

See plan sheets (Sheets: 5 - 7) included in Appendix A, for the locations and approximate boundaries of all disturbed areas.

A20 – Existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management

The following map indicates that there is a pond adjacent to the project site. No impacts to the retention pond are proposed with this project.



Project Location

*Valparaiso TOD – Downtown Trail***A21 – Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features**

There are no wells, sinkholes, karst features or other locations where stormwater may directly discharge into ground water within the project limit.

A22 – Size of the project area expressed in acres

The size of the project area is 1.10 acres.

A23 – Total expected land disturbance expressed in acres

The size of the disturbed area is 1.10 acres.

A24 – Proposed final topography

See plan set (Sheets: 5 - 7) in Appendix A for final topography. The majority of the project area will be returned to elevations and grades at or near existing elevations and grades.

A25 – Locations and approximate boundaries of all disturbed areas

See attached construction drawings (Sheets: 5 - 7) included in Appendix A, for the locations and approximate boundaries of all disturbed areas.

A26 – Location, size, and dimensions of all stormwater drainage systems, such as culverts, storm sewers, and conveyance channels

See plan sheets (Sheets: 5 - 7) included in Appendix A, for the locations, size, and dimensions of all storm drainage system.

A27 – Locations of specific points where stormwater and non-stormwater discharges will leave the project site

Storm water from the project site will drain into existing storm sewer network. See plans (Sheets: 5 - 7) shown in Appendix A.

A28 – Location of all proposed site improvements, including roads, utilities, lot delineation and identification, proposed structures, and common areas

See the included construction drawings in Appendix A for locations of all proposed site improvements, including roadway and storm drainage system.

A29 – Location of all on-site soil stockpiles and borrow areas

Any areas deemed necessary to stockpile soil throughout the course of construction shall be added by the contractor to the on-site up-to-date record of the Stormwater Pollution Prevention Plan.

A30 – Construction support activities that are expected to be part of the project

Not applicable to this project.

*Valparaiso TOD – Downtown Trail***A31 – Location of any in-stream activities that are planned for the project including, but not limited to stream crossings and pump arounds**

Not applicable for this project.

B1 – Description of the potential pollutant generating sources and pollutants, including all potential non-stormwater discharges

Potential sources of pollution include fuel and oil leakage from equipment and vehicles, and fueling locations, materials storage, and sediment runoff. Contractor shall submit construction staging plan to the Owner, Municipality, and/or Engineer detailing all vehicle and equipment parking areas, fueling locations, construction trailer placement, stockpiles, borrow piles, disposal areas, and designated concrete truck washout areas or method of portable concrete truck washout collection. Maintain a copy of this documentation on site at all times.

Adequate wetting to suppress the dust shall be employed before and during the demolition or when deemed necessary as determined by the Environmental Site Manager (ESM) or responsible individual. The Contractor shall also comply with Section 107.15 and 108.04 of the most current version of the INDOT Standard Specifications and any supplements thereto.

B2 - Stable construction entrance locations and specifications

Any areas deemed necessary for a construction entrance throughout the course of construction shall be added by the Contractor to the on-site up-to-date record of the Stormwater Pollution Prevention Plan. Any sediment or debris tracked out of the project area must be cleaned up the same day it occurs. Generally, the existing pavement will be used as the construction entrance.

B3 - Specifications for temporary and permanent stabilization

Mulched Seeding U will be placed on disturbed areas at the rate of 200 lb/acre throughout the project. See Section 621.06 (b) of INDOT Specification and sequencing information regarding temporary seeding and the various seed mixtures, applied rates and seasons.

B4 - Sediment control measures for concentrated flow areas

Not applicable to this project.

B5 - Sediment control measures for sheet flow areas.

Sediment control measures for sheet flow areas will be silt fence installed and maintained in accordance with the erosion control plan (Sheets: 5 - 7) included in Appendix A.

B6 - Run-off control measures

Additional run-off control measure including diversions, rock check dams, and slope are not applicable to this project.

*Valparaiso TOD – Downtown Trail***B7 - Stormwater outlet protection locations and specifications**

Outlet protection will be applied to the existing and proposed culvert outfalls.

