



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Application for Permit or Construction Approval WPC-PS-1

For IEPA Use Only

This form must be typewritten or printed legibly. This form may be completed manually or online using Adobe Reader, a copy of it saved locally, printed, and signed before it is submitted to:

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Reset All Fields

1. Owner Name: Silverthorne Development Company
- Name of Project: Ashwood Heights - Phase 2
- Project Location Address (include nearest street and city address): Northwest corner of 103rd Street and 248th Avenue
- City: Naperville Zip Code: 60544
- Township: Wheatland County: Will

2. Brief Description of the Project:

Construction of approximately 305 LF of 6" PVC, 249 LF of 8" PVC sanitary pipe and 2 manholes to serve 9 single-family homes.

3. Documents being Submitted: If the Project involves any of the items listed below, submit the corresponding schedule, and check the appropriate boxes

	Schedule		Schedule
Private Sewer Connection/Extensions	A/B <input checked="" type="checkbox"/>	Spray Irrigation	H <input type="checkbox"/>
Sewer Extension Construction Only	C <input type="checkbox"/>	Septic Tanks	I <input type="checkbox"/>
Sewage Treatment Works	D <input type="checkbox"/>	Industrial Treatment/Pretreatment	J <input type="checkbox"/>
Excess Flow Treatment	E <input type="checkbox"/>	Waste Characteristics	N <input type="checkbox"/>
Lift Station/force Main	F <input type="checkbox"/>	Erosion Control	P <input type="checkbox"/>
Fast Track Service Connection	FTP <input type="checkbox"/>	Trust Disclosure	T <input type="checkbox"/>
Sludge Disposal	G <input type="checkbox"/>		

Plans:

Title: Final Site Development Plans for Ashwood Heights - Phase 2 No. of Pages: 15

Specifications:

Title: Included in the Engineering Plans No. of Books/Pages: N/A

Other Documents: N/A
(Please specify)

3.1 Illinois Historic Preservation Agency approval letter Yes No

(If you have a copy of the IHPA approval letter, please send in with the Permit Application Package)

4. Land Trust: Is the project identified in item Number 1 therein, for which a permit is requested, to be constructed on land which is the subject of a trust? Yes No

If yes, Schedule T (Trust Disclosure) must be completed and item 7.1.1 must be signed by a beneficiary trustee or trust officer.

5. This is an application for (Check appropriate box):

- A. Joint Construction and Operating Permit
- B. Authorization to Construct (See Instructions) NPDES Permit No. IL00: _____ Issuance Date: _____
- C. Construction Only Permit (Does Not Include Operations)
- D. Operate Only Permit (Does Not Include Construction)
- E. Supplemental Permit Request to Existing State Construction or Operating Permit No.: _____
Issuance Date: _____

6. Certifications and Approval

6.1 Certificate by Design Engineer (When required: refer to instructions)

I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction.

Licensed Professional Engineer's Name: Randall W. Bus, P.E.

Licensed Professional Engineer's Title: Senior Project Manager

Registration Number: 062-032381 License Expiration Date: November 30, 2023

Company: CEMCON, Ltd.

Street Address: 2280 White Oak Circle, Suite 100 PO Box: _____

City: Aurora State: IL Zip + 4: 60504

Email Address: randyb@cemcon.com Phone: (630) 862-2100

Printed Name: Randall W. Bus, P.E.


Original Signature

4/20/22
Date

Licensed Professional Engineer's Seal

7. Certifications and Approvals for Permits:

7.1 Certificate by Applicant(s):

I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board. I/we hereby agree to conform with the Standard conditions and with any other Special Conditions made part of this Permit.

7.1.1 Name of Applicant for Permit to Construct: Silverthorne Development Company

Title: _____ Organization: same as above

Street Address: 1827 E. Lincoln Highway PO Box: _____

City: DeKalb State: IL Zip + 4: 60115

Email Address: _____ Phone: 815-751-9759

Printed Name: _____


Original Signature

4-19-22
Date

7.1.2 Name of Applicant for Permit to Own and Operate: City of Naperville
Title: Deputy Director - Water/Wastewater Utility Organization: City of Naperville
Street Address: 400 S. Eagle Street PO Box: _____
City: Naperville State: IL Zip + 4: 60540
Email Address: riesa@naperville.il.us Phone: 630-305-5937
Printed Name: Amy N. Ries

Original Signature Date

7.2 Attested (Required When Applicant is a Unit of Government)

Title: City Clerk

City clerk, Village Clerk, Sanitary District Clerk, etc.)

