

## **1.0 AGENCY CORRESPONDENCE**

This Agency Correspondence confirms the request(s) for review and comments in regards to the Cedar Estates Basin proposed by the City of North Royalton (the Applicant). The Agencies contacted are as follows: US Army Corps of Engineers (USACE), Ohio Department of Natural Resources (ODNR) and US Fish and Wildlife Service (USFWS). All correspondence was done in accordance with Ohio Administrative Code 6111.30(A)(1), 6111.30(A)(10) and 6111.30(A)(7). This correspondence summary follows the format provided by the Ohio EPA Section 401 Water Quality Certification Application Completion and Submittal Instructions (rev. 7/2014) Item 4.

## **2.0 US ARMY CORPS OF ENGINEERS**

### **2.1 USACE JURISDICTIONAL DETERMINATION LETTER**

The Cedar Estates Basin site was investigated by an outside consultant to determine the presence of “waters of the United States” (i.e., wetlands and streams). A delineation of all “waters of the United States” was completed in 2011. Mr. Keith Sendziak of the USACE Buffalo District conducted a site inspection to review the stream channel locations and wetland boundaries. A Preliminary Jurisdictional Determination (PJD) letter confirming the wetland and stream delineation was issued by the USACE on July 15, 2015. This letter is attached in Item 4.

### **2.2 USACE PUBLIC NOTICE**

On behalf of the Applicant Chagrin Valley Engineering, Ltd. (CVE) submitted a Section 404 permit application to the USCAE in June 2015. The USACE accepted this application as complete and a public notice was issued on July 13, 2015 for a 30 day comment period. A copy of the public notice is attached in Item 4.

## **3.0 OHIO DEPARTMENT OF NATURAL RESOURCES**

The ODNR – Division of Wildlife (DOW) supplied information on occurrences of state or federal threatened and endangered species adjacent to or within the Cedar Estates Basin.

The DOW conducted a search of the Natural Heritage Database. In a response letter dated February 2, 2015 the DOW indicated that no they have no records of rare or endangered species within the Cedar Estates Basin project nor any records within 1-mile of the project area. In addition the DOW is unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges or other protected natural areas within 1-mile of the project site. A copy of DOW response letter is attached in Item 4.

#### **4.0 US FISH AND WILDLIFE SERVICE**

The USFWS maintains a list of species for each county in Ohio. Cuyahoga County is within the known range of the federally endangered Indiana bat (*Myotis sodalis*), Piping Plover (*Charadrius melodus*), Kirtland's Warbler (*Dendroica kirtlandii*), Rufa Red Knot (*Calidris canutus rufa*), and species of concern Bald Eagle (*Haliaeetus leucocephalus*). The USFWS will also provide comments on the Project's potential effect on the Bald Eagle and its habitat. While not an Endangered Species, the Bald Eagle is protected under the migratory bird act. And although the Northern Long-eared Bat (*Myotis septentrionalis*) is not listed, the USACE and USFWS have agreed to consult on any project that may affect this species. As required by Section 7 of the Endangered Species Act of 1973, the USACE will coordinate with the USFWS. In order to determine the Cedar Estates Basin project's potential effect on the federally listed species and/or their habitat CVE submitted a habitat review request to USFWS.

The USFWS reviewed the habitat review submitted by CVE and responded on July 16, 2015. The USFWS does not anticipate any adverse effects to federally listed species. Please see the attached response for further details.

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USACE, PRELIMINARY JURISDICTIONAL DETERMINATION  
LETTER

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REPLY TO  
ATTENTION OF:

DEPARTMENT OF THE ARMY  
BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

July 15, 2015

Regulatory Branch

SUBJECT: Preliminary Jurisdictional Determination for Department of the Army Application  
No. 2014-00144

Mayor Robert Stefanik  
City of North Royalton  
14600 State Road  
North Royalton, Ohio 44133

Dear Mayor Stefanik:

I have reviewed the wetland delineation map submitted on your behalf for an approximately 7.4-acre parcel located west of York Road and south of Sprague Road within the city of North Royalton, Cuyahoga County, Ohio (Sheets 1-2 of 2).

I have evaluated your submitted wetland delineation map and have determined that the wetland and water boundaries shown on the map accurately represent on-site conditions. Please note that this is a Preliminary Jurisdictional Determination (JD). Preliminary JDs are non-binding written indications that there may be Waters of the United States (WOUS) on your parcel and approximate locations of those waters. Preliminary JDs are advisory in nature and may not be appealed.

Pursuant to Regulatory Guidance Letter 08-02, any permit application made in reliance on this Preliminary JD will be evaluated as though all wetlands or waters on the site are regulated by the Corps. Further, all waters, including wetlands will be used for purposes of assessing the area of project related impacts and compensatory mitigation. If you require a definitive response regarding Department of the Army jurisdiction for any or all of the waters identified on the submitted drawings, you may request an approved jurisdictional determination from this office. If an approved JD is requested, please be aware that this is often a lengthy process and we may require the submittal of additional information.

I have enclosed the Preliminary JD Form with this letter. The form and attached table identifies the extent of waters on the site and specific terms and conditions of the Preliminary JD. Please sign and return a copy of this form to my attention so that I may complete my evaluation of your file. If you do not respond within fifteen days of this letter, I will assume you no longer wish to pursue the jurisdictional determination and will withdraw your application.

In accordance with Regulatory Guidance Letter 05-02, "Preliminary JDs are not definitive determinations of areas within regulatory jurisdiction and do not have expirations dates." However, I strongly recommend that the boundaries of WOUS be re-evaluated by a qualified wetland biologist after five years of the date of this letter. This will ensure that any changes are

Regulatory Branch

SUBJECT: Preliminary Jurisdictional Determination for Department of the Army Application No. 2014-00144

appropriately identified and you do not inadvertently incur a violation of Federal law while constructing your project or working on your project site.

Lastly, this determination has been conducted only to identify the limits of waters that may be subject to Corps Clean Water Act or Rivers and Harbors Act jurisdiction. This delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resource Conservation Service prior to starting work.

A copy of this letter has been sent to the Ohio Environmental Protection Agency and to Ms. Erin VanNort (Chagrin Valley Engineering).

Questions pertaining to this matter should be directed to me at 716-879-4339, by writing to the following address: U.S. Army Corps of Engineers, 1776 Niagara Street, Buffalo, New York 14207, or by e-mail at: [keith.c.sendziak@usace.army.mil](mailto:keith.c.sendziak@usace.army.mil)

Sincerely,



Keith C. Sendziak  
Biologist

Enclosures

**ATTACHMENT**

**PRELIMINARY JURISDICTIONAL DETERMINATION FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): July 15, 2015**

**B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:**

Mayor Robert Stefanik  
City of North Royalton  
14600 State Road  
North Royalton, Ohio 44133

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Buffalo District, North Royalton, City of, DA No. 2014-00144**

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:  
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)**

State: Ohio County/parish/borough: Cuyahoga City: North Royalton

Center coordinates of site (lat/long in degree decimal format): Lat. 41.34815° N, Long. -81.76247° W.

Universal Transverse Mercator:

Name of nearest waterbody: Baldwin Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 661 linear feet: 1-3 width (ft) and/or acres.

Cowardin Class: Riverine

Stream Flow: Perennial and Ephemeral

Wetlands: 1.036 acres.

Cowardin Class: Forested and Scrub Shrub

Name of any water bodies on the site that have been identified as Section 10 waters: N/A

Tidal:

Non-Tidal:

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

Office (Desk) Determination. Date: July 15, 2015

Field Determination. Date(s): October 2014

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

**SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply**

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Chagrin Valley Engineering and EnviroScience.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Berea, OH 7.5 min quad.
- USDA Natural Resources Conservation Service Soil Survey.