B8 - Grade stabilization structure locations and specifications

Not applicable to this project.

B9 - Dewatering applications and management methods

In cases where Dewatering is required, a pump shall be used. The discharged water will be handled by the Contractor in accordance with Section 107.15 to 108.04 of the most current version of the INDOT Standard Specifications and any supplements thereto.

B10 Measures utilized for work within waterbodies

Not applicable to this project.

B11 – Maintenance guidelines for each proposed temporary stormwater quality measure

On-site monitoring will be performed by the Contractor. The contractor has full responsibility of inspecting the erosion control measures on a daily basis. The Contractor shall designate an individual responsible for installation, inspection, and maintenance of these measures. At a minimum, practices need to be inspected weekly, within 24 hours after each storm event over ½ inch and daily during prolonged storm events. Inspection of practices during a storm event is advantageous because the inspector can easily identify where measures need to be repaired or replaced. Failing practices shall be repaired or replaced immediately.

General guidance on maintenance is provided with the detail drawings on plans. A sample inspection form is provided in Appendix A. In addition to inspection of the site, the Contractor will be required to maintain all erosion control measures in accordance with Section 205.04 of the most current INDOT Standard Specifications and as directed by the Resident Project Representative. Copies of the self-inspection report shall be forwarded to the MS4 Coordinator by email on a weekly basis.

B12 - Planned construction sequence describing the relationship between implementation of stormwater quality measures in relation to land disturbance

An Owner's representative in conjunction with the Contractor shall inspect practices at least once a week and make repairs immediately after periods of rainfall during all phases of the Erosion Control Construction Sequence.

1. *Evaluation/Protection of Important Site Characteristics* – Before construction, mark, and protect any areas where vegetation is to remain.
2. *Construction Routes, Equipment Parking Areas* –All ingress and egress points shall be stabilized and utilize existing paved surfaces where possible.
3. *Perimeter Protection* – Install principal barriers after construction site is assessed and as land disturbance begins. Install additional barriers as needed during grading.

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4. *Inlet Protection* – Protection of existing structures to be installed prior to earthwork or clearing. Additional protection shall be installed as construction progresses around any newly installed drains.
5. *Demolition, Cutting/Filling* – Begin major clearing and grading only after installing the key sediment and runoff measures. Install additional control measures as grading progresses. Control dust during demolition.
6. *Underground Utility Installation* – Begin removals and construction of storm sewer modifications only after installing the key sediment and runoff measures. Control dust during removals and installation of all other utility modifications. All other utility relocations will be permitted separately through utility company.
7. *Outlet Protection and Bank Stabilization* - Immediately following placement of outfall structures of the temporary sediment basins, adjacent area will be stabilized with stone. Bank restoration will be implemented as soon as removal of existing walls and debris, along with adjacent grading, is complete.
8. *Temporary Seeding* – Apply temporary stabilization measures immediately on all disturbed areas where work is delayed or completed for 7 days or more.
9. *Paving* – Pave roadway, trail, and driveway approaches.
10. *Permanent Seeding and Landscape*– Install landscape measures as shown on plans after adjacent hardscape work is completed.
11. *Construction Close Out* – Remove remaining temporary measures (perimeter protection & inlet protection) and restore affected areas as needed. Maintain post construction water quality (lawn areas).
12. *Final Site Inspection* - A final site inspection will take place to assure that all requirements of the SWPPP, construction plans, and supporting documents have been fulfilled. Then a Notice of Termination (NOT) must be submitted to and approved by the Indiana Department of Environmental Management office. The NOT form can be found at <http://www.in.gov/icpr/webfile/formsdiv/51514.pdf>.

B13 - Provisions for erosion and sediment control on individual building lots regulated under the proposed project

Not applicable to this project.

B14 - Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1

Prior to the commencement of construction, the Contractor will be required to submit a material handling and spill prevention plan. The contractor is responsible for prevention and cleanup of any of these sources. The contractor is urged to protect the site and maintain a single storage and fueling area on site (if on site fueling cannot be avoided). It is the responsibility of the contractor to handle the pollutant properly and respond to a spill.

