

**Draft**

**FY 2014 Annual Report for the  
Quarterly Land Use Control Inspections,  
RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant  
Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers  
Louisville District**

***Prepared by:***



**November 14, 2014**

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Quarterly Land Use Control Inspections,  
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant  
Portage and Trumbull Counties, Ohio

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USACE = United States Army Corps of Engineers

RVAAP = Ravenna Army Ammunition Plant

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

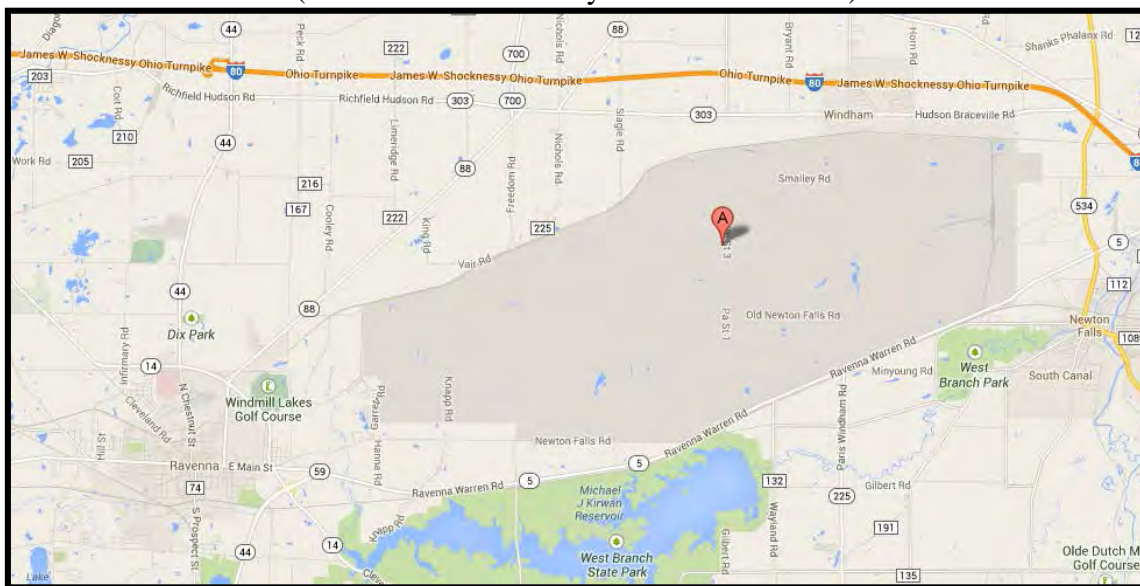
|    |              |   |
|----|--------------|---|
| 35 | AOC          | Area of Concern   |
| 36 | AR           | Army Regulation   |
| 37 | ARNG         | Army National Guard   |
| 38 | bgs          | below ground surface  |
| 39 | Camp Ravenna | Camp Ravenna Joint Military Training Center                       |
| 40 | CERCLA       | Comprehensive Environmental Response, Compensation, and Liability |
| 41 |              | Act   |
| 42 | C.F.R.       | Code of Federal Regulations                                       |
| 43 | DFFOs        | Director's Final Findings and Orders                              |
| 44 | FWSAP        | Facility-Wide Sampling and Analysis Plan                          |
| 45 | FWGWMPP      | Facility-Wide Groundwater Monitoring Program Plan                 |
| 46 | FY           | Fiscal Year   |
| 47 | GIS          | Geographical Information System                                   |
| 48 | IRP          | Installation Restoration Program                                  |
| 49 | LUC          | Land Use Control  |
| 50 | MK           | Mark  |
| 51 | MEC          | Munitions and Explosives of Concern                               |
| 52 | MRS          | Munitions Response Site   |
| 53 | NCP          | National Contingency Plan   |
| 54 | NBC          | Nuclear, Biological, Chemical                                     |
| 55 | Ohio EPA     | Ohio Environmental Protection Agency                              |
| 56 | OHARNG       | Ohio Army National Guard  |
| 57 | PMP          | Property Management Plan  |
| 58 | RD           | Remedial Design   |
| 59 | RDX          | Research Department Explosive                                     |
| 60 | ROD          | Record of Decision  |
| 61 | RVAAP        | Ravenna Army Ammunition Plant                                     |
| 62 | SOP          | Standard Operating Procedure                                      |
| 63 | TNT          | Trinitrotoluene   |
| 64 | U.S.C.       | United States Code  |
| 65 | USP&FO       | United States Property and Fiscal Office                          |
| 66 | UXO          | Unexploded Ordnance   |
| 67 | WBG          | Winklepeck Burning Grounds  |

## SECTION 1.0 INTRODUCTION

### 1.1 Facility Location

The former Ravenna Army Ammunition Plant (RVAAP), now known as the Camp Ravenna Joint Military Training Center (Camp Ravenna), located in northeastern Ohio within Portage and Trumbull counties, is approximately three miles east/northeast of the City of Ravenna and one mile north/northwest of the City of Newton Falls. The facility is approximately 11 miles long and 3.5 miles wide. The facility is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad to the south; Garret, McCormick, and Berry Roads to the west; the Norfolk Southern Railroad to the north; and State Route 534 to the east, as shown in Figure 1. In addition, the facility is surrounded by the communities of Windham, Garrettsville, Charlestown, and Wayland.

**Figure 1.0 Map of Camp Ravenna Joint Military Training Center  
(Former Ravenna Army Ammunition Plant)**



### 1.2 Facility History

RVAAP was a load, assemble, and pack facility built to produce large-caliber artillery projectiles and bombs. Although RVAAP downsized after World War II, plant production lines were reactivated during the Korean War and the Vietnam conflicts. Additionally, the plant conducted nearly continuous demilitarization of war stocks, refurbishment of inventoried ammunition, and minor research and development projects. By 1992, the installation's status changed from "inactive but maintained" to that of "caretaker."

The Department of Defense established the Installation Restoration Program (IRP) to provide guidance and funding for the investigation and cleanup of potential contamination and past operations caused by historical activities at military installations. The IRP began at RVAAP in 1989. Administrative accountability for the initial acreage of the facility was transferred to the United States Property and Fiscal Office (USP&FO) for Ohio in May 1999 with subsequent

transfers to follow. To date, administrative accountability for the entire 21,683-acre facility has been transferred to the USP&FO for Ohio and subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site, Camp Ravenna. The RVAAP restoration program involves cleanup of former production/operational areas throughout the facility related to former activities conducted under the RVAAP. The restoration program is currently managed by the Army National Guard (ARNG) with support from the OHARNG.

### **1.3 Winklepeck Burning Grounds**

As described in the Property Management Plan (PMP), Winklepeck Burning Grounds (WBG) encompasses 211.66 acres and is located in the central portion of Camp Ravenna (see Appendix B maps). The burning grounds area has been in operation since 1941. Prior to 1980, burning was conducted on the bare ground and the ash was abandoned at the site. Wastes treated in the area included Research Department Explosive (RDX), antimony sulfide, Composition B, lead azide, trinitrotoluene (TNT), propellants, black powder, waste oil, sludge from the load lines, domestic wastes, and small amounts of laboratory chemicals. From 1980 until 1998, periodic burning of scrap explosives, propellants, and explosive-contaminated waste materials (e.g., wipe rags, paper, and cardboard) was conducted in raised refractory-lined metal trays within a 1.5-acre area. A Part-B permit covering the active portion of the site was withdrawn in 1994. The burn trays along the 90-day storage unit of Building 1601 were closed in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance in 1998. Munitions and Explosives of Concern (MEC) is present in the Area of Concern (AOC). The previously applied remedy at the WBG AOC consisted of excavation of contaminated soil to preclude likely exposure through human contact. A portion of that remedy resulted in hazardous substances, pollutants, or contaminants remaining greater than levels that allow unlimited use and unrestricted exposure. Therefore a component of the remedial action at the WBG AOC includes Land Use Controls (LUCs) which are detailed in Section A-1.6 of the PMP.

Per the PMP, the land use for the WBG is *Small Arms Range* (including the existing Mark (MK) 19 Grenade Machinegun Range) for the OHARNG Military Use and Training. The Department of the Army has classified the Small Arms Range as an Operational Range at the WBG AOC. The Small Arms Range Land Use in terms of the Risk Assessment was created to assess specific training activities that would occur on a small arms range and was developed to assess risks to OHARNG personnel. In addition to the small arms training, certain activities are required to sustain and maintain the area as a range, such routine maintenance and activities are permitted if conducted by authorized personnel. More specific maintenance activities that are to be performed by the National Guard Range Maintenance Soldier and/or other similar authorized personnel on the WBG AOC can be found in the PMP.



## **SECTION 2.0 PURPOSE AND REQUIREMENTS**

### **2.1 Land Use Controls, Monitoring, And Reporting Requirements**

All work, plans, and documentation for the RVAAP IRP at Camp Ravenna must be in conformance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) [42 United States Code (U.S.C.) §9601, *et seq.*], the National Contingency Plan (NCP) [40 Code of Federal Regulations (C.F.R.) Part 300], and the Director's Final Findings and Orders (DFFOs) [June 10, 2004]. If residual contamination is left in place after the CERCLA remediation process is complete and the contamination still poses a potential for unacceptable risks or exceeds cleanup standards, then the Record of Decision (ROD) for the Areas of Concern/Munitions Response Sites (AOC/MRS) will require LUCs in accordance with the approved Remedial Design (RD).

LUCs include any physical, legal, or administrative mechanism that places restrictions on the use of, or limits access to, real property to prevent exposure to contaminants at concentrations greater than permissible levels or other safety issues. The intent of using these controls is to protect the integrity of the remedy (if present), human health, and the environment by limiting the activities that may occur at an AOC/MRS. When implemented, these LUCs provide protection to individuals using or working at the AOC/MRS by limiting and/or preventing activities which could potentially result in risks to those individuals. The Army is responsible to control land use on active installations such as Camp Ravenna and can internally restrict the use of such property. LUCs may include engineering controls such as fences, Seibert markers and signs, or administrative controls such as awareness training and restrictions on use including type of use and duration.

The PMP, dated August 2012, identifies LUCs and restrictions for specific AOCs/MRSs at Camp Ravenna and provides mechanisms to implement and manage those LUCs. The PMP is required under Army Regulation (AR) 210-20 and satisfies requirements of the DFFOs. The PMP lists general performance objectives of LUCs at Camp Ravenna as well as AOC/MRS specific LUCs detailed to address the concerns present on that particular AOC/MRS. According to Section 1.3 of the PMP, it is the responsibility of the Army to implement, inspect, maintain and enforce LUCs set forth under the RVAAP Restoration Program.

### **2.2 Annual LUC Monitoring Report Requirement**

The PMP requires an annual LUC monitoring report to evaluate the status and effectiveness of LUCs with a description of how LUC deficiencies, including inconsistent land uses, were addressed. The Annual LUC monitoring reports will be used in the preparation of the CERCLA 121(c) Five-Year Review. This Annual report is intended to summarize monitoring conducted during the Fiscal Year (FY) 2014 Quarterly LUC Inspection Reports for WBG. This is the second annual report completed in accordance with the Final PMP dated August 2012.

## **SECTION 3.0 SUMMARY OF FY 2014 QUARTERLY LUC INSPECTION REPORTS FOR WBG**

### **3.1 LUC Quarterly Inspection And Report Mechanisms For WBG**

The PMP states that site inspections will be conducted on a quarterly basis at WBG. The WBG Inspectors Quarterly Inspection Report Form completed for each quarter of FY 2014 states that all quarterly inspections include evaluation of the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the facility perimeter fence to ensure that it is maintained in a manner that is protective and effective and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with OHARNG range safety regulations/standard operating procedures (SOPs), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG AOC outside of the Unexploded Ordnance (UXO)/MEC-cleared areas within the MK-19 Grenade Machinegun Range is prohibited with the following exceptions:
  - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
  - Ground surface repairs by authorized range personnel in support of authorized range activities;
  - Digging along target array areas by authorized range personnel to a depth of one (1) foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
  - The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific IRP or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
  - The abandonment and replacement of monitoring wells damaged by activities conducted on the Installation and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

### 3.2 Land Use Control Awareness Training

Section 4.2 of the PMP, *Land Use Control Awareness Training*, describes requirements and guidelines for LUC awareness training at the facility. Currently, LUC awareness training is provided by the OHARNG to all appropriate individuals (e.g., personnel, visitors, and visiting units) before they are granted access to any area with a LUC. The LUC training provides an overview of the PMP and the procedures for preventing and reporting LUC violations, as well as any AOC/MRS specific restrictions. Initial and annual refresher courses are provided. All Camp Ravenna staff (including range and maintenance personnel) and tenant units receive annual LUC training. Formal LUC training has been conducted since 2006 and refresher training is given annually to all personnel. All training requirements presented in the PMP were met by the OHARNG in FY 2014. Training compliance is demonstrated in the FY 2014 Quarterly LUC Inspection Reports that are included in Appendices C, D, E, and F of this report.

### 3.3 Camp Ravenna Perimeter Fence

Currently, the only facility-wide engineering control for the AOCs/MRSs is the perimeter fence, as listed in Section 4.1.1 of the PMP. The Camp Ravenna perimeter fence is situated mostly in Portage County, Ohio, with a small portion (see maps in Appendix B - FY 2014 Quarterly Land Use Control Index Maps) extending easterly into western Trumbull County, Ohio. The entire perimeter fence was inspected for each of the FY 2014 quarterly inspections.

The majority of the original Camp Ravenna perimeter fence is approximately seventy years old. Most, but not all, of the perimeter fence situated within Trumbull County is less than approximately ten years old. Typically, but not all, of the perimeter fence consists of a six foot high chain link fence fabric with steel I-beam shaped posts set on 10 to 12 foot centers set in concrete footers. The top and bottom of the fence fabric is reinforced with a horizontal pipe running along the entire length. On top of each post is a V bracket with six strands of 15-gauge barbed wire, three strands inward facing and three strands outward facing. Twenty-six access gates are scattered throughout the approximate 30 miles of perimeter fencing evaluated (see maps in Appendix B - FY 2014 Quarterly Land Use Control Index Maps). Most of the former railroad access gates have been welded shut along with a few vehicle access gates that are no longer used.

In addition to documenting compliance with training, operation, and maintenance requirement set forth in the PMP, quarterly inspections also identify, document, and map major defects along the perimeter fence for future repair. In the inspector's judgment, a major defect was considered a breach in the fence through which an adult could gain unlawful access to the facility. Additionally, during the evaluation, major defects noted in previous inspections were visited and repairs logged if completed or ongoing. Geographical Information System (GIS) raw field data collected from the inspections were reduced and compiled in ESRI Arc Map. Index Maps depicting the call outs along with Detail Maps and photographs of each call out were prepared and submitted along with the WBG Inspectors Quarterly Inspection Report Form. Final approved versions of each FY 2014 Quarterly LUC Inspection Report are included in Appendices C, D, E, and F of this report.

The four quarterly inspections performed in FY 2014 reported a total of 31 documented major defects in the perimeter fence, 11 of which were recently discovered during the FY2014 fourth quarter inspection. A total of 10 documented defects from the FY 2013 quarterly inspections had not yet been repaired at the start of the FY 2014 reporting period. Of this total, 25 repairs were performed and documented in the subsequent inspection reports. Thirteen of the remaining locations are in progress of being repaired or have been repaired at the time of printing this report. See Appendix A for a table of all perimeter fence defect call outs identified and repaired in FY 2014. When a major defect is noted during the LUC field inspection the Army is notified via email detailing the date and location. The date of notification is included in the quarterly LUC inspection report under "Section 6. Date of notification of LUC violation (if applicable)."

The Camp Ravenna maintenance crews are limited to making only minor fence repairs. Repair logs make reference to "contractor needed" on some call out sections where more extensive repairs are required. An example would be storm washouts (i.e. SW1, SW12, SW18, and SE2) along the perimeter road that continue to damage the perimeter fence. Culvert pipe inlets and outlets become clogged with debris, old corrugated metal culvert pipes have rusted and collapsed and some pipe sizes are unable to handle the storm runoff, all contributing to the washouts along the perimeter road.

Two major fence repair contracts that began in October 2013 have repaired several large sections of the perimeter fence. In February 2014 Vista Sciences Corp. completed over 4,500 feet of barbed wire repair or installation to the perimeter fence at the west end of the facility. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 has also been replaced. Details of these fence repairs are presented in Appendix D "Final FY 2014 Second Quarter Plan Land Use Control Inspection for Winklepeck RVAAP-05 Burning Grounds".

It should be noted that only repairs of defects called out and included in previous LUC Inspection Reports are conveyed in the detail sheets of the subsequent LUC Inspection Reports. These repairs are documented in repair logs kept by the Camp Ravenna Maintenance Crews and are included with the quarterly reports in Attachment 3 - Camp Ravenna Fence Repair Log (Appendices C, D, E, and F of this report). Numerous minor repairs (consisting of patching smaller openings in the fence fabric, replacing missing/broken barb wire, repairing frost heaved posts, removing fallen trees and branches resting on top of the fence) that were not sited during the LUC field inspection, were, and continue to be, repaired by the Camp Ravenna staff/maintenance crew and are not documented in repair logs.

## **SECTION 4.0 CONCLUSION**

### **4.1 Land Use Consistency And Land Use Control Effectiveness**

Per the PMP, the land use for the WBG is Small Arms Range (including the existing MK-19 Grenade Machinegun Range) for the OHARNG Military Use and Training. Based on the completed inspections during FY 2014, there were no inconsistent uses or activities discovered or reported at WBG. All training and activities conducted within the WBG AOC were performed in compliance with OHARNG range safety regulations/SOP, established digging restrictions, and established exposure limits as described in the PMP. This indicates current LUC objectives are being met to ensure the remedy is effective and protective.

The LUCs for the WBG AOC were evaluated quarterly in FY 2014 as stated in the PMP using the parameters listed in Section 3.1 LUC Quarterly Inspection and Reporting Mechanisms for WBG. These Quarterly LUC Inspections show all LUCs requirements presented in the PMP for WBG remained in place and were effective through FY 2014.

The OHARNG provided training to all Camp Ravenna staff and tenant units including an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific restrictions for WBG. Units that utilize the range at WBG also receive an in brief prior to firing on the range and are not allowed down range. Environmental contractors who access WBG are also provided with an in brief which informs them of the LUCs/restrictions at the AOC. All training, operation, and maintenance requirements specific to WBG presented in the PMP were met by the OHARNG in FY 2014 and is documented in the FY 2014 Quarterly LUC Inspection Reports included in Appendix C, D, E, and F of this report.

### **4.2 Land Use Control Deficiency Corrective Action**

The main purpose of inspecting and monitoring LUCs as required by the PMP is to identify and correct LUC deficiencies and violations. LUC inspection reports allow the OHARNG to document consistent land use, as well as corrective action if deficiencies are encountered. Each inspection has been conducted using the same parameters, resulting in a uniform and concise system of identification and repair of perimeter fence defect call outs. As these inspections continue, the integrity and effectiveness of the perimeter fence as a LUC has improved. Of the total number of perimeter fence defect call-outs identified, approximately 70% were repaired by the next quarterly inspection. The LUC inspections provide a mechanism to ensure the perimeter fence is being monitored and maintained to function as a facility-wide engineering control as described in the PMP. Continued quarterly inspections will ensure the LUCs for WBG remain in place and are effective.

**SECTION 5.0 REFERENCES**

Final Property Management Plan for the Designated Areas of Concern and Munitions Response Sites, Volume One – Version 1.0. U.S. Army Corps of Engineers. August 2012.

Ravenna Army Ammunition Plant Restoration Program website: [www.rvaap.org](http://www.rvaap.org)

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## **Appendix A**

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### **FY 2014 Perimeter Fence Defect Call Outs Identified and Repaired**

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**FISCAL YEAR 2014 LAND USE CONTROL INSPECTION SUMMARY TABLE**  
**Camp Ravenna Joint Military Training Center**

| Callout | Comments  | US Survey Ft |         | Fiscal Year and Quarter Identified | Fiscal Year and Quarter Repaired |
|---------|---|--------------|---------|------------------------------------|----------------------------------|
|         |   | Northing     | Easting |                                    |                                  |
| NE05    | hole in fence   | 571090       | 2384743 | FY 2013 - 2 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NE06    | hole in fence   | 570126       | 2384759 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE18    | apx. 10 sections of fence fabric needs reattached at base | 573035       | 2372897 | FY 2013 - 4 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE19    | hole next to post near bottom                             | 570600       | 2384750 | FY 2013 - 4 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NE20    | bottom of fence too high above ground                     | 570080       | 2386673 | FY 2013 - 4 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NE21    | cut hole in fence   | 572732       | 2364028 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NE22    | vandalized section of secluded fence at base              | 566933       | 2386688 | FY 2014 - 1 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE23    | 3 sections badly damaged                                  | 563209       | 2383312 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NE24    | poacher hole in fence                                     | 572341       | 2379439 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE25    | hole in fence   | 571059       | 2380588 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE26    | hole in fence   | 571062       | 2380862 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE27    | hole in fence   | 571068       | 2381194 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE28    | hole in fence   | 571112       | 2383373 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE29    | hole in fence   | 570046       | 2384741 | FY 2014 - 2 Qtr.                   | FY 2014 - 3 Qtr.                 |
| NE30    | poacher hole  | 571083       | 2382464 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| NW08    | open along top apx 6 sections(swampy)                     | 567746       | 2349644 | FY 2013 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| NW09    | hole cut in fence   | 569396       | 2350885 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| NW10    | cut hole in fence   | 571046       | 2354186 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| SE02    | washout...worse now 7-18-2013                             | 551498       | 2361141 | FY 2014 - 4 Qtr.                   |                                  |
| SE03    | hole cut in fence   | 562592       | 2380413 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| SE04    | washout logged as type 2 on 2-27-2014, 0271 photo         | 558980       | 2377933 | FY 2014 - 1 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SE05    | washout below undamaged fence                             | 550299       | 2358851 | FY 2014 - 3 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW01    | bottom open   | 549403       | 2336048 | FY 2013 - 2 Qtr.                   |                                  |
| SW05    | hole in fence at bottom                                   | 559954       | 2333158 | FY 2013 - 2 Qtr.                   | FY 2014 - 1 Qtr.                 |
| SW06A   | poacher hole in fence (repeat)                            | 560708       | 2335572 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW07    | apx 100 ft of fabric missing                              | 561189       | 2336373 | FY 2013 - 2 Qtr.                   | FY 2014 - 1 Qtr.                 |
| SW08    | hole in fence   | 561285       | 2336529 | FY 2013 - 2 Qtr.                   | FY 2014 - 1 Qtr.                 |
| SW09    | hole in fence   | 561395       | 2336638 | FY 2013 - 2 Qtr.                   | FY 2014 - 1 Qtr.                 |
| SW10    | washout   | 548427       | 2354836 | FY 2013 - 4 Qtr.                   | FY 2014 - 2 Qtr.                 |
| SW11    | apx. 90' of fence knocked down                            | 548333       | 2354108 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| SW12    | storm washout about 2 sections inlet needs cleared        | 552357       | 2330086 | FY 2014 - 1 Qtr.                   |                                  |
| SW13    | hole at bottom of fence                                   | 552891       | 2330038 | FY 2014 - 1 Qtr.                   | FY 2014 - 2 Qtr.                 |
| SW14    | poacher hole in fence                                     | 549386       | 2334237 | FY 2014 - 3 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW15    | tree blow down  | 549438       | 2339580 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW16    | tree blow down/damaged fence                              | 554267       | 2328362 | FY 2014 - 4 Qtr.                   |                                  |
| SW17    | tree blow down/fence top damaged                          | 556228       | 2328345 | FY 2014 - 4 Qtr.                   |                                  |
| SW18    | hole under fence at culvert outlet                        | 556241       | 2328345 | FY 2014 - 4 Qtr.                   |                                  |
| SW19    | tree blow down/top fence damaged                          | 556581       | 2328342 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW20    | hole in bottom of fence below sign                        | 559398       | 2330974 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW21    | hole at bottom of fence                                   | 559659       | 2331945 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |
| SW22    | poacher hole  | 560762       | 2335683 | FY 2014 - 4 Qtr.                   | FY 2014 - 4 Qtr.                 |

NOTE: Blank Space Indicates Repair Not Yet Completed



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## **Appendix B**

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### **FY 2014 Quarterly Land Use Control Index Maps**

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WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 1st Qtr. FY 2014

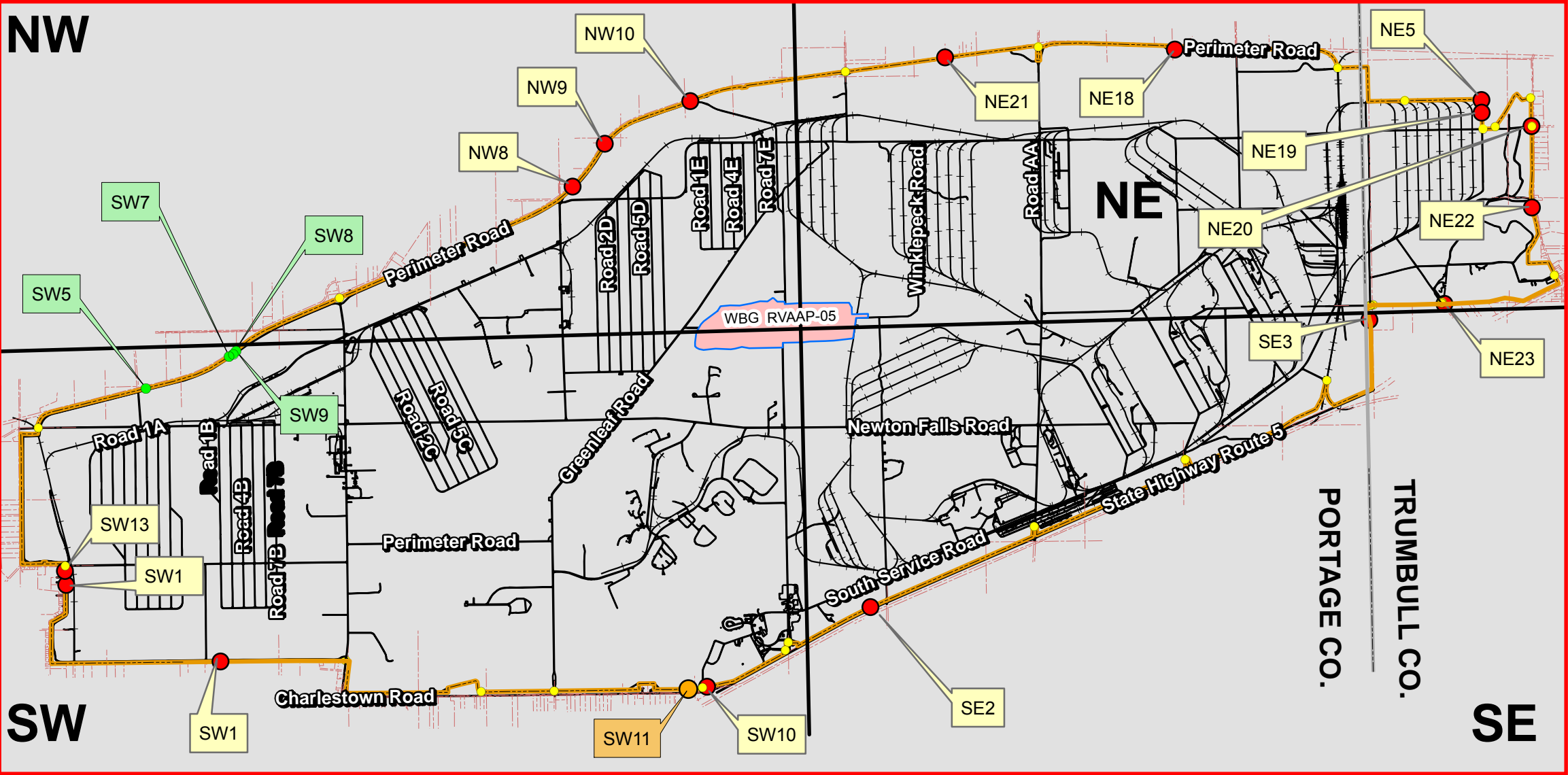


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH  
DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
- Repaired (4 locations)
- Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

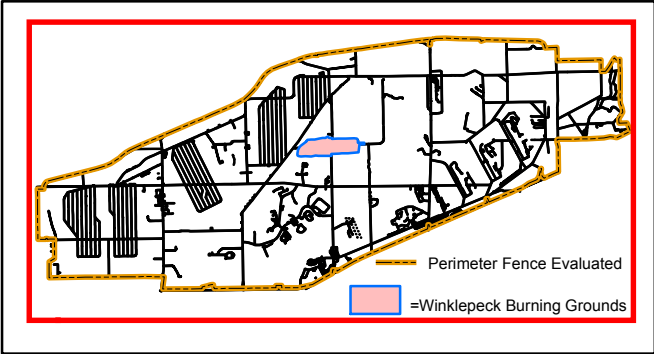
Detail Sheet  
Repair Callout

Detail Sheet  
Repair in Progress  
Callout

| Detail Sheet |            | Camp Ravenna Joint Military Training Center 1st Qtr. FY 2014 LUC Inspection |  | Summary Table   | US Survey Feet |         |                                       |
|--------------|------------|---|--|---|----------------|---------|---------------------------------------|
| Callout      | Date       | Path to Photo Location  |  | Comments  | Northing       | Easting | Path to Repair Photo Location         |
| NE5          | 2/13/2013  | c:\My Documents\My ArcPad\P1010095.JPG                                      |  | hole in fence   | 571090         | 2384743 |                                       |
| NE18         | 7/17/2013  | c:\My Documents\My ArcPad\P1010219.JPG                                      |  | apx. 10 sections of fence fabric needs reattached at base due to storm damage | 573035         | 2372897 |                                       |
| NE19         | 7/17/2013  | c:\My Documents\My ArcPad\P1010220.JPG                                      |  | hole next to post near bottom   | 570600         | 2384750 |                                       |
| NE20         | 7/18/2013  | c:\My Documents\My ArcPad\P1010221.JPG                                      |  | bottom of fence too high above ground   | 570080         | 2386673 |                                       |
| NE21         | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG                                      |  | cut hole in fence   | 572732         | 2364028 |                                       |
| NE22         | 11/25/2013 | c:\My Documents\My ArcPad\P1010268.JPG                                      |  | vandalized section of secluded fence at base                                  | 566933         | 2386688 |                                       |
| NE23         | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG                                      |  | 3 sections badly damaged  | 563209         | 2383312 |                                       |
| NW10         | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG                                      |  | cut hole in fence   | 571046         | 2354186 |                                       |
| NW8          | 7/16/2013  | c:\My Documents\My ArcPad\P1010210.JPG                                      |  | open along top apx 6 sections (swampy)  | 567746         | 2349644 |                                       |
| NW9          | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG                                      |  | hole cut in fence   | 569396         | 2350885 |                                       |
| SE2          | 2/13/2013  | c:\My Documents\My ArcPad\P1010228.JPG                                      |  | washout... worse now 7.18.2013  | 551498         | 2361141 |                                       |
| SE3          | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG                                      |  | hole cut in fence   | 562592         | 2380413 |                                       |
| SW1          | 2/7/2013   | c:\My Documents\My ArcPad\P1010061.JPG                                      |  | bottom open   | 549403         | 2336048 |                                       |
| SW10         | 7/15/2013  | c:\My Documents\My ArcPad\P1010203.JPG                                      |  | washout   | 548427         | 2354836 |                                       |
| SW11         | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG                                      |  | apx. 90' of fence knocked down repairs in progress                            | 548333         | 2354108 | c:\My Documents\My ArcPad\P101024.JPG |
| SW12         | 11/18/2013 | c:\My Documents\My ArcPad\P1010249.JPG                                      |  | storm washout about 2 sections inlet needs cleared                            | 552357         | 2330086 |                                       |
| SW13         | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG                                      |  | hole at bottom of fence   | 552891         | 2330038 |                                       |
| SW5          | 2/12/2013  | c:\My Documents\My ArcPad\P1010074.JPG                                      |  | hole in fence at bottom   | 559954         | 2333158 | c:\My Documents\My ArcPad\P101256.JPG |
| SW7          | 2/12/2013  | c:\My Documents\My ArcPad\P1010076.JPG                                      |  | apx 100 ft of fabric missing  | 561189         | 2336373 | c:\My Documents\My ArcPad\P101257.JPG |
| SW8          | 2/12/2013  | c:\My Documents\My ArcPad\P1010077.JPG                                      |  | hole in fence   | 561285         | 2336529 | c:\My Documents\My ArcPad\P101258.JPG |
| SW9          | 2/12/2013  | c:\My Documents\My ArcPad\P1010078.JPG                                      |  | hole in fence   | 561395         | 2336638 | c:\My Documents\My ArcPad\P101259.JPG |

Gray shaded callouts repaired 1st qtr

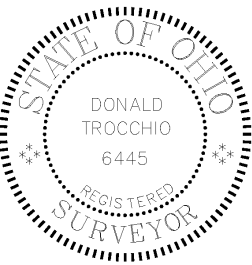
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



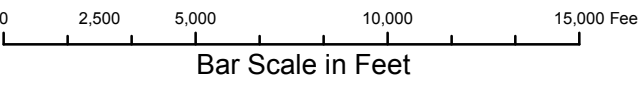
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 2nd Qtr. FY 2014

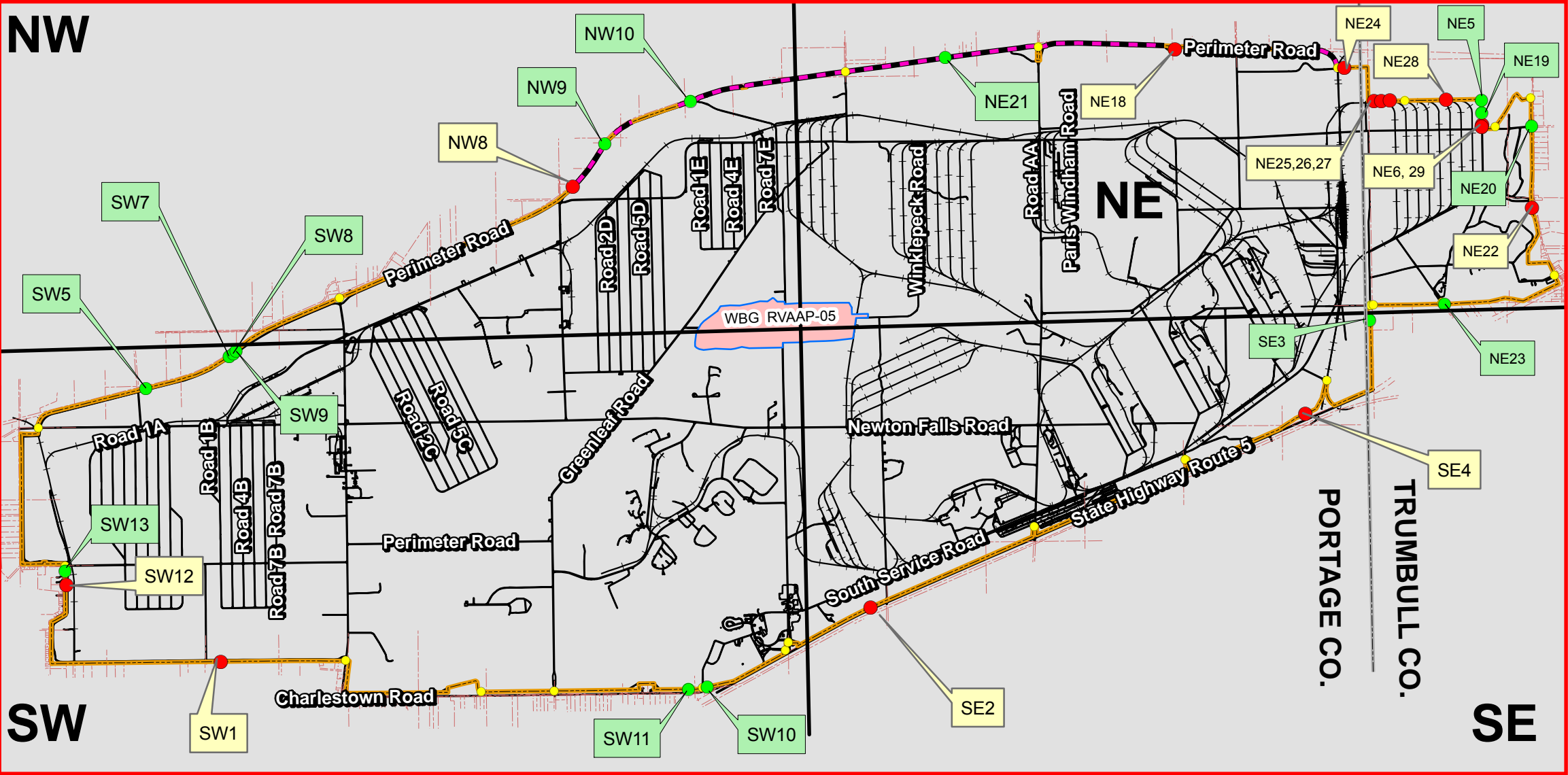


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

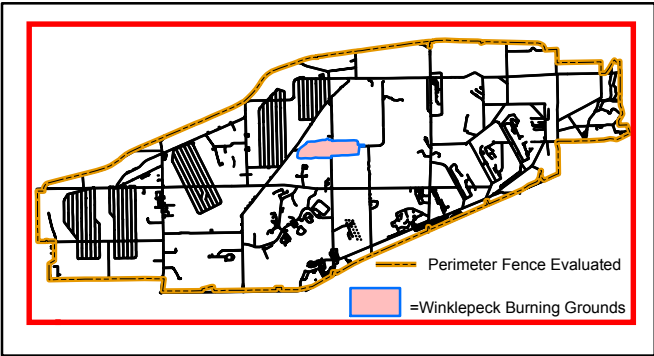
- Opening in fence (2'±) and/or fabric missing/damaged (14 locations)
- Repaired (15 locations)
- Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
- New fence fabric currently being installed and in progress (4.3mi to date). See also Supplemental Index Map No.1
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

Detail Sheet  
Repair Callout

| Camp Ravenna Joint Military Training Center 2nd Qtr FY2014 LUC Inspection Summary Table |            |  |   |  | US Survey Ft |         | Path to Repair Photo                   |         |
|---|------------|--|---|--|--------------|---------|--|---------|
| Callout   | Date       | Path to Photo Location                 | Comments  |  | Northing     | Easting |  | Callout |
| NE06  | 02/13/2013 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   |  | 570126       | 2384759 |  | NE06    |
| NE18  | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base |  | 573035       | 2372897 |  | NE18    |
| NE22  | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | vandalized section of secluded fence at base              |  | 566933       | 2386688 |  | NE22    |
| NE24  | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     |  | 572341       | 2379439 |  | NE24    |
| NE25  | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | hole in fence   |  | 571059       | 2380588 |  | NE25    |
| NE26  | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   |  | 571062       | 2380862 |  | NE26    |
| NE27  | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   |  | 571068       | 2381194 |  | NE27    |
| NE28  | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   |  | 571112       | 2383373 |  | NE28    |
| NE29  | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   |  | 570046       | 2384741 |  | NE29    |
| NW08  | 07/16/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections(swampy)                     |  | 567746       | 2349644 |  | NW08    |
| SW01  | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   |  | 549403       | 2336048 |  | SW01    |
| SW12  | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | storm washout about 2 sections inlet needs cleared        |  | 552357       | 2330086 |  | SW12    |
| SE02  | 02/13/2013 | c:\My Documents\My ArcPad\P1010353.JPG | washout...worse now 7.18.2013                             |  | 551498       | 2361141 |  | SE02    |
| SE04  | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on 2-27-14 0271 photo            |  | 558980       | 2377933 |  | SE04    |
| SW05  | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   |  | 559954       | 2333158 | c:\My Documents\My ArcPad\P1010256.JPG | SW05    |
| SW07  | 02/12/2013 | c:\My Documents\My ArcPad\P1010076.JPG | apx. 100 ft of fabric missing                             |  | 561189       | 2336373 | c:\My Documents\My ArcPad\P1010257.JPG | SW07    |
| SW08  | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   |  | 561285       | 2336529 | c:\My Documents\My ArcPad\P1010258.JPG | SW08    |
| SW09  | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   |  | 561395       | 2336638 | c:\My Documents\My ArcPad\P1010259.JPG | SW09    |
| SW10  | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   |  | 548427       | 2354836 | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11  | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            |  | 548333       | 2354108 | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13  | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG | hole at bottom of fence                                   |  | 552891       | 2330038 | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
| NE05  | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   |  | 571090       | 2384743 | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19  | 07/17/2013 | c:\My Documents\My ArcPad\P1010220.JPG | hole next to post near bottom                             |  | 570600       | 2384750 | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20  | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     |  | 570080       | 2386673 | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21  | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   |  | 572732       | 2384028 | c:\My Documents\My ArcPad\P1010354.JPG | NE21    |
| NE23  | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  |  | 563209       | 2383312 | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
| NW09  | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   |  | 569396       | 2350885 | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10  | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | hole cut in fence   |  | 571046       | 2354186 | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
| SE03  | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   |  | 562592       | 2380413 | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |
| REPAIRED 1ST QTR  |            |  |   |  |              |         |  |         |
| REPAIRED 2ND QTR  |            |  |   |  |              |         |  |         |

Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



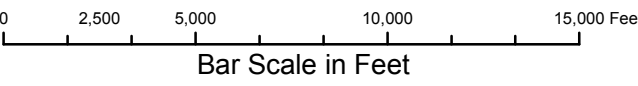
US Army Corps of  
Engineers

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

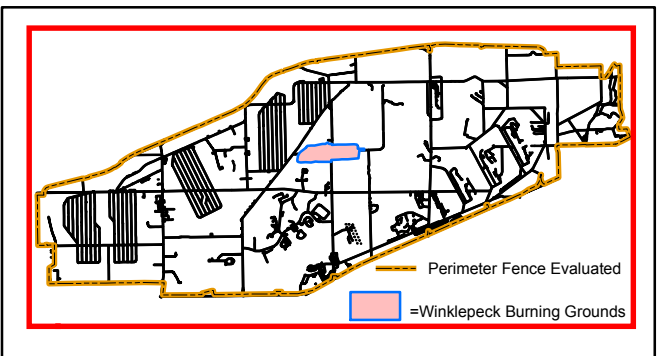
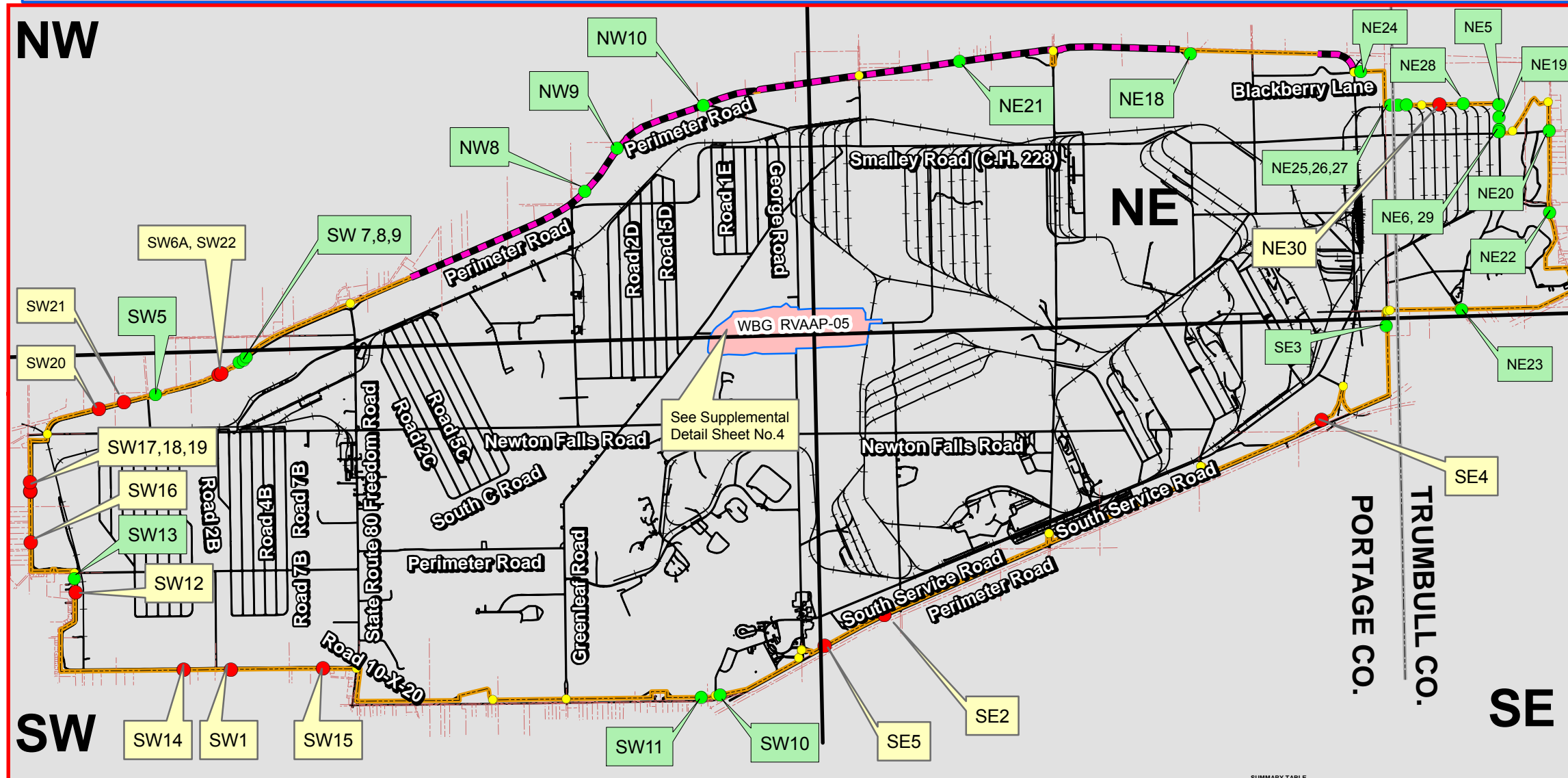
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP



## FIGURE 1 INDEX MAP

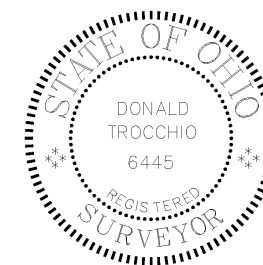
**Camp Ravenna  
Joint Military Training Center**



# Portage & Trumbull County LOCATOR MAP



## Ohio Army National Guard



Produced in July 2014 for:



## US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

## Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

A horizontal bar scale labeled "Bar Scale in Feet" with major tick marks at 0, 2,500, 5,000, 10,000, and 15,000 feet.

## FIGURE 1 INDEX MAP

### FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

**SEE ATTACHED DETAIL SHEETS FOR EACH  
DESIGNATED CALLOUT LOCATION**

### Legend

## LUC Inspection of Perimeter Fence

- Opening in fence (2'≥) and/or fabric missing/damaged (16 locations)
- Repaired (25 locations)
- Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
- New fence fabric installed to date (about 6.3 miles)  
See also Supplemental Index Map No.1
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

Detail Sheet  
Repair Callout

| Camp Ravenna Joint Military Training Center 4th Qtr FY2014 LSC Inspection |            |                                      |   |           | US Survey F1 |                                      |
|---|------------|--------------------------------------|---|-----------|--------------|--------------------------------------|
| Callout   | Date       | Path to Photo Location               | Comments  | Northings | Eastings     | Path to Repair Photo                 |
| NE30  | 7/21/2014  | c:\My Documents\MyAcPrd\P1010425.JPG | poacher hole  | 571083    | 2382464      |                                      |
| SW01  | 02/07/2013 | c:\My Documents\MyAcPrd\P1010322.JPG | bottom open   | 549403    | 2336048      |                                      |
| SW06A   | 02/07/2013 | c:\My Documents\MyAcPrd\P1010416.JPG | poacher hole in fence (repeat)                            | 560708    | 2335572      |                                      |
| SW12  | 11/18/2013 | c:\My Documents\MyAcPrd\P1010323.JPG | storm washout about 2 sections inner lines cleared        | 552337    | 2330086      |                                      |
| SW14  | 04/14/2014 | c:\My Documents\MyAcPrd\P1010370.JPG | poacher hole in fence                                     | 549098    | 2334237      |                                      |
| SW15  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010404.JPG | tree blow down  | 549438    | 2335950      |                                      |
| SW16  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010408.JPG | tree blow down/damaged fence                              | 554267    | 2328362      |                                      |
| SW17  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010409.JPG | tree slow down/fence top damaged                          | 556228    | 2328345      |                                      |
| SW18  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010412.JPG | hole under fence at culvert outlet                        | 556241    | 2328345      |                                      |
| SW19  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010413.JPG | hole below blowdown fence damaged                         | 556681    | 2328342      |                                      |
| SW20  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010414.JPG | hole in bottom of fence below sign                        | 556988    | 2330074      |                                      |
| SW21  | 7/15/2014  | c:\My Documents\MyAcPrd\P1010415.JPG | hole at bottom of fence                                   | 556989    | 2331945      |                                      |
| SW22  | 7/16/2014  | c:\My Documents\MyAcPrd\P1010417.JPG | poacher hole  | 560762    | 2335683      |                                      |
| SE02  | 7/22/2014  | c:\My Documents\MyAcPrd\P1010427.JPG | washout... worse now 7.18.2013                            | 551498    | 2361141      |                                      |
| SE04  | 11/25/2013 | c:\My Documents\MyAcPrd\P1010351.JPG | washout logged at type 2 on 2-27-14                       | 550899    | 2377933      |                                      |
| SE05  | 04/22/2013 | c:\My Documents\MyAcPrd\P1010402.JPG | washout below undamaged fence                             | 559220    | 2358551      |                                      |
| SW05  | 02/12/2013 | c:\My Documents\MyAcPrd\P1010074.JPG | hole in fence at bottom                                   | 559594    | 2333158      | c:\My Documents\MyAcPrd\P1010256.JPG |
| SW07  | 02/12/2013 | c:\My Documents\MyAcPrd\P1010075.JPG | apx 100' of fabric missing                                | 561169    | 2336373      | c:\My Documents\MyAcPrd\P1010257.JPG |
| SW08  | 02/12/2013 | c:\My Documents\MyAcPrd\P1010077.JPG | hole in fence   | 561265    | 2336320      | c:\My Documents\MyAcPrd\P1010258.JPG |
| SW09  | 02/12/2013 | c:\My Documents\MyAcPrd\P1010078.JPG | hole in fence   | 561395    | 2336368      | c:\My Documents\MyAcPrd\P1010259.JPG |
| SW10  | 07/15/2013 | c:\My Documents\MyAcPrd\P1010203.JPG | washout   | 548427    | 2354836      | c:\My Documents\MyAcPrd\P1010260.JPG |
| SW11  | 11/18/2013 | c:\My Documents\MyAcPrd\P1010206.JPG | apx. 90' of fence knocked down                            | 548333    | 2354108      | c:\My Documents\MyAcPrd\P1010321.JPG |
| SW13  | 11/18/2013 | c:\My Documents\MyAcPrd\P1010250.JPG | hole at bottom of fence                                   | 552891    | 2330308      | c:\My Documents\MyAcPrd\P1010324.JPG |
| NE05  | 02/13/2013 | c:\My Documents\MyAcPrd\P1010096.JPG | hole in fence   | 571090    | 2384743      | c:\My Documents\MyAcPrd\P1010368.JPG |
| NE19  | 07/17/2013 | c:\My Documents\MyAcPrd\P1010220.JPG | hole next to post near bottom                             | 570000    | 2384750      | c:\My Documents\MyAcPrd\P1010369.JPG |
| NE20  | 03/03/2014 | c:\My Documents\MyAcPrd\P1010362.JPG | 07/18/2013 hole 200' high above ground                    | 570003    | 2384673      | c:\My Documents\MyAcPrd\P1010370.JPG |
| NE21  | 11/21/2013 | c:\My Documents\MyAcPrd\P1010265.JPG | hole in fence   | 572329    | 2386428      | c:\My Documents\MyAcPrd\P1010354.JPG |
| NE23  | 11/25/2013 | c:\My Documents\MyAcPrd\P1010269.JPG | 3 sections badly damaged                                  | 569208    | 2383312      | c:\My Documents\MyAcPrd\P1010375.JPG |
| NW09  | 11/19/2013 | c:\My Documents\MyAcPrd\P1010261.JPG | hole cut in fence   | 569396    | 2350885      | c:\My Documents\MyAcPrd\P1010334.JPG |
| NW10  | 11/21/2013 | c:\My Documents\MyAcPrd\P1010263.JPG | hole cut in fence   | 571046    | 2354186      | c:\My Documents\MyAcPrd\P1010341.JPG |
| SE03  | 11/25/2013 | c:\My Documents\MyAcPrd\P1010270.JPG | hole cut in fence   | 562592    | 2380413      | c:\My Documents\MyAcPrd\P1010350.JPG |
| NE06  | 03/03/2014 | c:\My Documents\MyAcPrd\P1010370.JPG | hole in fence   | 570126    | 2384759      | c:\My Documents\MyAcPrd\P1010397.JPG |
| NE18  | 07/17/2013 | c:\My Documents\MyAcPrd\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base | 570303    | 2372997      | c:\My Documents\MyAcPrd\P1010389.JPG |
| NE22  | 11/25/2013 | c:\My Documents\MyAcPrd\P1010373.JPG | vanitized section of secured fence at base                | 569635    | 2386688      | c:\My Documents\MyAcPrd\P1010399.JPG |
| NE24  | 03/03/2014 | c:\My Documents\MyAcPrd\P1010363.JPG | poacher hole in fence                                     | 572341    | 2379439      | c:\My Documents\MyAcPrd\P1010391.JPG |
| NE25  | 03/03/2014 | c:\My Documents\MyAcPrd\P1010364.JPG | hole in fence   | 571059    | 2380588      | c:\My Documents\MyAcPrd\P1010392.JPG |
| NE26  | 03/03/2014 | c:\My Documents\MyAcPrd\P1010366.JPG | hole in fence   | 570102    | 2380862      | c:\My Documents\MyAcPrd\P1010393.JPG |

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## **Appendix C**

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### **Final FY 2014 First Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds**

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**Final**  
**FY 2014 First Quarter Land Use Control Inspection,**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers**  
**Louisville District**

***Prepared by:***



**July 18, 2014**

**Final**  
**FY 2014 First Quarter Land Use Control Inspection,**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center  
Ravenna Army Ammunition Plant  
Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers  
Louisville District**

***Prepared by:***



**July 18, 2014**



## **LIST OF ACRONYMS AND ABBREVIATIONS**

|          |   |
|----------|---|
| AEC      | Army Environmental Command  |
| AOC      | Area of Concern   |
| AR       | Army Regulation   |
| BGS      | Below Ground Surface  |
| BRACD    | Base Realignment and Closure Division                                 |
| CERCLA   | Comprehensive Environmental Response, Compensation, and Liability Act |
| CR       | Camp Ravenna  |
| CR-ENV   | Camp Ravenna Environmental  |
| CRJMTCC  | Camp Ravenna Joint Military Training Center                           |
| DD       | Decision Document   |
| DLA      | Defense Logistics Agency  |
| EQM      | Environmental Quality Management, Inc.                                |
| FWGWMPP  | Facility-Wide Ground Water Monitoring Program Plan                    |
| FWSAP    | Facility-Wide Sampling and Analysis Plan                              |
| IRP      | Installation Restoration Program                                      |
| LUC      | Land Use Control  |
| LTM      | Long Term Management  |
| MEC      | Munitions and Explosives of Concern                                   |
| MRS      | Munitions Response Site   |
| NBC      | Nuclear, Biological, Chemical   |
| NCOIC    | Noncommissioned Officer in Charge                                     |
| OIC      | Officer in Charge   |
| Ohio EPA | Ohio Environmental Protection Agency                                  |
| OHARNG   | Ohio Army National Guard  |
| PMP      | Property Management Plan  |
| RVAAP    | Ravenna Army Ammunition Plant   |
| SOP      | Standard Operating Procedure  |
| UXO      | Unexploded Ordnance   |
| WBG      | Winklepeck Burning Grounds  |

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /  
Ravenna Army Ammunition Plant (RVAAP)  
Quarterly LUC Inspection Form – RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna Joint Military Training Center/Ravenna Army Ammunition Plant Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on Nov. 18, 19, 21, 25, and Dec. 2, 2013.

The quarterly inspections shall include the following:

- Review of Land Use Control (LUC) training and documentation as applicable to WBG.
- Evaluation of the facility perimeter fence to ensure that it is maintained in a manner that is protective and effective and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/SOP, established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark 19 Grenade Machinegun Range is prohibited with the following exceptions:
  - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
  - Ground surface repairs by authorized range personnel in support of authorized range activities;
  - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
  1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific IRP or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
  2. The abandonment and replacement of monitoring wells damaged by activities conducted on the Installation and wells no longer utilized as part of Installation Restoration Program (IRP) or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

Please note that if LUC deficiencies or inconsistent land uses are identified, they must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army. Suggestions on how to remedy the deficiencies must also be provided.

**Review of LUCs – Management/Effectiveness/Corrective Action**

**1. AOC Map**

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on November 18, 2013 by Don Trocchio, PS, and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

**2. Installation Perimeter Fence**

Is the installation perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff with support from two fence repair contracts that kicked off in October 2013. The OHARNG received funding for fence repairs in October 2013 for several large sections of fence that required repair. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets. Fence locations, SW5, SW7 – SW9, SW10 and SW11, were contracted for repair by the OHARNG in October 2013 with fence repairs being completed in November 2013. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 will be replaced. The contract kicked off in October 2013 and is currently underway. These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

**3. Activities and Land Use**

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (MSG Rex Hufenbach) on December 20, 2013 at the OHARNG Headquarters Building no residential land use has occurred. Additionally, there has been no change in land use at the AOC.

b.) What activities have occurred at WBG since the last inspection?

Winklepeck Burning Grounds/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on December 20, 2013, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200 meter intervals and found to be upright and intact and in conformance with Army regulations.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with

Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

- f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. Mr. Scott Spesshardt of EQM stated during an interview on December 2, 2013 that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. There were no groundwater activities conducted this quarter. The next scheduled FWGWMPP sampling event is scheduled for January 2014.

#### **4. Inspections and Reporting**

- a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

This is the first Quarterly Inspection to be conducted for FY 2014. All Quarterly inspections for FY 2014 were conducted in accordance with the approved PMP dated August 2012.

- b.) An annual report is required. Has the annual report been completed and submitted?

The annual report for FY 2014 will be prepared and submitted once all FY 2014 Quarterly Inspections and Reports are completed and approved. The annual report for FY 2013 will be forthcoming once Ohio EPA approval of the Final 4<sup>th</sup> Quarter FY 2013 LUC Report is received.

#### **5. Training (as applicable to WBG)**

- a.) Was LUC training (specific to Winklepeck) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for Winklepeck. Using units also receive an in brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in brief form. All documentation of training conducting during the 1<sup>st</sup> Quarter of FY 2014 is provided in Attachment 2.

- b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

#### **6. Description of any observed/noted Land Use Control (LUC) violation(s):**

The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

#### **7. Date of Notification of LUC violation (if applicable):**

The Army was notified via e-mail on November 19, 20, 21 & 25, 2013 of new fence defects discovered during the 1<sup>st</sup> Quarter FY 2014 facility perimeter fence evaluation.

#### **8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:**

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired since the last inspection. Additionally, a repair log is


provided in Attachment 3 which documents repairs completed by the OHARNG maintenance staff in December 2013.

The OHARNG received funding for fence repairs in October 2013 for several large sections of fence that required repair. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets. Fence locations, SW5, SW7 – SW9, SW10 and SW11, were contracted for repair by the OHARNG in October 2013 with fence repairs being completed in November 2013. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 will be replaced. The contract kicked off in October 2013 and is currently underway.

**9. Additional Notes/Comments:**

**Original Inspection Completed by:**

Signature:



Printed Name: Don Trocchio

Title: Registered Surveyor / Inspector

Organization: Vista Sciences Corporation

Date: December 20, 2013

**Camp Ravenna Joint Military Training Center  
Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 1**

**Figure 1 Index Map  
And  
Detailed Quadrant Maps**

## **Index Map**

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 1st Qtr. FY 2014

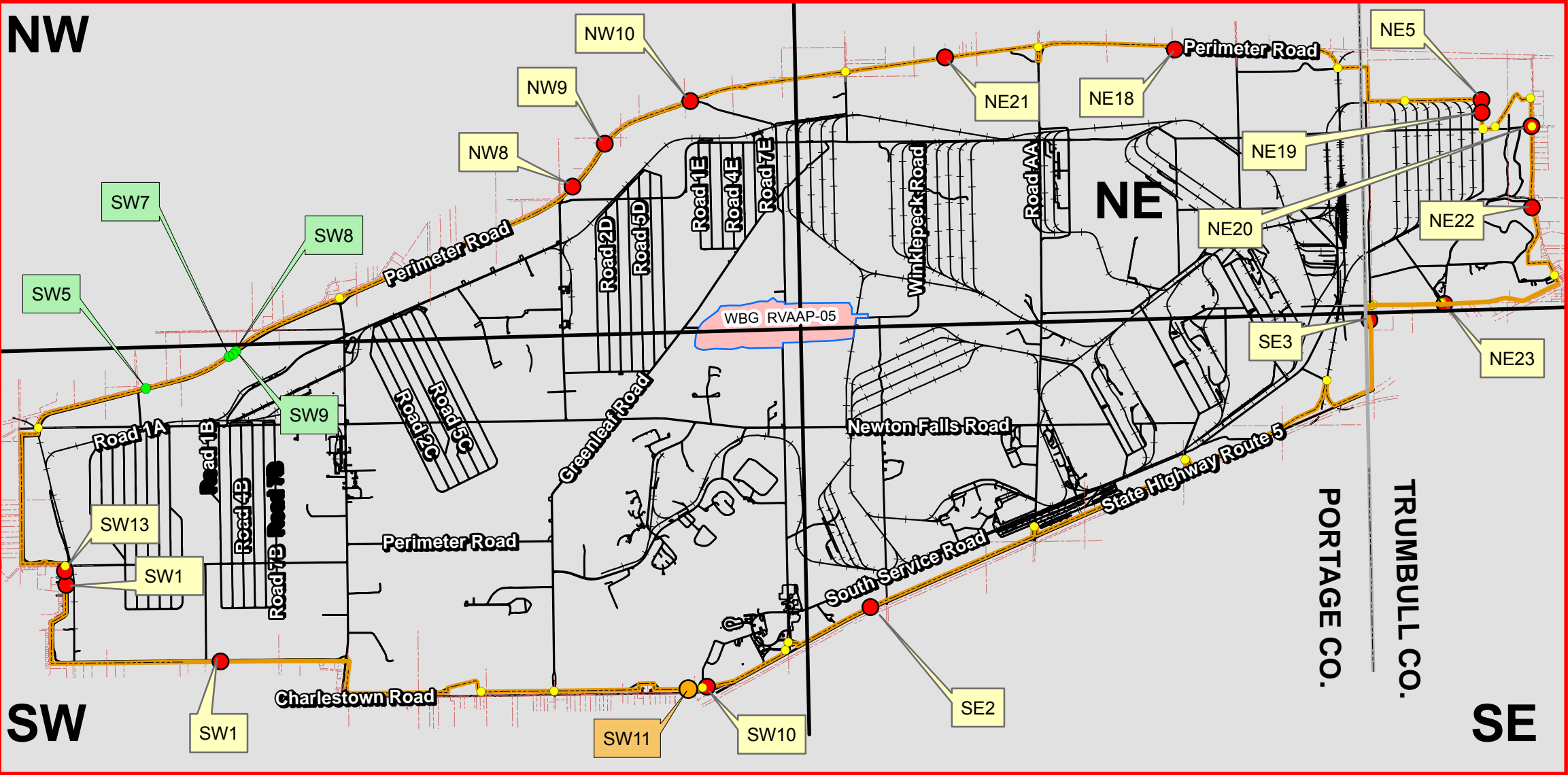


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
- Repaired (4 locations)
- Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

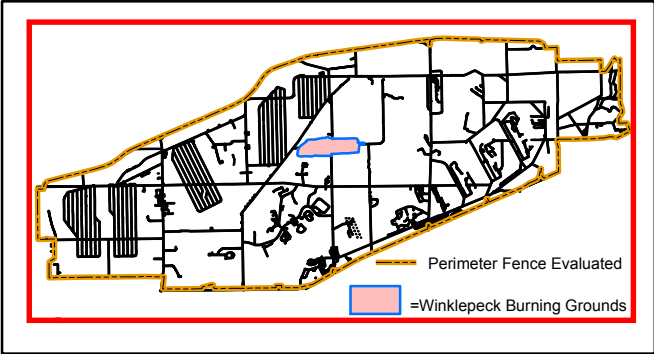
Detail Sheet  
Repair Callout

Detail Sheet  
Repair in Progress  
Callout

| Detail Sheet |            | Camp Ravenna Joint Military Training Center 1st Qtr. FY 2014 LUC Inspection |  |  | US Survey Feet |         | Path to Repair Photo Location         |
|--------------|------------|---|--|--|----------------|---------|---------------------------------------|
| Callout      | Date       | Path to Photo Location  |  |  | Northings      | Easting |                                       |
| NE5          | 2/13/2013  | c:\My Documents\My ArcPad\P1010095.JPG                                      |  |  | 571090         | 2384743 |                                       |
| NE18         | 7/17/2013  | c:\My Documents\My ArcPad\P1010219.JPG                                      |  |  | 573035         | 2372897 |                                       |
| NE19         | 7/17/2013  | c:\My Documents\My ArcPad\P1010220.JPG                                      |  |  | 570600         | 2384750 |                                       |
| NE20         | 7/18/2013  | c:\My Documents\My ArcPad\P1010221.JPG                                      |  |  | 570080         | 2386673 |                                       |
| NE21         | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG                                      |  |  | 572732         | 2364028 |                                       |
| NE22         | 11/25/2013 | c:\My Documents\My ArcPad\P1010268.JPG                                      |  |  | 566933         | 2386688 |                                       |
| NE23         | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG                                      |  |  | 563209         | 2383312 |                                       |
| NW10         | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG                                      |  |  | 571046         | 2354186 |                                       |
| NW8          | 7/16/2013  | c:\My Documents\My ArcPad\P1010210.JPG                                      |  |  | 567746         | 2349644 |                                       |
| NW9          | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG                                      |  |  | 568396         | 2350885 |                                       |
| SE2          | 2/13/2013  | c:\My Documents\My ArcPad\P1010228.JPG                                      |  |  | 551498         | 2361141 |                                       |
| SE3          | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG                                      |  |  | 562592         | 2380413 |                                       |
| SW1          | 2/7/2013   | c:\My Documents\My ArcPad\P1010061.JPG                                      |  |  | 549403         | 2336048 |                                       |
| SW10         | 7/15/2013  | c:\My Documents\My ArcPad\P1010203.JPG                                      |  |  | 548427         | 2354836 |                                       |
| SW11         | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG                                      |  |  | 548333         | 2354108 | c:\My Documents\My ArcPad\P101024.JPG |
| SW12         | 11/18/2013 | c:\My Documents\My ArcPad\P1010249.JPG                                      |  |  | 552357         | 2330086 |                                       |
| SW13         | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG                                      |  |  | 552891         | 2330038 |                                       |
| SW5          | 2/12/2013  | c:\My Documents\My ArcPad\P1010074.JPG                                      |  |  | 559954         | 2333158 | c:\My Documents\My ArcPad\P101256.JPG |
| SW7          | 2/12/2013  | c:\My Documents\My ArcPad\P1010076.JPG                                      |  |  | 561189         | 2336373 | c:\My Documents\My ArcPad\P101257.JPG |
| SW8          | 2/12/2013  | c:\My Documents\My ArcPad\P1010077.JPG                                      |  |  | 561285         | 2336529 | c:\My Documents\My ArcPad\P101258.JPG |
| SW9          | 2/12/2013  | c:\My Documents\My ArcPad\P1010078.JPG                                      |  |  | 561395         | 2336638 | c:\My Documents\My ArcPad\P101259.JPG |

Gray shaded callouts repaired 1st qtr

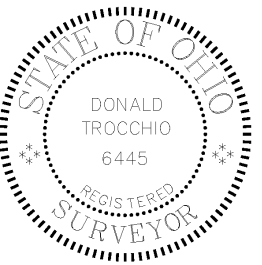
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



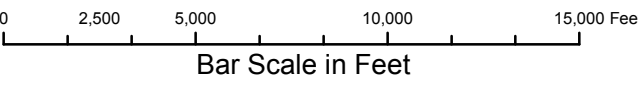
US Army Corps of  
Engineers

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

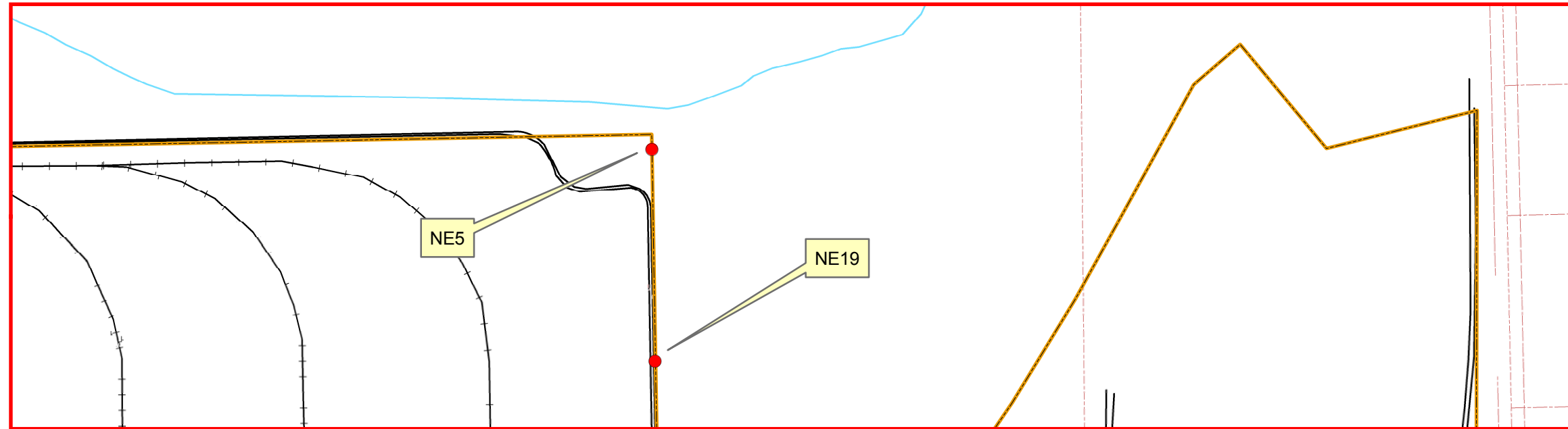


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil



## **NE (Northeast) Quadrant**

## DETAIL SHEET FOR NE5



# LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

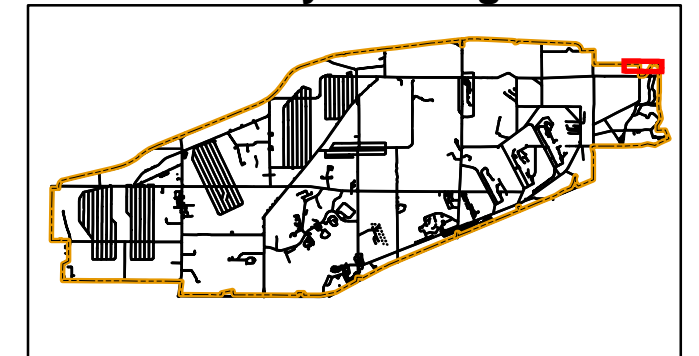
PHOTO NE5 discovered 02/13/2013

### Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated



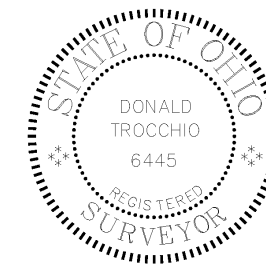
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



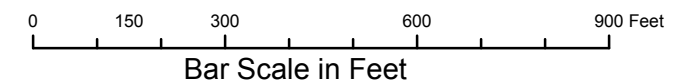
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

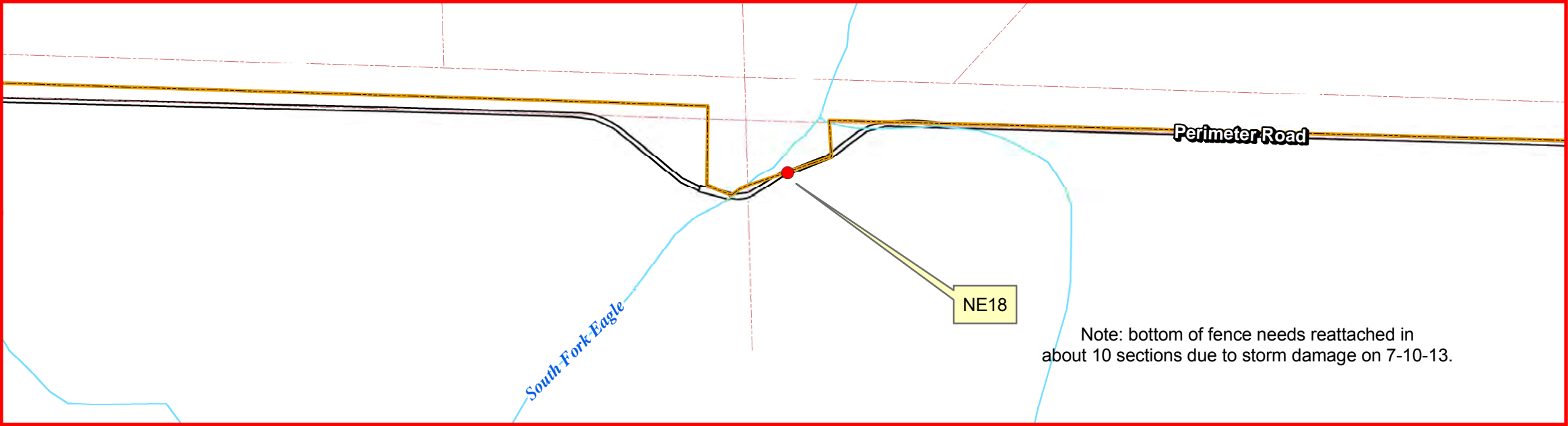


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DETAIL SHEET FOR NE5



DETAIL SHEET FOR NE18

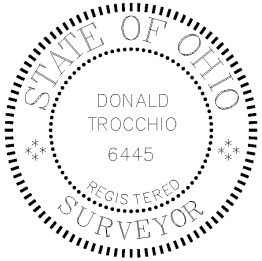
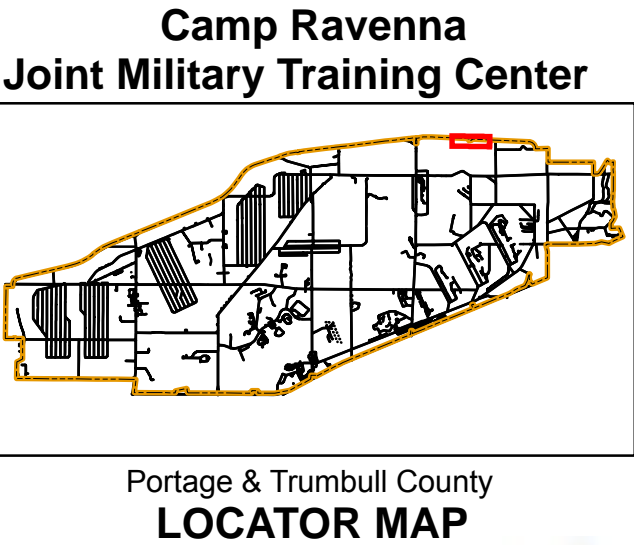


LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE18 discovered 07/17/2013

Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated



Produced in December 2013 for:

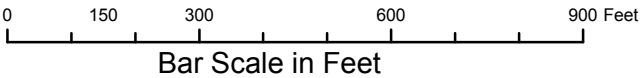


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Louisville District



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Plane Rectangular Grid, North Zone

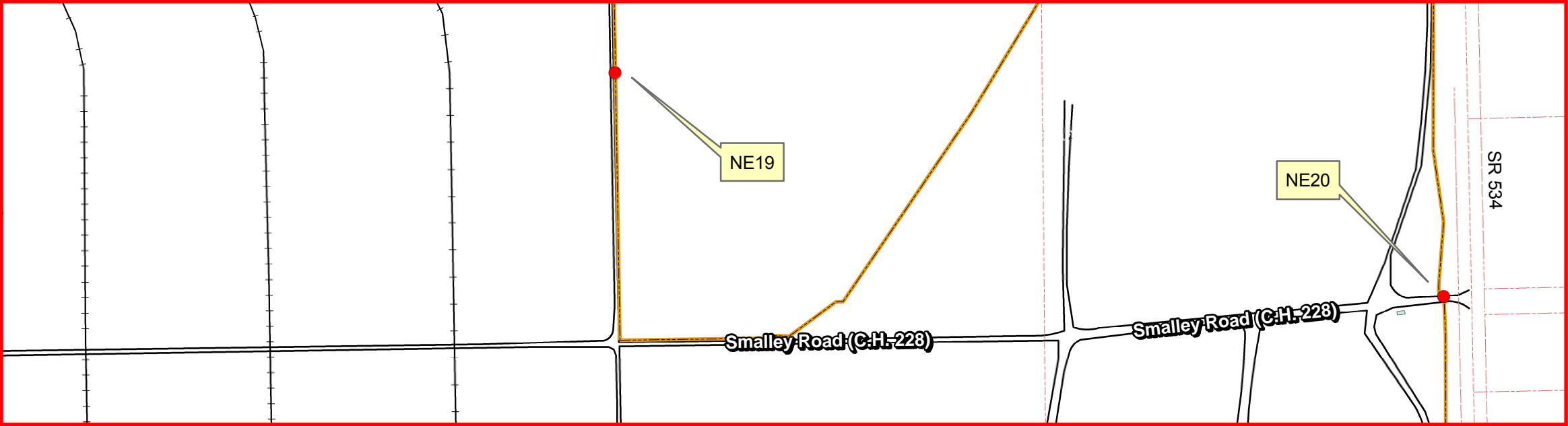


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DETAIL SHEET FOR NE18



DETAIL SHEET FOR NE19



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE19 discovered 07/17/2013

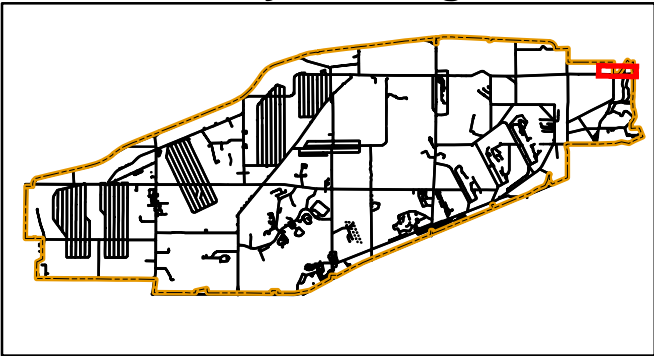
Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR  
CALLOUT