Citation:

- National wetlands inventory map(s). Cite name:
- State/Local wetland inventory map(s):
- FEMA/FIRM maps:
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date):  
or  Other (Name & Date):
- Previous determination(s). File no. and date of response letter:
- Other information (please specify):

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

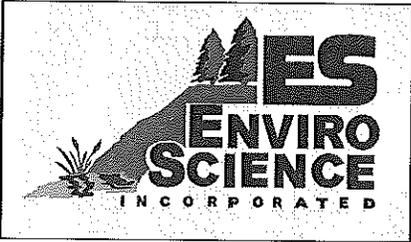
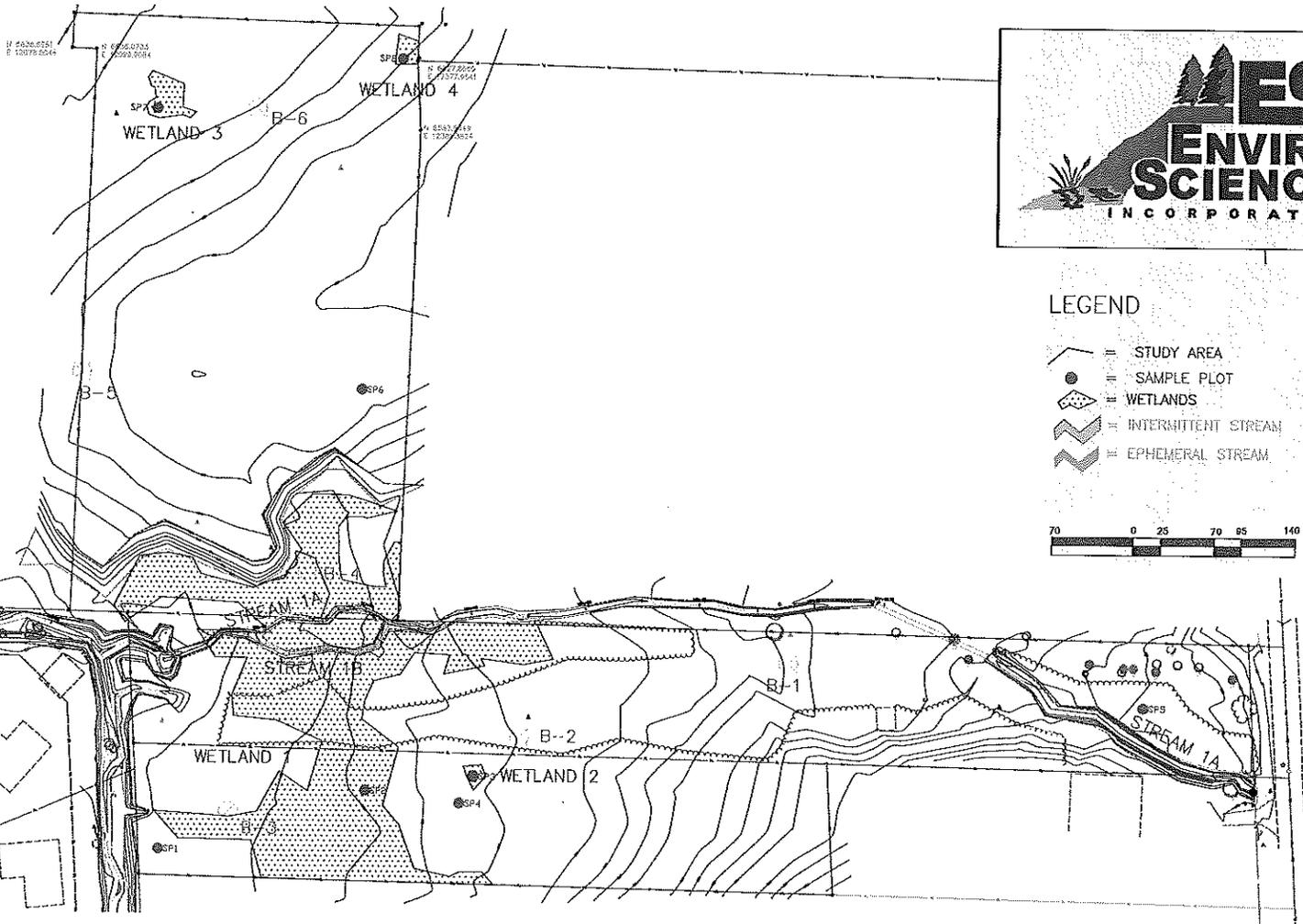
  
\_\_\_\_\_  
Signature and date of  
Regulatory Project Manager  
(REQUIRED)

\_\_\_\_\_  
Signature and date of  
person requesting preliminary JD  
(REQUIRED, unless obtaining  
the signature is impracticable)

SAMPLE

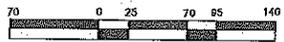
Site number	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
Wetland 1	Palustrine - Forested	1.0 acre	non-section 10 - wetland
Wetland 2	Palustrine - Forested	0.006 acre	non-section 10 - wetland
Wetland 3	Palustrine - Forested	0.02 acre	non-section 10 - wetland
Wetland 4	Palustrine - Scrub Shrub	0.01 acre	non-section 10 - wetland
Stream 1a	Riverine - Perennial	516 linear feet	non-section 10 - non-wetland
Stream 1b	Riverine - Ephemeral	145 linear feet	non-section 10 - non-wetland





**LEGEND**

- = STUDY AREA
- = SAMPLE PLOT
- = WETLANDS
- = INTERMITTENT STREAM
- = EPHEMERAL STREAM



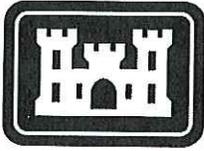
North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 2 of 2



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## USACE, PUBLIC NOTICE

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U.S. Army Corps  
of Engineers  
Buffalo District  
CELRB-TD-R

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# Public Notice

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Applicant: City of North  
Royalton

Published: July 13, 2015  
Expires: August 11, 2015

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Application No: 2014-00144  
Section: OH

All written comments should reference the above Application No. and be addressed to:  
**US Army Corps of Engineers, Buffalo District**  
**Regulatory Branch (Attn:) Keith C. Sendziak**  
1776 Niagara Street  
Buffalo, NY 14207

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**THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.**

**Application for Permit under Authority of**  
**Section 404 of the Clean Water Act (33 U.S.C. 1344).**

APPLICANT: City of North Royalton, 14600 State Road, North Royalton, Ohio 44133

WATERWAY & LOCATION: Federally jurisdictional wetlands and an unnamed perennial tributary of Baldwin Creek on an approximately 7-acre parcel of land located north of Cedarwood Drive and east of York Road in the city of North Royalton, Cuyahoga County, Ohio (Sheets 1-2 of 12).

LATITUDE & LONGITUDE: Latitude North: 41.34807  
Longitude West: -81.76234

**EXISTING CONDITIONS:**

Description of delineation of waters of the US, if applicable: A jurisdictional determination has yet to be issued for this project. However, the U.S. Army Corps of Engineers (Corps) has conducted a field review of the on-site waters and has determined that there are currently: four wetlands, wetland 1 (1.0 acres), wetland 2 (0.006 acres), wetland 3 (0.02 acres), and wetland 4 (0.01 acres), totaling 1.036 acres; and two streams, perennial stream 1a (516 linear feet (LF)), and ephemeral stream 1b (145 LF), totaling 661 LF (Sheet 3 of 12). The Corps has also determined that all on-site waters have a surface water connection with the downstream

navigable waterway (Rocky River).

**PROPOSED WORK:** To construct one 1.5-acre stormwater basin with 4:1 slopes and a capacity to provide 19.5-acre-feet of stormwater storage (Sheets 4-7 of 12). The basin is designed to be dry and will only fill with water during and immediately after storm events. The applicant intends to allow natural vegetation to develop within the basin. Regular mowing/maintenance of vegetation will only occur at the outlet structure. The stormwater basin is designed to be constructed in-line with stream 1a and is proposed to permanently impact 1.04 acres of wetland and 418 LF of stream channel. Proposed construction access will be via York Road utilizing an existing gravel road, which will be extended to provide access to the entire project site. Excavated material will be stockpiled within an upland area adjacent to the southern portion of the basin. Excess material will be hauled off-site and disposed of at a licensed facility. Stream 1a will temporarily be diverted during project construction (Sheet 8 of 12).

#### PROJECT PURPOSE

Basic: To construct a stormwater basin.

Overall: To construct a stormwater basin within the City of North Royalton to reduce flooding within the Cedar Estates subdivision.

Water Dependency Determination (*describe only if project affecting Special Aquatic Site*): The proposed project is not a water dependent activity. Therefore, it is presumed that practicable upland alternatives exist that are less environmentally damaging. It is the applicant's responsibility to demonstrate that there are no alternate sites that are less environmentally damaging that would allow the applicant to accomplish their project purpose.