Original Signature Date

7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed by a principal executive officer of at least the level of vice president, or a duly authorized representative.

7.4 Certificate by Intermediate Sewer Owner

I hereby certify that (Please check one):

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the Illinois Environmental Protection Act or Subtitle C. Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction of facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary:

Existing 8" pvc sanitary sewer along the east side of NannyBerry Street, City of Naperville.

Sewer System Owner: City of Naperville

Address: 400 S. Eagle Street

City: Naperville State: IL Zip + 4: 60540

Email Address: riesa@naperville.il.us Phone: 630-305-5937

Printed Name: Amy N. Ries

Original Signature Date

7.4.1 Additional Certificate by Intermediate Sewer Owner

I hereby certify that (Please check one):

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the Illinois Environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction of facilities that are the subject of this application.
- 3. Not applicable.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner: _____

Address: _____

City: _____ State: IL Zip + 4: _____

Email Address: _____ Phone: _____

Printed Name: _____

Original Signature

Date

7.5 Certificate by Waste Treatment Works Owner

I hereby certify that (Please check one):

- 1. The wastewater treatment plant to which this project will be tributary has adequate reserve capacity to treat the wastewater that will be added by this project without causing a violation of the Illinois Environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.
- 3. I also certify that, if applicable, the industrial waste discharges described in the application are capable of being treated by treatment works.
- 4. Not applicable.

Name of Waste Treatment Works: Springbrook Water Reclamation Center

Waste Treatment Works Owner: City of Naperville

Address: 3712 Plainfield - Naperville Road

City: Naperville State: IL Zip + 4: 60564

Email Address: riesa@naperville.il.us Phone: 630-420-6137

Printed Name: Amy N. Ries

Original Signature

Date

Save Form with New Name

Print Form



Illinois Environmental Protection Agency

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Schedule A/B

This form must be typewritten or printed legibly. This form may be completed manually or online using Adobe Reader, a copy of it saved locally, printed, and signed before it is submitted to:

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Application for Sanitary Sewer: (please check one or both boxes as applicable)

- Service Connection - Schedule A
- Publicly Owned or Regulated Extensions - Schedule B

1. **Name of Project:** Ashwood Heights - Phase 2
2. **Type of Service(s):** (Check all that apply)
 - Residential
 - Commercial
 - Light Industrial (Domestic Waste Only)
 - Manufacturing
 - Recreational
 - Other
3. **Nature of Project -** Project Consists of: (Check all that apply)
 - Sewer Extension
 - Trunk Sewer
 - Replacement Sewer
 - New Sanitary Sewer
 - Sewer Connection
 - Relief Sewer
 - Interceptor Sewer
4. **Project Location, Service Area and Population:** Submit map(s) of the service area that include the following:
 - 4.1 An 8½ × 11 inch detailed project location map or USGS map or USGS map showing the project with respect to major roadways. In lieu of this map, a letter from the Illinois Historic Preservation Agency indicating compliance with the Illinois Historic Preservation Act for this project may be submitted.
 - 4.2 The proposed sewer layout and project location.
 Township: 37N Section: 8 Range: 9E
 - 4.3 Residential and/or non-residential areas and their associated waste loads to be immediately served by the sewers of this project.
 - 4.4 Potential residential and/or non-residential areas and their associated loads must be included in the overall design of the sewers of this project.
5. **Facilities Planning Area (FPA):**
 This project is is not being constructed entirely within the Facilities Planning Area (FPA) boundaries.
 Name of FPA: Naperville FPA - Naperville Quadrangle
6. **Type of Development:** The following design criteria should be used in estimating the population equivalent (P.E.) of a residential building:

Efficiency or Studio Apartment	= 1 person
1 Bedroom Apartment	= 1.5 persons
2 Bedroom Apartment	= 3 people
3 Bedroom Apartment	= 3 people
Single Family Home	= 3.5 people
Mobile Home	= 2.25 people

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied.