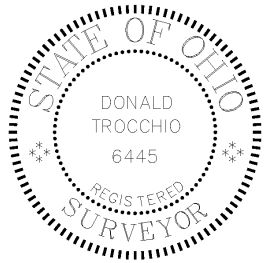
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



**US Army Corps of  
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Louisville District



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0 150 300 600 900 Feet  
Bar Scale in Feet

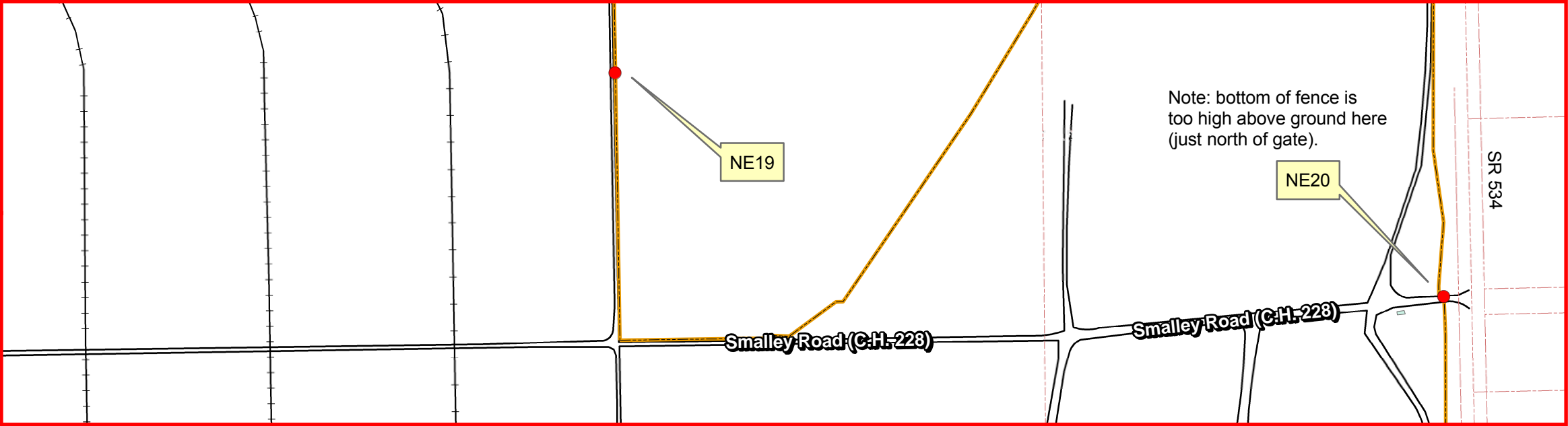


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DETAIL SHEET FOR NE19



DETAIL SHEET FOR NE20



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE20 discovered 07/18/2013

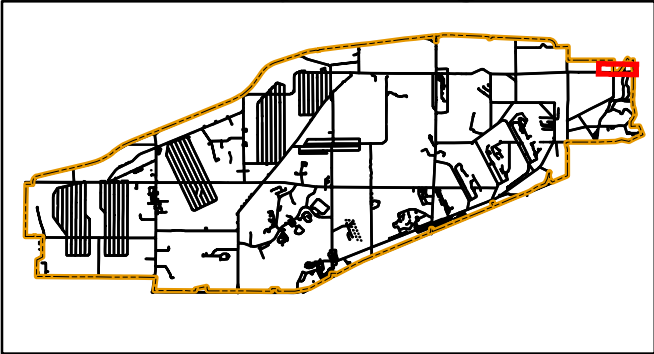
Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR  
CALLOUT



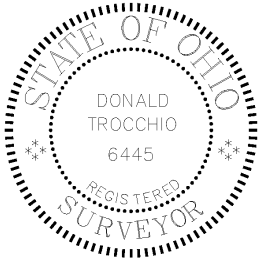
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 150 300 600 900 Feet  
Bar Scale in Feet

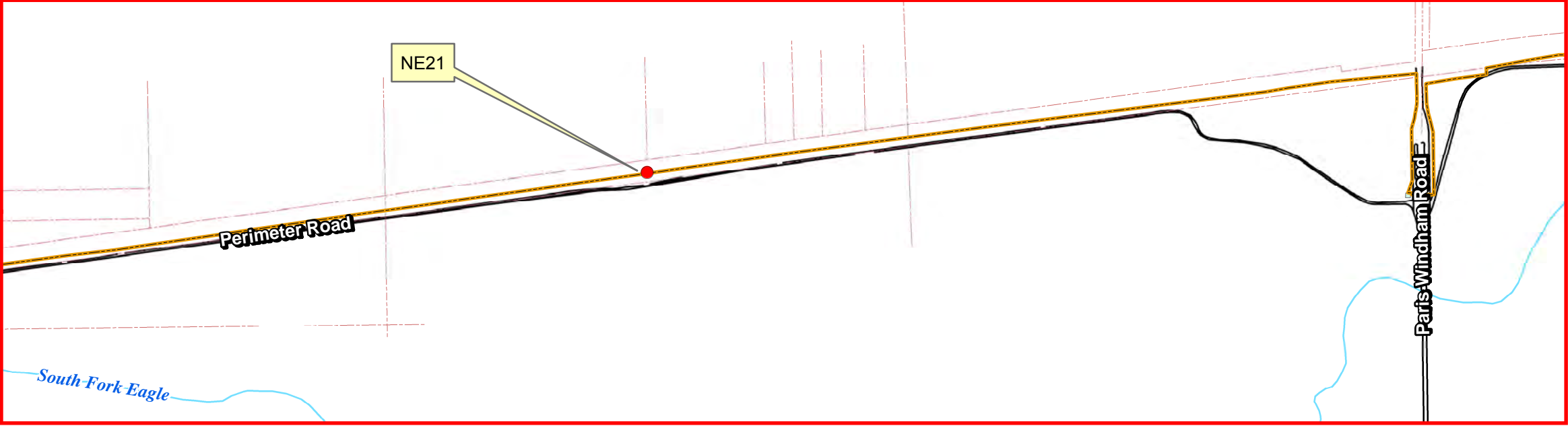


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NE20



DETAIL SHEET FOR NE21



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

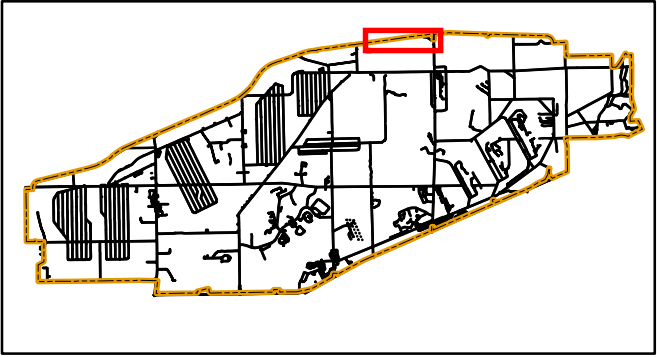
PHOTO NE21 discovered 11/21/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



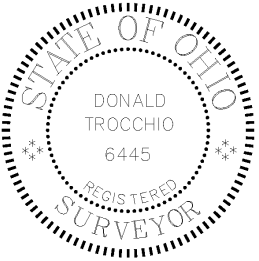
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



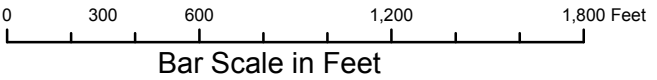
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NE21



DETAIL SHEET FOR NE22



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE22 discovered 11/25/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



**Camp Ravenna  
Joint Military Training Center**

Portage & Trumbull County  
**LOCATOR MAP**

Ohio Army National Guard

STATE OF OHIO  
DONALD TROCCHIO  
6445  
REGISTERED  
SURVEYOR

Ohio

Produced in December 2013 for:

**US Army Corps of Engineers**  
600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

**Louisville District**

Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone

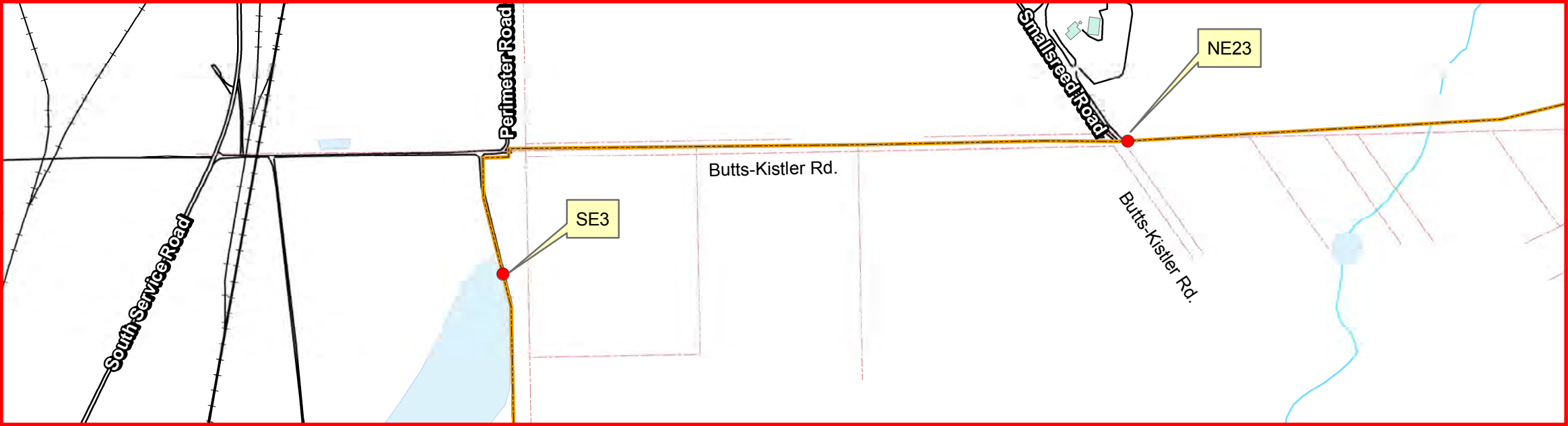
0 300 600 1,200 1,800 Feet  
Bar Scale in Feet

**VISTA  
SCIENCES  
CORPORATION**

8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil



DETAIL SHEET FOR NE23



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

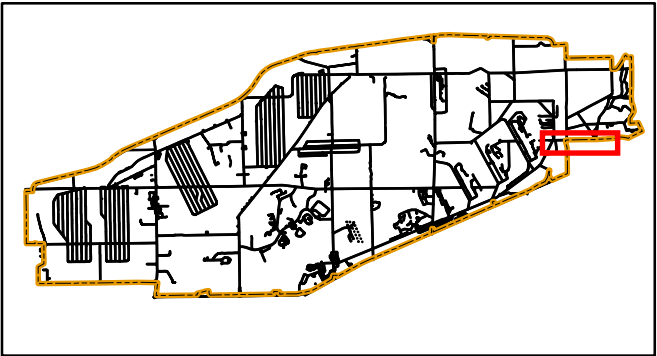
PHOTO NE23 discovered 11/25/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



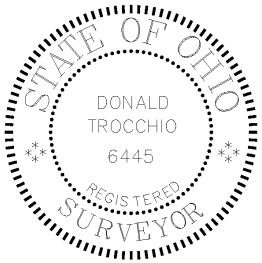
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



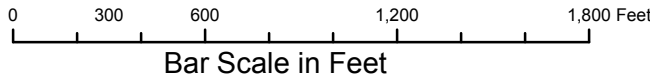
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



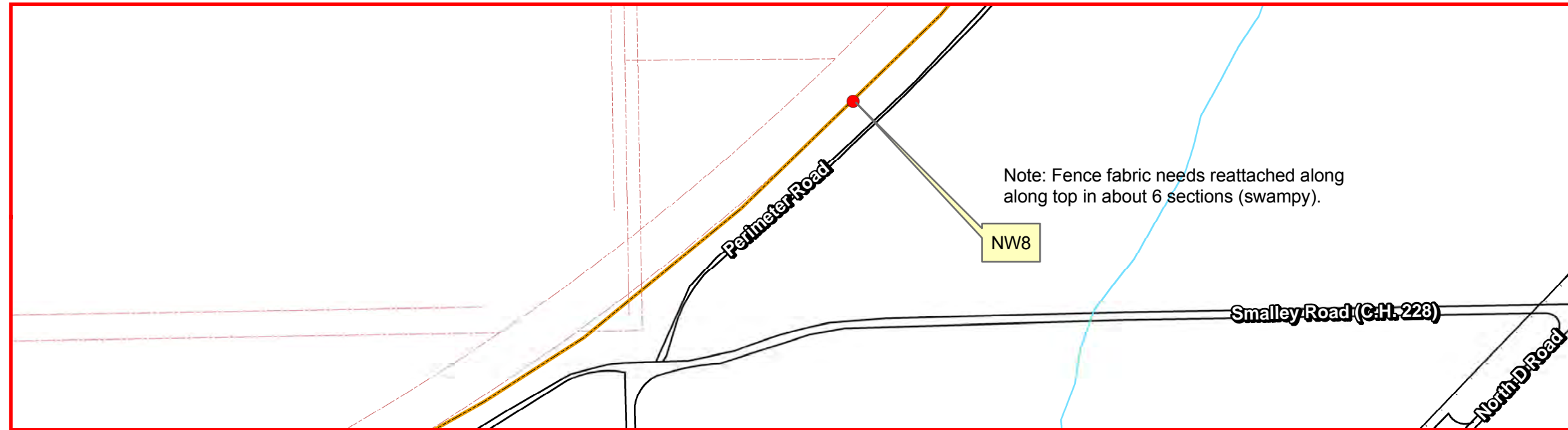
8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NE23



## **NW (Northwest) Quadrant**

## DETAIL SHEET FOR NW8



## LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

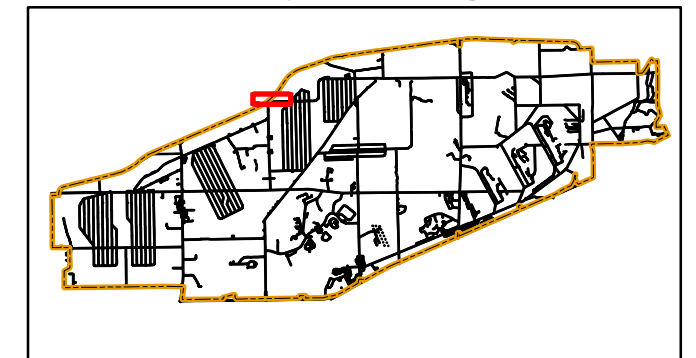
PHOTO NW8 discovered 07/16/2013

### Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



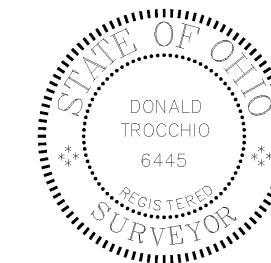
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



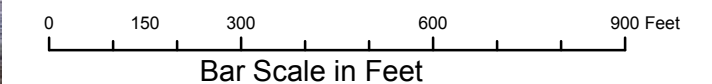
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

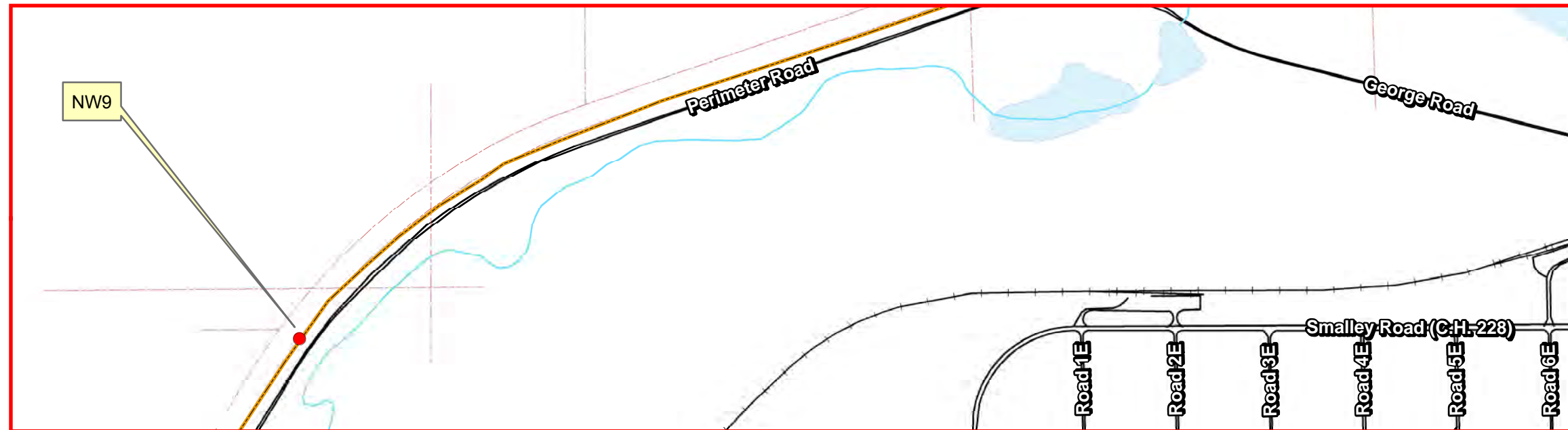


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NW8



## DETAIL SHEET FOR NW9



# LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

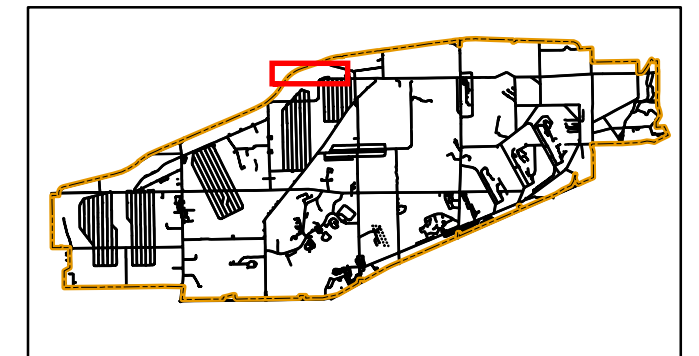
PHOTO NW9 discovered 11/19/2013

## Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



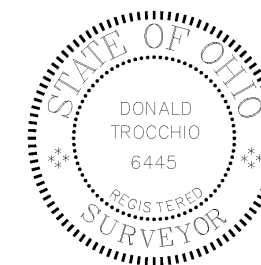
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



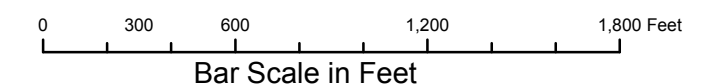
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NW9



DETAIL SHEET FOR NW10



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

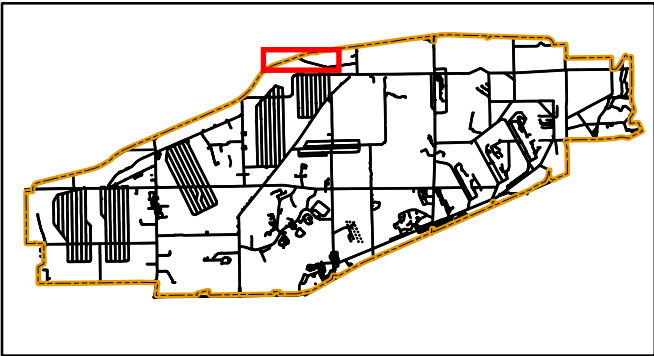
PHOTO NW10 discovered 11/21/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



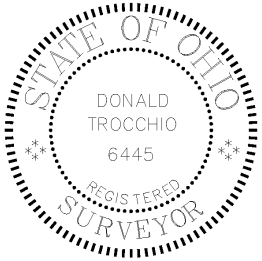
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Ohio

Produced in December 2013 for:



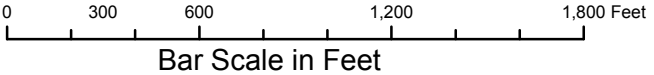
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



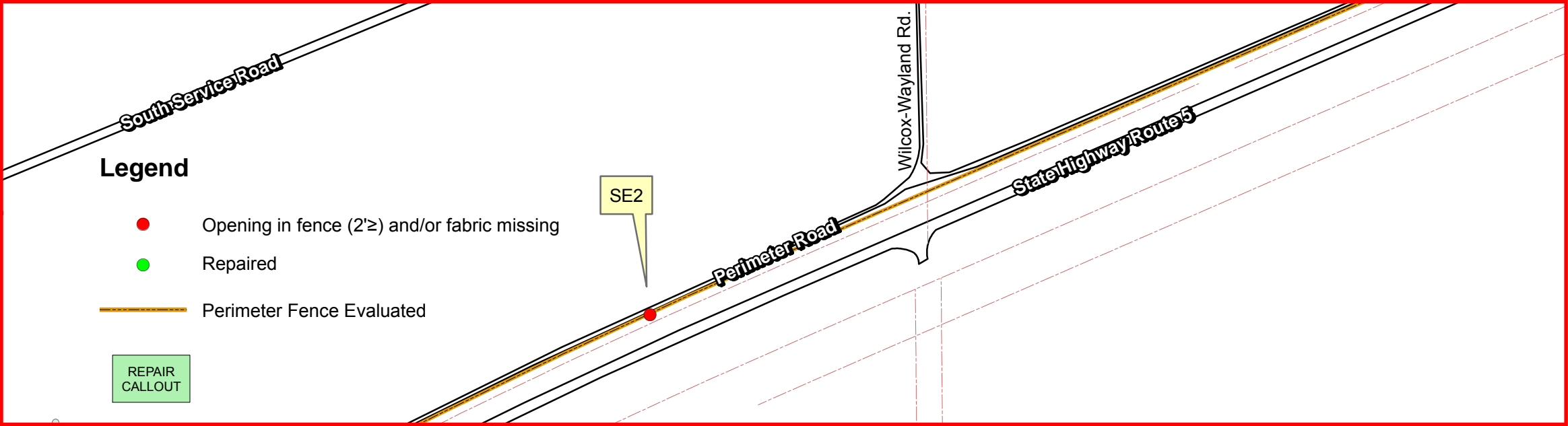
8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR NW10

## **SE (Southeast) Quadrant**



DETAIL SHEET FOR SE2



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

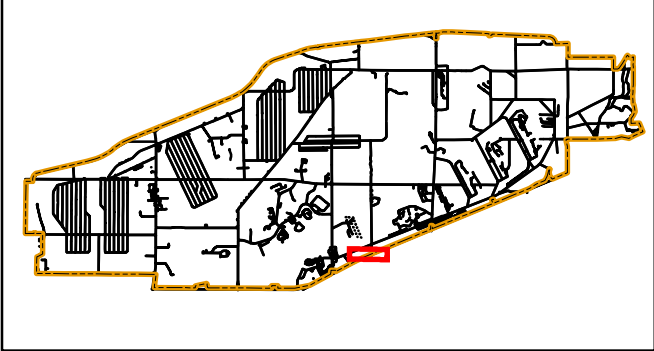
PHOTO SE2 on 2 Dec 2013



PHOTO SE2 discovered 07/18/2013



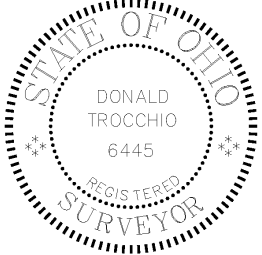
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



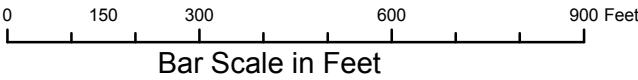
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

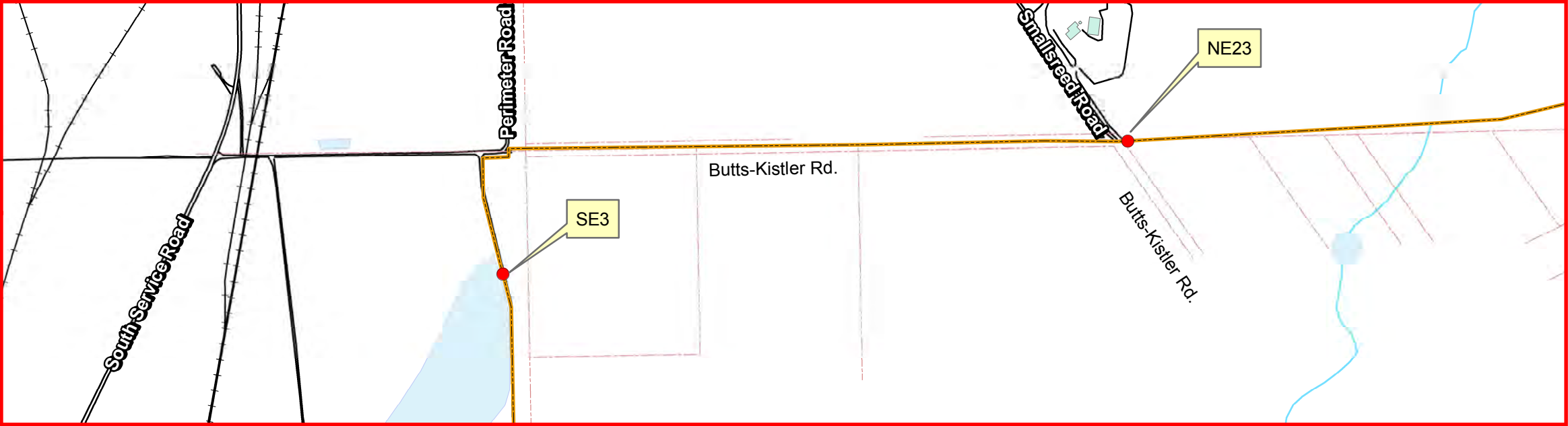


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SE2



DETAIL SHEET FOR SE3



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

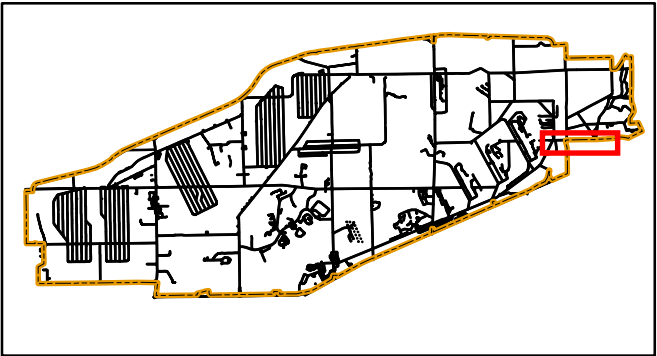
PHOTO SE3 discovered 11/25/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



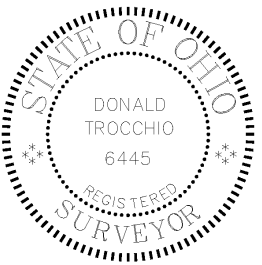
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



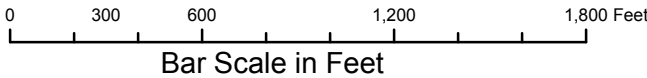
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



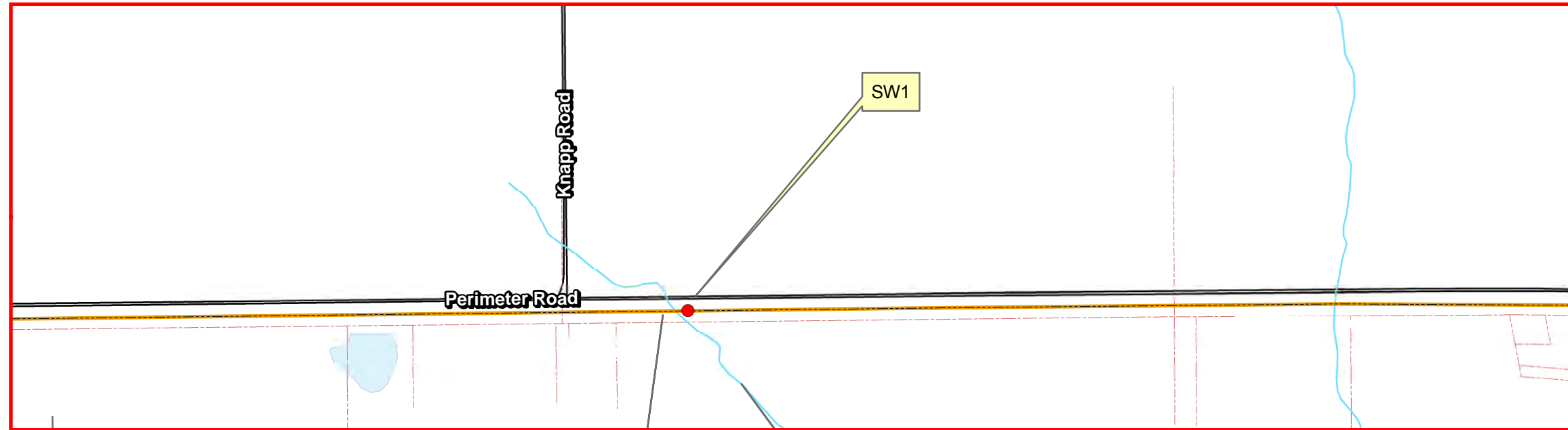
8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SE3

## **SW (Southwest) Quadrant**



## DETAIL SHEET FOR SW1



# LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

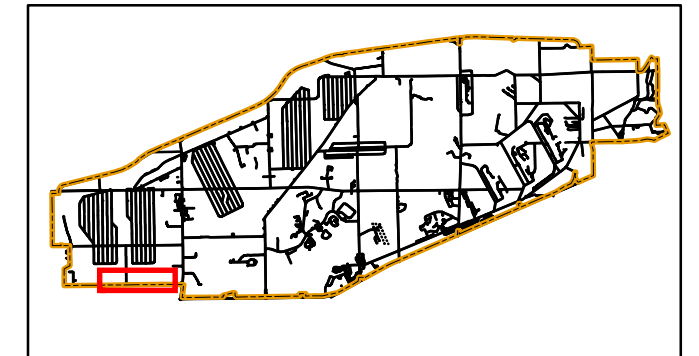
PHOTO SW1 discovered 02/07/2013

### Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



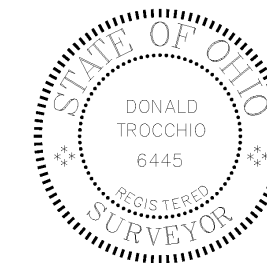
## Camp Ravenna Joint Military Training Center



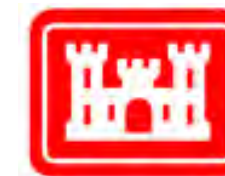
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet

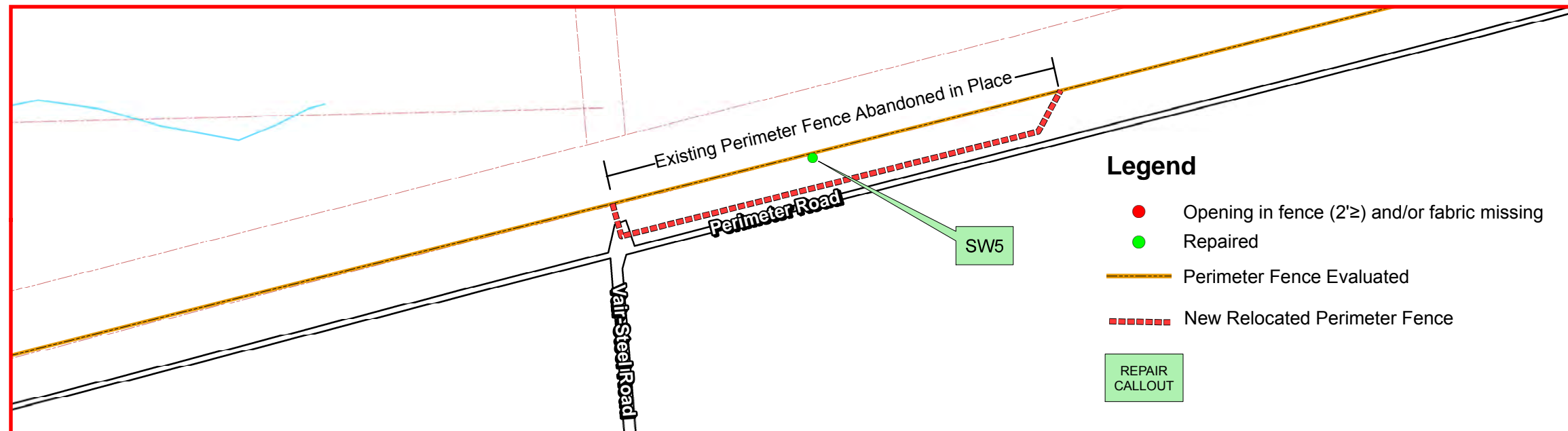


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW1



## DETAIL SHEET FOR SW5



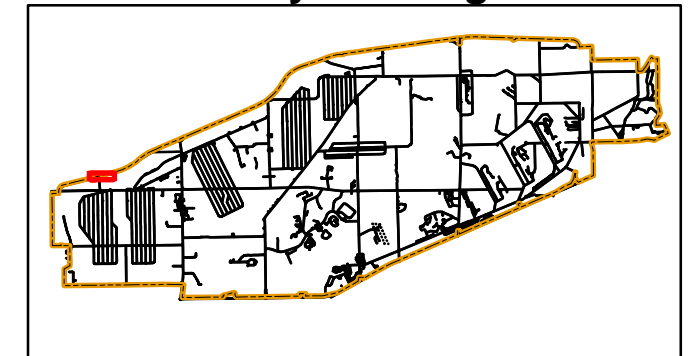
## LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

REPAIR PHOTO SW5 DEPICTING NEW RELOCATED FENCE  
photo dated 11/19/2013

PHOTO SW5 discovered 02/12/2013



## Camp Ravenna Joint Military Training Center



## Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



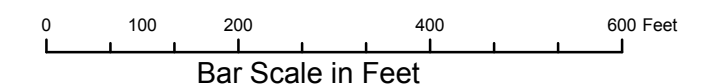
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

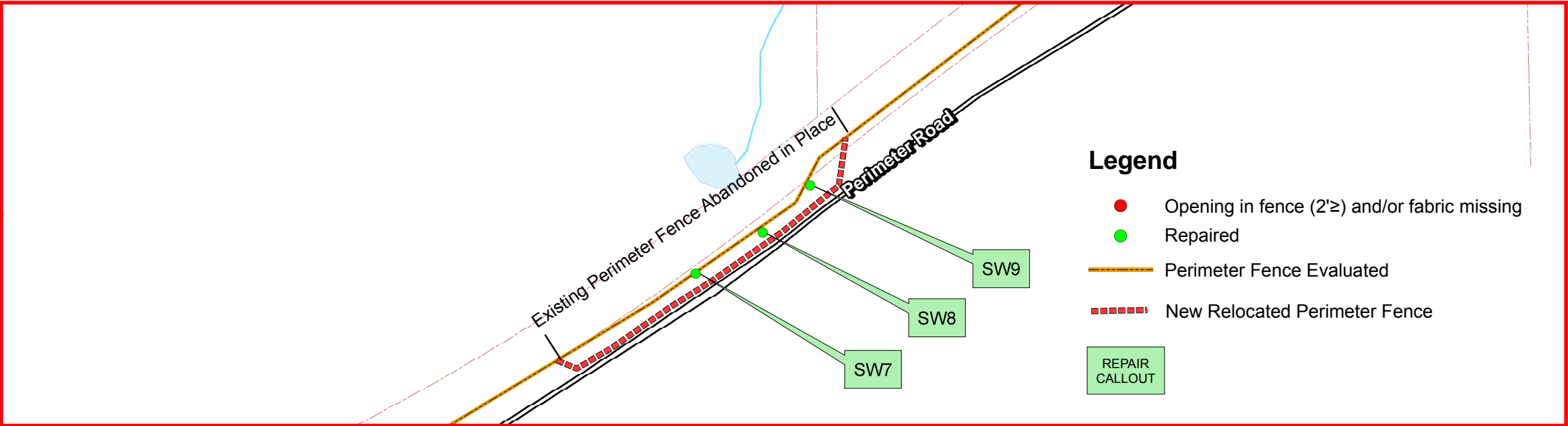


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW5



DETAIL SHEET FOR SW7, SW8 and SW9



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

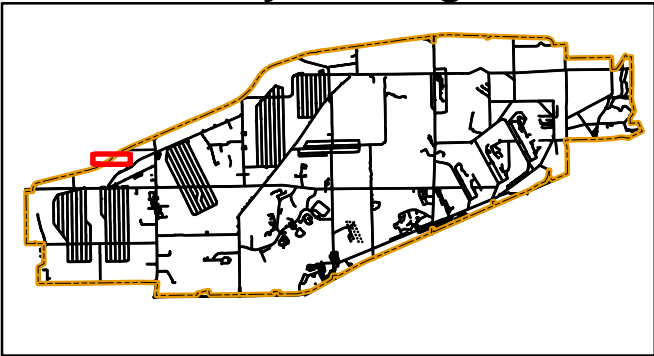
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE  
photo taken 11/19/2013



PHOTO SW7 discovered 02/12/2013



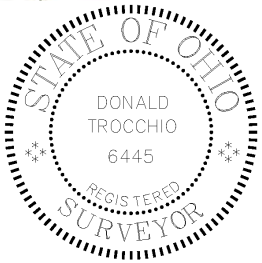
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 150 300 600 900 Feet  
Bar Scale in Feet

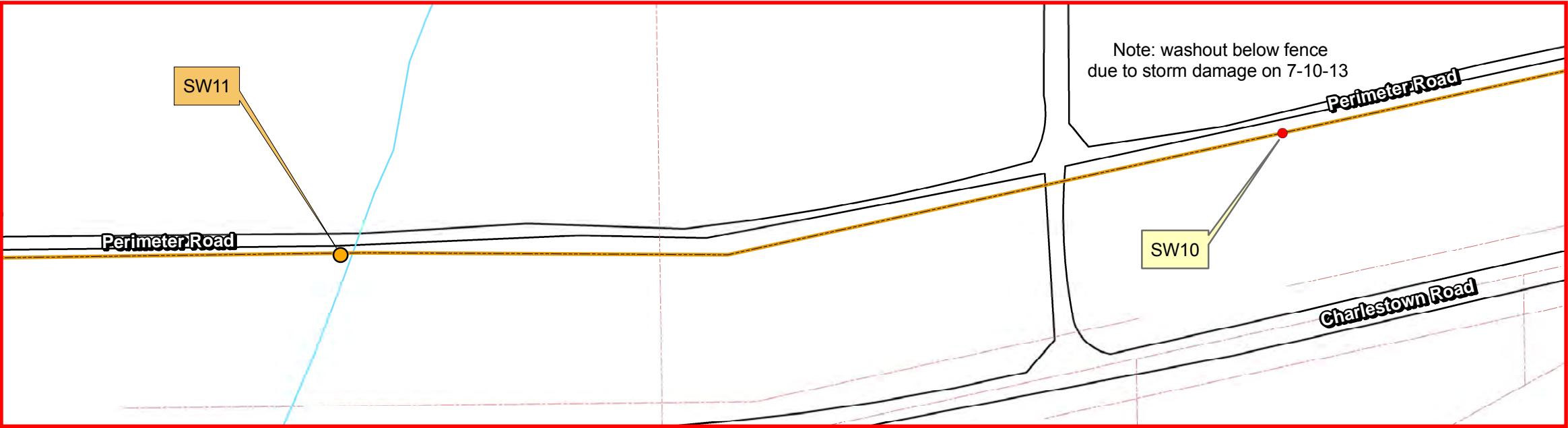


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW7, SW8, SW9



DETAIL SHEET FOR SW10



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SW10 discovered 07/15/2013

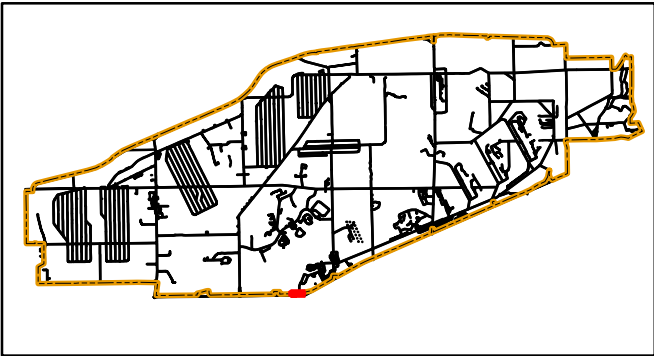


Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Repair in progress (1 location)
- Perimeter Fence Evaluated