**AVOIDANCE AND MINIMIZATION INFORMATION:** A channel with step pools will be constructed in the bottom of the basin which will provide energy dissipation, reduce flow velocity and enhance the removal of suspended solids. In addition, the applicant proposes to spread an emergent wetland seed mix and plant wetland scrub shrub and tree species within and around the basin (Sheets 9-10 of 12).

**PROPOSED MITIGATION:** The applicant proposed to purchase 2.1 mitigation credits from the Edison Woods Wetland Mitigation Bank to compensate for wetland impacts. To compensate for stream impacts the applicant proposes to preserve approximately 15,108 LF of stream channel and surrounding riparian corridor at the Wakefield Run Mitigation Site located in Hinckley Township, Median County, Ohio (Sheets 11-12 of 12).

Location and details of the above described work are shown on the attached maps and drawings.

Comments or questions pertaining to the work described in this notice should be reference the Application Number and be directed to the attention of Keith C. Sendziak, who can be contacted at the above address, by calling (716) 879-4339, or by e-mail at: keith.c.sendziak@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

The applicant has certified that the proposed activity complies with Ohio's approved Coastal Zone Management Program and will be conducted in a manner consistent with that program. Any comments on the consistency of the proposed activity with Ohio's Coastal Zone Management Program should be forwarded to:

Mr. John Kessler  
Ohio Department of Natural Resources  
Office of Real Estate  
2045 Morse Rd.  
Columbus, OH 43229-6605  
phone: 614-265-6621  
email: john.kessler@dnr.state.oh.us

The following authorization is required for this project:

Water Quality Certification (or waiver thereof) from the Ohio Environmental Protection Agency

Based on preliminary findings, there do not appear to be any properties listed in, or eligible for listing in, the National Register of Historic Places within the permit area as shown on Sheet 1 of 12. This notice constitutes initiation of consultation with the Ohio Historic Preservation Office (SHPO) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project if any has been provided to the SHPO. Additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this notice. The Corps will forward that information to the SHPO for their review.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Corps of Engineers is consulting, under separate cover, with the USFWS to evaluate any potential impacts to: Indiana bat, northern long-eared bat, piping plover, rufa red knot, and Kirtland's warbler and to ensure that the proposed activity is not likely to jeopardize their continued existence or result in the destruction or adverse modification of critical habitat.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the

specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**SIGNED**

Diane C. Kozlowski  
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.

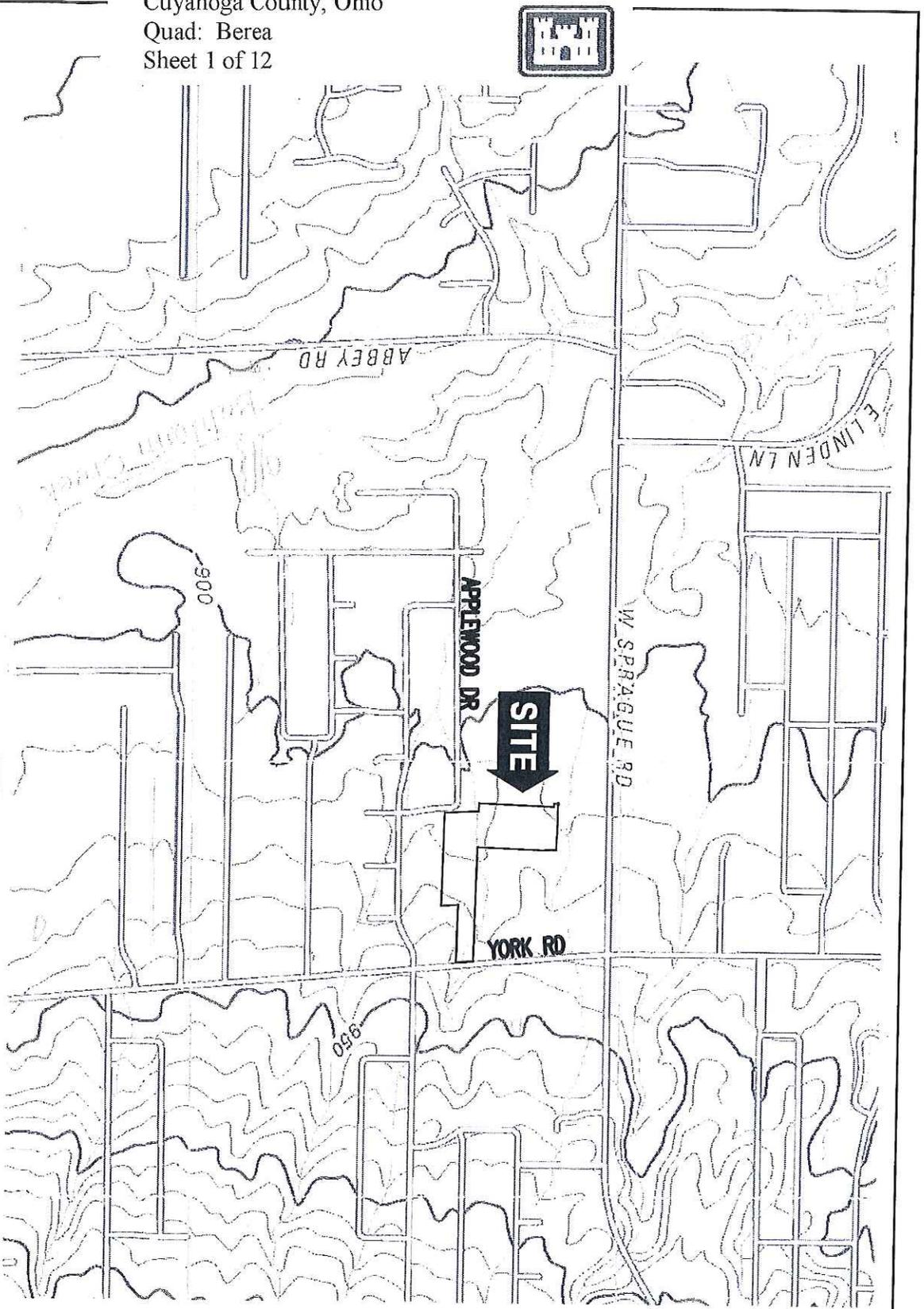


QUADRANGLE LOCATION



ADJOINING 7.5 QUADRANGLES

North Oriented	Lakewood	Cleveland South
West View	Berea	Brookline Heights
Medina Creek	Medina	West Richfield