6.1 Residential Buildings

Number of Building(s): 9 Number of Single Family Dwelling Building(s): 9

Number of Multiple Family Dwelling Building(s): N/A

Estimated Total Population Equivalent: 31.5 P.E.

*Please provide an itemized list for each multiple dwelling building including: Number of 1, 2, and 3 bedroom units; the total P.E. for each building and the total P.E. for multiple family dwellings.

Single family 3.5 P.E./unit x 9 single family buildings = 31.5 P.E.

6.2 Non-Residential Buildings: Describe use of building(s) - This box will expand as needed

N/A

Principal product(s) or activities - This box will expand as needed

Number of non-residential building(s) to be served under this Permit: _____

Non domestic liquid waste is (see Section 6.5) is not produced inside the building(s).

If liquid wastes other than domestic are produced, submit Schedule N.

Estimated number of employees: _____ Estimated number of occupants (transients): _____

Estimated population equivalent (one population equivalent is 100 gallons of sewage per day, containing 0.17 pounds of BOD₅ and 0.20 pounds of suspended solids).

Flow P.E. _____ BOD P.E. _____ Suspended Solids P.E. _____

6.3 Total Loading for project (sum of 6.1 and 6.2)

Design Average Flow: <u>3,150</u>	GPD	P.E. <u>31.5 PE/5.36</u>	BOD
Design Max. Flow: <u>13,703</u>	GPD	P.E. <u>31.5 PE/6.30</u>	Suspended Solids

6.4 Commencing July 1, 2003, Section 12.2 of the Environmental Protection Act (415 ILCS 5/12.2, as amended by P.A. 93-32) requires the Agency to collect a fee for certain applications for the installation of sanitary sewer connections and extensions. Except for the conditions listed below, the following fee schedule shall apply:

Fee Dollars	Population Equivalents
100	1
400	2 - 20
800	21 - 100
1200	101 - 499
2400	500 or more

Please send the appropriate fee based upon section 6.4 or 6.5; certified or cashiers check made out to: "Treasurer, State of Illinois, Environmental Protection Permit and Inspection Fund" with the applicant's Federal Employee Identification Number (FEIN) appearing on the face of the check and submit along with this schedule. Any fee remitted to the Agency shall not be refunded at any time or for any reason, either in whole or in part.

The Sewer Permit fee does not apply to:

- a) Any Department, Agency or Unit of State Government
- b) Any unit of local government where **all** of the following conditions are met;
 - 1) The cost of the installation or extension is paid wholly from monies of the unit of local government, state grants or loans, federal grants or loads, or any combination thereof;
 - 2) The unit of local government is **NOT** given monies, reimbursed or paid, either in whole or in part, by another person (except for State grants or loans or federal grants or loans;
- c)
 - 1) Include a certified copy of the **budget item or the board or council minutes** which authorize the construction of this project with only local funds; **and**
 - 2) I/we hereby certify that subsections (b)(1), (b)(2) and (c)(1) have been met.

(Original Signature for Unit of Government)

6.5 A \$1,000 fee shall be required for any industrial wastewater source that does not require pretreatment of the wastewater prior to discharge to the publicly owned treatment works or publicly regulated treatment works.

7. **DEVIATION FROM DESIGN CRITERIA:** The design criteria for sewers are contained in the "Illinois Recommended Standards for Sewage Works", Current Edition. This submittal does does not include deviations from said criteria. **If deviations are included, justification for said deviations must be attached.**

8. **INFILTRATION/EXFILTRATION LIMITS:** 100 gallons per inch diameter of sewer pipe per mile per day.

9. **SUMMARY OF SEWERS:**

Submit plan and profile drawings for all sanitary sewer extensions and for all sanitary sewer connections where either the domestic wastewater source serves more than one building, where the domestic wastewater source is 15 P.E. or more, where non-domestic waste is produced or where the connection is not direct to either a publicly-owned or publicly-regulated sewer.