REPAIR  
CALLOUT

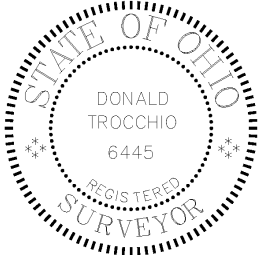
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



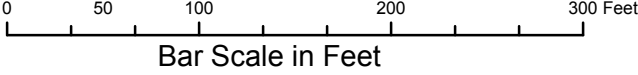
US Army Corps of  
Engineers

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

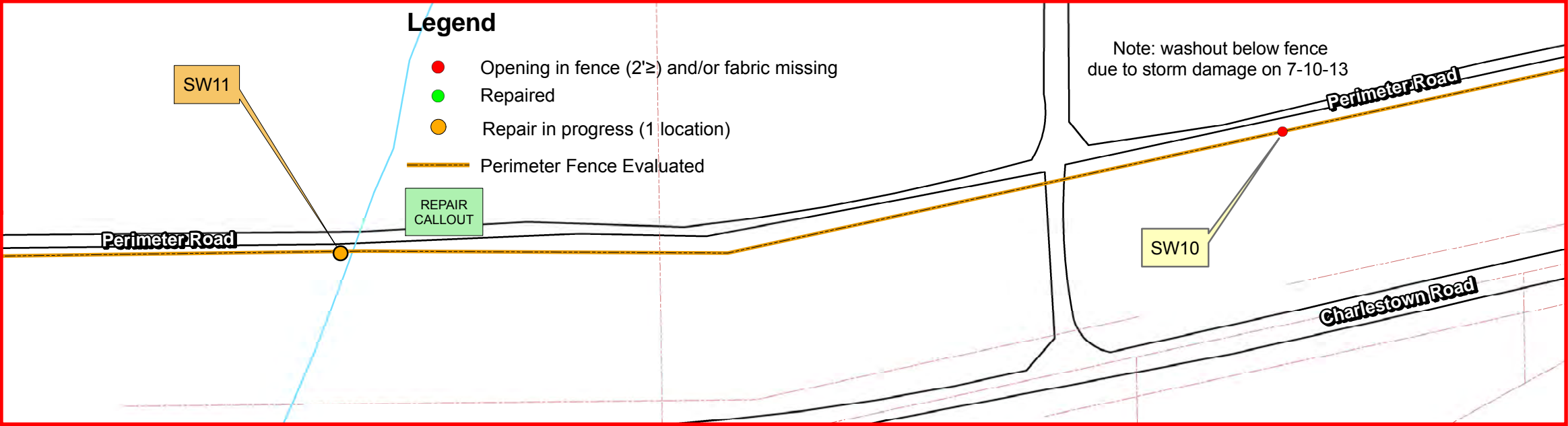


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW10



# DETAIL SHEET FOR SW11



## LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

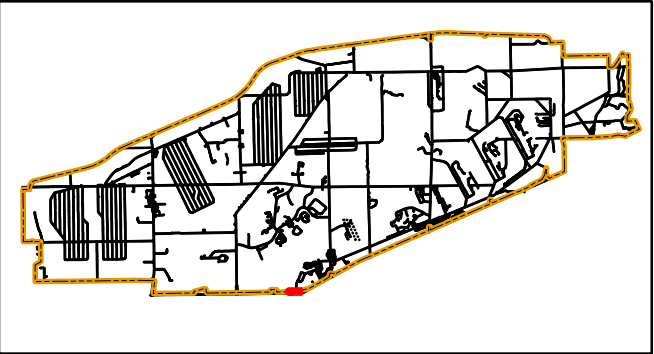
PHOTO SW11 DEPICTING REPAIRS IN PROGRESS  
photo taken 11/18/2013



PHOTO SW11 discovered 07/15/2013



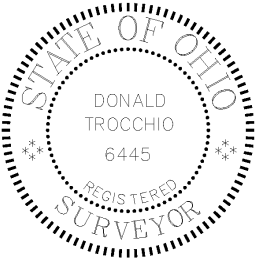
### Camp Ravenna Joint Military Training Center



#### Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 50 100 200 300 Feet  
Bar Scale in Feet

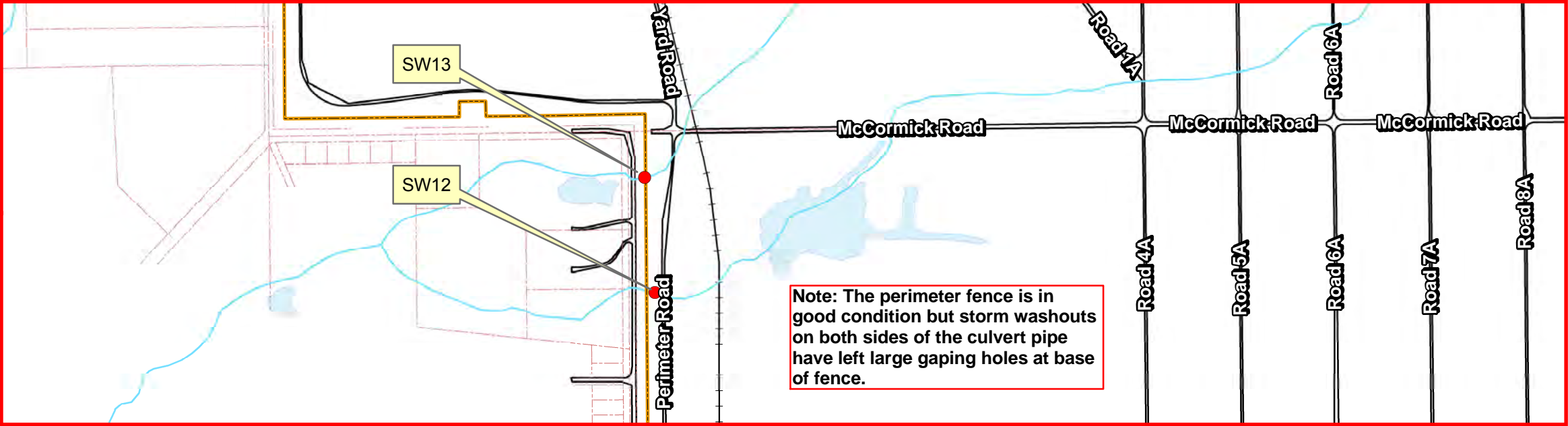


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW11



DETAIL SHEET FOR SW12



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

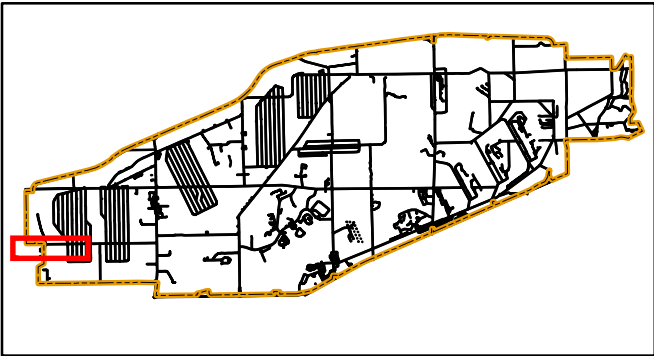
PHOTO SW12 discovered 11/18/2013

Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



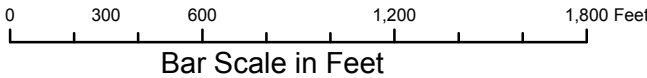
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

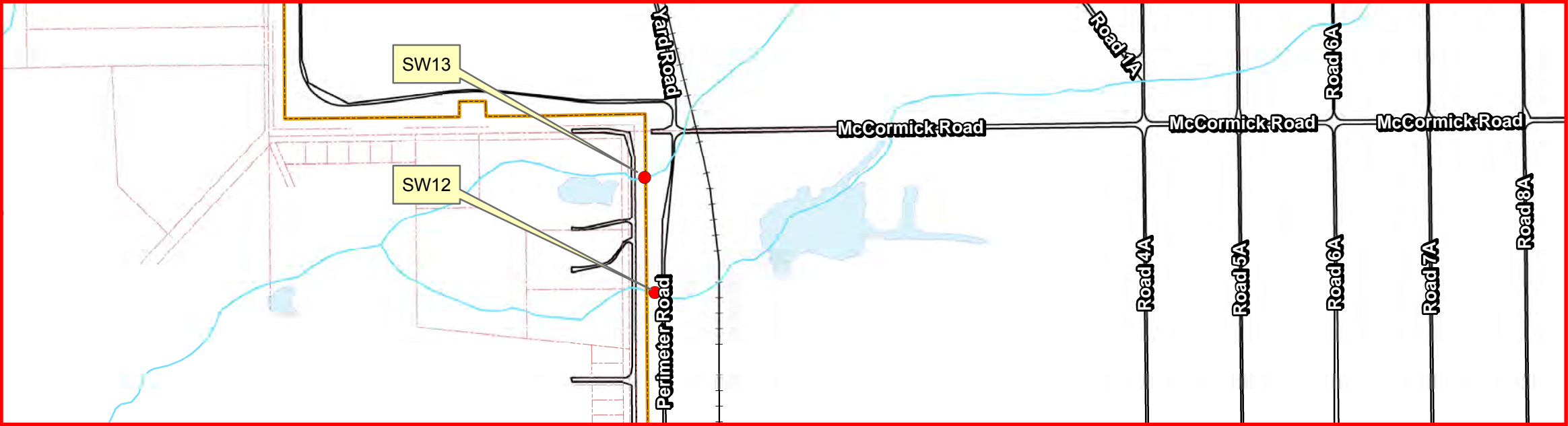


8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW12



DETAIL SHEET FOR SW13



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014  
PERIMETER FENCE INSPECTION

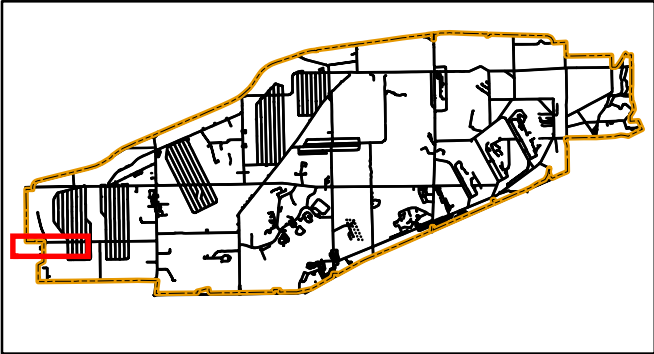
PHOTO SW13 discovered 11/18/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2013 for:



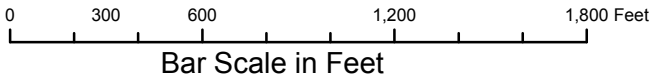
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



8451 State Route 5 Bldg:1037  
Ravenna, Oh 44266  
Don Trocchio, PS  
don.trocchio@us.army.mil

DETAIL SHEET FOR SW13

**Camp Ravenna Joint Military Training Center  
Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 2**

**Description of Land Use Control  
OHARNG Activities**

**Training and/or Contractor Briefs  
Quarter Time Period**

**November 2013 – January 2014**



**No Training or Contractors Briefs  
Were Conducted During This Quarter**

**Camp Ravenna Joint Military Training Center  
Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 3**

**Camp Ravenna Fence Repair Log – 2013**

| Camp Ravenna Fence Repair Log – December 2013   |                       |  |                |                |
|---|-----------------------|--|----------------|----------------|
| Location of Fence Section Repaired  | Description of Repair | Initials of Person Performing the Repair | Date of Repair | Notes          |
| NE5   | Patched hole          | CRJMTC State Maintenance Staff           | December 2013  |                |
| NE18, NE19, NE20  | Patched hole          | CRJMTC State Maintenance Staff           | December 2013  |                |
| SW5   | Patched hole          | CRJMTC State Maintenance Staff           | December 2013  |                |
| SW2   |                       |  |                | Could not find |
| SW9   | Patched hole          | CRJMTC State Maintenance Staff           | December 2013  |                |
| *Please note that repairs along the northern fence line (fabric replacement of approximately 5.5 miles) from Group 7 to Slagle Road are still underway. Some vegetation clearance has been completed and fence fabric was recently delivered to the project site during the week of 12 December and fabric replacement will begin in December (pending weather conditions). |                       |  |                |                |
|   |                       |  |                |                |
|   |                       |  |                |                |

| <b>Camp Ravenna Fence Repair Log - 2013</b>   |   |   |                       |              |
|---|---|---|-----------------------|--------------|
| <b>Location of Fence Section Repaired</b>   | <b>Description of Repair</b>  | <b>Initials of Person Performing the Repair</b> | <b>Date of Repair</b> | <b>Notes</b> |
| SW7, SW8, SW9   | Boxed out required repair areas using new fence/posts/barb wire (total replacement) | RT Fence (contracted)                           | November 2013         |              |
| SW5   | Boxed out required repair areas using new fence/posts/barb wire (total replacement) | RT Fence (contracted)                           | November 2013         |              |
| SW10 and SW11   | Replaced fabric and fixed wash out under fence                                      | RT Fence (contracted)                           | November 2013         |              |
|   |   |   |                       |              |
| *Please note that repairs along the northern fence line (fabric replacement of approximately 5.5 miles) from group 7 to Slagle Road are still Underway. Some vegetation clearance has been completed and fence fabric was recently delivered to the project site during the week of 12 December and fabric replacement will begin in December (pending weather conditions). |   |   |                       |              |
|   |   |   |                       |              |

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## **Appendix D**

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### **Final FY 2014 Second Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds**

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**Final**  
**FY 2014 Second Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Former Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers**  
**Louisville District**

***Prepared by:***



**July 22, 2014**

**Final**  
**FY 2014 Second Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Former Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



U.S. Army Corps of Engineers  
Louisville District

***Prepared by:***



**July 22, 2014**

## **LIST OF ACRONYMS AND ABBREVIATIONS**

|              |  |
|--------------|--|
| AOC          | Area of Concern                                    |
| bgs          | Below Ground Surface                               |
| Camp Ravenna | Camp Ravenna Joint Military Training Center        |
| EQM          | Environmental Quality Management, Inc.             |
| FWGWMPP      | Facility-Wide Ground Water Monitoring Program Plan |
| FWSAP        | Facility-Wide Sampling and Analysis Plan           |
| IRP          | Installation Restoration Program                   |
| LUC          | Land Use Control                                   |
| MEC          | Munitions and Explosives of Concern                |
| MRS          | Munitions Response Site                            |
| Ohio EPA     | Ohio Environmental Protection Agency               |
| OHARNG       | Ohio Army National Guard                           |
| PMP          | Property Management Plan                           |
| RVAAP        | Former Ravenna Army Ammunition Plant               |
| SOP          | Standard Operating Procedure                       |
| UXO          | Unexploded Ordnance                                |
| WBG          | Winklepeck Burning Grounds                         |



**Camp Ravenna Joint Military Training Center (Camp Ravenna) /  
Former Ravenna Army Ammunition Plant (RVAAP)  
Quarterly Land Use Control (LUC) Inspection Form  
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna Joint Military Training Center/Ravenna Army Ammunition Plant Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on Feb. 24, 25, 26, 27, Mar. 3, 5, & 6, 2014.

The quarterly inspections shall include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the facility perimeter fence to ensure that it is maintained in a manner that is protective and effective and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark 19 Grenade Machinegun Range is prohibited with the following exceptions:
  - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
  - Ground surface repairs by authorized range personnel in support of authorized range activities;
  - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
  1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
  2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

Please note that if LUC deficiencies or inconsistent land uses are identified, they must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army. Suggestions on how to remedy the deficiencies must also be provided.

## **Review of LUCs – Management/Effectiveness/Corrective Action**

### **1. AOC Map**

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on February 24, 2014 by Don Trocchio, PS, and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

### **2. Installation Perimeter Fence**

Is the installation perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. Two fence repair contracts that began in October 2013 have repaired several large sections of the perimeter fence. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 is currently being replaced. Also in February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail sheet No.2. These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

### **3. Activities and Land Use**

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (MSG Rex Hufenbach) on March 5, 2014 at the OHARNG Headquarters Building no residential land use has occurred. Additionally, there has been no change in land use at the AOC.

b.) What activities have occurred at WBG since the last inspection?

WBG/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. All activities are in accordance with designated LUCs/restrictions. A FWGWMPP sampling event was conducted in WBG in January 2014.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on March 5, 2014, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200 meter intervals and found to be upright and intact and in conformance with Army regulations.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on March 10, 2014 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A sampling event was conducted in WBG in January 2014; The next scheduled FWGWMPP sampling event is scheduled for July 2014.

#### **4. Inspections and Reporting**

a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

This is the second Quarterly Inspection to be conducted for FY 2014. All Quarterly Inspections for FY 2013 and FY 2014 were conducted in accordance with the approved PMP dated August 2012.

b.) An annual report is required. Has the annual report been completed and submitted?

The annual report for FY 2014 will be prepared and submitted once all FY 2014 Quarterly Inspections and Reports are completed and approved. The annual report for FY 2013 will be submitted once Ohio EPA approval of the Final 4<sup>th</sup> Quarter FY 2013 LUC Report is received.

#### **5. Training (as applicable to WBG)**

a.) Was LUC training (specific to Winklepeck) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for Winklepeck. Using units also receive an in brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Annual LUC training was given to Camp Ravenna staff and tenant units on 18 Jan, 12 Feb, and 26 Feb 2014. Training materials and rosters are on file in the Camp Ravenna Environmental Office.

b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

**6. Description of any observed/noted LUC violation(s):**

The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

**7. Date of Notification of LUC violation (if applicable):**

The Army was notified via e-mail on February 28, March 4, & March 6, 2014 of new fence defects discovered during the 2<sup>nd</sup> Quarter FY 2014 facility perimeter fence evaluation.

**8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:**

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired since the last inspection. Additionally, a repair log is provided in Attachment 2 which documents repairs completed by the OHARNG maintenance staff in March 2014.

Attachment 2 also shows fence repairs that have been contracted and began in October 2013 and February 2014. Supplemental Detail Sheet No. 1 shows a large section of fence (posts and fabric) is currently being replaced on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34. In February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail sheet No.2. These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

**9. Additional Notes/Comments:**

**Original Inspection Completed by:**

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: March 10, 2014

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 1**

**Figure 1 Index Map**

**Summary Table**

**Detailed Quadrant Maps**

## **Index Map**

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 2nd Qtr. FY 2014

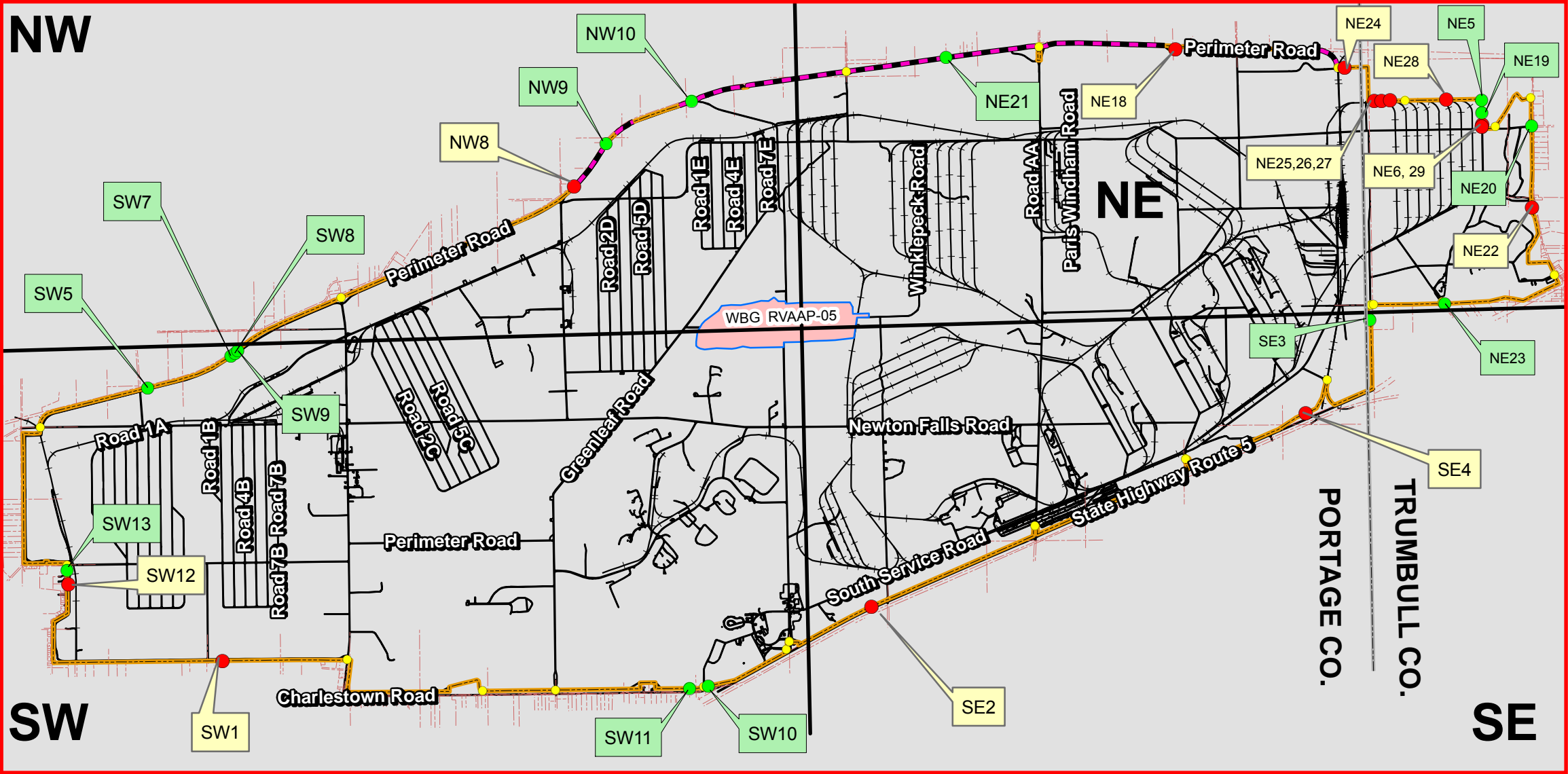


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

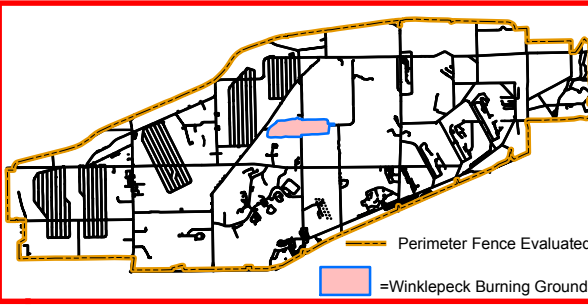
- Opening in fence (2'±) and/or fabric missing/damaged (14 locations)
- Repaired (15 locations)
- Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
- New fence fabric currently being installed and in progress (4.3mi to date). See also Supplemental Index Map No.1
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

Detail Sheet  
Repair Callout

| Camp Ravenna Joint Military Training Center 2nd Qtr FY2014 LUC Inspection Summary Table |            |  |   |  | US Survey Ft |         | Path to Repair Photo                   |         |
|---|------------|--|---|--|--------------|---------|--|---------|
| Callout   | Date       | Path to Photo Location                 | Comments  |  | Northing     | Easting |  | Callout |
| NE06  | 02/13/2013 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   |  | 570126       | 2384759 |  | NE06    |
| NE18  | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base |  | 573035       | 2372897 |  | NE18    |
| NE22  | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | vandalized section of secluded fence at base              |  | 566933       | 2386688 |  | NE22    |
| NE24  | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     |  | 572341       | 2379439 |  | NE24    |
| NE25  | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | hole in fence   |  | 571059       | 2380588 |  | NE25    |
| NE26  | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   |  | 571062       | 2380862 |  | NE26    |
| NE27  | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   |  | 571068       | 2381194 |  | NE27    |
| NE28  | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   |  | 571112       | 2383373 |  | NE28    |
| NE29  | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   |  | 570046       | 2384741 |  | NE29    |
| NW08  | 07/16/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections(swampy)                     |  | 567746       | 2349644 |  | NW08    |
| SW01  | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   |  | 549403       | 2336048 |  | SW01    |
| SW12  | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | storm washout about 2 sections inlet needs cleared        |  | 552357       | 2330086 |  | SW12    |
| SE02  | 02/13/2013 | c:\My Documents\My ArcPad\P1010353.JPG | washout...worse now 7.18.2013                             |  | 551498       | 2361141 |  | SE02    |
| SE04  | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on 2-27-14 0271 photo            |  | 558980       | 2377933 |  | SE04    |
| SW05  | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   |  | 559954       | 2333158 | c:\My Documents\My ArcPad\P1010256.JPG | SW05    |
| SW07  | 02/12/2013 | c:\My Documents\My ArcPad\P1010076.JPG | apx. 100 ft of fabric missing                             |  | 561189       | 2336373 | c:\My Documents\My ArcPad\P1010257.JPG | SW07    |
| SW08  | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   |  | 561285       | 2336529 | c:\My Documents\My ArcPad\P1010258.JPG | SW08    |
| SW09  | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   |  | 561395       | 2336638 | c:\My Documents\My ArcPad\P1010259.JPG | SW09    |
| SW10  | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   |  | 548427       | 2354836 | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11  | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            |  | 548333       | 2354108 | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13  | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG | hole at bottom of fence                                   |  | 552891       | 2330038 | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
| NE05  | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   |  | 571090       | 2384743 | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19  | 07/17/2013 | c:\My Documents\My ArcPad\P1010220.JPG | hole next to post near bottom                             |  | 570600       | 2384750 | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20  | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     |  | 570080       | 2386673 | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21  | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   |  | 572732       | 2384028 | c:\My Documents\My ArcPad\P1010354.JPG | NE21    |
| NE23  | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  |  | 563209       | 2383312 | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
| NW09  | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   |  | 569396       | 2350885 | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10  | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | hole cut in fence   |  | 571046       | 2354186 | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
| SE03  | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   |  | 562592       | 2380413 | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |
| REPAIRED 1ST QTR  |            |  |   |  |              |         |  |         |
| REPAIRED 2ND QTR  |            |  |   |  |              |         |  |         |

Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Produced in March 2014 for:

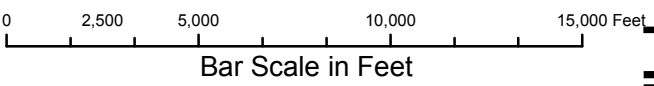


US Army Corps of  
Engineers  
600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

## **Summary Table**



## Summary Table

| Camp Ravenna Joint Military Training Center 2nd Qtr FY2014 LUC Inspection Summary Table |            |  |   | US Survey Ft |         |  |         |
|---|------------|--|---|--------------|---------|--|---------|
| Callout   | Date       | Path to Photo Location                 | Comments  | Northing     | Easting | Path to Repair Photo                   | Callout |
| NE06  | 02/13/2013 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   | 570126       | 2384759 |  | NE06    |
| NE18  | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base | 573035       | 2372897 |  | NE18    |
| NE22  | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | vandalized section of secluded fence at base              | 566933       | 2386688 |  | NE22    |
| NE24  | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     | 572341       | 2379439 |  | NE24    |
| NE25  | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | hole in fence   | 571059       | 2380588 |  | NE25    |
| NE26  | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   | 571062       | 2380862 |  | NE26    |
| NE27  | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   | 571068       | 2381194 |  | NE27    |
| NE28  | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   | 571112       | 2383373 |  | NE28    |
| NE29  | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   | 570046       | 2384741 |  | NE29    |
|   |            |  |   |              |         |  |         |
| NW08  | 07/16/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections(swampy)                     | 567746       | 2349644 |  | NW08    |
|   |            |  |   |              |         |  |         |
| SW01  | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   | 549403       | 2336048 |  | SW01    |
| SW12  | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | storm washout about 2 sections inlet needs cleared        | 552357       | 2330086 |  | SW12    |
|   |            |  |   |              |         |  |         |
| SE02  | 02/13/2013 | c:\My Documents\My ArcPad\P1010353.JPG | washout...worse now 7.18.2013                             | 551498       | 2361141 |  | SE02    |
| SE04  | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on 2-27-14 0271 photo            | 558980       | 2377933 |  | SE04    |
|   |            |  |   |              |         |  |         |
|   |            |  |   |              |         |  |         |
| SW05  | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   | 559954       | 2333158 | c:\My Documents\My ArcPad\P1010256.JPG | SW05    |
| SW07  | 02/12/2013 | c:\My Documents\My ArcPad\P1010076.JPG | apx 100 ft of fabric missing                              | 561189       | 2336373 | c:\My Documents\My ArcPad\P1010257.JPG | SW07    |
| SW08  | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   | 561285       | 2336529 | c:\My Documents\My ArcPad\P1010258.JPG | SW08    |
| SW09  | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   | 561395       | 2336638 | c:\My Documents\My ArcPad\P1010259.JPG | SW09    |
|   |            |  |   |              |         |  |         |
| SW10  | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   | 548427       | 2354836 | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11  | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            | 548333       | 2354108 | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13  | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG | hole at bottom of fence                                   | 552891       | 2330038 | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
|   |            |  |   |              |         |  |         |
| NE05  | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   | 571090       | 2384743 | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19  | 07/17/2013 | c:\My Documents\My ArcPad\P1010220.JPG | hole next to post near bottom                             | 570600       | 2384750 | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20  | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     | 570080       | 2386673 | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21  | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   | 572732       | 2364028 | c:\My Documents\My ArcPad\P1010354.JPG | NE21    |
| NE23  | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  | 563209       | 2383312 | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
|   |            |  |   |              |         |  |         |
| NW09  | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   | 569396       | 2350885 | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10  | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | cut hole in fence   | 571046       | 2354186 | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
|   |            |  |   |              |         |  |         |
| SE03  | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   | 562592       | 2380413 | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |

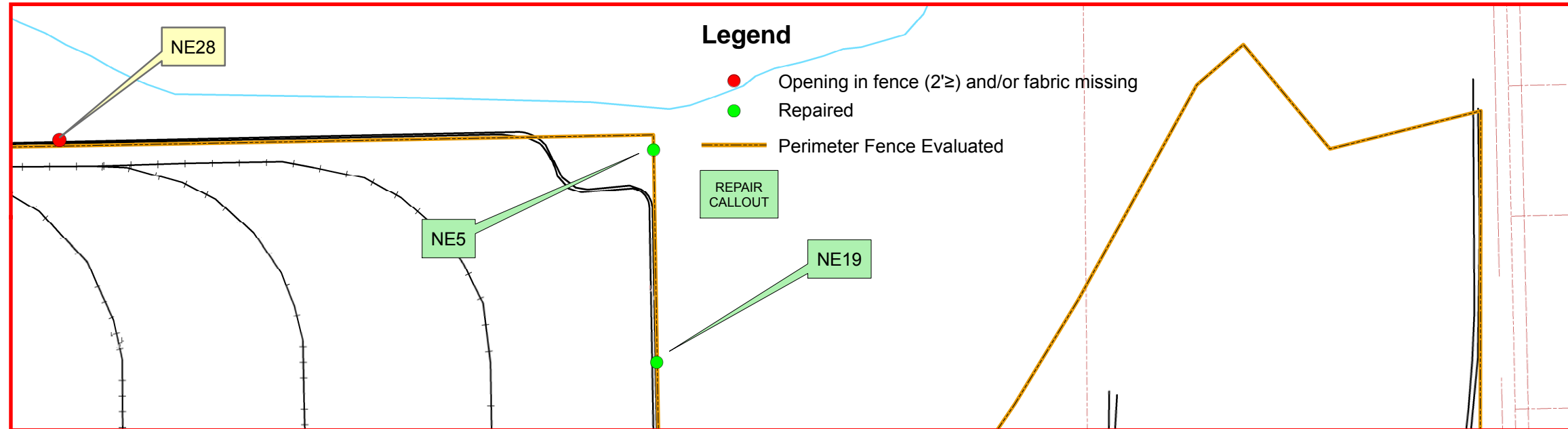
REPAIRED 1ST QTR

REPAIRED 2ND QTR

## **NE (Northeast) Quadrant**



## DETAIL SHEET FOR NE5



## LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

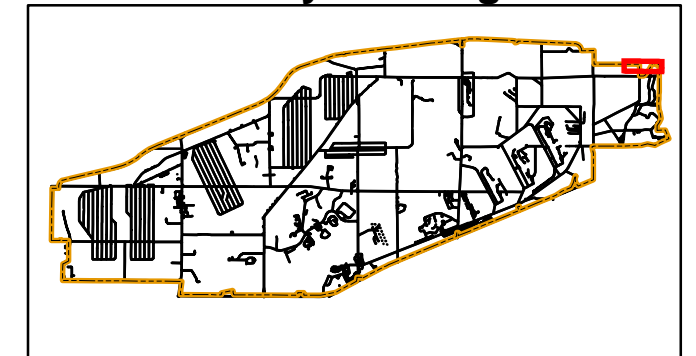
PHOTO NE5 repair 03/03/2014



PHOTO NE5 discovered 02/13/2013



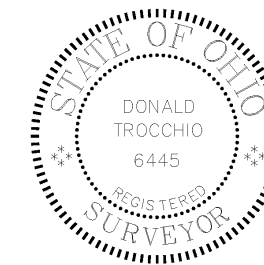
### Camp Ravenna Joint Military Training Center



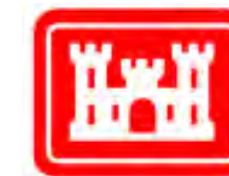
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



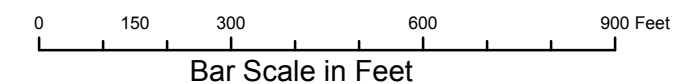
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

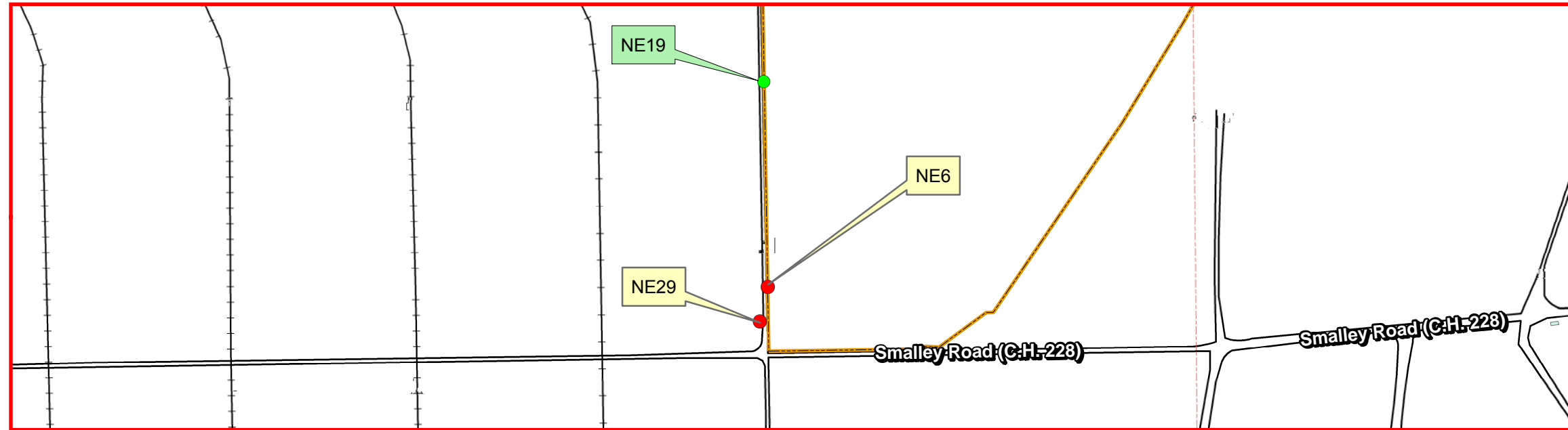


Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE5



## DETAIL SHEET FOR NE6



# LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

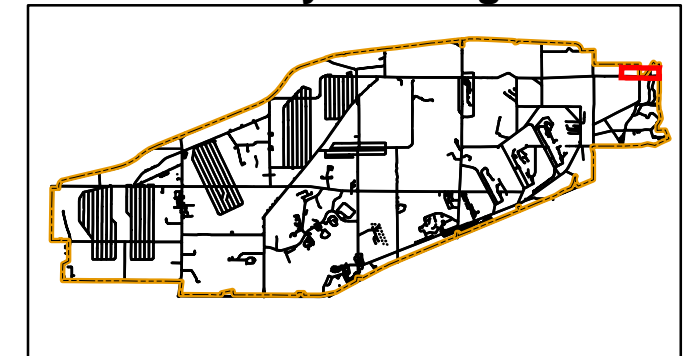
PHOTO NE6 discovered 03/03/2014

### Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR  
CALLOUT



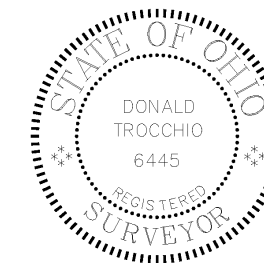
## Camp Ravenna Joint Military Training Center



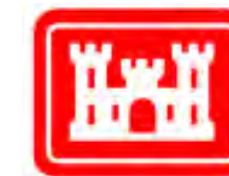
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



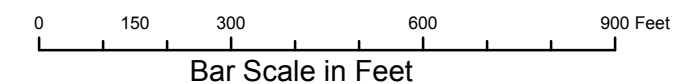
**US Army Corps of  
Engineers**

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Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

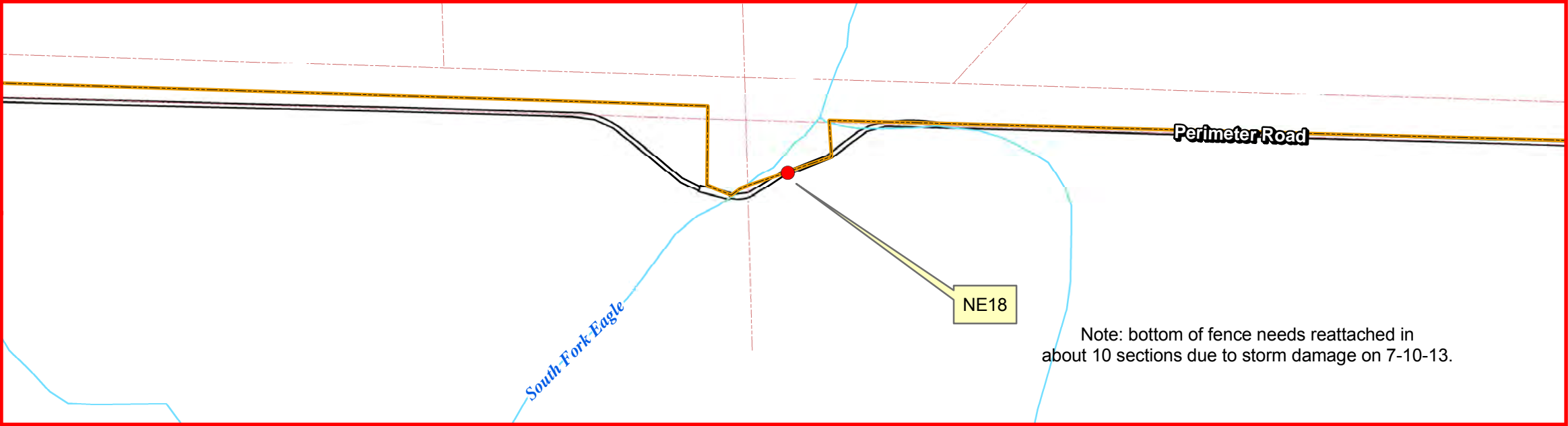


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Newton Falls, OH 44444  
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DETAIL SHEET FOR NE6