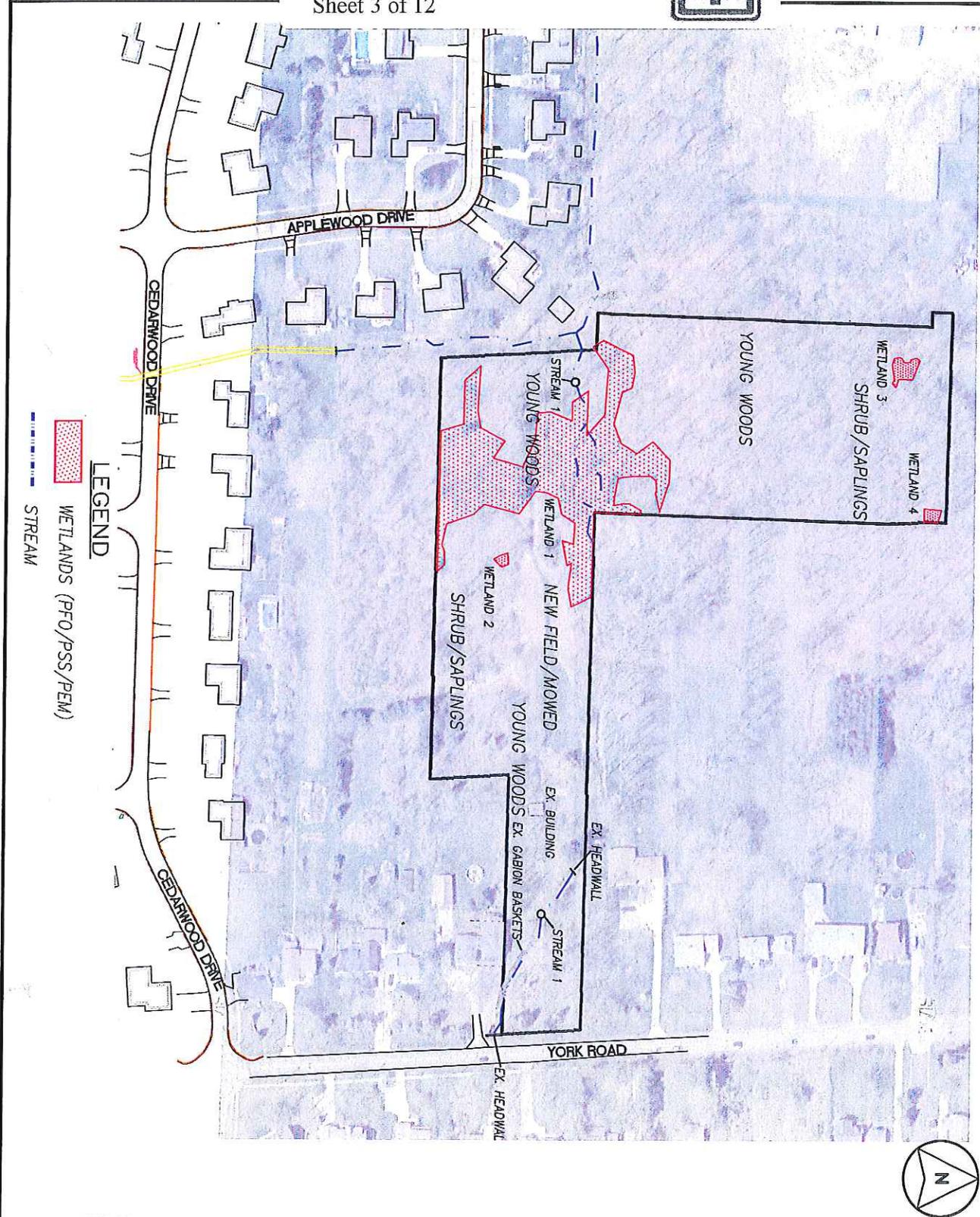
DATE: JAN 2015 SCALE: N/A

PROJECT NO.: 15092

FIGURE 1: USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP  
**CEDAR ESTATES DETENTION BASIN**  
 CITY OF NORTH ROYALTON  
 CUYAHOGA COUNTY, OHIO

**CVE** CHAGRIN VALLEY ENGINEERING, LTD.  
 Creative Engineers. Intelligent Solutions.  
 22999 Forbes Road, Suite B Cleveland, Ohio 44146-5667  
 Phone 440.439.1999 Fax 440.439.1969





DATE: MAY 2015 SCALE: 1"=180'

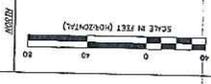
PROJECT NO.: 15092

ORAM INFORMATION MAP  
**CEDAR ESTATES BASIN**  
 CITY OF NORTH ROYALTON  
 CUYAHOGA COUNTY, OHIO



CHAGRIN VALLEY  
 ENGINEERING, LTD.

Creative Engineers. Intelligent Solutions.  
 22999 Forbes Road, Suite B Cleveland, Ohio 44146-5667  
 Phone • 440.439.1999 Fax • 440.439.1969 www.cvefrimited.com

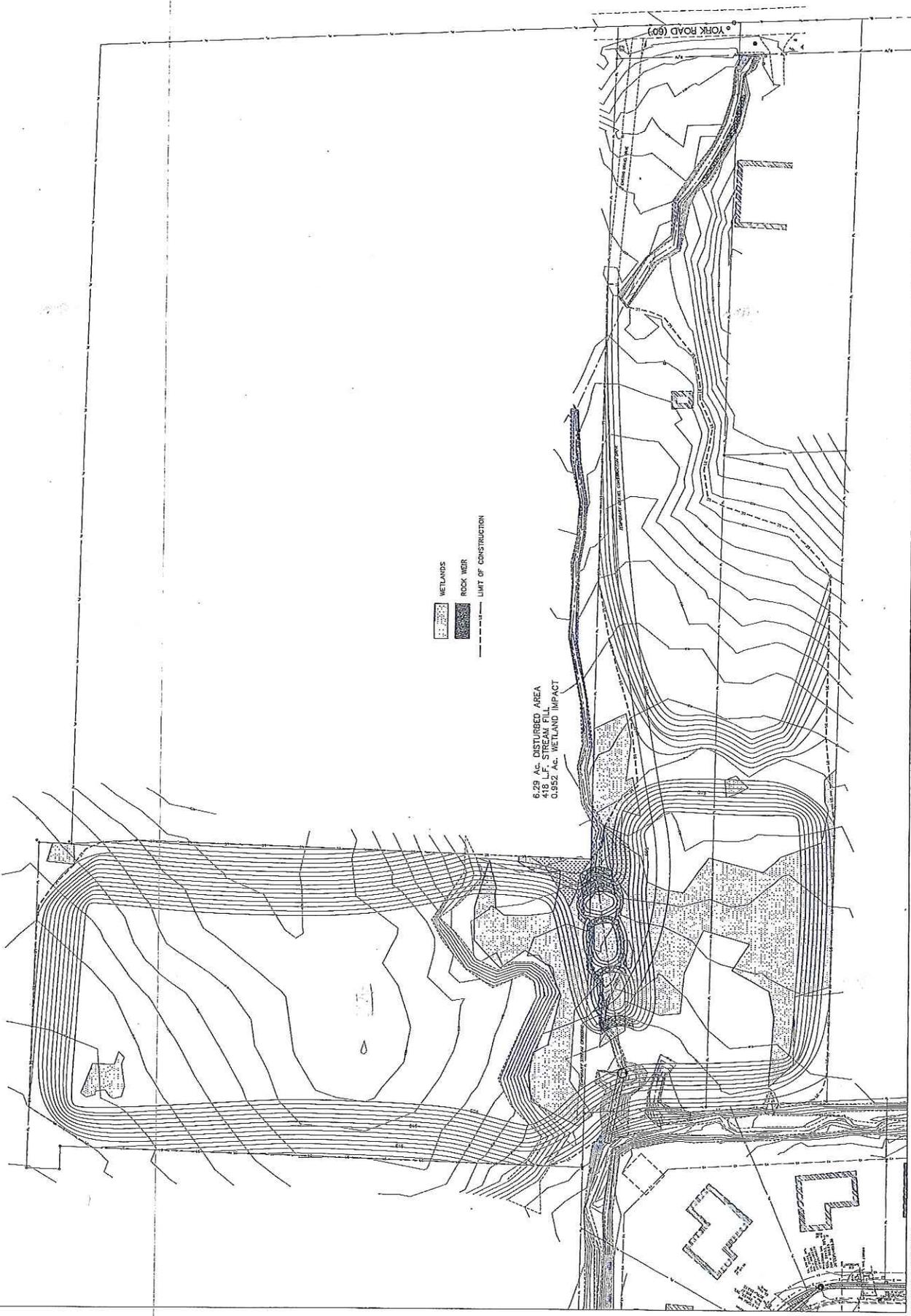


NO.	DESCRIPTION	DATE	BY
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STEPHEN HOVANSEK & ASSOCIATES  
 CONSULTING ENGINEERS AND PLANNERS  
 RICHMOND HEIGHTS, OHIO 44143  
 TWO MERIT DRIVE  
 PH: (216) 731-8255 FAX: (216) 731-4463

CITY OF NORTH ROYALTON  
**CEDAR ESTATES DETENTION BASIN**  
**PREFERRED ALTERNATIVE**

DATE: 3/13  
 JOB NO.: 07-138  
 1 OF 7

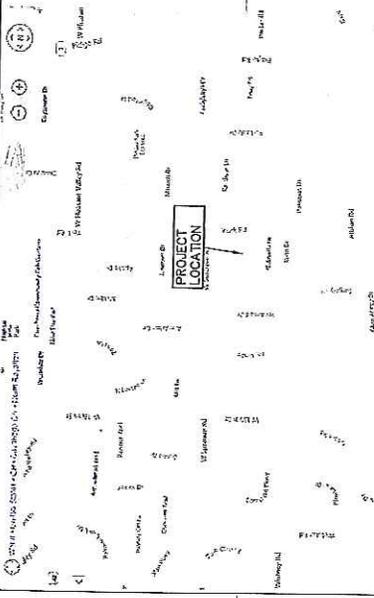


North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 4 of 12









**LOCATION MAP**

**SITE DESCRIPTION:**  
 CEDAR ESTATES DETENTION BASIN  
 POST-DEVELOPMENT RUNOFF COEFFICIENT: CN=79  
 PRE-DEVELOPED IMPERVIOUSNESS = 0.0 ACRES (0%)  
 POST-DEVELOPED IMPERVIOUSNESS = 0.0 ACRES (0%)  
 THE SITE IS APPROXIMATELY 7.41 ACRES, OF WHICH APPROXIMATELY 6.29 ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