	Service Connections		Publicly Owned or Regulated Extensions			
Pipe size – inches	6		8			
Total Length – feet	305		249			
Min. slope used - %	1.0		2.80%			
Max. slope used - %	1.0		2.80%			
Min. cover over sewers - feet (3' minimum)	7		9			
Pipe Material & Specs.	PVC SDR26 ASTM D-2241		PVC SDR26 ASTM D-2241			
Joint Material & Specs.	Elastomeric ASTM D-3139		Elastomeric ASTM D-3139			
Total Manholes	0		2			
Max. Distance Between Manholes	-		249			
Bedding Class for Rigid Pipe (A, B, or C per ASTM C12)	-		-			
Bedding Class for Flexible Pipe (IA, IB, II, or III per ASTM D2321-89)	IB		IB			

9.1 Is the project located in a flood plain? Yes No If yes, contact the Illinois Department of Natural Resources, Division of Water Resources Management for further permit requirements.

9.2 Are watertight manhole covers used on all manholes where the manhole tops are below cover or where the tops may be flooded by surface runoff or high water? Yes No

10. **EROSION CONTROL:**

The design criteria for Erosion Control are contained in the "Illinois Urban Manual" Current Edition, distributed by the National Resource Conservation Service. This submittal does does not include deviation from said criteria. If deviations are included, justification for said criteria must be attached. (See instructions for Schedule P to determine if Schedule P must be submitted.)

11. **EXISTING SEWER SYSTEM:**

A. This project will connect to one of the following:

- | | |
|---|---|
| 1. <input checked="" type="radio"/> Existing sanitary sewer | 4. <input type="radio"/> Permitted combined sewer |
| 2. <input type="radio"/> Existing combined sewer | 5. <input type="radio"/> Proposed sanitary sewer |
| 3. <input type="radio"/> Permitted sanitary sewer | 6. <input type="radio"/> Proposed combined sewer |

If permitted but not constructed and operational provide permit number _____

B. Size and location of downstream sewer(s): - This box will expand as needed

Existing 8" sanitary sewer along the east side of NannyBerry Street.

12. **WATER SUPPLY PROTECTION:**

The horizontal and/or vertical separation between sanitary sewers and watermains is in accordance with Section 370.350 of the Illinois Recommended Standards for Sewage Works. Yes No

The location of proposed and existing watermain(s) must be shown in both the plan and profile views on plan sheet(s) for each water-sewer line crossing and at all locations within 10 feet horizontal distance of the proposed sewer line. Detailed drawing(s) for crossings, either typical or site-specific, shall be shown on the plan sheet(s).

12.1 **HORIZONTAL SEPARATION:**

All sewer line(s) is(are) 10 feet from water line(s) Yes No
If no, provide justification AND describe the precautionary features against contamination

All proposed forcemain(s) 10' from water line(s) Yes No N/A

12.2 **VERTICAL SEPARATION:**

A. The water line(s) is/are at least 18 inches above the sewer line(s): Yes No
If no, continue with 12.2.B and provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

B. The water line(s) is/are above the sewer lines(s) but less than 18 inches: Yes No
If no, continue with 12.2.C and provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

C. The water line(s) is/are at least 18 inches below the sewer line(s): Yes No
If no, provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

Justification and Precautionary Measures: - This box will expand as needed

12.3 Proximity to wells, reservoirs, and other potable water sources: Yes N/A

If yes, minimum distance, in feet _____

Describe precautionary measures taken to avoid contamination.