DETAIL SHEET FOR NE18



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

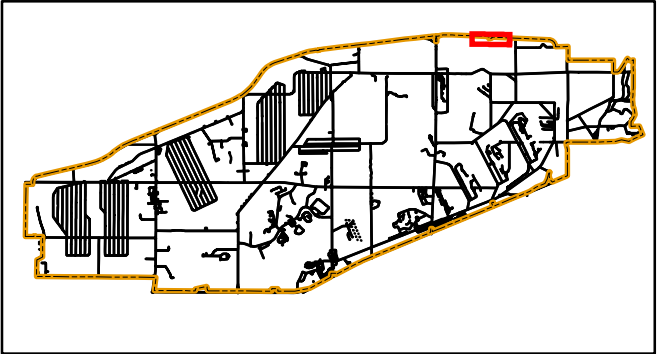
PHOTO NE18 discovered 07/17/2013

Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated



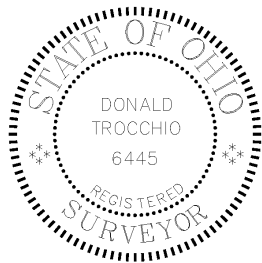
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



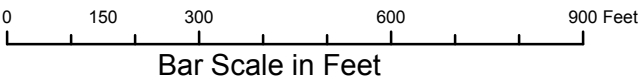
**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



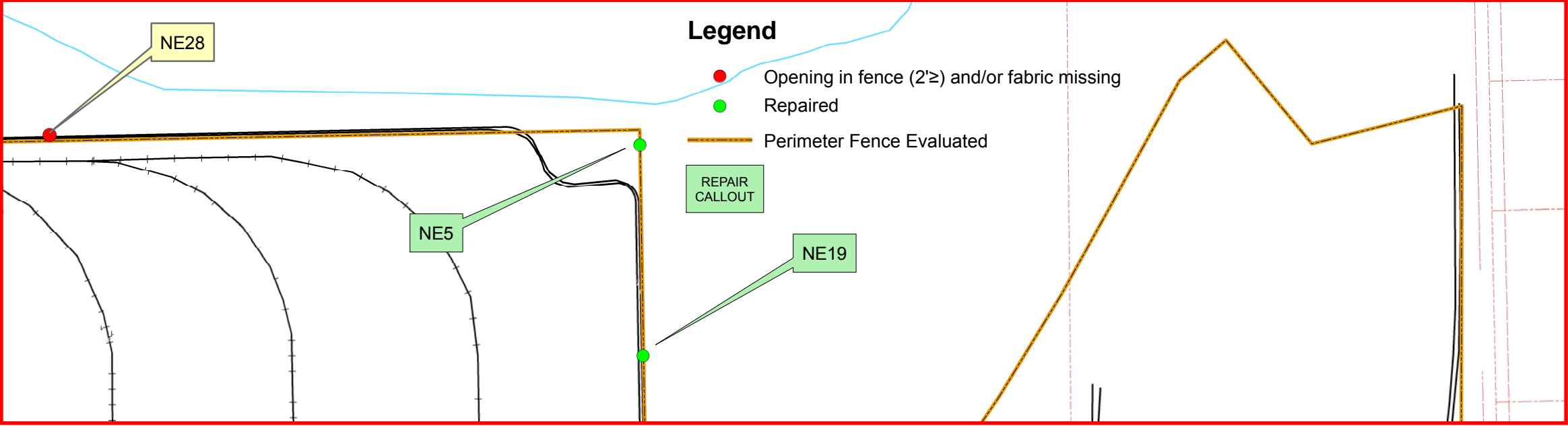
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE18



DETAIL SHEET FOR NE19



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

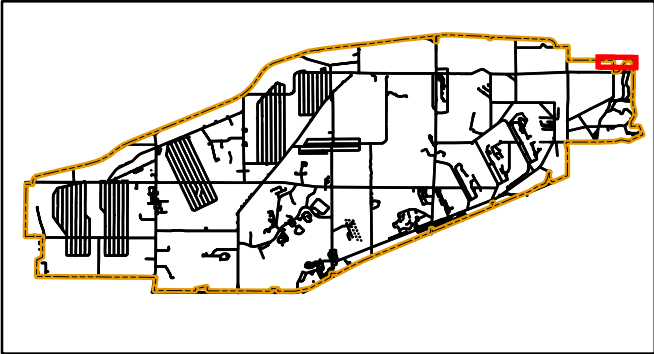
PHOTO NE19 repair 03/03/2014



PHOTO NE19 discovered 07/17/2013



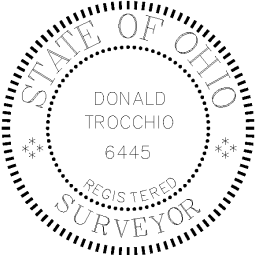
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:

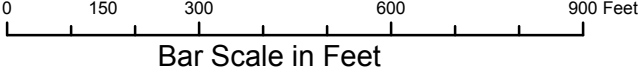


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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

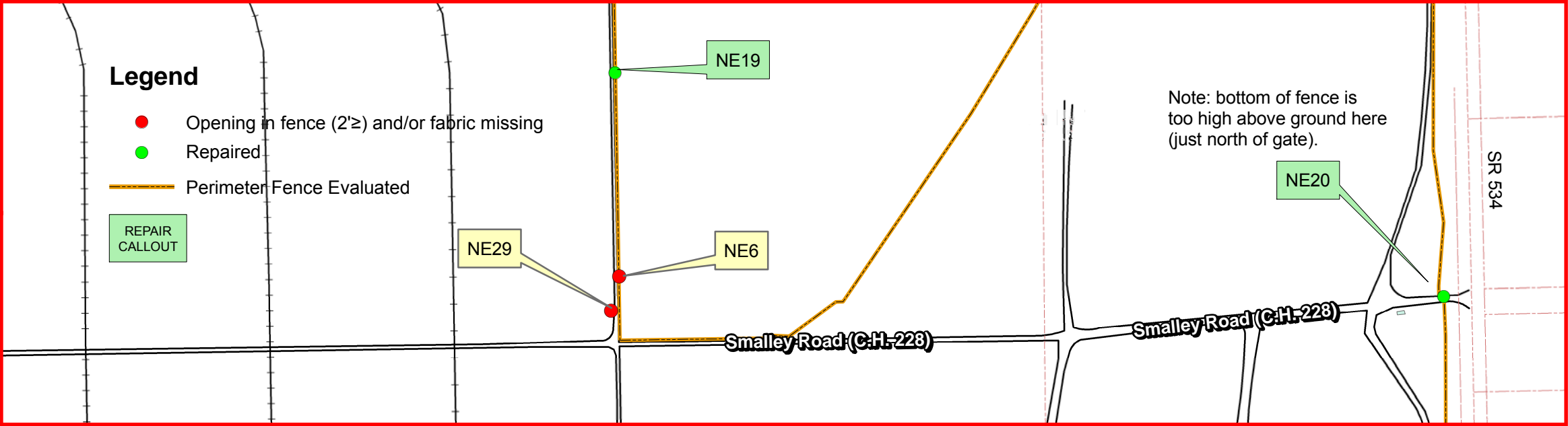


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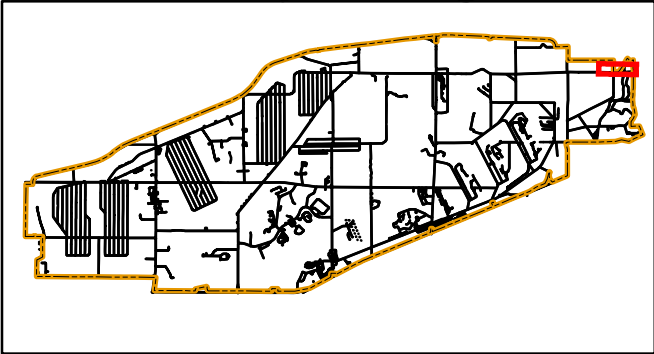
DETAIL SHEET FOR NE19



DETAIL SHEET FOR NE20



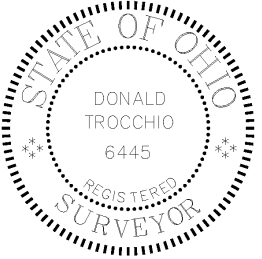
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Ohio

LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE20 repair 03/05/2014



PHOTO NE20 discovered 07/18/2013



Produced in March 2014 for:

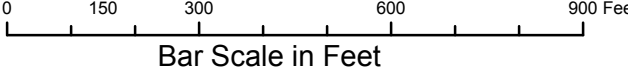


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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

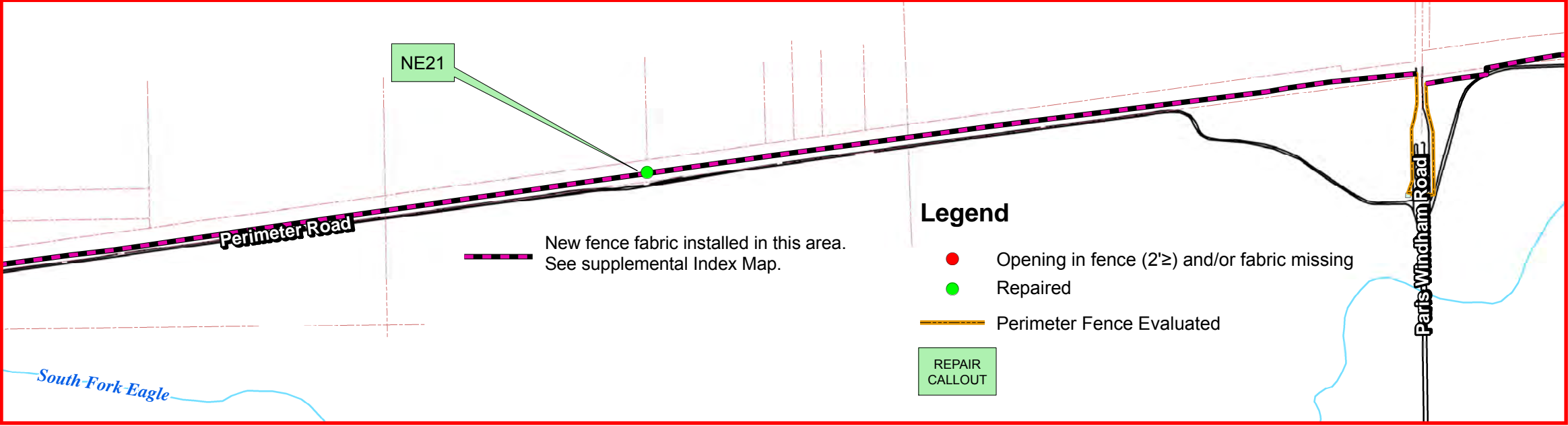


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1438 State Route 534 SW  
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don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

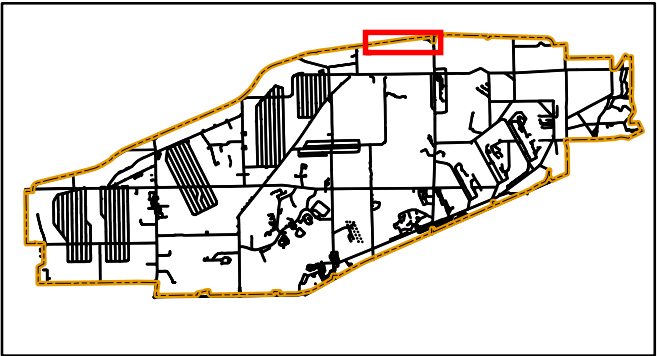
DETAIL SHEET FOR NE20



DETAIL SHEET FOR NE21



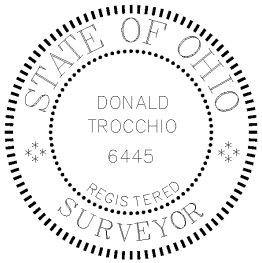
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Ohio

LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE21 repair 03/03/2014



PHOTO NE21 discovered 11/21/2013



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Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
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DETAIL SHEET FOR NE21



DETAIL SHEET FOR NE22



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

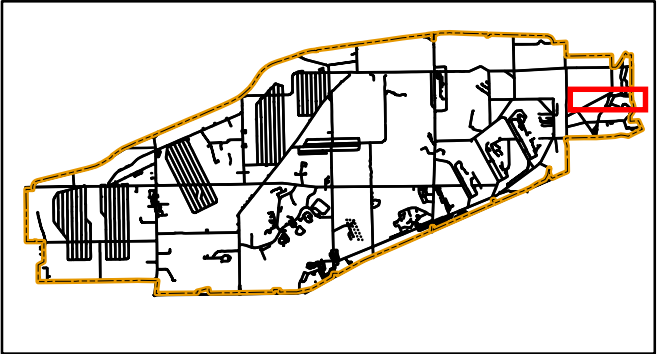
PHOTO NE22 discovered 11/25/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



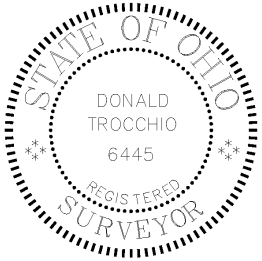
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Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



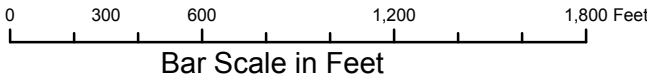
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



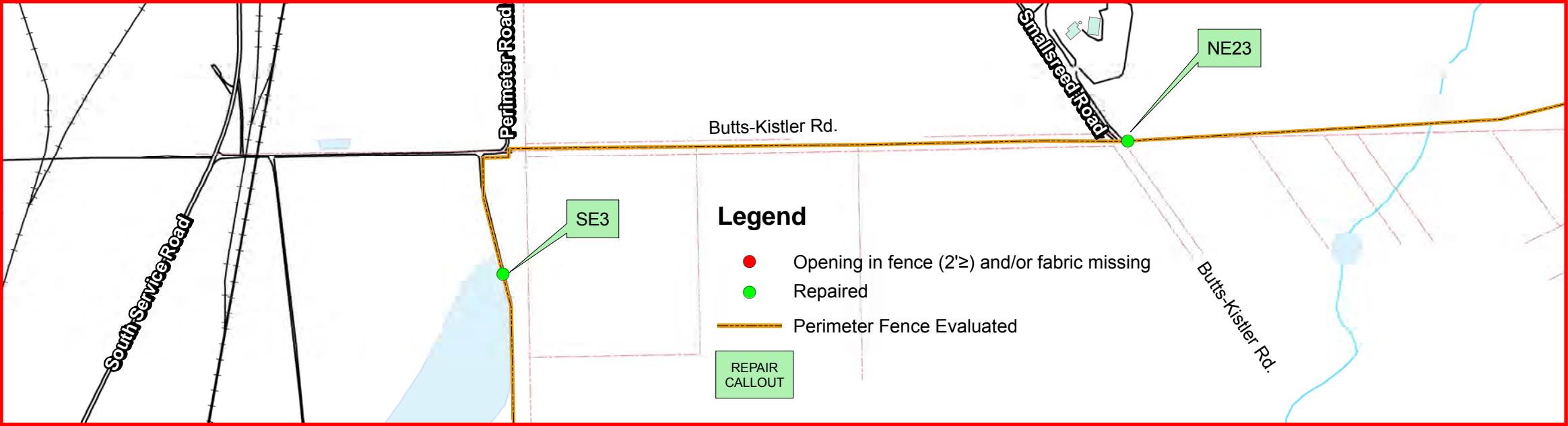
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE22



DETAIL SHEET FOR NE23



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE23 repair 03/05/2014



PHOTO NE23 discovered 11/25/2013



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**LOCATOR MAP**

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Louisville District

Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone

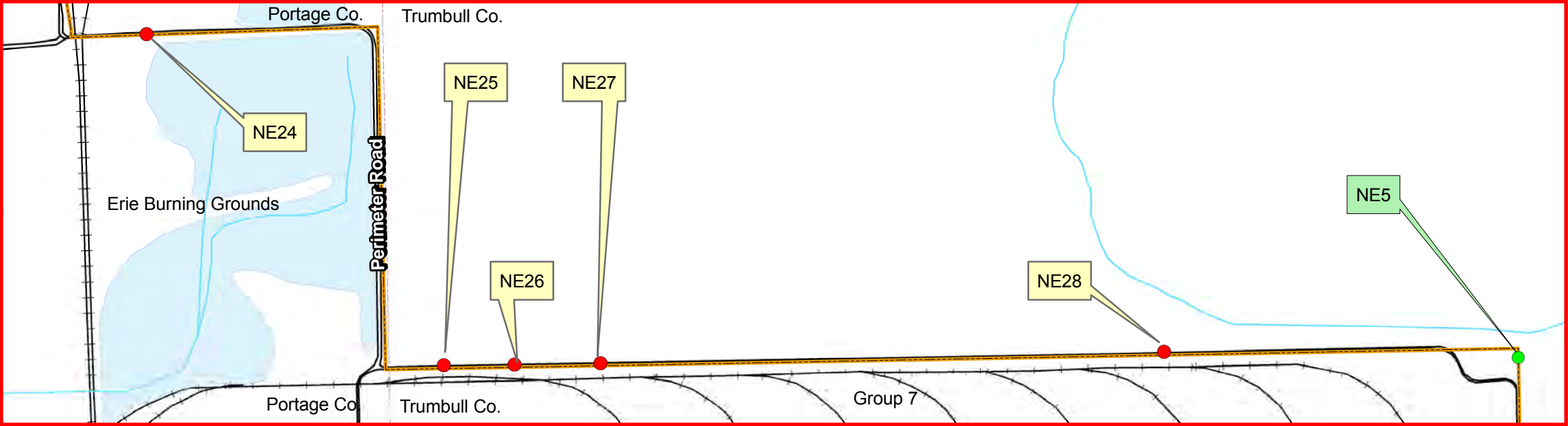
Bar Scale in Feet

Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE23



DETAIL SHEET FOR NE24

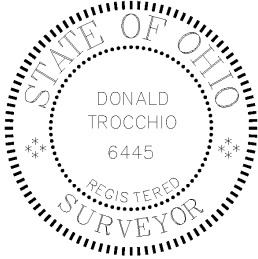
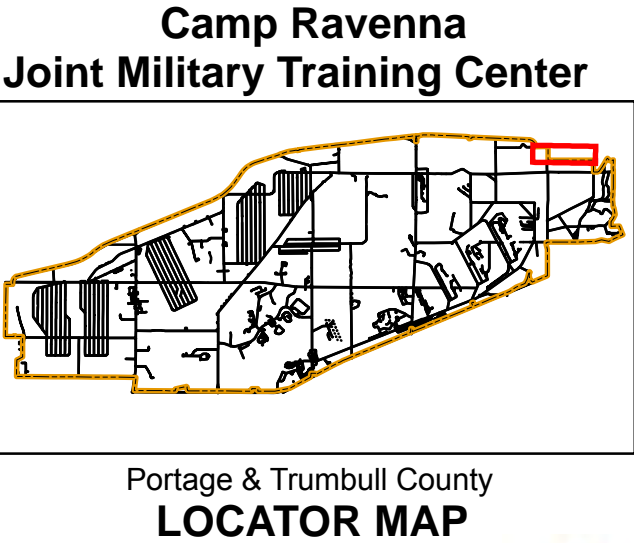


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR  
CALLOUT

PHOTO NE24 discovered 03/03/2014



Produced in March 2014 for:

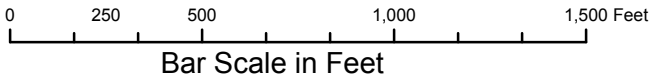


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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

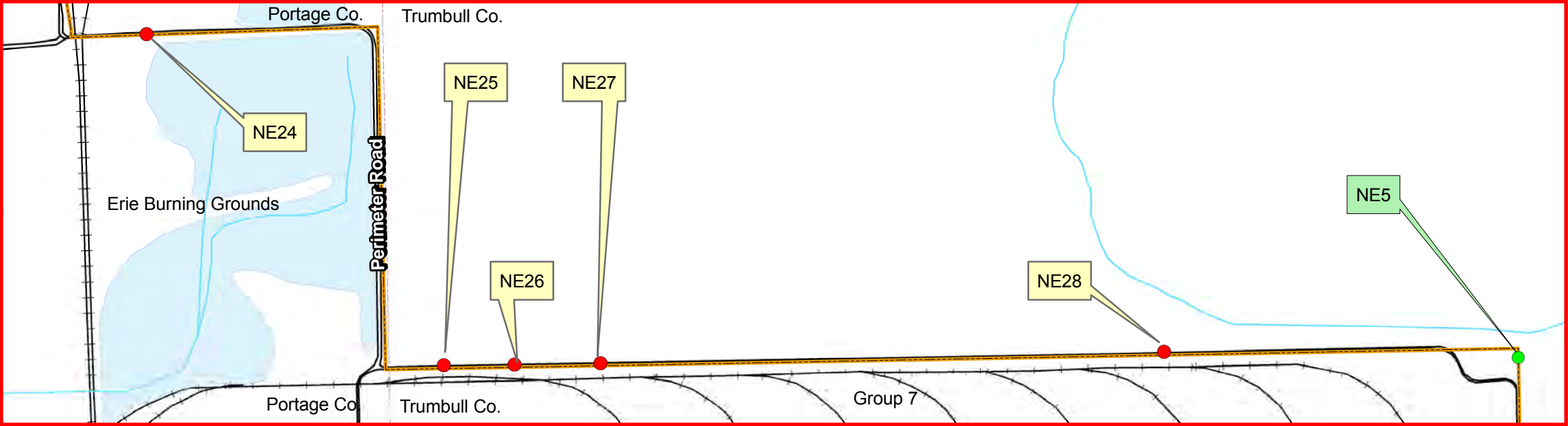


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1438 State Route 534 SW  
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don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE24



DETAIL SHEET FOR NE25



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

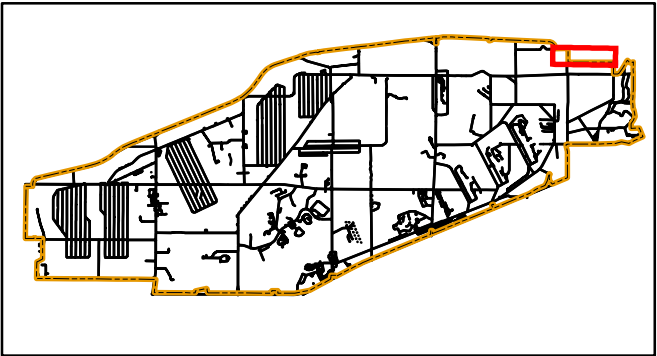
Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR  
CALLOUT

PHOTO NE25 discovered 03/03/2014



Camp Ravenna  
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Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



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Plane Rectangular Grid, North Zone

0 250 500 1,000 1,500 Feet  
Bar Scale in Feet



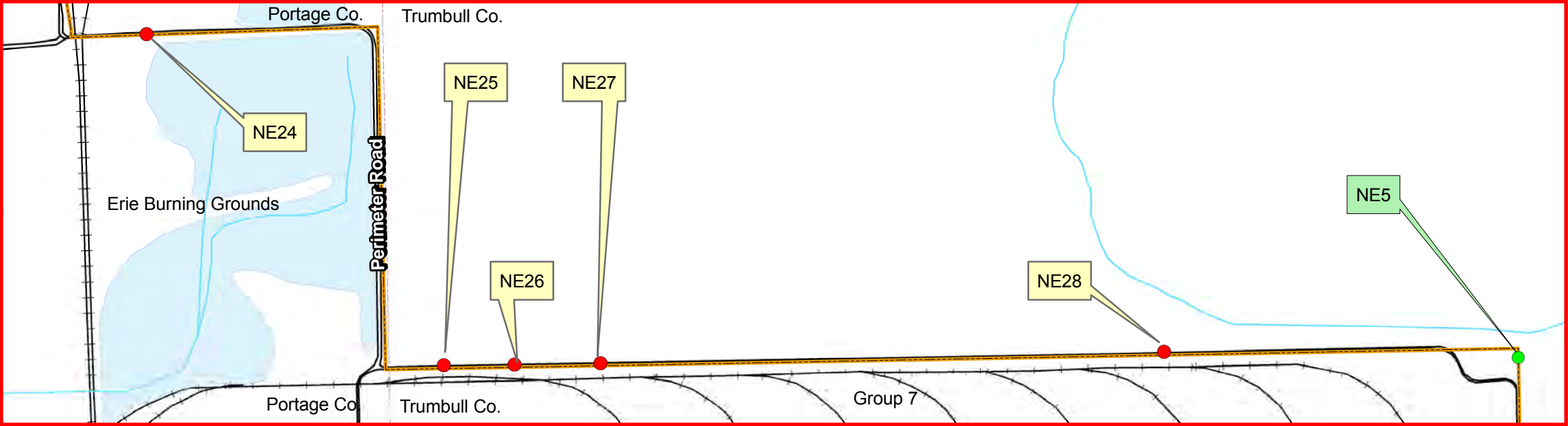
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don TROCCHIO, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE25



DETAIL SHEET FOR NE26



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

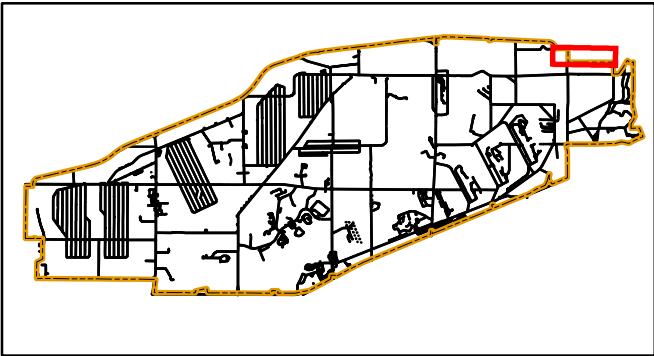
Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR  
CALLOUT

PHOTO NE26 discovered 03/03/2014



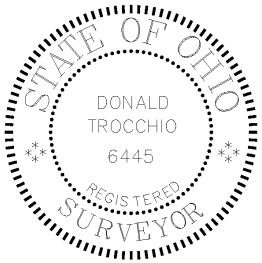
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



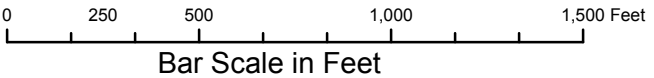
**US Army Corps of  
Engineers**

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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



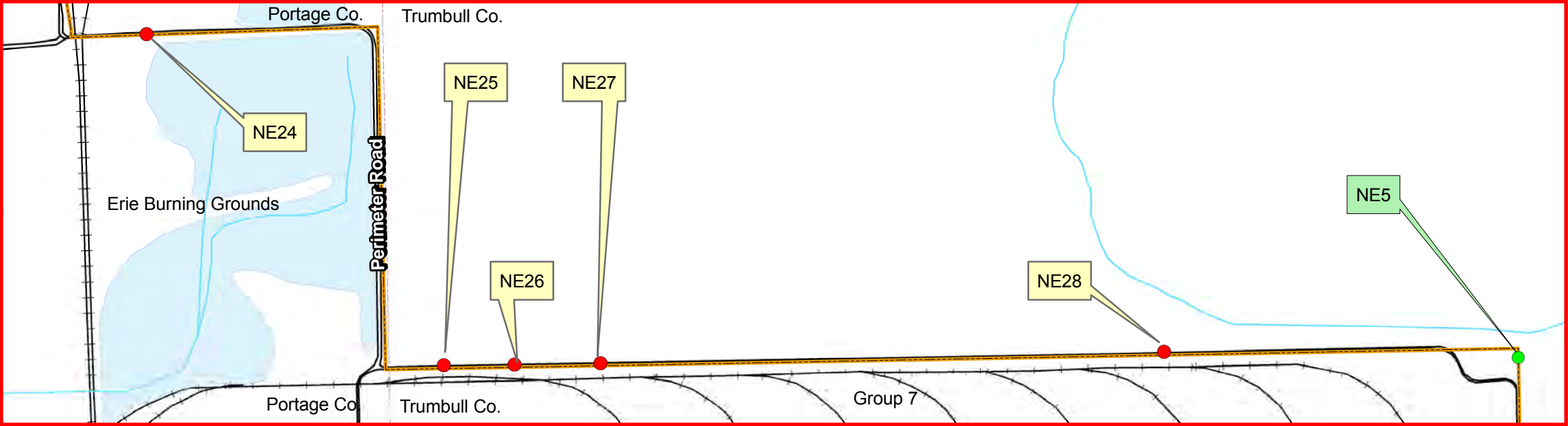
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE26



DETAIL SHEET FOR NE27



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

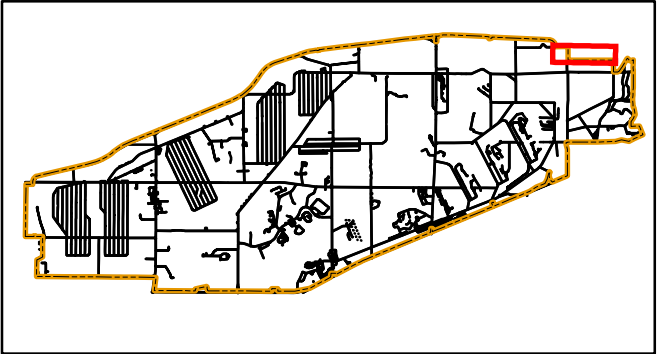
Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR  
CALLOUT

PHOTO NE27 discovered 03/03/2014



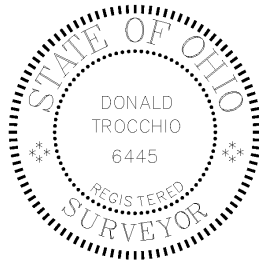
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



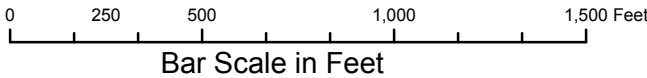
**US Army Corps of  
Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



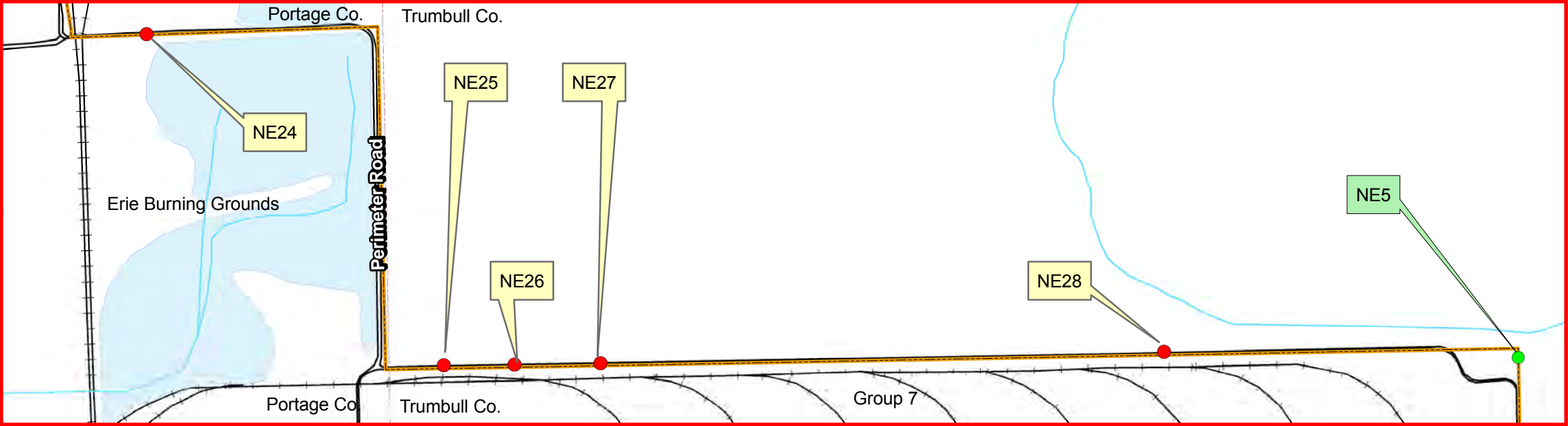
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE27



DETAIL SHEET FOR NE28

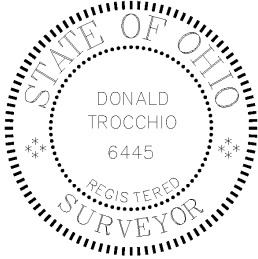
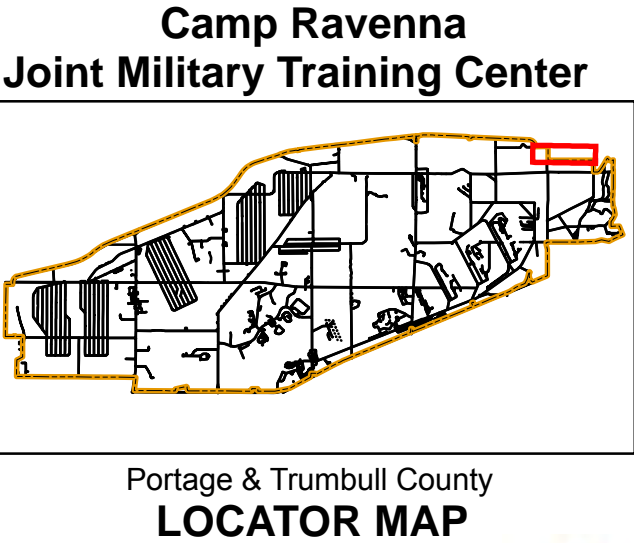


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT

PHOTO NE28 discovered 03/03/2014



Produced in March 2014 for:

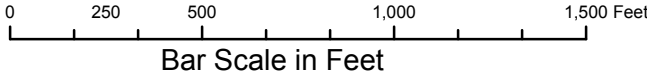


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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

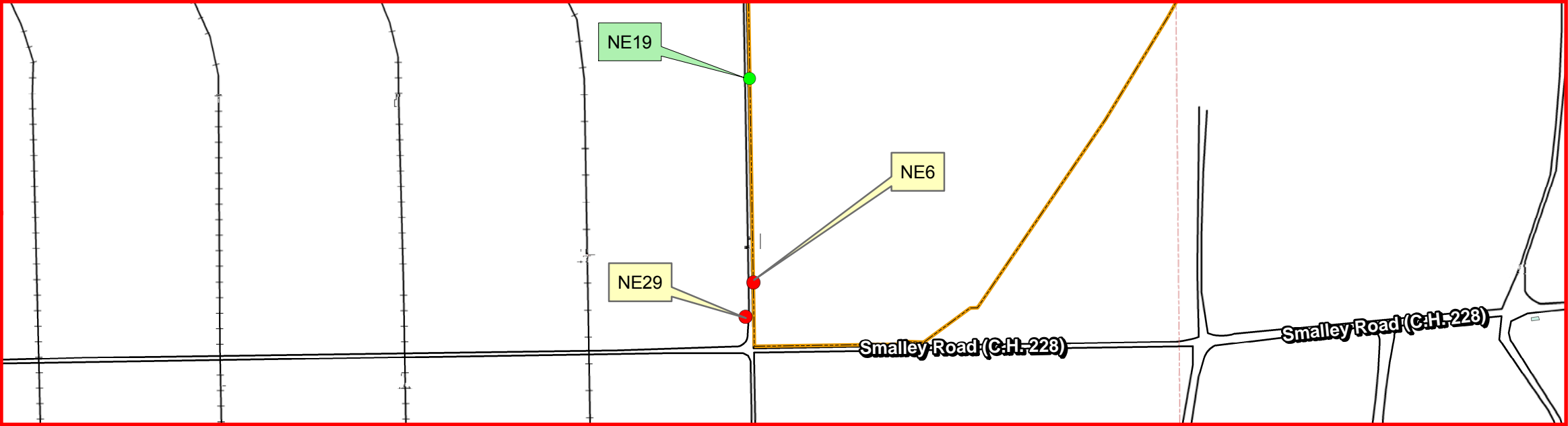


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DETAIL SHEET FOR NE28



DETAIL SHEET FOR NE29



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE29 discovered 03/05/2014

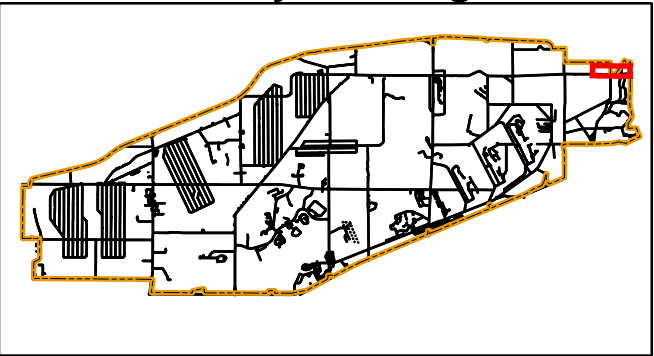
Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR  
CALLOUT



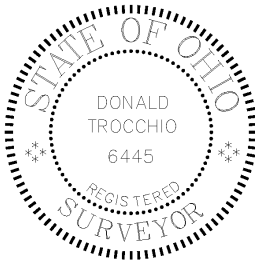
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 150 300 600 900 Feet  
Bar Scale in Feet



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

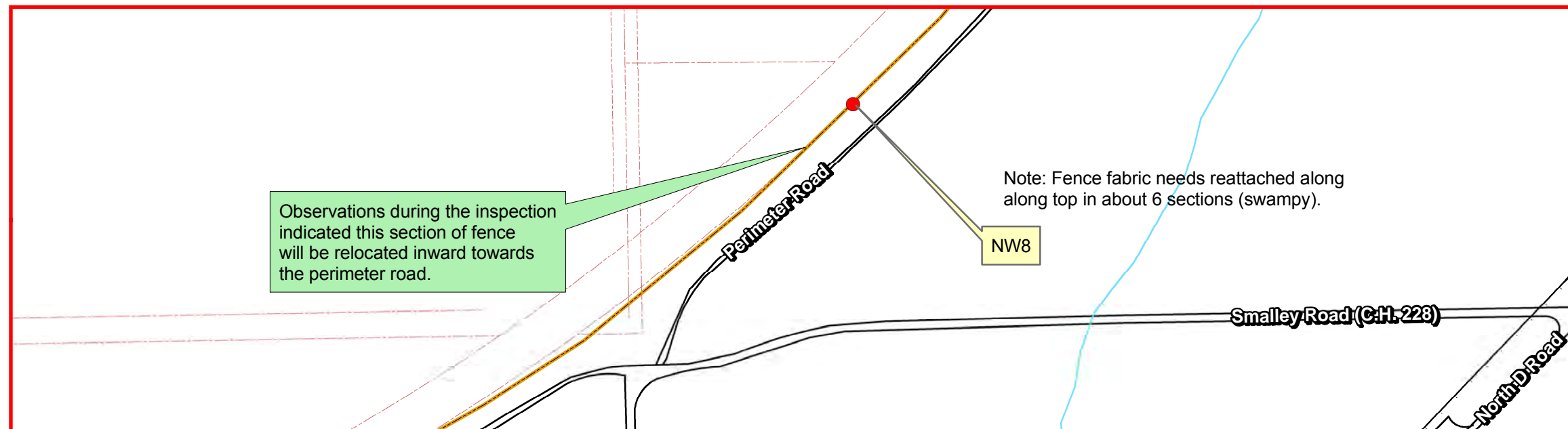
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE29