**RUNOFF COEFFICIENT:**  
 PRE-DEVELOPMENT RUNOFF COEFFICIENT: CN=79  
 POST-DEVELOPMENT RUNOFF COEFFICIENT: CN=79

**SITE IMPERVIOUSNESS:**  
 PRE-DEVELOPED IMPERVIOUSNESS = 0.0 ACRES (0%)  
 POST-DEVELOPED IMPERVIOUSNESS = 0.0 ACRES (0%)

**SITE AREA:**  
 THE SITE IS APPROXIMATELY 7.41 ACRES, OF WHICH APPROXIMATELY 6.29 ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

**SITE DESCRIPTION, SUBDIVISION (CHECK ONE):**  
 COMMERCIAL \_\_\_\_\_ INDUSTRIAL \_\_\_\_\_  
 OTHER (SPECIFY): SEED/WATER MANAGEMENT \_\_\_\_\_

**APPROXIMATE SOIL TYPES:**  
 1. CL, COMBIL SILTY CLAY LOAM (T) 0%  
 2. CL, COMBIL SILTY CLAY LOAM, 0-2% SLOPES (O) 0%  
 3. MBR, MARCHING SILT LOAM, 2-6% SLOPES (O) 0%

**SEQUENCE OF MAJOR ACTIVITIES (ORDER WILL BE AS FOLLOWS):**  
 1. INSTALL TEMPORARY CONSTRUCTION DRIVE  
 2. CLEAR AND GRUB  
 3. EXCAVATION AND EMBANKMENT WORK IN CONJUNCTION WITH SEDIMENT TRAP POND  
 4. CONSTRUCT STEP POOLS AND WEIRS  
 5. FINAL GRADING  
 6. PERMANENT SEEDING  
 7. NAME OF RECEIVING WATERS:  
 THE SITE DRAINS INTO A TRIBUTARY OF BALDWIN CREEK.

**ADDITIONAL STORAGE WATER POLLUTION PREVENTION NOTES:**  
 1. SUITABLE EXCAVATED SOIL INCLUDING TOPSOIL SHOULD BE USED ON SITE TO THE EXTENT POSSIBLE. EXCESS MATERIAL MUST BE DISPOSED OF IN A PERMITTED FACILITY.  
 2. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATION CODE (OAC) 3746-60).  
 3. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA PERMITTED WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDU).  
 4. PETROLEUM BASED AND CONCRETE CURING COMPOUNDS MUST HAVE SPECIAL HANDLING PROCEDURES.  
 5. IN THE EVENT OF A LARGE PETROLEUM RELEASE (25 OR MORE GALLONS) YOU MUST CONTACT OHIO EPA (AT 1-800-282-8378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.  
 6. DUST CONTROL: USED OIL MAY NOT BE USED AS A DUST SUPPRESSANT.

**GENERAL NOTES FOR NON-SEWAGE POLLUTANT CONTROLS**  
 1. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. THE INDIVIDUAL WHO MANAGES THE MATERIALS SHALL BE RESPONSIBLE FOR ENSURING ALL FORMS OF WASTE ARE PROPERLY DISPOSED OF.  
 2. CONTAMINATED SOILS FROM REVEGETATION SITES SHALL BE DISPOSED OF PROPERLY PERMITS SHALL BE OBTAINED FOR DEVELOPMENT PROJECTS ON SOLID WASTE LANDFILL SITES OR REDEVELOPMENT SITES.  
 3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FILL TYLE OF SPILL SHALL BE CONSTRUCTED TO CONTAIN CONCRETE WASH WATER. SHALL BE OBTAINED FOR DEVELOPMENT PROJECTS ON SOLID WASTE LANDFILL SITES OR REDEVELOPMENT SITES.  
 4. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. ANY AND ALL WASTE MATERIALS (SOLID, LIQUID, GASEOUS, AND OTHER) GENERATED BY THE PROJECT SHALL BE STORED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN. PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES/REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND INTO THE STORM SEWERS ANY SOLIDS, BATTERIES, OILS, GREASE, AND OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.  
 5. HANDLING CONSTRUCTION CHEMICALS, MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT CONCRETE CURING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.  
 6. EQUIPMENT FUELING AND MAINTENANCE OIL CHANGING, ETC., SHALL BE PERFORMED IN AREAS DESIGNATED FOR THIS PURPOSE. OILS OR STORM DRAINS IN AN AREA DESIGNATED FOR THIS PURPOSE SHALL BE TREATED AND RECYCLED. OIL AND FUEL/FLUID STORAGE TANKS AND DRUMS.  
 7. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.  
 8. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:  
 A. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.  
 B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.  
 C. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURER'S LABELS WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.  
 D. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.  
 E. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.  
 F. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.  
 9. IN ADDITION TO PREVIOUS NOTES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEAN-UP:  
 A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED AT THE SITE RESPONSIBLE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES.  
 B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP WILL BE KEPT IN THE AREA OF THE SPILL. CLEAN-UP EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUSTPANS, TRAYS, LITTER BOXES, LITTER SAND, SAND/DIRT, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE.  
 C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.  
 D. THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.  
 E. SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.  
 F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF IT DOES OCCUR. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.  
 G. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE RESPONSIBLE FOR SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR A PART OF THE CLEANUP. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PART OF THE CLEANUP AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

**GENERAL NOTES FOR SEDIMENT POLLUTANT CONTROLS**  
 1. PERIMETER SEDIMENT CONTROLS (E.G. SEDIMENT TRAPS, SILT FENCE, COMPOST SOCKS, COMPOST BERRIES, ETC.) SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES. THE FIRST STEP OF GRADING AND FUNCTION UNTIL UPGRADE AREAS DRAINING TO THEM ARE PERMANENTLY STABILIZED, OR AS DIRECTED BY THE ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.  
 2. NO EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERMANENT STABILIZATION OF THE ASSOCIATED UPLAND DRAINAGE BASINS. REPRESENTATIVE SHALL OBTAIN AUTHORIZATION FROM THE ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, PRIOR TO THEIR REMOVAL. IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.  
 3. THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES CONTAINS LESS THAN 100 PPM OF SOLIDS. IF TRIVIAL OR GROUNDWATER CONTAINS SEDIMENT CONTROL DEVICE, PRIOR TO BEING DISCHARGED BY SETTING IN PLACE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTING IN PLACE WATER REMOVING WHICH DOES NOT FILTER PAD OR COMPARABLE PRACTICE. GROUND WATER BEING TREATED PRIOR TO DISCHARGE. HOWEVER, IF THE WATER CONTAINS POLLUTANTS IS NOT DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVELING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.  
 4. STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED CONSTRUCTION ENTRANCES SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED CONSTRUCTION ENTRANCES. THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, SHALL DETERMINE THE BEST MANAGEMENT PRACTICES TO CONTROL OFF-SITE TRACKING AND DUST.  
 5. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, OR HIS/HER REPRESENTATIVE TO INSPECT ALL CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN THIRTY-FOUR (34) HOURS AFTER ANY STORM EVENT OCCURS WITHIN ONE-HALF INCH OF RAIN PER THIRTY-FOUR (34) HOUR PERIOD. WHEN INSPECTIONS ARE REQUIRED, THE DEVELOPER SHALL REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL BMPs. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:  
 A. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE, IF AN INTERVAL INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTED CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE OR MAINTAINED WITHIN THREE (3) DAYS OF THE INSPECTION, IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE (3) DAYS OF THE INSPECTION.  
 B. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION, IF AN INTERVAL INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AS DETAILED IN THE SHEET AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE MUST BE INSTALLED AND MAINTAINED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN TEN (10) DAYS OF THE INSPECTION.  
 C. WHEN PRACTICES DEPICTED ON THE SHEET ARE NOT INSTALLED, IF AN INTERVAL INSPECTION REVEALS THAT THE SCHEDULED CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULED CONTROL PRACTICE, THE RECORD MUST BE CORRECTED WITHIN (10) DAYS FROM THE DATE OF THE INSPECTION. IF THE INTERVAL INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST BE CORRECTED WITHIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.  
 6. THE APPLICANT SHALL MAINTAIN FOR THREE (3) YEARS FOLLOWING FINAL INSPECTION THE RESULTS OF THESE INSPECTIONS, THE NAMES AND QUALIFICATIONS OF PERSONNEL WHO CONDUCTED THE INSPECTIONS, THE DATES OF THE INSPECTIONS, AND OBSERVATIONS RELATING TO THE VIOLATIONS OF INSPECTIONS, MAJOR VIOLATIONS AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SHEET, AND INFORMATION ON ANY INCIDENTS OF NON-COMPLIANCE DETERMINED BY THESE INSPECTIONS.  
 7. ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES BOOKLET, "RAINWATER AND LAND DEVELOPMENT" AS SPECIFIED BY THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.  
 8. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN SHALL BE INSTALLED TO UNIMPROVED ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS. THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, SHALL BE CONSULTED AT THE DEVELOPER'S EXPENSE AS DIRECTED BY THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.  
 9. NO STRUCTURAL SEDIMENT CONTROLS (E.G. SILT FENCE, SEDIMENT TRAPS, ETC.) SHALL BE USED FOR A WATER RESOURCE OR WATERWAY UNLESS THEIR USE IS SPECIFICALLY PROVIDED IN WITHIN THE SITE'S APPROVED PLAN.  
 10. SOIL STOCKPILES, TOPSOIL OR OTHERWISE, SHALL BE SITUATED AWAY FROM STREETS, SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND/OR MULCHED IMMEDIATELY.  
 11. ON-SITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH NECESSARY REGULATIONS REGARDING FUGITIVE DUST EMISSIONS, INCLUDING OBTAINING NECESSARY PERMITS FROM THE LOCAL HEALTH DEPARTMENT. THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, MAY REQUIRE DUST CONTROL MEASURES, INCLUDING THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TAPPING STOCKPILES TEMPORARILY TO STABILIZE DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.  
 12. ANY DISTURBED AREA NOT PAVED, SOODED OR BUILT UPON SHALL HAVE A MINIMUM OF 50% UNIFORM VEGETATIVE COVER PRIOR TO FINAL INSPECTION AND, IN THE OPINION OF THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, WILL BE MAINTAINED ENOUGH TO CONTROL EROSION, SILTATION, AND SURVIVE SEVERE WEATHER.