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Materials should be stored in a manner that prevents or minimizes the chance that a spill will reach soils, groundwater, or surface water. Materials stored inside shall be placed in a manner to prevent a spill from migrating outside the confines of the building or into any drain leaving the building and discharging to the coils, ground water or surface water.

If a spill does occur, then the spill must be contained immediately utilizing appropriate response techniques including diking and absorbents. Clean up of the spill should occur as soon as possible once the spill is stabilized and contained. Spills shall be cleaned up using acceptable methods such as, absorbents on impervious surfaces or removal of contaminated soils. All spills that occur near an inlet to the stormwater conveyance system must have “curbing” implemented immediately. “Curbing” is the use of a barrier (absorbent material) which prevents the spill from making contact with the stormwater conveyance system or stormwater runoff. In all cases cleanup standards must adhere to local, state, and federal requirements. Failure to clean up any spill is a violation of the Indiana State Spill Rule (327 IAC 2-6.1), which is enforced by the Indiana Department of Environmental Management (IDEM). Certain spills must be reported to the local response agency, Local Emergency Planning Committee and/or IDEM and City of Valparaiso. Initial calls should be made to the 911 system if the spill exceeds reportable quantities or is a threat to public safety. The 911 system will typically notify the Fire Department. IDEM (1-888-233-7745) can typically assist with information on cleanup operations or clean up contractors.

B15 – Material handling and storage procedures associated with construction activity

Material handling and storage procedures associated with the construction activity will be included in the contractor Stormwater Management Plan as described in Section 205 of the INDOT Standard and Specification. This The materials associated with this project are pipe, structural backfill and equipment storage. Possible leaks from equipment shall be cleaned up using acceptable methods such as, absorbents on impervious surfaces or removal of contaminated soils. All spills that occur near an inlet to the stormwater conveyance system must have “curbing” implemented immediately. “Curbing” is the use of a barrier (absorbent material) which prevents the spill from contacting the stormwater conveyance system or stormwater runoff.

C1 - Description of pollutants and their sources associated with the proposed land use

This project pollutant sources will be similar to those already existing in the project area, as it is mainly composed of impervious roadway. Pollutants that may be generated during construction include oil, grease, antifreeze, brake fluid, brake dust, rubber, gasoline, diesel, metals, grit, trash, road salt and sand.

C2 - Description of proposed post-construction stormwater measures

All impervious surfaces will essentially be restored, and runoff will continue to be captured by existing storm sewers, culverts, swales, and ditches. See plan (Sheets: 5 -7) in Appendix A.

*Valparaiso TOD – Downtown Trail***C3 - Plan details for each stormwater measure**

See the plans (Sheet 5) for type of casings and pipes to be used on the project. Refer to Division 700 in the most current version of the INDOT Standard Drawings for properties of the storm sewer network indicated on the plan set.

C4 – Sequence describing stormwater measure implementation

This project involves boardwalk trail, concrete trail, concrete ramps, and driveway approaches. All disturbed areas will be stabilized with grass/ plantings per specifications after final grade is achieved. These measures will be constructed at locations indicated on the plans (Sheets: 5 - 7) prior to adjacent areas being graded to them.

C5 – Maintenance guidelines for proposed post-construction stormwater measures

No new post-construction stormwater measures are proposed. All post-construction run-off enters the storm system.

C6 – Entity that will be responsible for operation and maintenance of the post-construction stormwater measures

The Porter County Department of Development & Storm Water Management will clean and remove sediment and debris from stormwater structures. Inspections of stormwater structures will occur after significant rain events during the first year. The Porter County Department of Development & Storm Water Management will adjust the frequency of inspections and cleaning, as necessary after the first year, based on its findings.

Attachment A
Sample Site Inspection Form

Appendix A

Project Drawings including
Erosion Control Plans
Notice of Intent Copy
Legal Ad

Storm Water Pollution Prevention Plan
Sable Drive Storm Sewer Reconstruction Project

Appendix A

Roadway Plans & Supporting Documents

Project Drawings
Storm Water, Erosion, and Sediment Control Inspection Report

Forms
Proof of Publication
Notice of Intent (NOI)