## **NW (Northwest) Quadrant**



## DETAIL SHEET FOR NW8



# LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

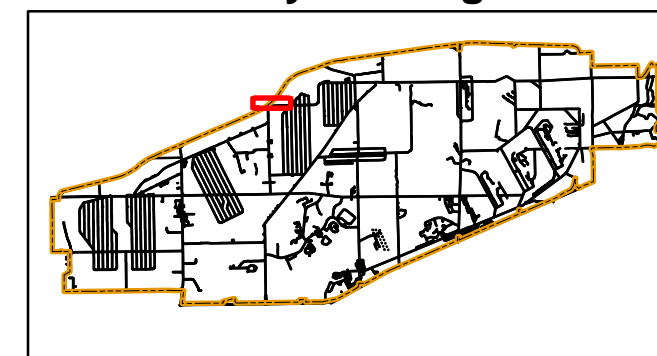
PHOTO NW8 discovered 07/16/2013

## Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated



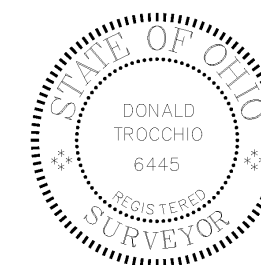
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



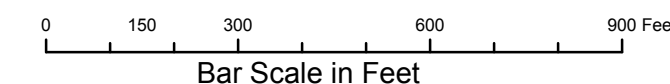
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



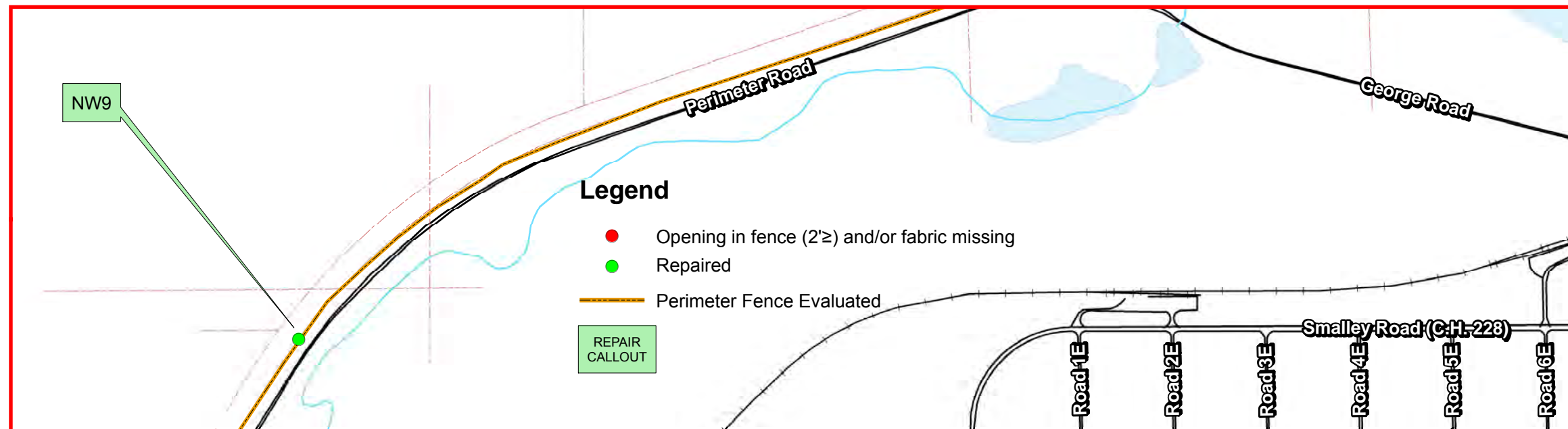
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

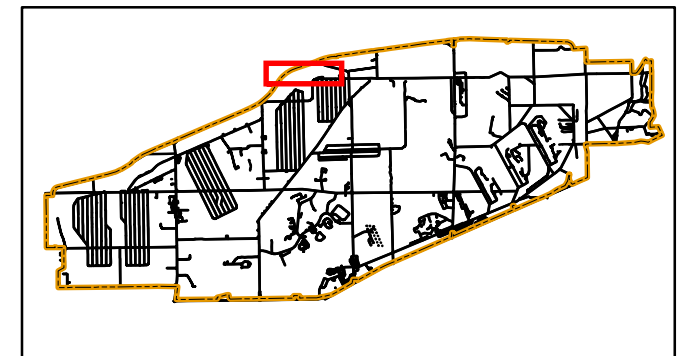
DETAIL SHEET FOR NW8



## DETAIL SHEET FOR NW9



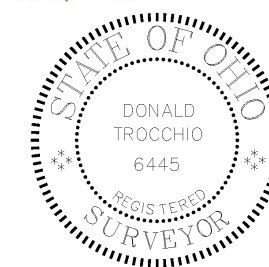
## Camp Ravenna Joint Military Training Center



### Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



## LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

PHOTO NW9 repair 02/25/2014



PHOTO NW9 discovered 11/19/2013



Produced in March 2014 for:



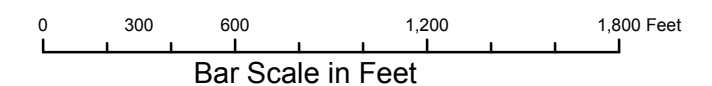
**US Army Corps of  
Engineers**

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Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

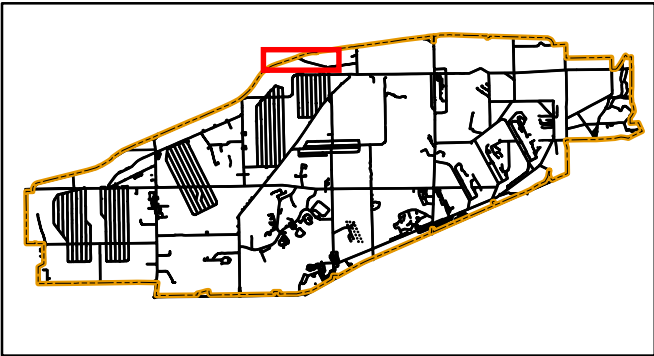
DETAIL SHEET FOR NW9



DETAIL SHEET FOR NW10



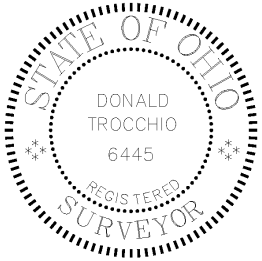
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Ohio

LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NW10 repair 02/26/2014



PHOTO NW10 discovered 11/21/2013



Produced in March 2014 for:



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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



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Don Trocchio, PS  
don.trocchio@us.army.mil

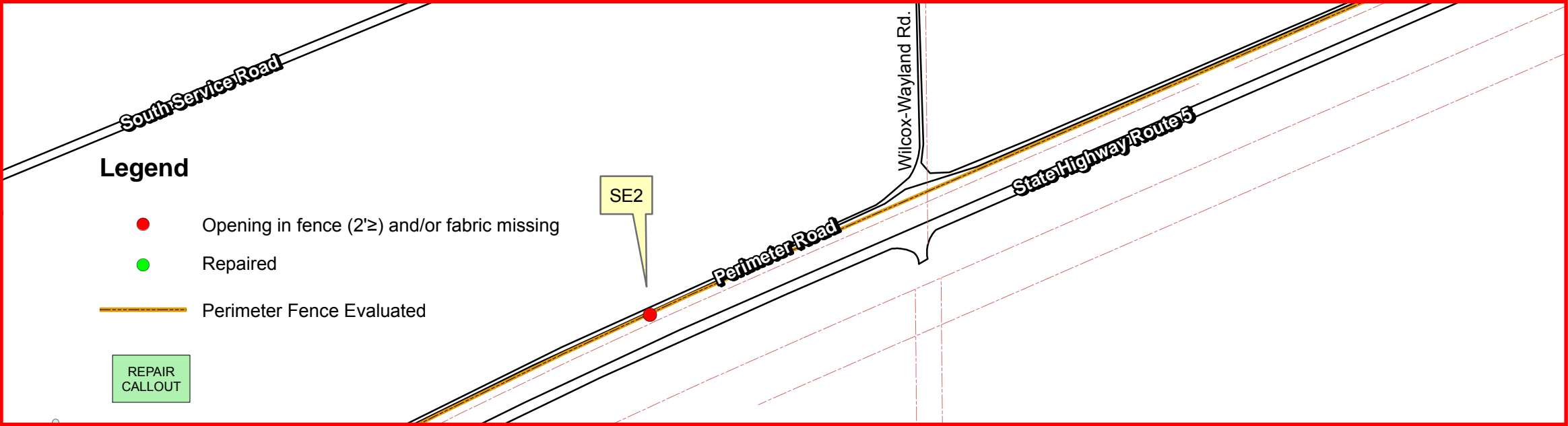
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW10



**SE (Southeast) Quadrant**

DETAIL SHEET FOR SE2

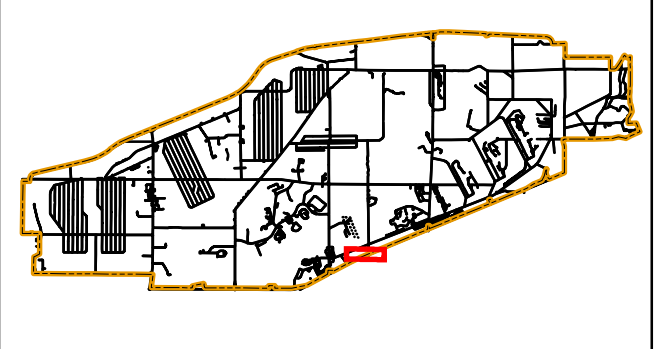


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



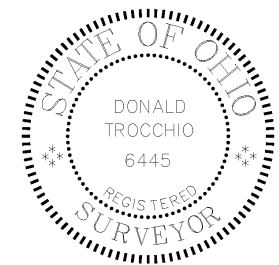
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:

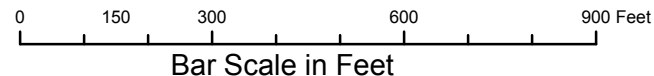


**US Army Corps of Engineers**  
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Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

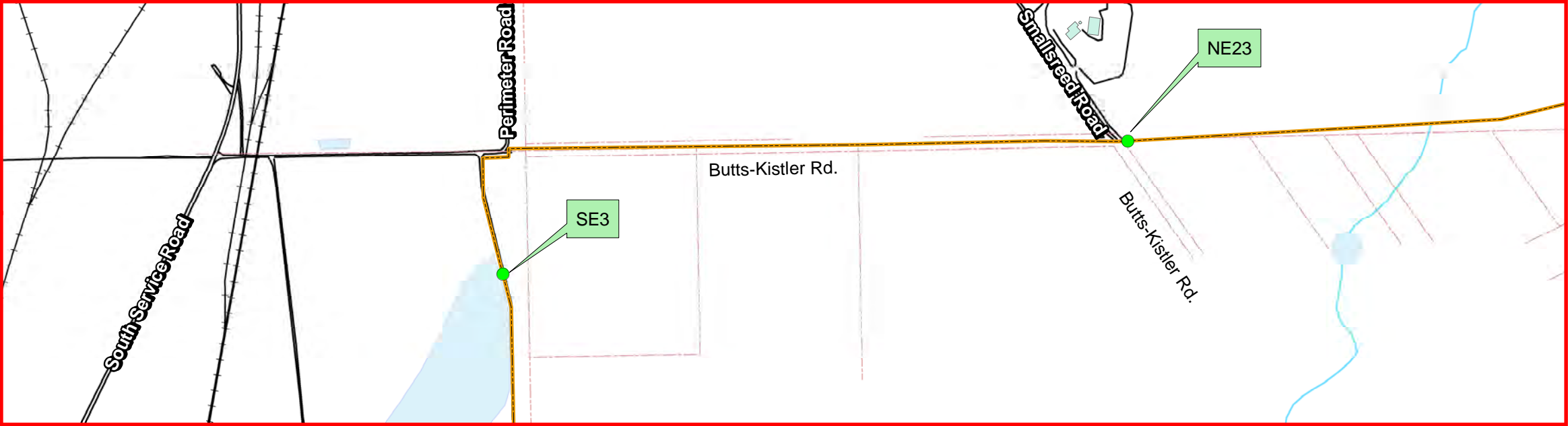


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1438 State Route 534 SW  
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don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

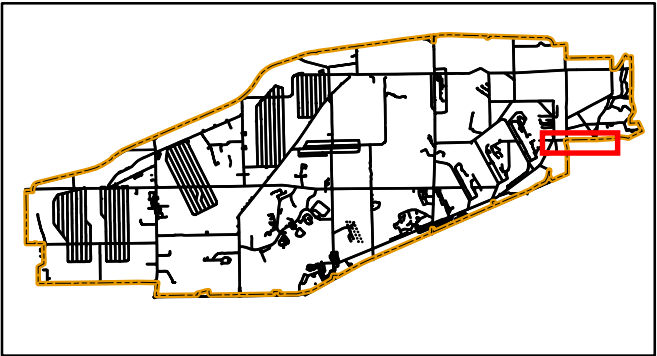
DETAIL SHEET FOR SE2



DETAIL SHEET FOR SE3



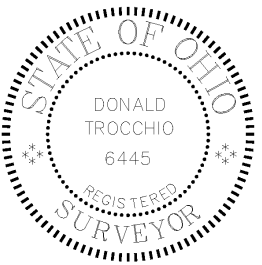
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Ohio

LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE3 repair 02/27/2014



PHOTO SE3 discovered 11/25/2013



Produced in March 2014 for:



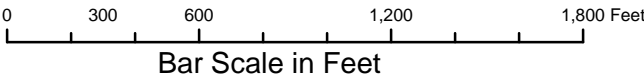
**US Army Corps of  
Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



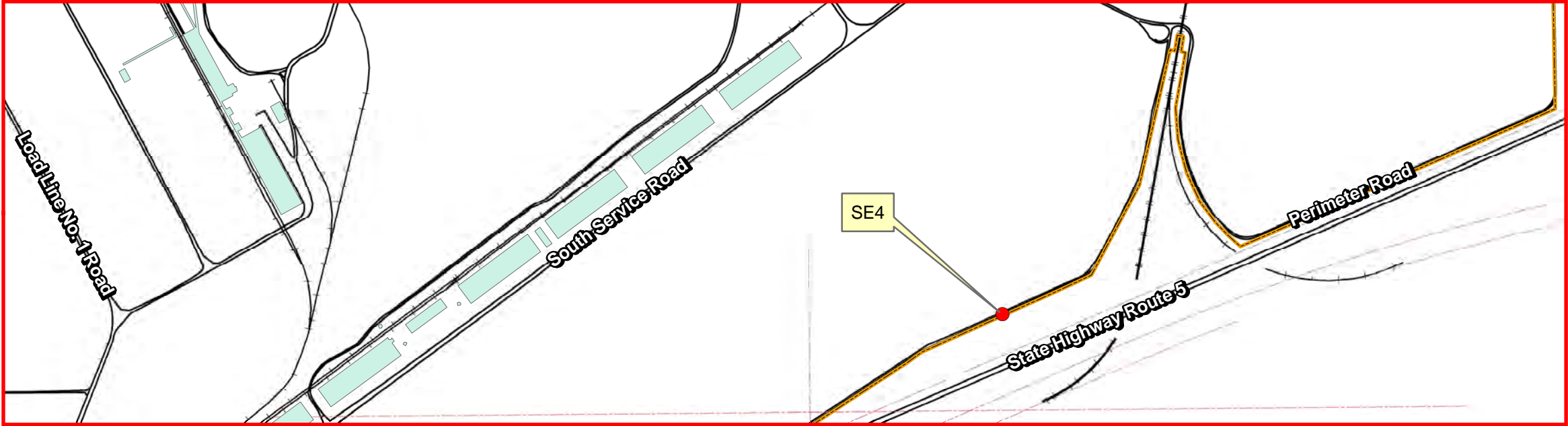
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE3



DETAIL SHEET FOR SE4

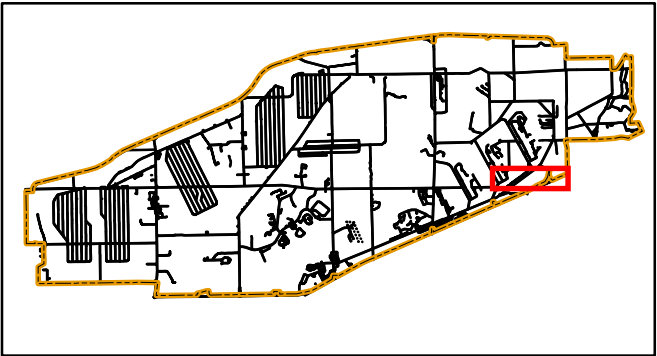


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE4 discovered 02/27/2014



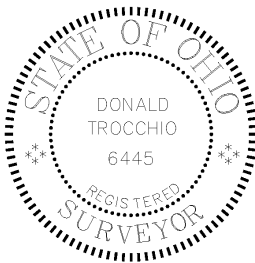
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

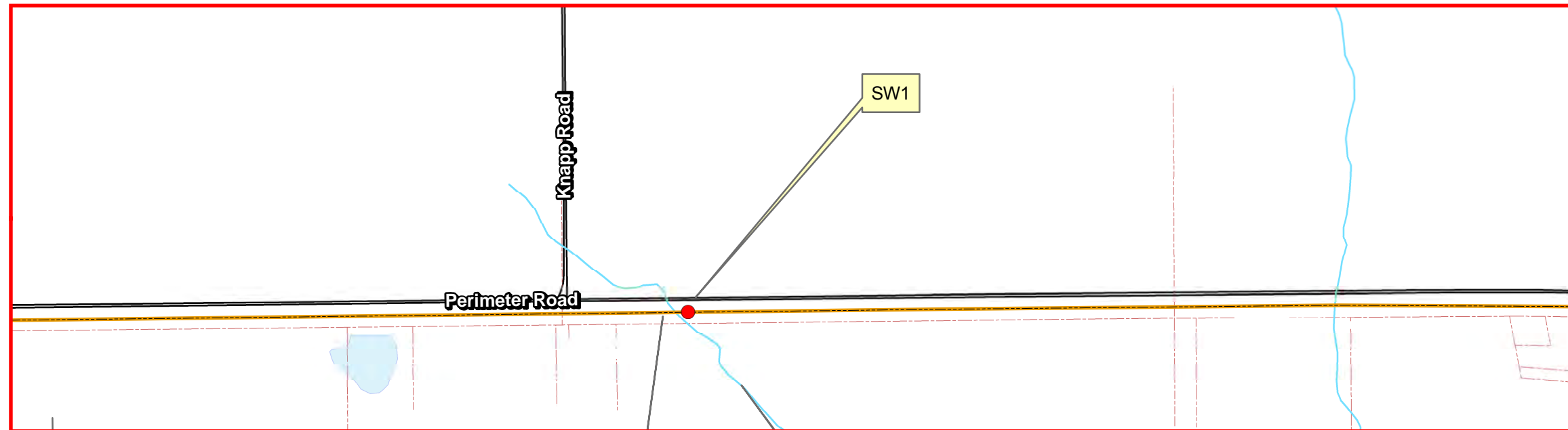
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE4



## **SW (Southwest) Quadrant**

## DETAIL SHEET FOR SW1



# LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

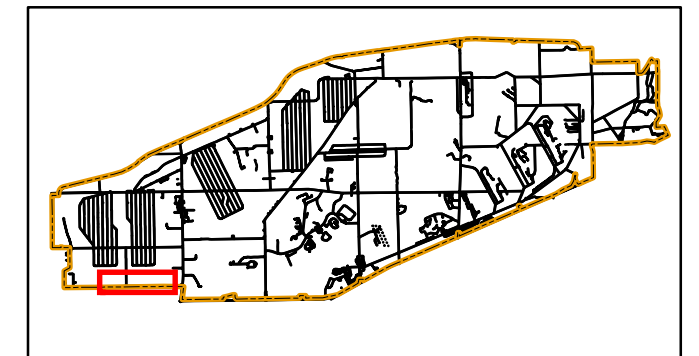
PHOTO SW1 discovered 02/07/2013

### Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



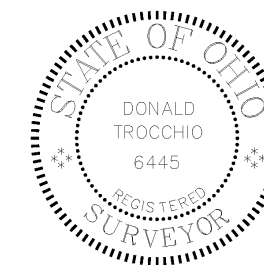
## Camp Ravenna Joint Military Training Center



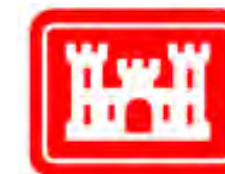
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



**US Army Corps of  
Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



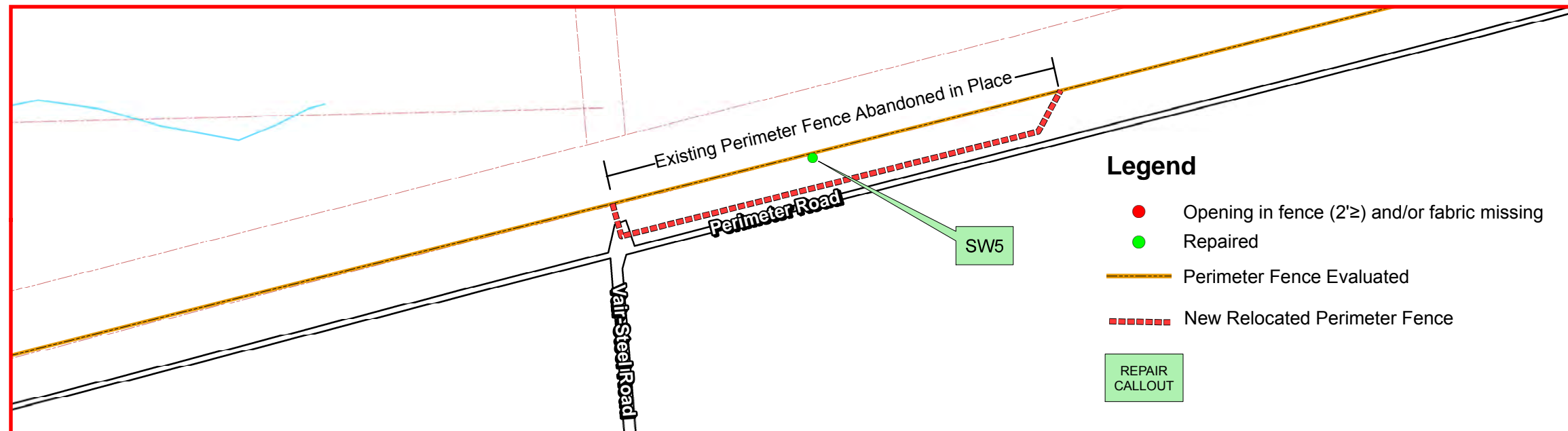
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW1



## DETAIL SHEET FOR SW5



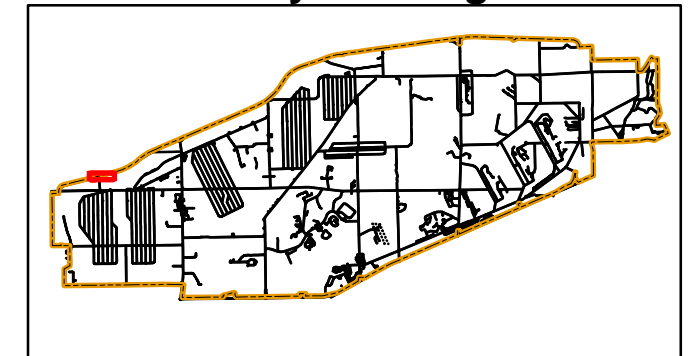
## LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

REPAIR PHOTO SW5 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013

PHOTO SW5 discovered 02/12/2013



## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



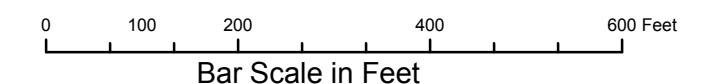
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

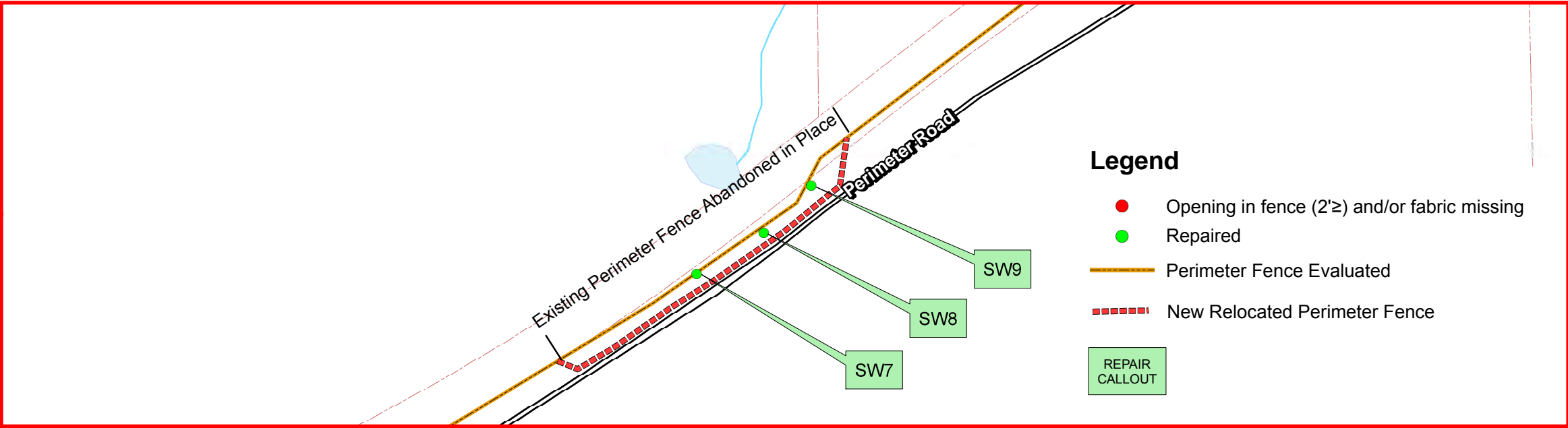


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW5



DETAIL SHEET FOR SW7, SW8 and SW9



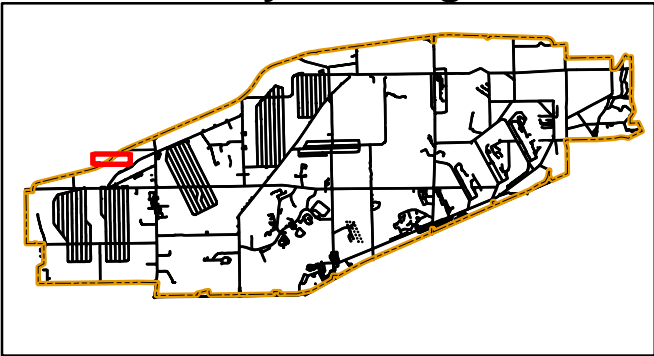
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013

PHOTO SW7 discovered 02/12/2013



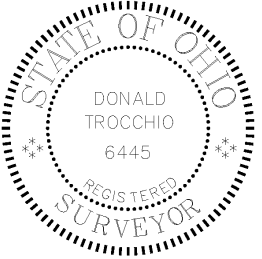
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



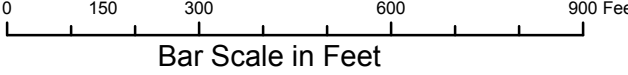
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



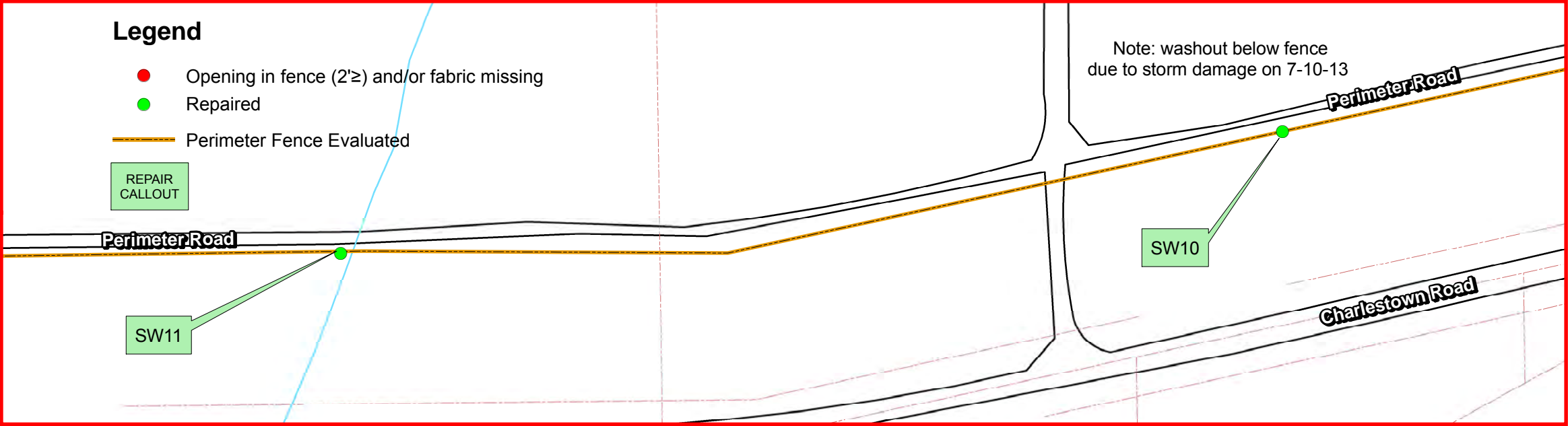
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW7, SW8, SW9



# DETAIL SHEET FOR SW10



## LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

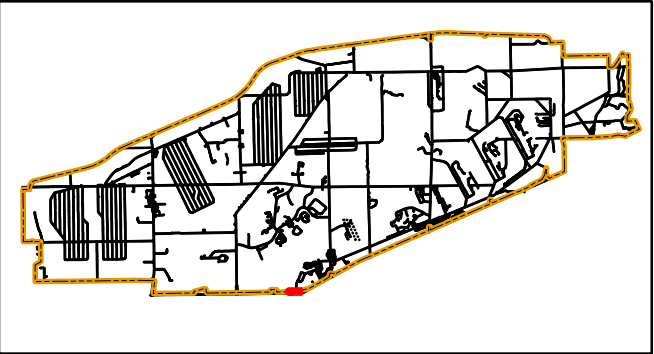
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



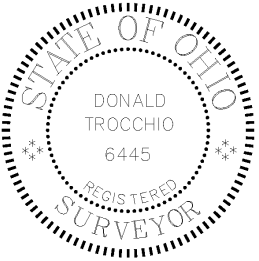
### Camp Ravenna Joint Military Training Center



#### Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



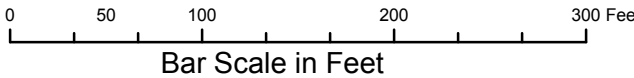
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



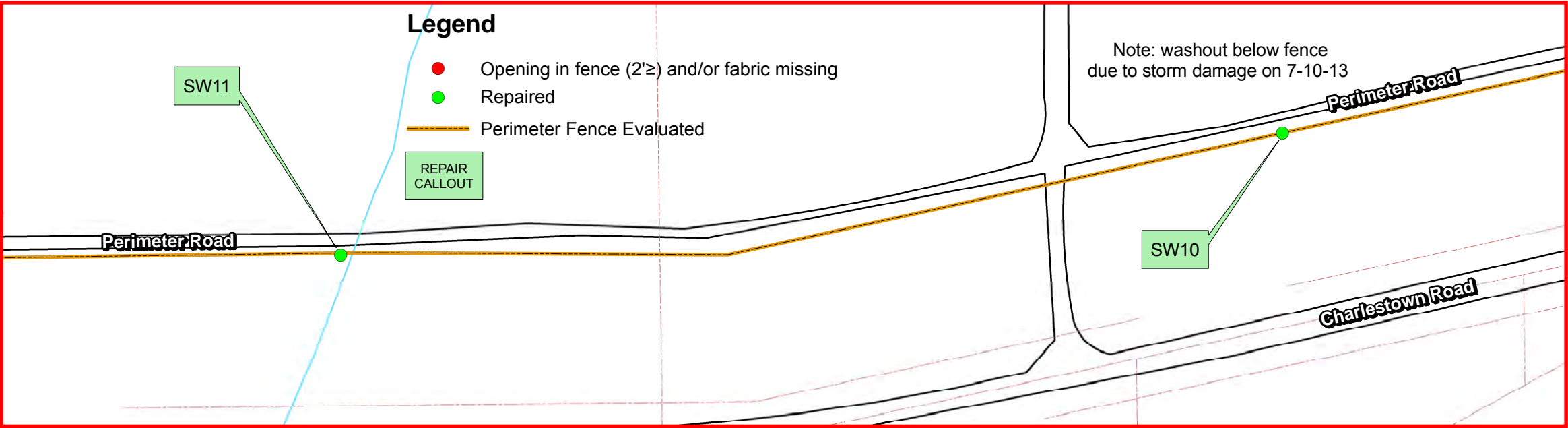
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW10



DETAIL SHEET FOR SW11



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

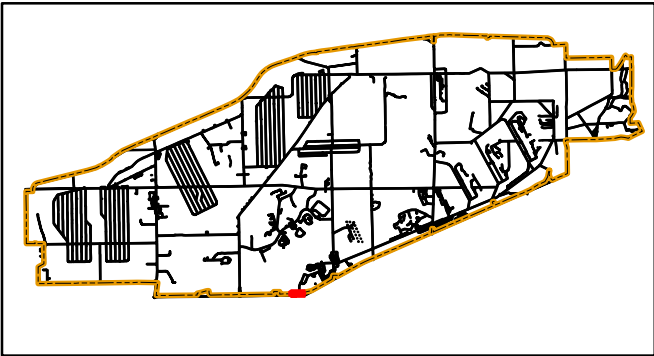
PHOTO SW11 repair 02/24/2014



PHOTO SW11 discovered 07/15/2013



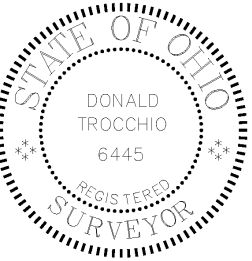
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



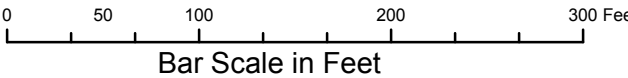
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



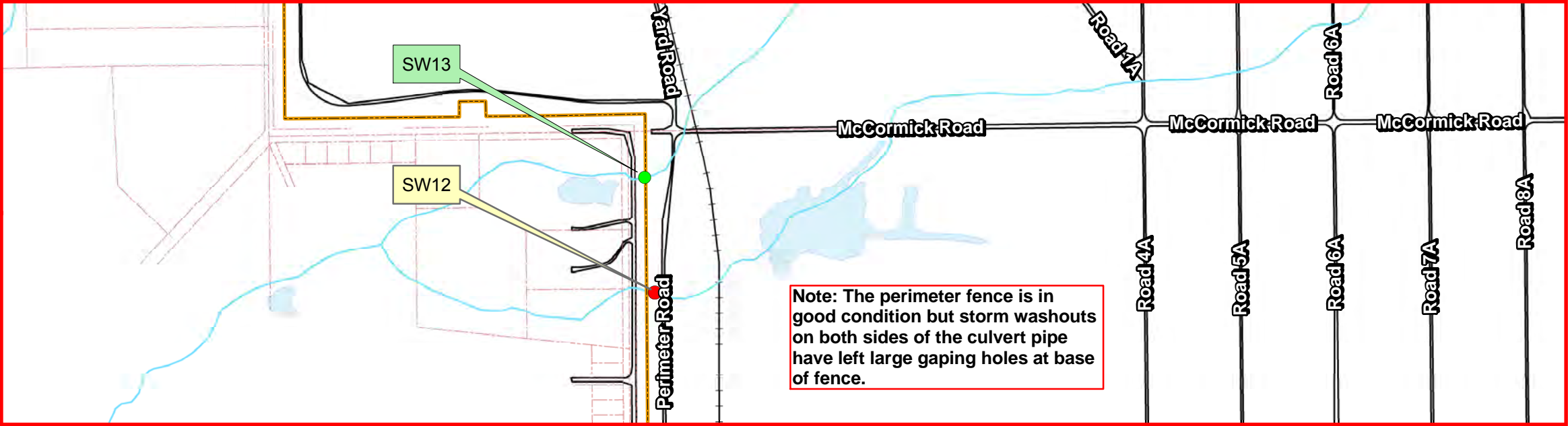
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

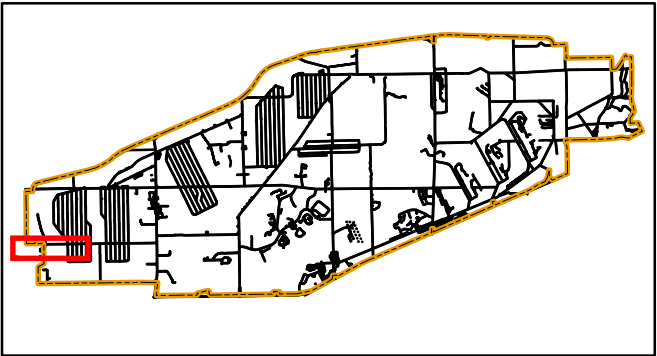
DETAIL SHEET FOR SW11



DETAIL SHEET FOR SW12



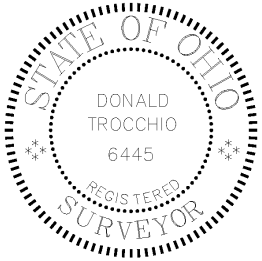
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SW12 discovered 11/18/2013

**Legend**

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR  
CALLOUT



Produced in March 2014 for:



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Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



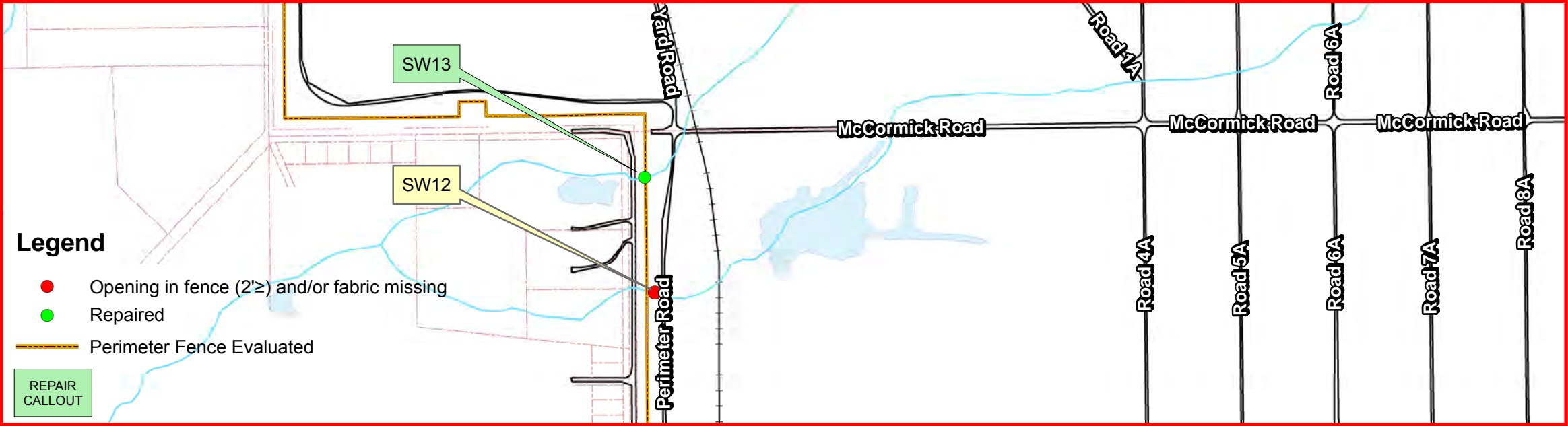
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