NO.	REVISIONS	DATE	BY
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2			
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4			
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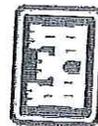
**STEPHEN HOVANSCK & ASSOCIATES**  
 CONSULTING ENGINEERS AND PLANNERS  
 RICHMOND HEIGHTS, OHIO 44143  
 PHE (216) 731-6255 FAX (216) 731-4493

**CEDAR ESTATES DETENTION BASIN**  
 CITY OF NORTH ROYALTON  
**PREFERRED ALTERNATIVE**  
**PREVENTION PLAN NOTES**

DATE: 03/18  
 JOB NO.: 07-102

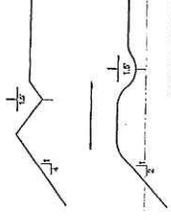
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North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 7 of 12



Specifications for  
**Temporary Diversion**

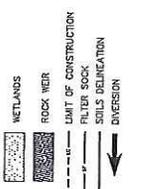
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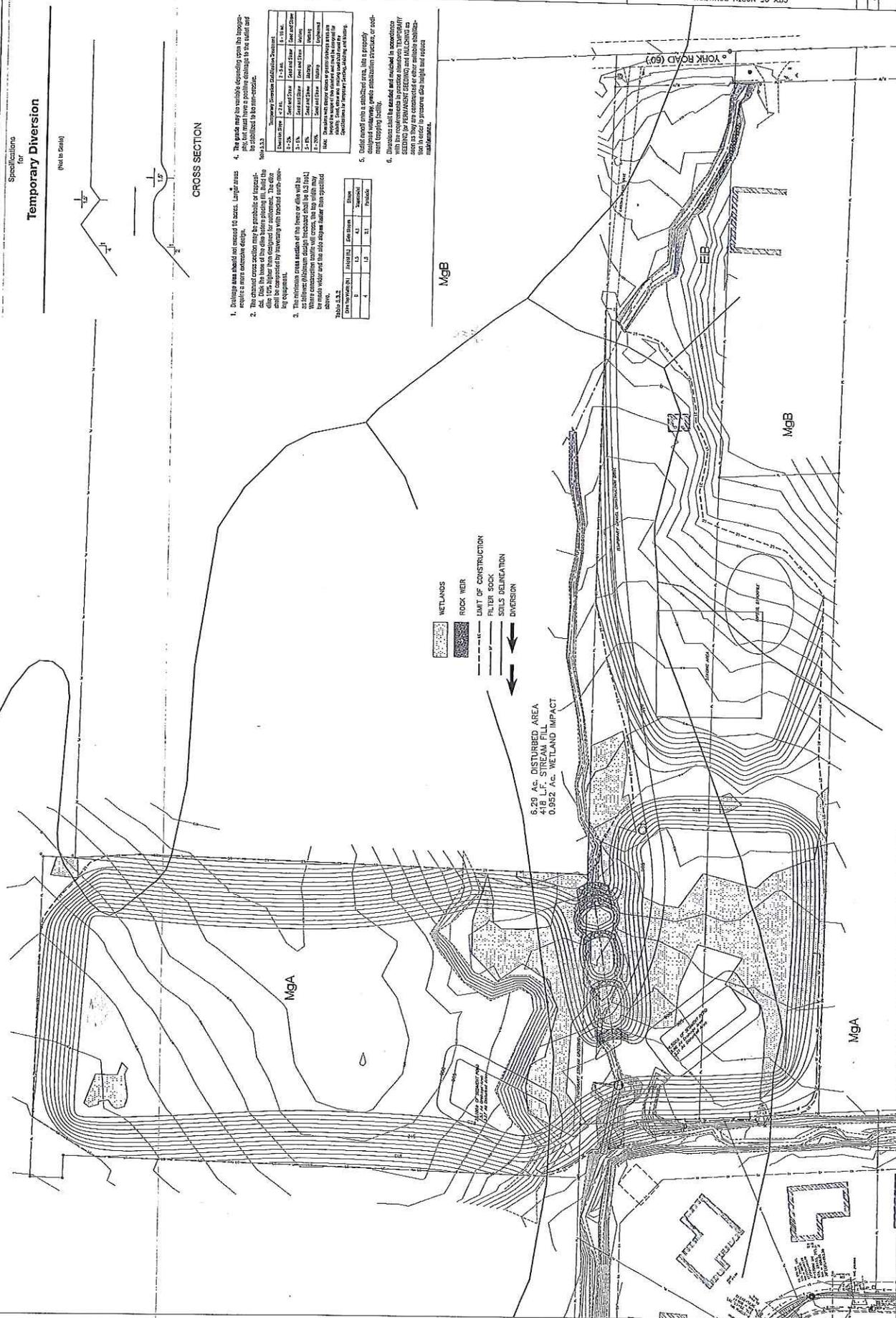
CROSS SECTION

1. Retention area shall not exceed 15 acres. Larger areas require a more extensive design.
2. The standard cross section may be modified to meet site conditions. The base of the slope shall be protected with riprap. The slope shall be protected by temporary erosion control measures.
3. The minimum cross section of this basin or ditch will be 10 feet wide at the top and 4 feet deep. The minimum cross section shall be 10 feet wide at the top and 4 feet deep. The slope shall be 1:1.5 on the outside and 1:1 on the inside.
4. The grade may be variable depending upon the topography of the site. The minimum slope shall be 1:1.5. The maximum slope shall be 1:1. The slope shall be 1:1.5 on the outside and 1:1 on the inside.
5. Outlet control shall be established in a manner which will prevent erosion of the outlet structure, or road, or other facility.
6. Discharges shall be made at a rate which will not cause erosion of the outlet structure, or road, or other facility.