Location of all potable water sources shown on plan sheets. Yes No No Known Sources

13. **PIPE AND MANHOLE TESTING:**

	Yes	No
Is infiltration testing included in plans, specifications, or special provisions?	<input checked="" type="radio"/>	<input type="radio"/>
Is exfiltration test included in plans, specifications, or special provisions?	<input checked="" type="radio"/>	<input type="radio"/>
Is air testing included in plans, specifications, or special provisions?	<input checked="" type="radio"/>	<input type="radio"/>
Leakage testing for manholes included in plans, specifications, or special provisions?	<input checked="" type="radio"/>	<input type="radio"/>

14. **FLEXIBLE PIPE TESTING:**

Is deflection test included in plans, specifications, or special provisions in accordance with the Illinois Recommended Standards for Sewage Works, Current Edition? Yes No N/A

15. **MISCELLANEOUS REQUIREMENTS**

The following requirements should be included on the plan sheets where so indicated. For items where this is not specified, the requirements may be on the plan sheets, in the specifications, or in the special provisions:

15.1 Standard Specifications for Water and Sewer Main Construction in Illinois, Current Edition, govern the construction of this project. Yes No If no, provide specifications.

15.2 Pipe and joint ASTM/AWWA designation included on plan sheets. Yes No

15.3 All flexible gravity sewer pipe installed in accordance with ASTM D2321-89; embedment materials for bedding, haunching, and initial backfill to at least 6 inches over the top of the pipe with Class IA or IB or II or III; processed material produced for highway construction used in the project classified according to particle size, shape, and gradation in accordance with ASTM D2321-89, Section 9 and Table 1. Yes No N/A

15.4 All rigid gravity sewer pipe installed in accordance with ASTM C12 and bedding material Class A, B, or C.
 Yes No N/A

15.5 Pickholes in all manholes likely to be flooded not larger than 1 inch in diameter and of the concealed type.
 Yes No N/A

15.6 All manholes numbered.
 Yes No N/A

15.7 Match lines shown on all plan sheets.
 Yes No N/A

Job No.: 904.408
 Date: March 17, 2022

P.E. Calculations

Type of Buildings:	Single-Family Homes
PE Equivalent:	3.5
Units / Building:	x <u>1</u>
Number of Buildings:	x <u>9</u>
Total P.E.:	31.5

Type of Buildings:	
P.E. per Building:	3.5
Number of Buildings:	x <u>0</u>
Total P.E.:	0

SUMMARY

TOTAL SITE P.E. FOR PROPOSED DEVELOPMENT: **31.5**

$$Q_{max} / Q_{avg} \text{ ratio} = \frac{18 + (P.E./1000)^{1/2}}{4 + (P.E./1000)^{1/2}} = 4.35$$

$$Q_{avg} = P.E. \times 100 = 3150 \text{ GPD}$$

$$Q_{max} = Q_{avg} \times \text{Ratio} = 13703 \text{ GPD}$$



Illinois Historic
Preservation Agency

1 Old State Capitol Plaza, Springfield, IL 62701-1512

RECEIVED
JUL 07 2014

BY:.....

FAX 217/524-7525

www.illinoishistory.gov

Will County
Naperville
NW of 103rd Street & 248th Street
Section:8-Township:37N-Range:9E, Section:9-Township:37N-Range:9E
CEMCON-402.032, IEPA
New construction, Ashwood Heights subdivision & church

PLEASE REFER TO: IHPA LOG #002062614

July 2, 2014

Anthony R. Falkowski
CEMCON, Ltd.
2280 White Oak Circle, Suite 100
Aurora, IL 60502-9675

Dear Mr. Falkowski:

The Illinois Historic Preservation Agency is required by the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420, as amended, 17 IAC 4180) to review all state funded, permitted or licensed undertakings for their effect on cultural resources. Pursuant to this, we have received information regarding the referenced project for our comment.

Our staff has reviewed the specifications under the state law and assessed the impact of the project as submitted by your office. We have determined, based on the available information, that no significant historic, architectural or archaeological resources are located within the proposed project area.

According to the information you have provided concerning your proposed project, apparently there is no federal involvement in your project. However, please note that the state law is less restrictive than the federal cultural resource laws concerning archaeology. If your project will use federal loans or grants, need federal agency permits, use federal property, or involve assistance from a federal agency, then your project must be reviewed under the National Historic Preservation Act of 1966, as amended. Please notify us immediately if such is the case.

This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the IL Human Skeletal Remains Protection Act (20 ILCS 3440).

Please retain this letter in your files as evidence of compliance with the Illinois State Agency Historic Resources Preservation Act.

Sincerely,

Anne E. Haaker
Deputy State Historic
Preservation Officer