Disturbance Area	Setback	Setback	Setback
0	1.5	3.1	6.2
1	1.5	3.1	6.2
2	1.5	3.1	6.2
3	1.5	3.1	6.2
4	1.5	3.1	6.2



6.29 AC. DISTURBED AREA  
416 L.F. STREAM FILL  
0.852 AC. WETLAND IMPACT



SCALE IN FEET (HORIZONTAL)



NO.	DESCRIPTION	DATE

STEPHEN HOVANCSEK & ASSOCIATES, INC.  
CONSULTING ENGINEERS AND PLANNERS  
TWO HEIGHTS DRIVE  
RICHMOND HEIGHTS, OHIO 44143  
PH: (216) 731-6295  
FAX: (216) 731-4483

CITY OF NORTH ROYALTON  
**CEDAR ESTATES DETENTION BASIN**  
PREFERRED ALTERNATIVE

DATE: 03/15  
JOB NO.: 07-126  
3 of 7

North Royalton, City of  
D/A Processing No. 2014-00144  
Cuyahoga County, Ohio  
Quad: Berea  
Sheet 8 of 12



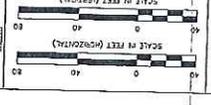
North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 9 of 12



CITY OF NORTH ROYALTON  
**CEDAR ESTATES DETENTION BASIN**  
 1  
**PREFERRED ALTERNATIVE**

STEPHEN HOVANCSEK & ASSOCIATES  
 CONSULTING ENGINEERS AND PLANNERS  
 TWO HERIT DRIVE  
 RICHMOND HEIGHTS, OHIO 44143  
 PH: (216) 731-8295 FAX: (216) 731-4433

NO.	DESCRIPTION	DATE	BY



- ROCK WEIR
- OPEN WATER WETLAND PLANTINGS
- EMERGENT WETLAND PLANTINGS
- REPAIRAN FOREST PLANTINGS
- NATIVE GRASS PLANTINGS
- WETLANDS
- — — — — LIMIT OF CONSTRUCTION

6.29 AC. DISTURBED AREA  
 418 L.F. STREAM FILL  
 0.992 AC. WETLAND IMPACT

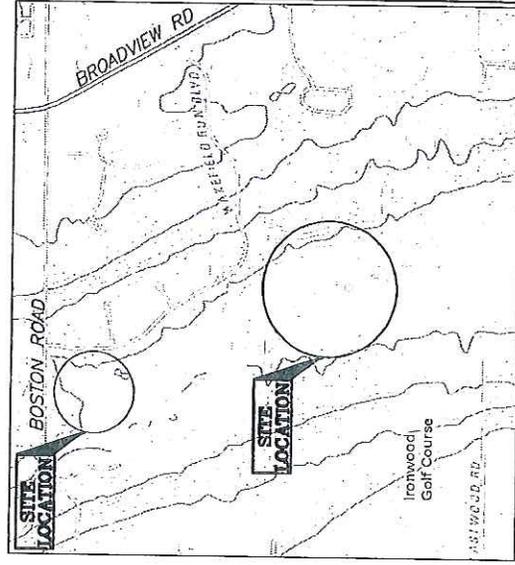
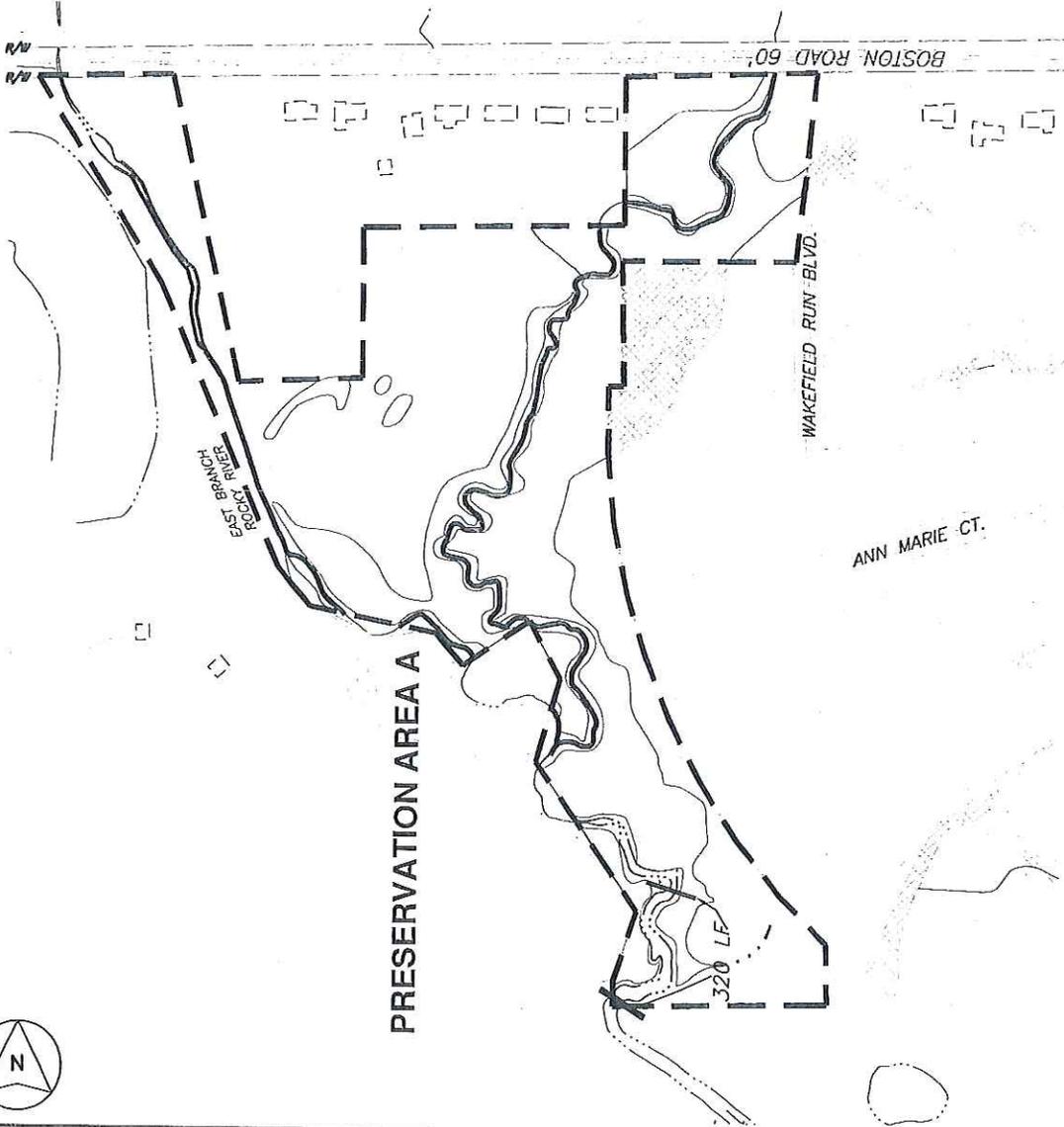




North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 11 of 12



- LEGEND**
- PRESERVATION AREA
  - STREAM/RIVER
  - ▭ FEDERAL WETLANDS

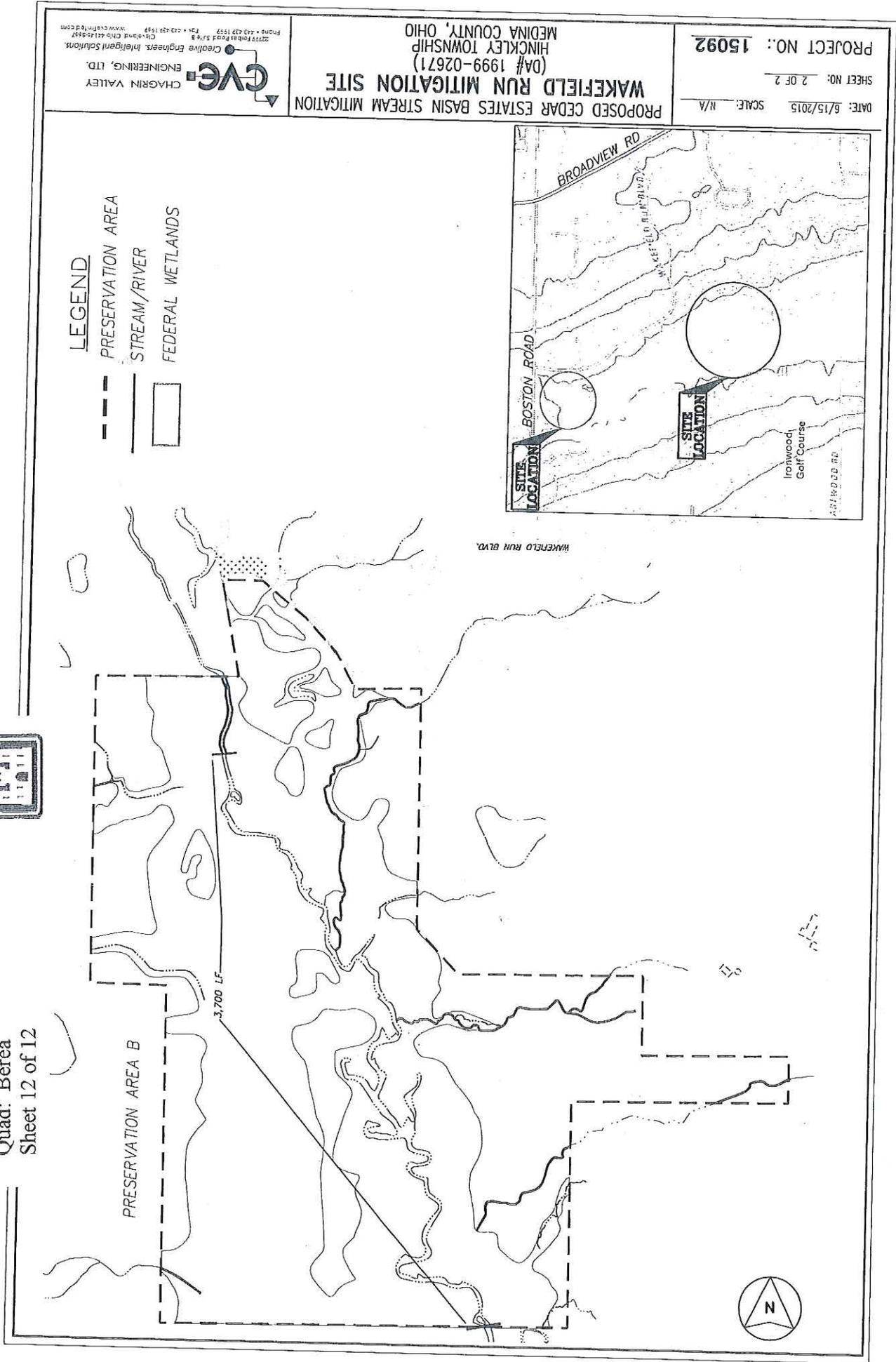


PROPOSED CEDAR ESTATES BASIN STREAM MITIGATION  
**WAKEFIELD RUN MITIGATION SITE**  
 HINCKLEY TOWNSHIP  
 (DA# 1999-02671)  
 MEDINA COUNTY, OHIO

**CVE**  
 CHAGRIN VALLEY  
 ENGINEERING, LTD.  
 Creative Engineers, Intelligent Solutions  
 22977 Federal Road Suite B  
 Chagrin Falls, Ohio 44130-4527  
 Phone: 440.432.1929 Fax: 440.432.1928  
 www.cveinc.com

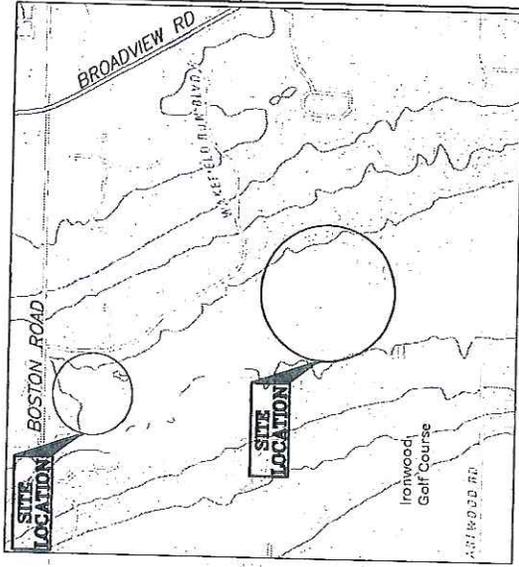
DATE: 6/15/2015 SCALE: N/A  
 SHEET NO.: 1 OF 2  
 PROJECT NO.: 15092

North Royalton, City of  
 D/A Processing No. 2014-00144  
 Cuyahoga County, Ohio  
 Quad: Berea  
 Sheet 12 of 12



**LEGEND**

- PRESERVATION AREA
- STREAM/RIVER
- ▭ FEDERAL WETLANDS



**CVE**  
 CHAGRIN VALLEY  
 ENGINEERING, LTD.  
 Creative Engineers, Intelligent Solutions  
 20250 Park Road S.W. # 2  
 Cleveland, Ohio 44130  
 Phone: 440.232.1532 Fax: 440.232.1539  
 www.cveinc.com

PROPOSED CEDAR ESTATES BASIN STREAM MITIGATION  
**WAKEFIELD RUN MITIGATION SITE**  
 (D/A# 1999-02671)  
 HINCKLEY TOWNSHIP  
 MEDINA COUNTY, OHIO

DATE: 6/15/2015  
 SCALE: N/A  
 SHEET NO.: 2 OF 2  
 PROJECT NO.: 15092

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ODNR, DOW NATURAL HERITAGE DATABASE REVIEW  
RESPONSE LETTER

---



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

## Ohio Division of Wildlife

Scott Zody, Chief  
2045 Morse Rd., Bldg. G  
Columbus, OH 43229-6693  
Phone: (614) 265-6300

February 2, 2015

Erin Van Nort  
Chagrin Valley Engineering, Ltd.  
22999 Forbes Rd., Suite B  
Cleveland, OH 44146

Dear Ms. Van Nort,

After reviewing the Natural Heritage Database, I find the Division of Wildlife has no records of rare or endangered species in the Cedar Estates Proposed Water Retention Basin project area, including a one mile radius, in North Royalton, Cuyahoga County, Ohio. We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests or other protected natural areas within a one mile radius of the project area.

We have a record for an Indiana Bat (*Myotis sodalis*) capture location within a five mile radius of the project site. Due to the sensitivity of this species, we do not provide the precise location of the observation. We have no records for Indiana Bat hibernacula within a ten mile radius of the project site. The nearest Bald Eagle nest is approximately seven miles to the northwest of the project area. Bald Eagle nest locations are based on survey data that was last collected in 2012. Since the Bald Eagle was removed from the state rare species list, the Natural Heritage Program will no longer be maintaining comprehensive Bald Eagle nest data going forward.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S. C. 661 et seq.) and does not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in blue ink that reads "Debbie Woischke".

Debbie Woischke  
Ohio Natural Heritage Database Program

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# US FISH & WILDLIFE SERVICE HABITAT REVIEW REQUEST

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## Erin VanNort

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**From:** susan\_zimmermann@fws.gov on behalf of Ohio, FW3 <ohio@fws.gov>  
**Sent:** Thursday, July 16, 2015 1:14 PM  
**To:** Erin VanNort  
**Subject:** Cedar Estates Proposed Basin, North Royalton, Cuyahoga Co. OH - CVE 15092

**Categories:** USFWS



UNITED STATES DEPARTMENT OF THE INTERIOR  
U.S. Fish and Wildlife Service  
Ecological Services Office  
4625 Morse Road, Suite 104  
Columbus, Ohio 43230  
(614) 416-8993 / Fax (614) 416-8994



TAILS# 03E15000-2015-TA-1324

Dear Ms. Van Nort,

We have received your recent correspondence regarding potential impacts to federally listed species in the vicinity of the above referenced project. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. We recommend that proposed activities minimize water quality impacts, including fill in streams and wetlands. Best management practices should be utilized to minimize erosion and sedimentation.

**FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS:** Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees  $\geq 3$  inches diameter at breast height between October 1 and March 31) to avoid impacts to Indiana bats and northern long-eared bats, we do not anticipate adverse effects to any federally endangered, threatened, proposed or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the U.S. Fish and Wildlife Service (Service) should be initiated to assess any potential impacts.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing should occur on any portion of the project area until consultation under section 7 of the Endangered Species Act (ESA), between the Service and the federal action agency, is completed. We recommend that the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to the potential for the project to affect state listed species and/or state lands. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us).

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or [ohio@fws.gov](mailto:ohio@fws.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Everson". The signature is written in a cursive, flowing style.

Dan Everson

Field Office Supervisor