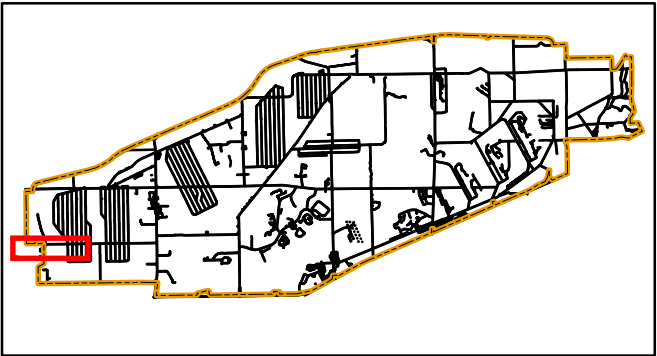
DETAIL SHEET FOR SW12



DETAIL SHEET FOR SW13



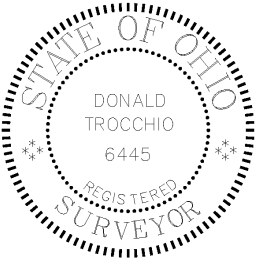
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SW13 repair 02/24/2014



PHOTO SW13 discovered 11/18/2013



Produced in March 2014 for:



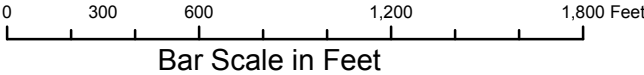
**US Army Corps of  
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Plane Rectangular Grid, North Zone



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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW13



**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 2**

**Supplemental Index Map No. 1**

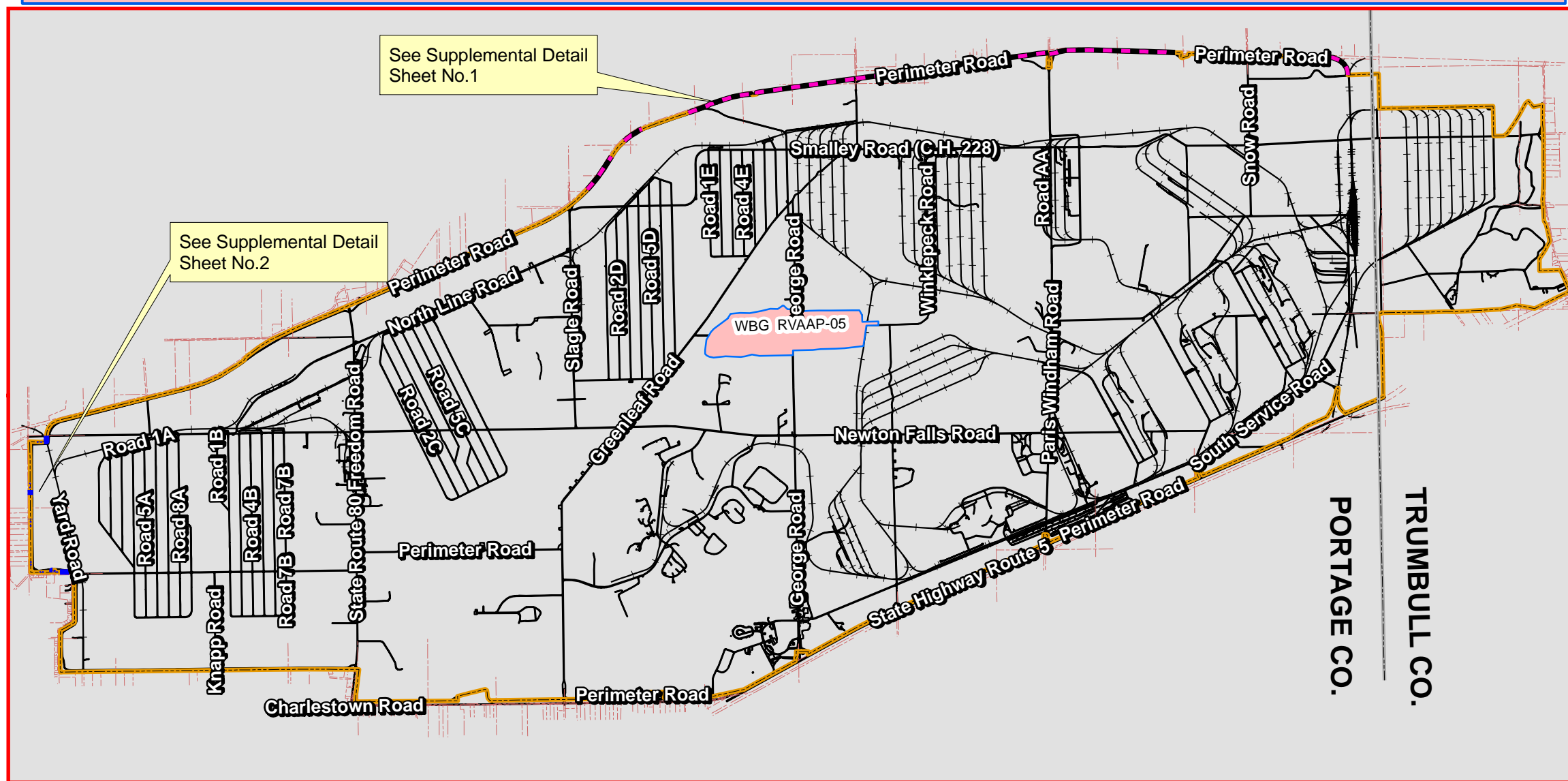
**Supplemental Detail Sheets**

**Camp Ravenna Fence Repair Log**

**Supplemental Index Map No. 1**  
**Supplemental Detail Sheets**



WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 2nd Qtr. FY 2014

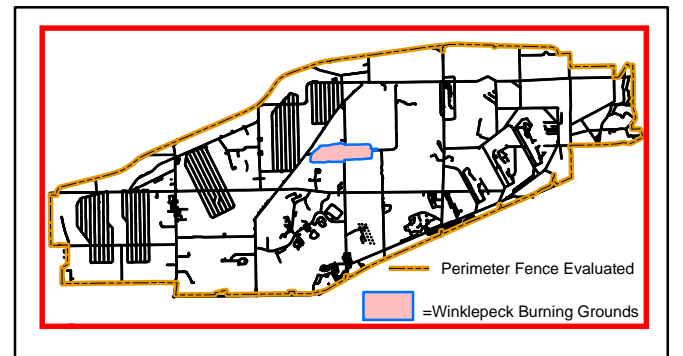


**SUPPLEMENTAL INDEX MAP NO. 1 TO FACILITY PERIMETER FENCE INSPECTION**

**THIS MAP DEPICTS REPAIRS AND IMPROVEMENTS ALONG THE PERIMETER FENCE THAT ARE IN PROGRESS**

- This line type symbol represents new barb wire currently being installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. See Supplemental Detail Sheet No.2
- This line type symbol represents new chain link fence fabric currently being installed by OHARNG contractors. See Supplemental Detail Sheet No.1
- Perimeter Fence Evaluated (29.8 miles)

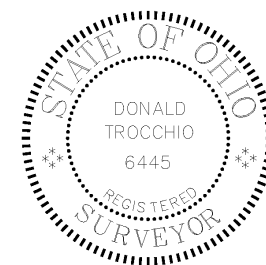
**Camp Ravenna  
Joint Military Training Center**



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



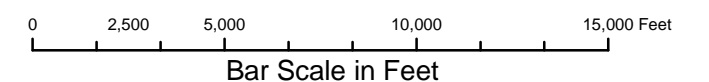
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



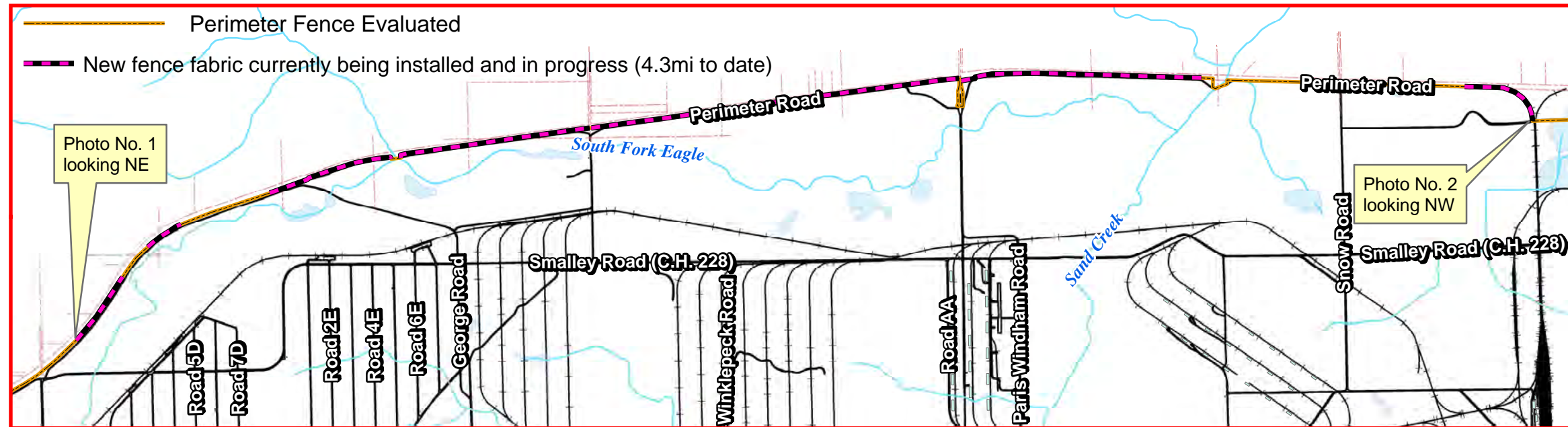
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

**SUPPLEMENTAL INDEX MAP NO.1**



# SUPPLEMENTAL DETAIL SHEET NO.1



## LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

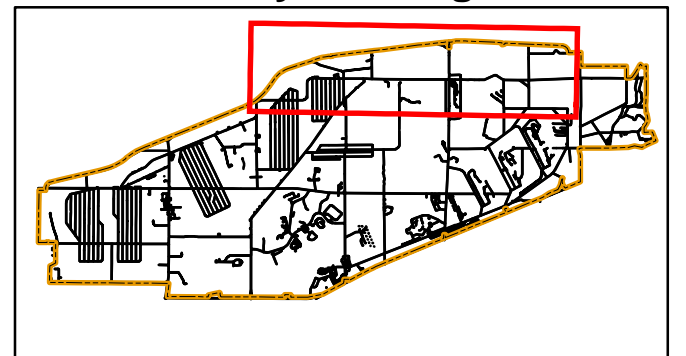
PHOTO NO.1 02/25/2014



PHOTO No.2 03/03/2014



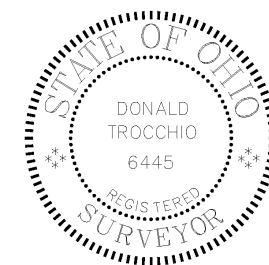
### Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



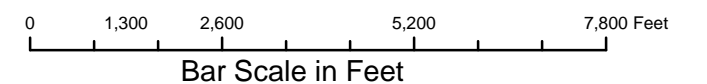
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

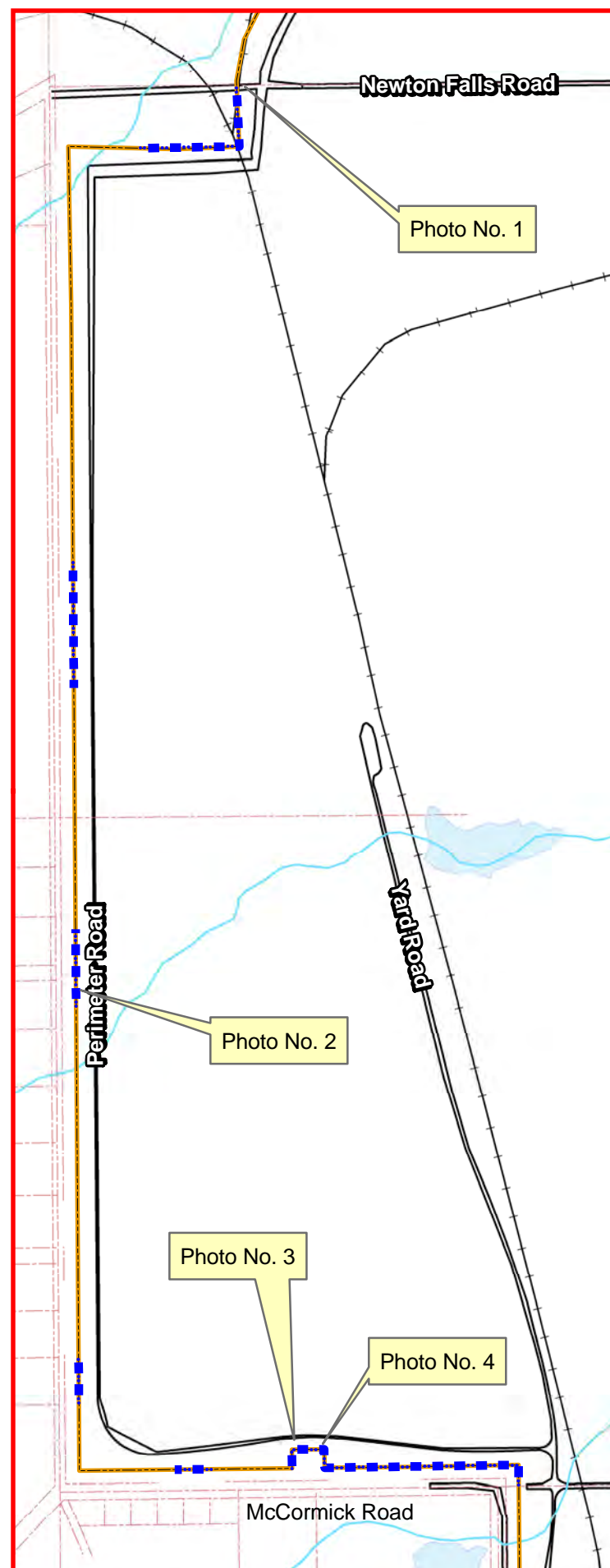


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.1





# SUPPLEMENTAL DETAIL SHEET NO.2

## LAND USE CONTROL (LUC) INSPECTION

### PERIMETER FENCE INSPECTION

#### 2nd QUARTER FY2014

PHOTO NO.1 02/25/2014




PHOTO NO.3 02/25/2014



PHOTO No.2 03/03/2014

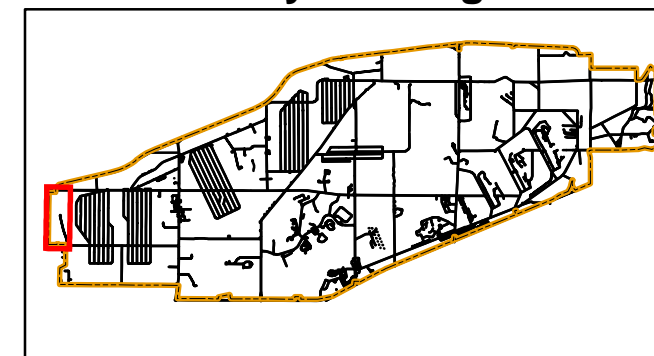


PHOTO NO.4 02/25/2014

 This line type symbol represents new barb wire that has been installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. About 4500' of barb wire was replaced in this area.

 Perimeter Fence Evaluated

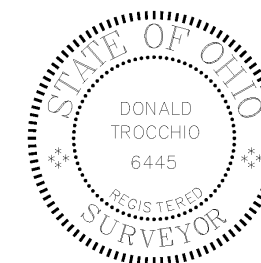
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



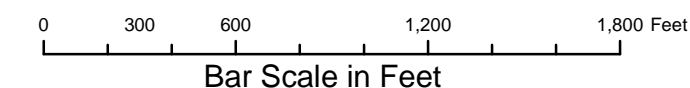
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.2

## **Camp Ravenna Fence Repair Log**



[illegible][illegible]

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## **Appendix E**

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### **Final FY 2014 Third Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds**

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**Final**  
**FY 2014 Third Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Former Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

*Prepared for:*



U.S. Army Corps of Engineers  
Louisville District

*Prepared by:*



**October 8, 2014**

**Final**  
**FY 2014 Third Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Former Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



U.S. Army Corps of Engineers  
Louisville District

***Prepared by:***



**October 8, 2014**



## **LIST OF ACRONYMS AND ABBREVIATIONS**

|              |  |
|--------------|--|
| AOC          | Area of Concern                                    |
| bgs          | Below Ground Surface                               |
| Camp Ravenna | Camp Ravenna Joint Military Training Center        |
| EQM          | Environmental Quality Management, Inc.             |
| FWGWMPP      | Facility-Wide Ground Water Monitoring Program Plan |
| FWSAP        | Facility-Wide Sampling and Analysis Plan           |
| IRP          | Installation Restoration Program                   |
| LUC          | Land Use Control                                   |
| MEC          | Munitions and Explosives of Concern                |
| MRS          | Munitions Response Site                            |
| MSG          | Master Sergeant                                    |
| Ohio EPA     | Ohio Environmental Protection Agency               |
| OHARNG       | Ohio Army National Guard                           |
| PS           | Professional Surveyor                              |
| PMP          | Property Management Plan                           |
| RVAAP        | Ravenna Army Ammunition Plant                      |
| SOP          | Standard Operating Procedure                       |
| UXO          | Unexploded Ordnance                                |
| WBG          | Winklepeck Burning Grounds                         |

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /  
Former Ravenna Army Ammunition Plant (RVAAP)  
Quarterly Land Use Control (LUC) Inspection Form  
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on April 14, 15, 16, 17, 21 & 22, 2014.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark 19 Grenade Machinegun Range is prohibited with the following exceptions:
  - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
  - Ground surface repairs by authorized range personnel in support of authorized range activities;
  - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
  1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
  2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.



## **Review of LUCs – Management/Effectiveness/Corrective Action**

### **1. AOC Map**

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on April 14, 2014 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

### **2. Camp Ravenna Perimeter Fence**

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. Two fence repair contracts that began in October 2013 have repaired several large sections of the perimeter fence. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 is currently being replaced. Also in February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail sheet No. 2 (Attachment 2). These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

### **3. Activities and Land Use**

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on April 16, 2014 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

Winklepeck Burning Grounds/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on April 16, 2014, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter are scheduled for May 2014.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

|   |
|---|
| <ol style="list-style-type: none"><li>1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.</li><li>2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.</li></ol> <p>f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?</p> <p>Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on April 24, 2014 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide static water levels event took place May 6, 2014. The next scheduled FWGWMPP sampling event is scheduled for July 2014.</p>     |
| <p><b>4. Inspections and Reporting</b></p> <p>a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?</p> <p>This is the third Quarterly Inspection to be conducted for FY 2014. All Quarterly Inspections for FY 2013 and FY 2014 (to date) were conducted in accordance with the approved PMP dated August 2012.</p> <p>b.) An annual report is required. Has the annual report been completed and submitted?</p> <p>The annual report for FY 2014 will be prepared and submitted once all FY 2014 Quarterly Inspections and Reports are completed and approved. The annual report for FY 2013 will be submitted once Ohio EPA approval of the Final 4<sup>th</sup> Quarter FY 2013 LUC Report is received. The FY 2013 Annual Report is currently scheduled to be submitted in July 2014.</p>  |
| <p><b>5. Training (as applicable to WBG)</b></p> <p>a.) Was LUC training (specific to Winklepeck) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).</p> <p>LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for Winklepeck. Using units also receive an in brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office.</p> <p>b.) If training was not provided, explain why and what corrective actions were initiated?</p> <p>N/A</p> |
| <p><b>6. Description of any observed/noted LUC violation(s):</b></p> <p>The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.</p>   |



**7. Date of Notification of LUC violation (if applicable):**

The Army was notified via e-mail on April 15 and 23, 2014 of two new fence defects discovered during the 3<sup>rd</sup> Quarter FY 2014 facility perimeter fence evaluation.

**8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:**

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired since the last inspection. Additionally, a repair log is provided in Attachment 2 which documents repairs completed by the OHARNG maintenance staff by the end of June 2014.

Attachment 2 also shows fence repairs that have been contracted and began in October 2013 and February 2014. Supplemental Detail Sheet No. 1 (Attachment 2) shows a large section of fence (posts and fabric) is currently being replaced on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34. In February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail sheet No. 2 (Attachment 2). These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

**9. Additional Notes/Comments:**

See also Supplemental Detail Sheets 1 and 3 (Attachment 2) regarding replacement of no trespassing signage along the perimeter fence.

**Original Inspection Completed by:**

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: April 24, 2014

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**Quarterly Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 1**

**Figure 1 Index Map**

**Summary Table**

**Detailed Quadrant Maps**



## **Index Map**

| Callout | Date       | Path to Photo Location                 | Comments  | Nothing | Eastwing | Path to Repair Photo                   | Callout |
|---------|------------|--|---|---------|----------|--|---------|
| NW08    | 07/18/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections (swampy)                    | 567746  | 2349644  |  | NW08    |
| SW01    | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   | 549403  | 2360408  |  | SW01    |
| SW12    | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | stern washout about 2 sections inlet needs cleared        | 552357  | 2330086  |  | SW12    |
| SW14    | 04/14/2014 | c:\My Documents\My ArcPad\P1010379.JPG | poacher hole in fence                                     | 549386  | 2334237  |  | SW14    |
| SE02    | 02/13/2013 | c:\My Documents\My ArcPad\P1010353.JPG | washout...worse now 7.18.2013                             | 551498  | 2361141  |  | SE02    |
| SE04    | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on z-27-14 0271 photo            | 558980  | 2377933  |  | SE04    |
| SE05    | 04/22/2014 | c:\My Documents\My ArcPad\P1010402.JPG | washout below undamaged fence                             | 550299  | 2358851  |  | SE05    |
| SW05    | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   | 559954  | 2333158  | c:\My Documents\My ArcPad\P1010256.JPG | SW05    |
| SW07    | 02/12/2013 | c:\My Documents\My ArcPad\P1010076.JPG | apx 100 ft of fabric missing                              | 561189  | 2336373  | c:\My Documents\My ArcPad\P1010257.JPG | SW07    |
| SW08    | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   | 561285  | 2336529  | c:\My Documents\My ArcPad\P1010258.JPG | SW08    |
| SW09    | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   | 561395  | 2336638  | c:\My Documents\My ArcPad\P1010259.JPG | SW09    |
| SW10    | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   | 548427  | 2354836  | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11    | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            | 548333  | 2354108  | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13    | 11/18/2013 | c:\My Documents\My ArcPad\P1010205.JPG | hole at bottom of fence                                   | 552891  | 2330038  | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
| NE05    | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   | 571091  | 2384743  | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19    | 07/17/2013 | c:\My Documents\My ArcPad\P1010222.JPG | hole next to post near bottom                             | 570600  | 2384750  | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20    | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     | 570080  | 2386673  | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21    | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   | 572732  | 2364028  | c:\My Documents\My ArcPad\P1010354.JPG | NE21    |
| NE23    | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  | 563209  | 2385312  | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
| NW09    | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   | 569396  | 2350885  | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10    | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | cut hole in fence   | 571046  | 2354186  | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
| SE03    | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   | 562592  | 2380413  | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |
| NE06    | 03/03/2014 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   | 570126  | 2384759  | c:\My Documents\My ArcPad\P1010369.JPG | NE06    |
| NE18    | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base | 573035  | 2372897  | c:\My Documents\My ArcPad\P1010387.JPG | NE18    |
| NE22    | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | ventilated section of secured fence at base               | 569203  | 2386688  | c:\My Documents\My ArcPad\P1010399.JPG | NE22    |
| NE24    | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     | 572341  | 2379439  | c:\My Documents\My ArcPad\P1010391.JPG | NE24    |
| NE25    | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | hole in fence   | 571059  | 2380588  | c:\My Documents\My ArcPad\P1010392.JPG | NE25    |
| NE26    | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   | 571062  | 2380862  | c:\My Documents\My ArcPad\P1010393.JPG | NE26    |
| NE27    | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   | 571068  | 2381194  | c:\My Documents\My ArcPad\P1010394.JPG | NE27    |
| NE28    | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   | 571112  | 2383373  | c:\My Documents\My ArcPad\P1010395.JPG | NE28    |
| NE29    | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   | 570046  | 2384741  | c:\My Documents\My ArcPad\P1010398.JPG | NE29    |
|         |            | REPAIRED 1ST QTR                       |   |         |          |  |         |
|         |            | REPAIRED 2ND QTR                       |   |         |          |  |         |
|         |            | REPAIRED 3RD QTR                       |   |         |          |  |         |



## **Summary Table**

## SUMMARY TABLE

| Camp Ravenna Joint Military Training Center 3rd Qtr FY2014 LUC Inspection Summary Table |            |  |   | US Survey Ft |         |  |         |
|---|------------|--|---|--------------|---------|--|---------|
| Callout   | Date       | Path to Photo Location                 | Comments  | Northing     | Easting | Path to Repair Photo                   | Callout |
| NW08  | 07/16/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections(swampy)                     | 567746       | 2349644 |  | NW08    |
| SW01  | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   | 549403       | 2336048 |  | SW01    |
| SW12  | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | storm washout about 2 sections inlet needs cleared        | 552357       | 2330086 |  | SW12    |
| SW14  | 04/14/2014 | c:\My Documents\My ArcPad\P1010379.JPG | poacher hole in fence                                     | 549386       | 2334237 |  | SW14    |
| SE02  | 02/13/2013 | c:\My Documents\My ArcPad\P1010353.JPG | washout...worse now 7.18.2013                             | 551498       | 2361141 |  | SE02    |
| SE04  | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on 2-27-14 0271 photo            | 558980       | 2377933 |  | SE04    |
| SE05  | 04/22/2014 | c:\My Documents\My ArcPad\P1010402.JPG | washout below undamaged fence                             | 550299       | 2358851 |  | SE05    |
| SW05  | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   | 559954       | 2333158 | c:\My Documents\My ArcPad\P1010256.JPG | SW05    |
| SW07  | 02/12/2013 | c:\My Documents\My ArcPad\P1010076.JPG | apx 100 ft of fabric missing                              | 561189       | 2336373 | c:\My Documents\My ArcPad\P1010257.JPG | SW07    |
| SW08  | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   | 561285       | 2336529 | c:\My Documents\My ArcPad\P1010258.JPG | SW08    |
| SW09  | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   | 561395       | 2336638 | c:\My Documents\My ArcPad\P1010259.JPG | SW09    |
| SW10  | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   | 548427       | 2354836 | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11  | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            | 548333       | 2354108 | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13  | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG | hole at bottom of fence                                   | 552891       | 2330038 | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
| NE05  | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   | 571090       | 2384743 | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19  | 07/17/2013 | c:\My Documents\My ArcPad\P1010220.JPG | hole next to post near bottom                             | 570600       | 2384750 | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20  | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     | 570080       | 2386673 | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21  | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   | 572732       | 2364028 | c:\My Documents\My ArcPad\P1010354.JPG | NE21    |
| NE23  | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  | 563209       | 2383312 | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
| NW09  | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   | 569396       | 2350885 | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10  | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | cut hole in fence   | 571046       | 2354186 | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
| SE03  | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   | 562592       | 2380413 | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |
| NE06  | 03/03/2014 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   | 570126       | 2384759 | c:\My Documents\My ArcPad\P1010397.JPG | NE06    |
| NE18  | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base | 573035       | 2372897 | c:\My Documents\My ArcPad\P1010389.JPG | NE18    |
| NE22  | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | vandalized section of secluded fence at base              | 566933       | 2386688 | c:\My Documents\My ArcPad\P1010399.JPG | NE22    |
| NE24  | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     | 572341       | 2379439 | c:\My Documents\My ArcPad\P1010391.JPG | NE24    |
| NE25  | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | hole in fence   | 571059       | 2380588 | c:\My Documents\My ArcPad\P1010392.JPG | NE25    |
| NE26  | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   | 571062       | 2380862 | c:\My Documents\My ArcPad\P1010393.JPG | NE26    |
| NE27  | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   | 571068       | 2381194 | c:\My Documents\My ArcPad\P1010394.JPG | NE27    |
| NE28  | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   | 571112       | 2383373 | c:\My Documents\My ArcPad\P1010395.JPG | NE28    |
| NE29  | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   | 570046       | 2384741 | c:\My Documents\My ArcPad\P1010398.JPG | NE29    |

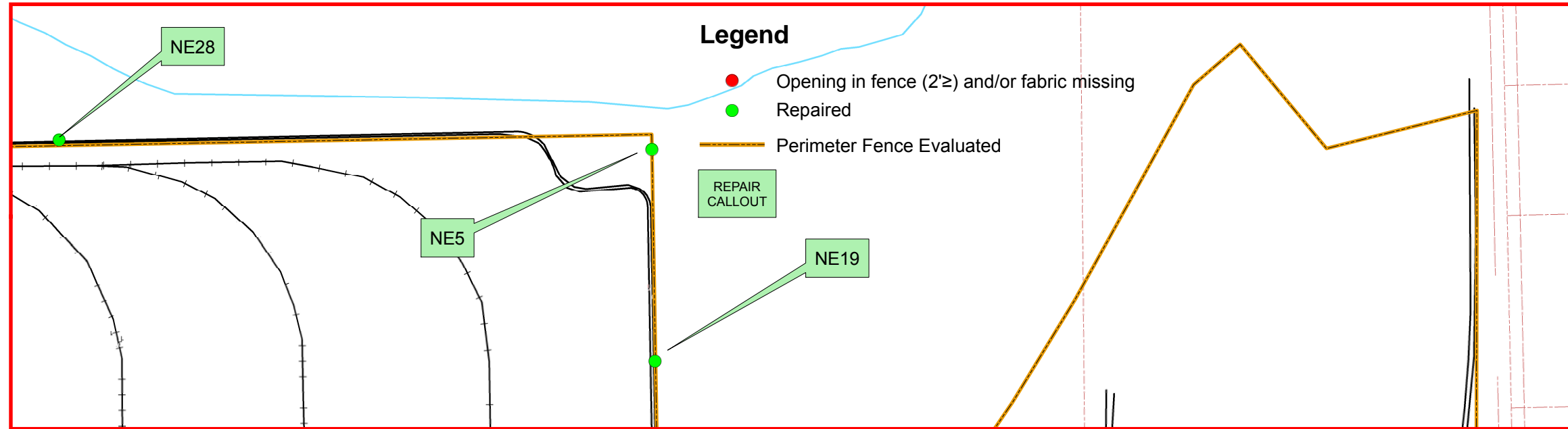
|                  |
|------------------|
| REPAIRED 1ST QTR |
| REPAIRED 2ND QTR |
| REPAIRED 3RD QTR |



## **NE (Northeast) Quadrant**



## DETAIL SHEET FOR NE5



# LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

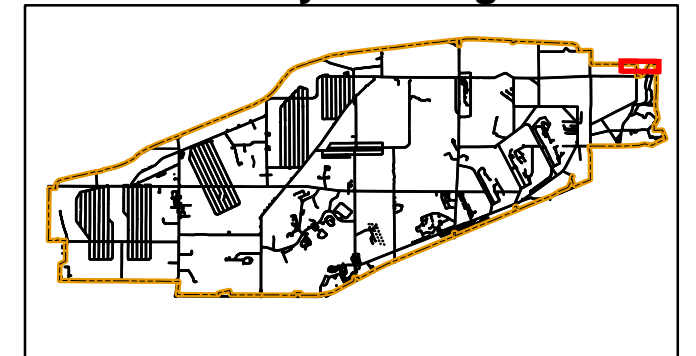
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PHOTO NE5 discovered 02/13/2013



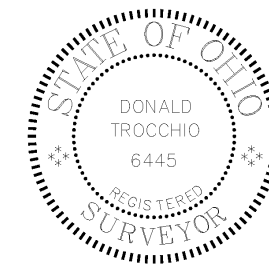
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



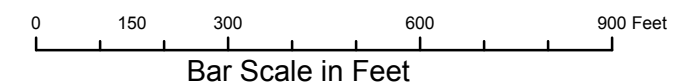
**US Army Corps of  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

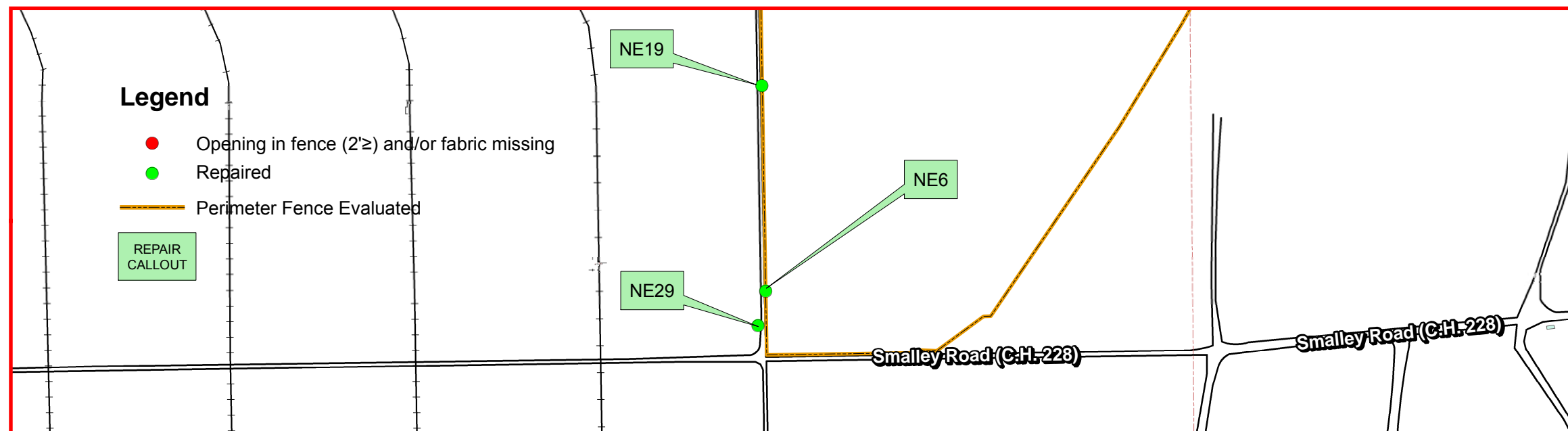


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don.trocchio@us.army.mil  
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DETAIL SHEET FOR NE5



## DETAIL SHEET FOR NE6



## LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

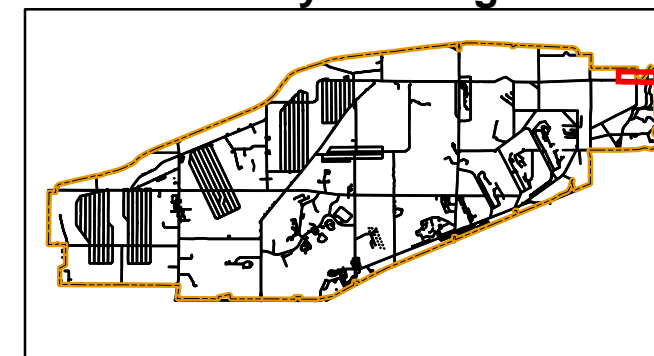
PHOTO NE6 repaired 04/17/2014



PHOTO NE6 discovered 03/03/2014



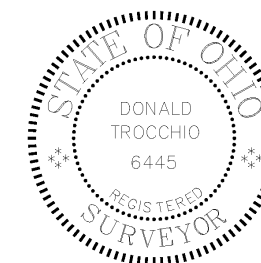
## Camp Ravenna Joint Military Training Center



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**LOCATOR MAP**



Ohio Army National Guard



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0 150 300 600 900 Feet  
Bar Scale in Feet

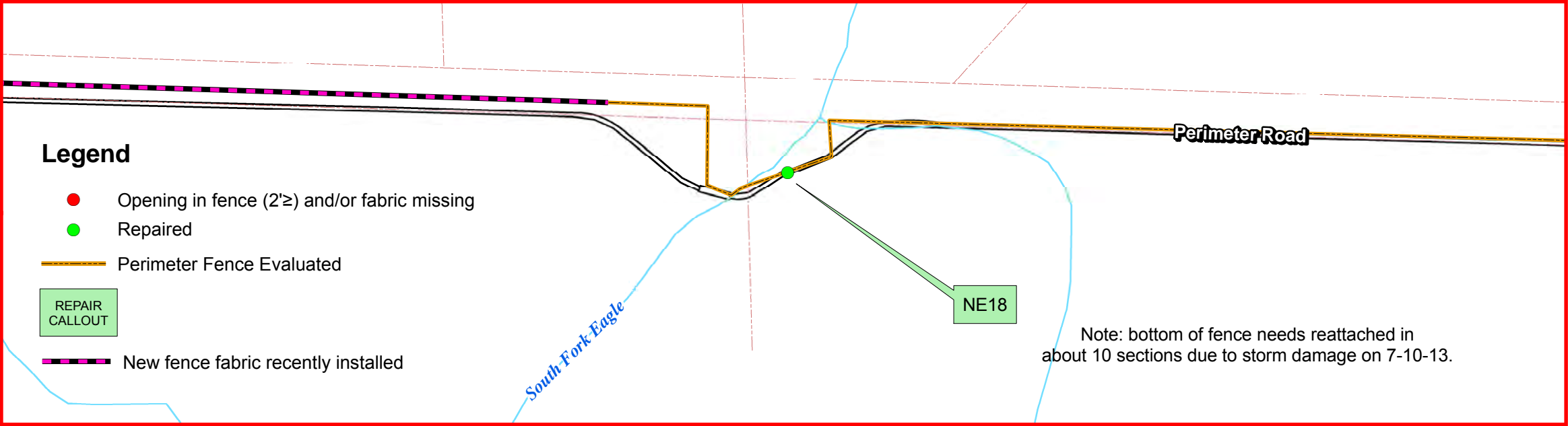


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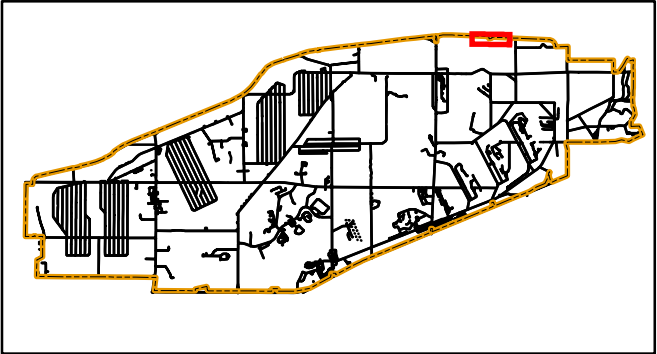
DETAIL SHEET FOR NE6



DETAIL SHEET FOR NE18



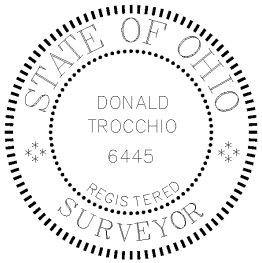
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**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE18 repaired 04/17/2014



PHOTO NE18 discovered 07/17/2013



Produced in April 2014 for:



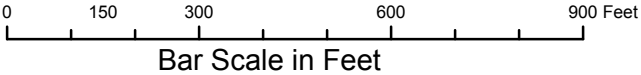
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Projection Datum is NAD83, Ohio State  
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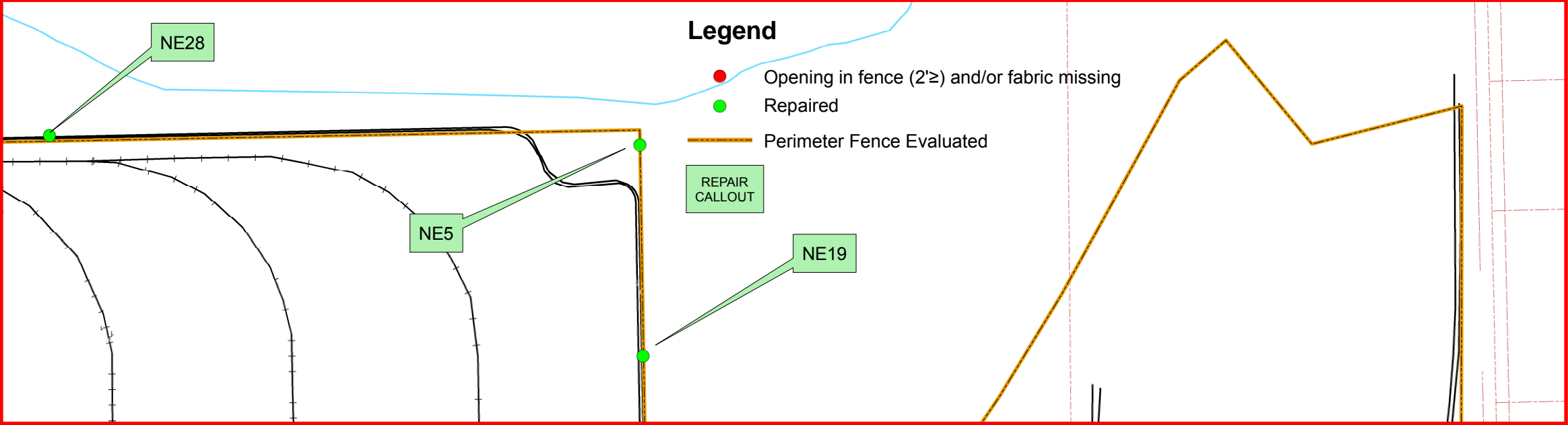
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DETAIL SHEET FOR NE18



DETAIL SHEET FOR NE19

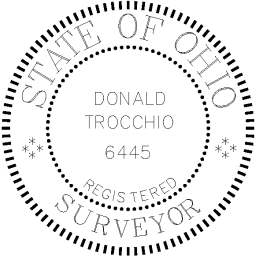
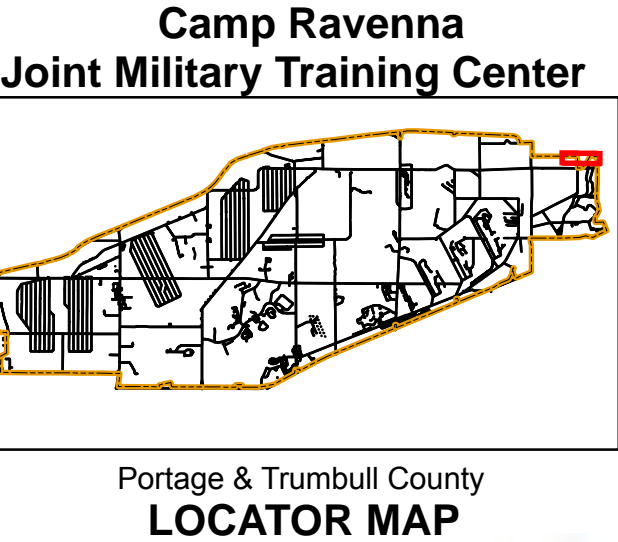


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE19 repair 03/03/2014



PHOTO NE19 discovered 07/17/2013



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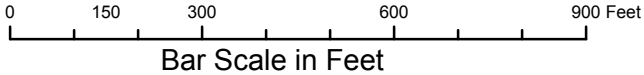


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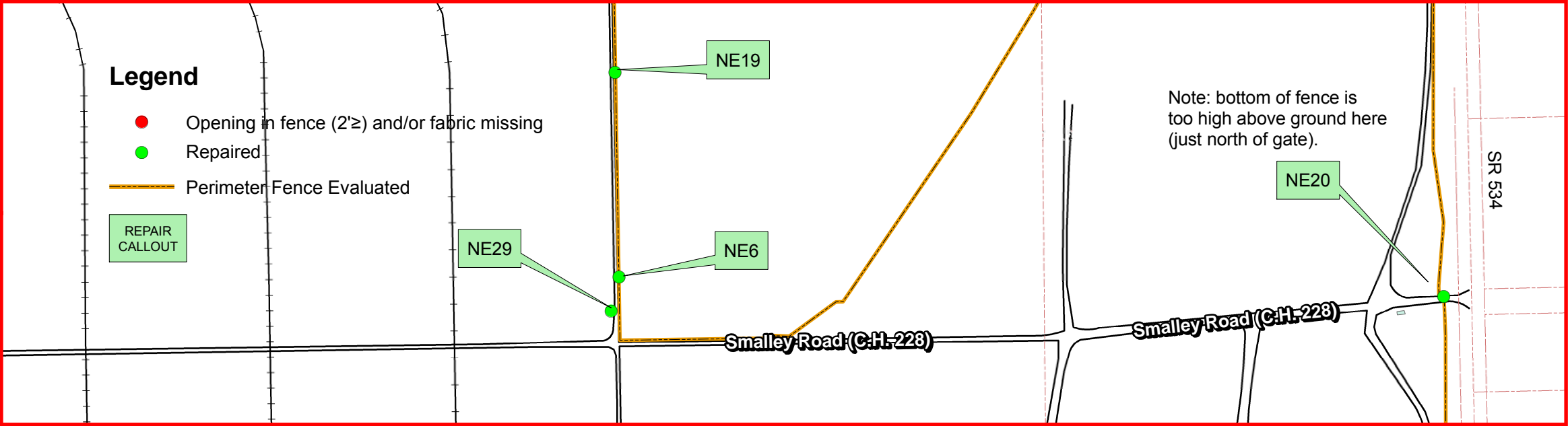


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DETAIL SHEET FOR NE19



DETAIL SHEET FOR NE20



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

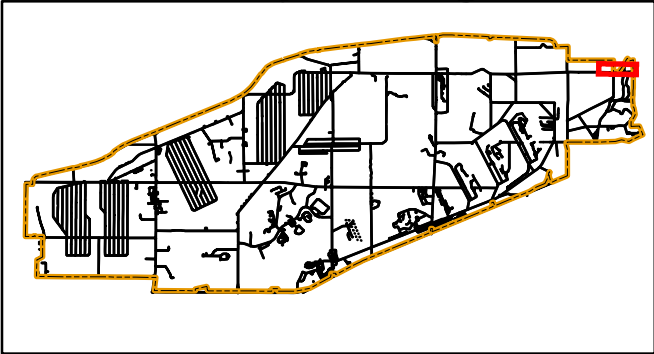
PHOTO NE20 repair 03/05/2014



PHOTO NE20 discovered 07/18/2013



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Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



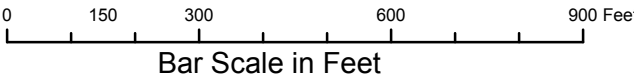
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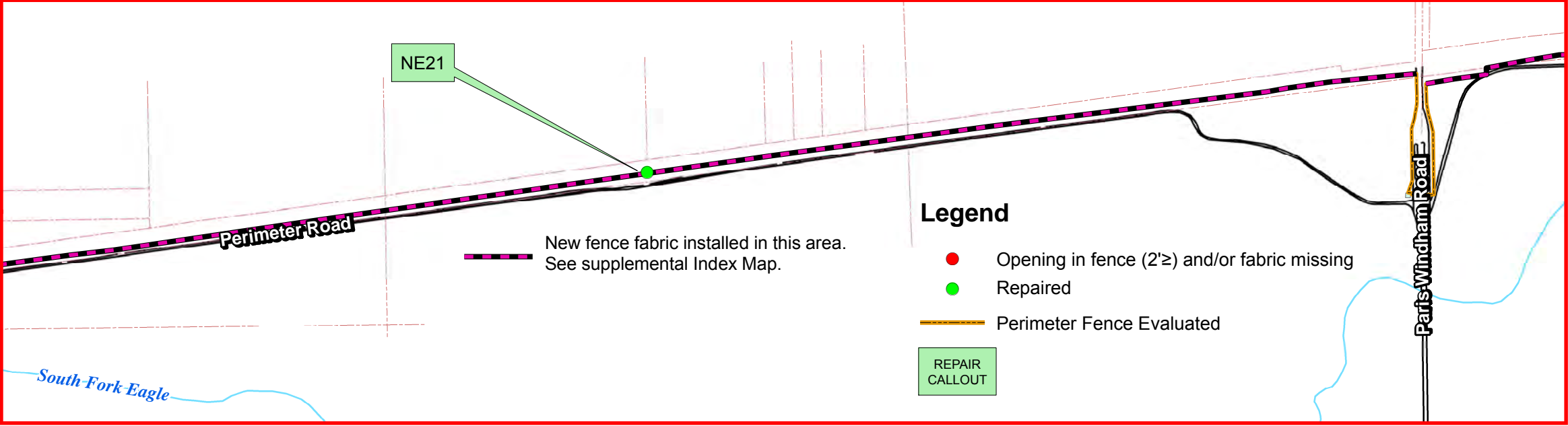


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DETAIL SHEET FOR NE20



DETAIL SHEET FOR NE21



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

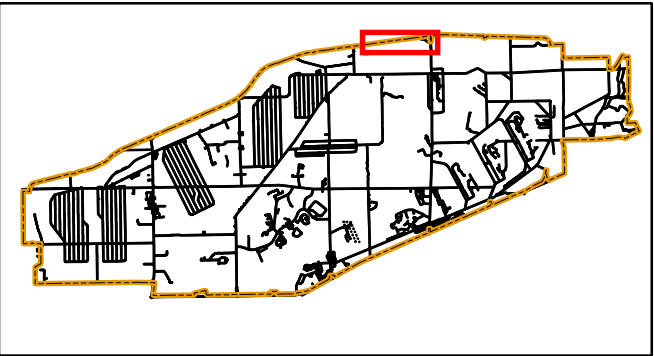
PHOTO NE21 repair 03/03/2014



PHOTO NE21 discovered 11/21/2013



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**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



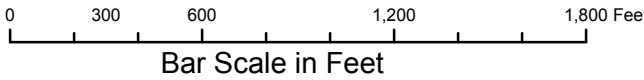
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DETAIL SHEET FOR NE21



DETAIL SHEET FOR NE22



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

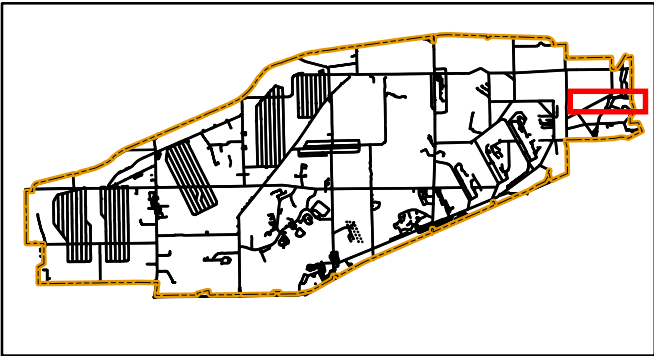
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PHOTO NE22 discovered 11/25/2013



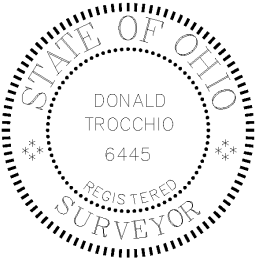
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Ohio Army National Guard



Produced in April 2014 for:



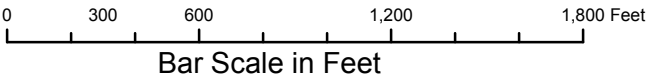
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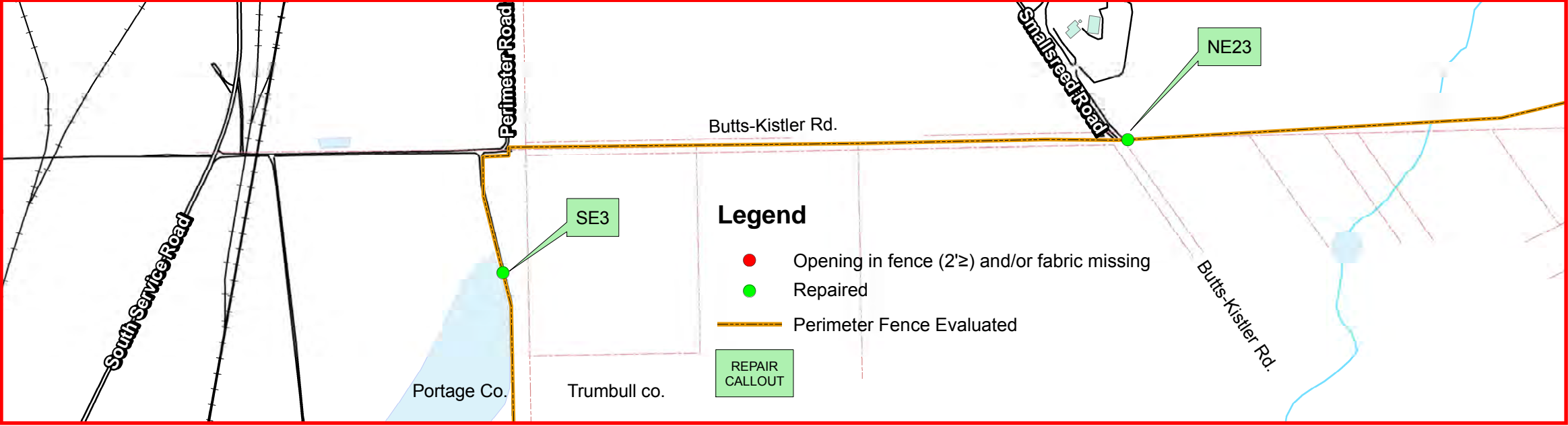
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DETAIL SHEET FOR NE22



DETAIL SHEET FOR NE23



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

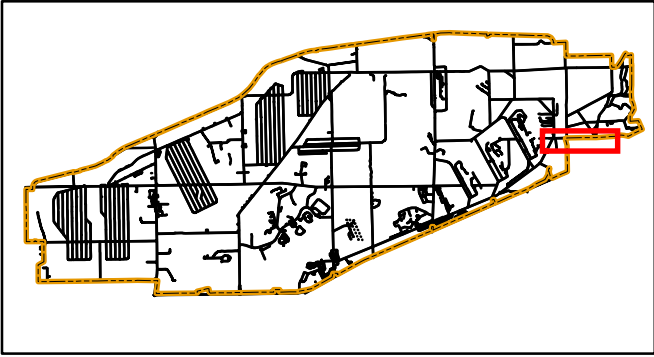
PHOTO NE23 repair 03/05/2014



PHOTO NE23 discovered 11/25/2013



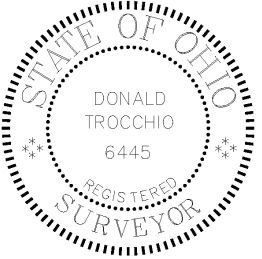
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**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



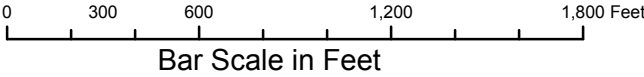
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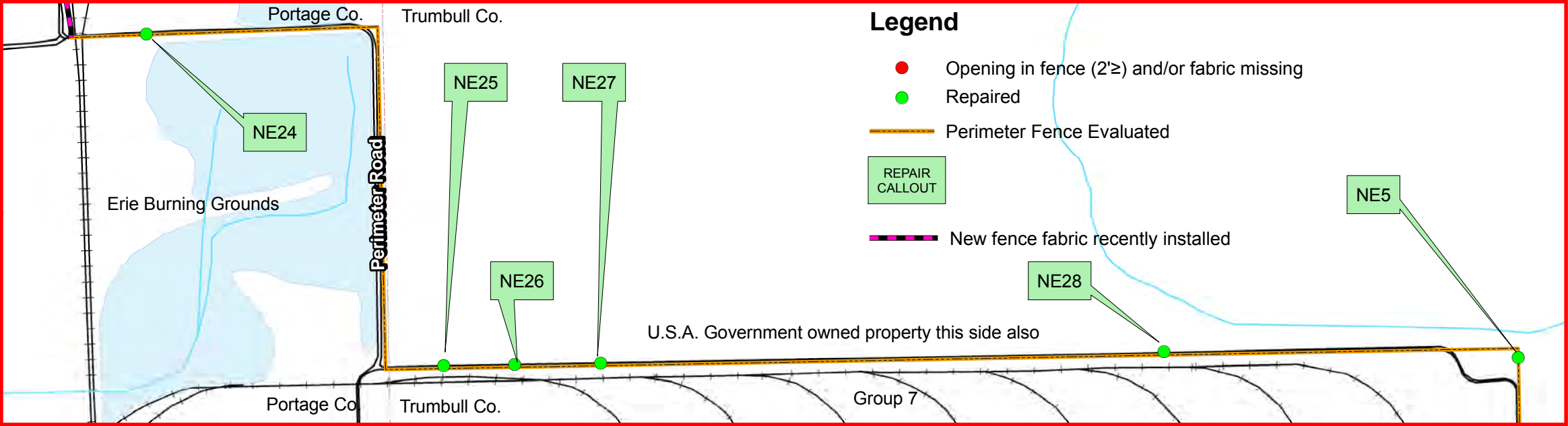
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE23



DETAIL SHEET FOR NE24



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

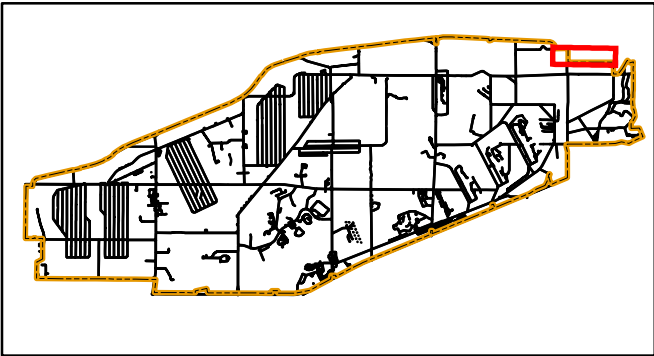
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PHOTO NE24 discovered 03/03/2014



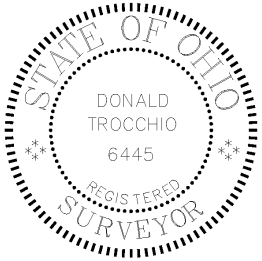
Camp Ravenna  
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Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



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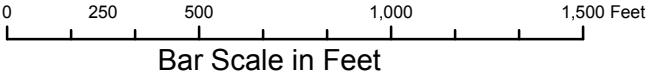
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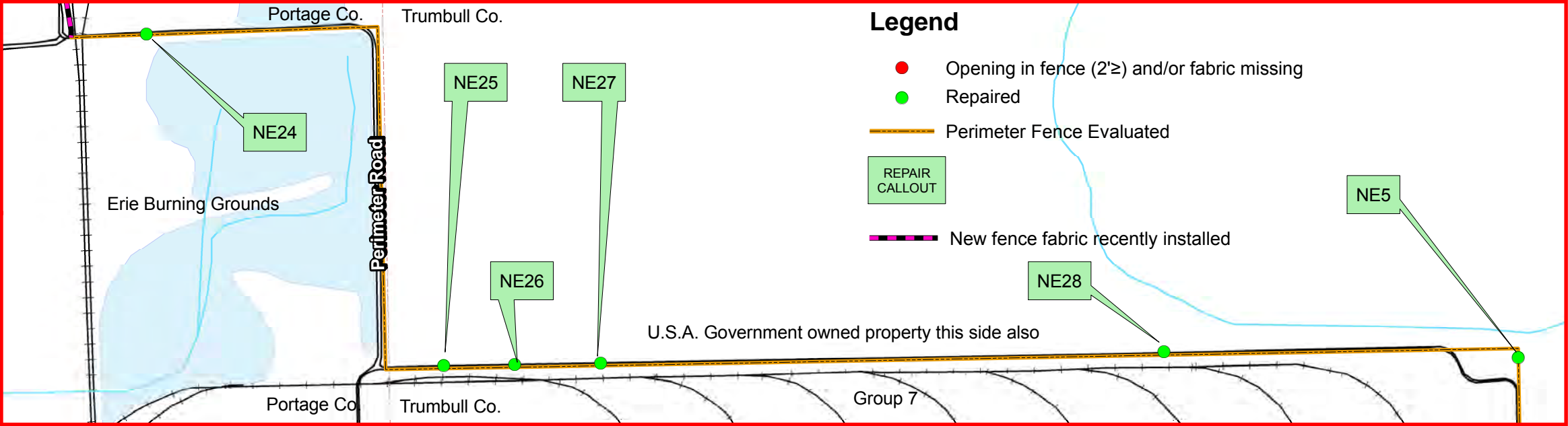
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MGRS 17T NF01946150 (NAD83)

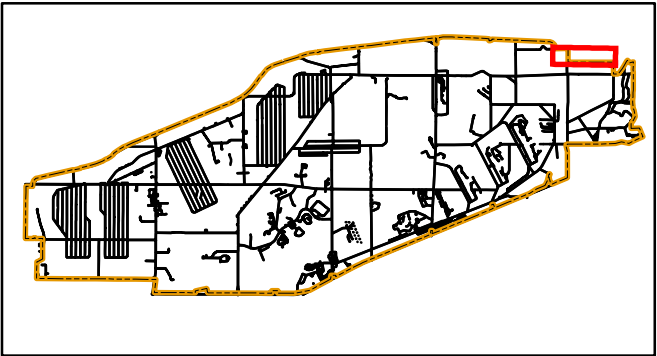
DETAIL SHEET FOR NE24



DETAIL SHEET FOR NE25



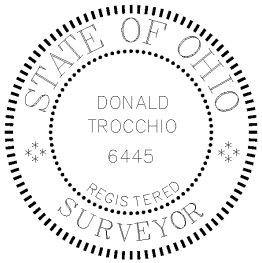
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LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE25 repaired 04/17/2014



PHOTO NE25 discovered 03/03/2014



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0 250 500 1,000 1,500 Feet  
Bar Scale in Feet



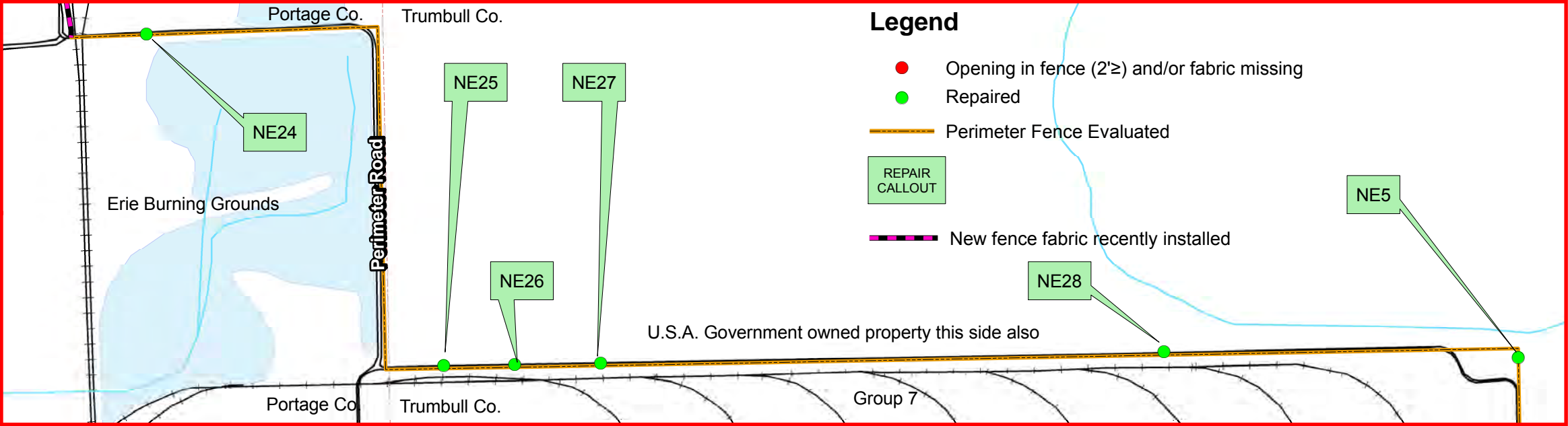
Camp Ravenna JMTC  
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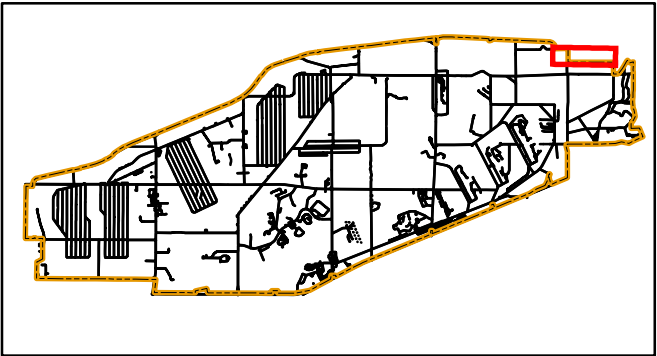
DETAIL SHEET FOR NE25



DETAIL SHEET FOR NE26



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**LOCATOR MAP**



Ohio Army National Guard

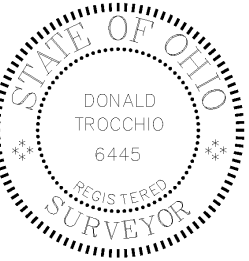


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE26 repaired 04/17/2014



PHOTO NE26 discovered 03/03/2014



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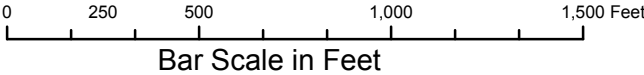
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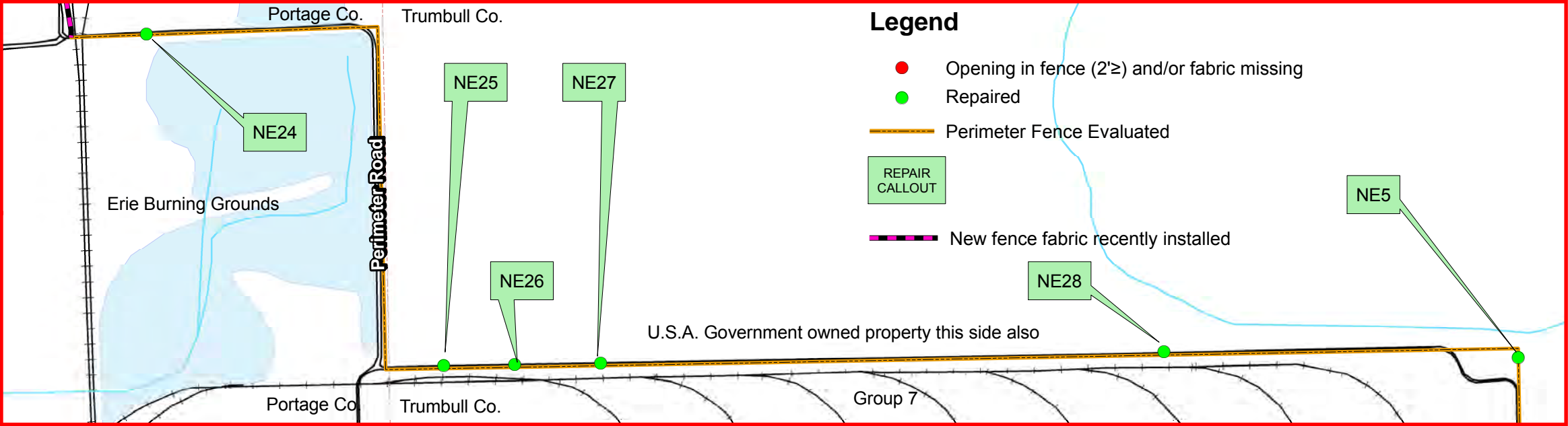
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

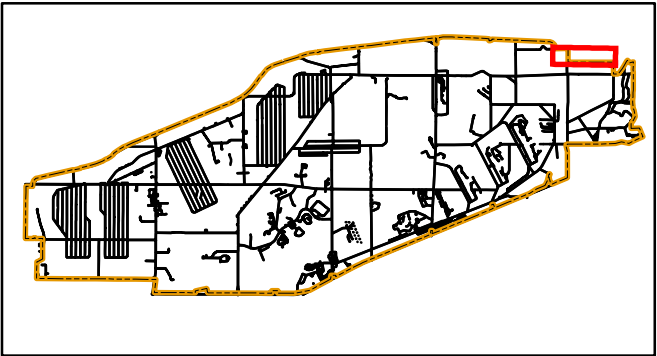
DETAIL SHEET FOR NE26



DETAIL SHEET FOR NE27



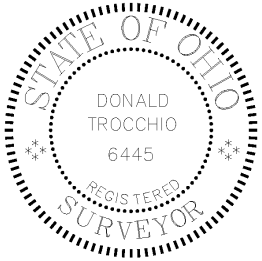
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Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE27 repaired 04/17/2014



PHOTO NE27 discovered 03/03/2014



Produced in April 2014 for:



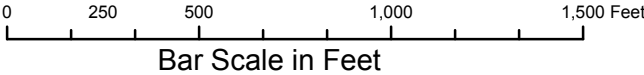
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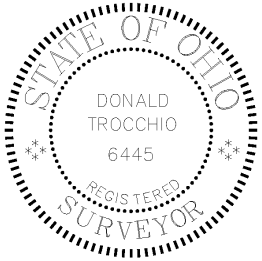
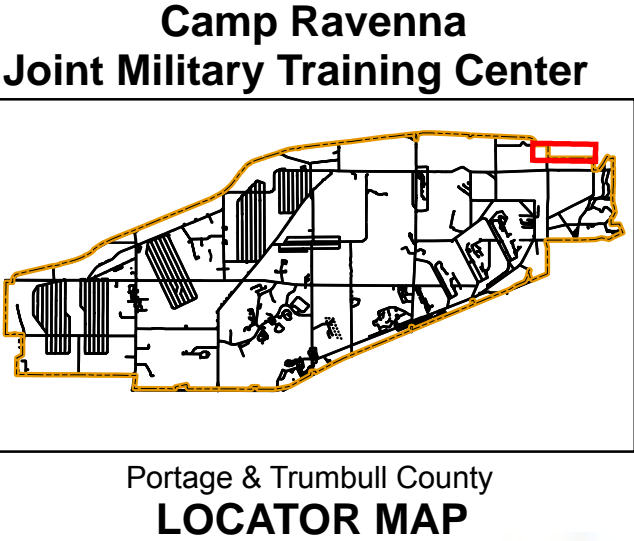
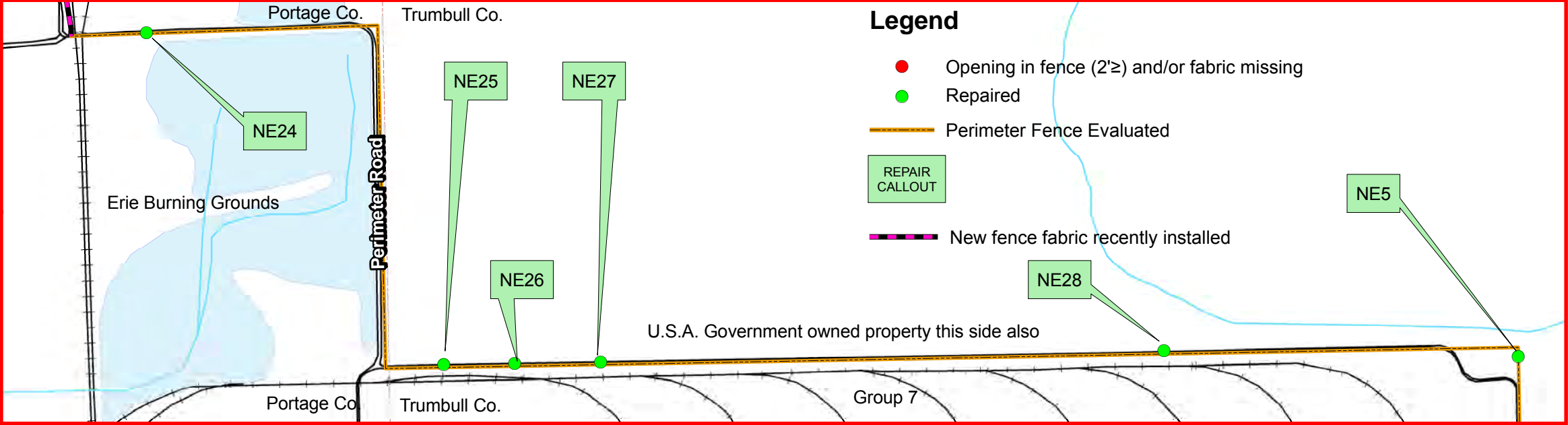
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE27



DETAIL SHEET FOR NE28



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE28 repaired 04/17/2014



PHOTO NE28 discovered 03/03/2014



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0 250 500 1,000 1,500 Feet  
Bar Scale in Feet



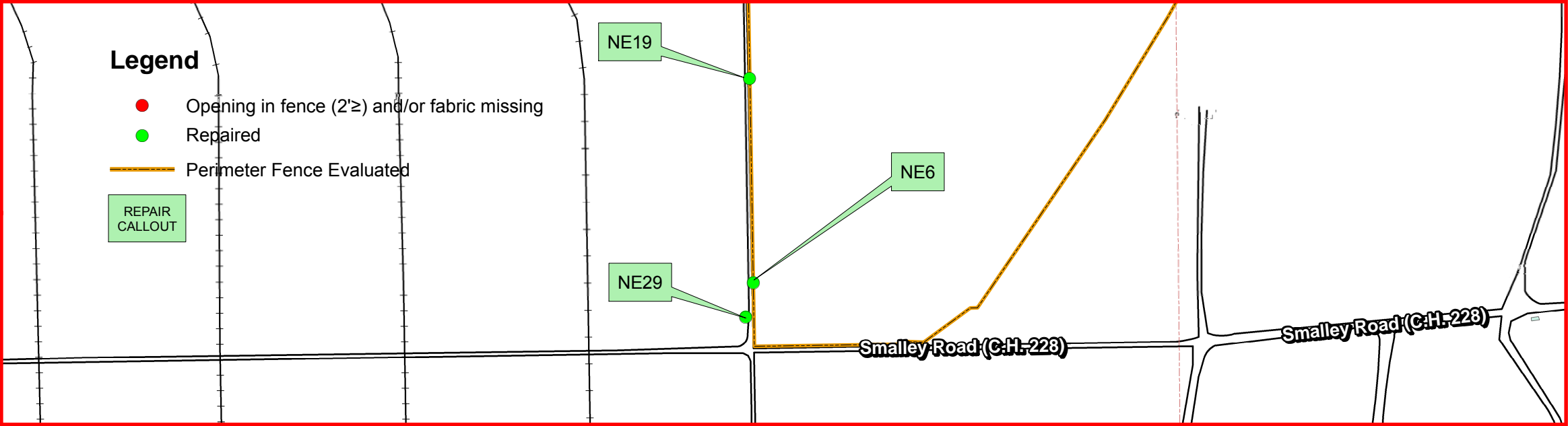
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DETAIL SHEET FOR NE28



DETAIL SHEET FOR NE29



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

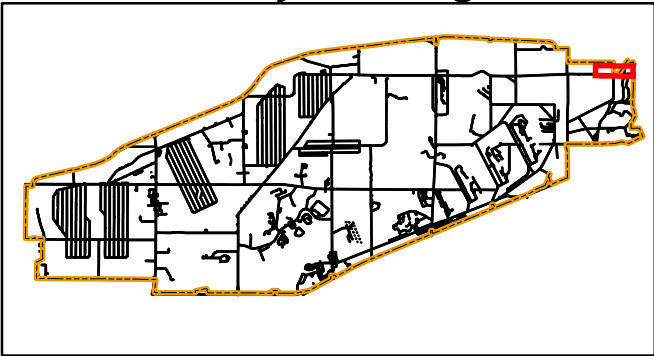
PHOTO NE29 repaired 04/17/2014



PHOTO NE29 discovered 03/05/2014



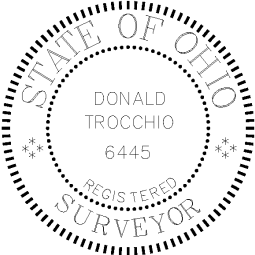
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Portage & Trumbull County  
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Ohio Army National Guard



Produced in April 2014 for:



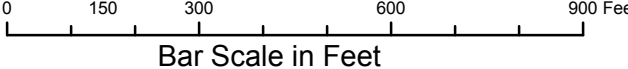
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

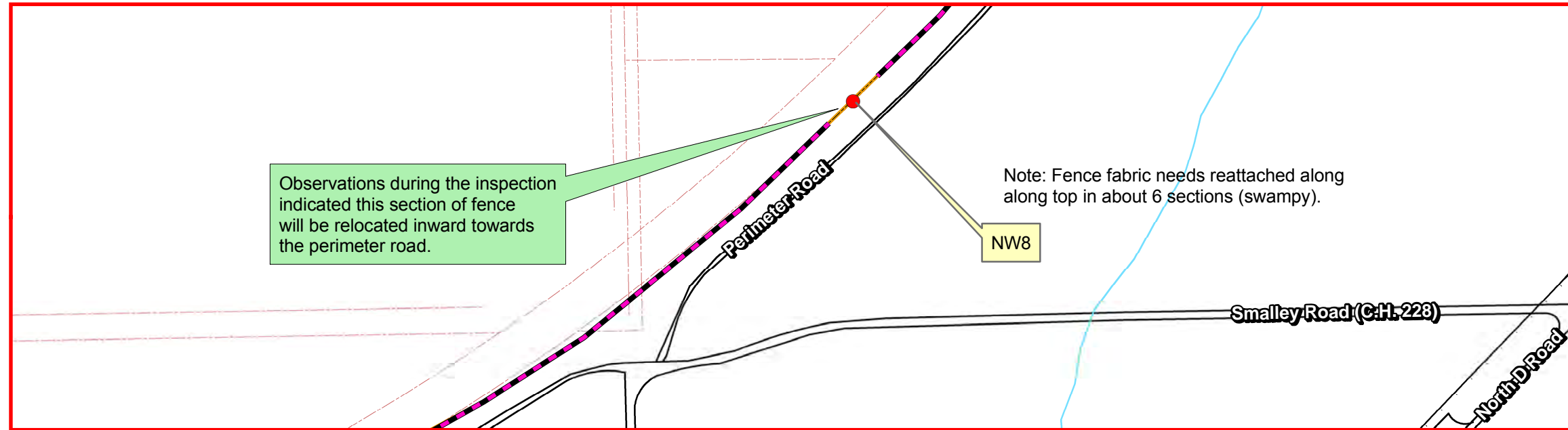
DETAIL SHEET FOR NE29



## **NW (Northwest) Quadrant**



## DETAIL SHEET FOR NW8



# LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

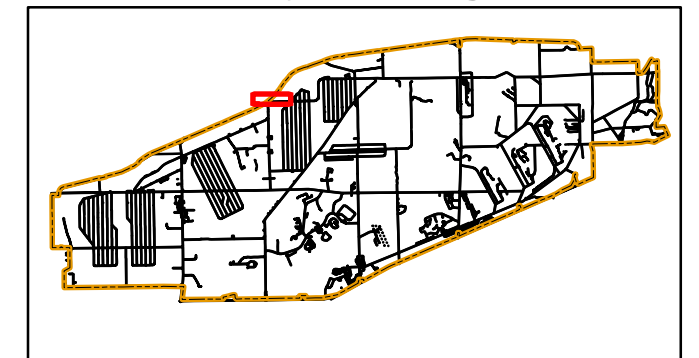
PHOTO NW8 discovered 07/16/2013

## Legend

- Opening in fence (2'±) and/or fabric missing
- Perimeter Fence Evaluated
- new fence fabric installed



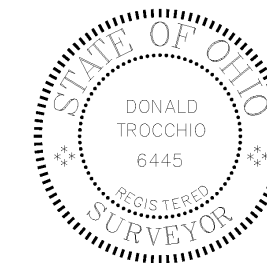
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 150 300 600 900 Feet  
Bar Scale in Feet



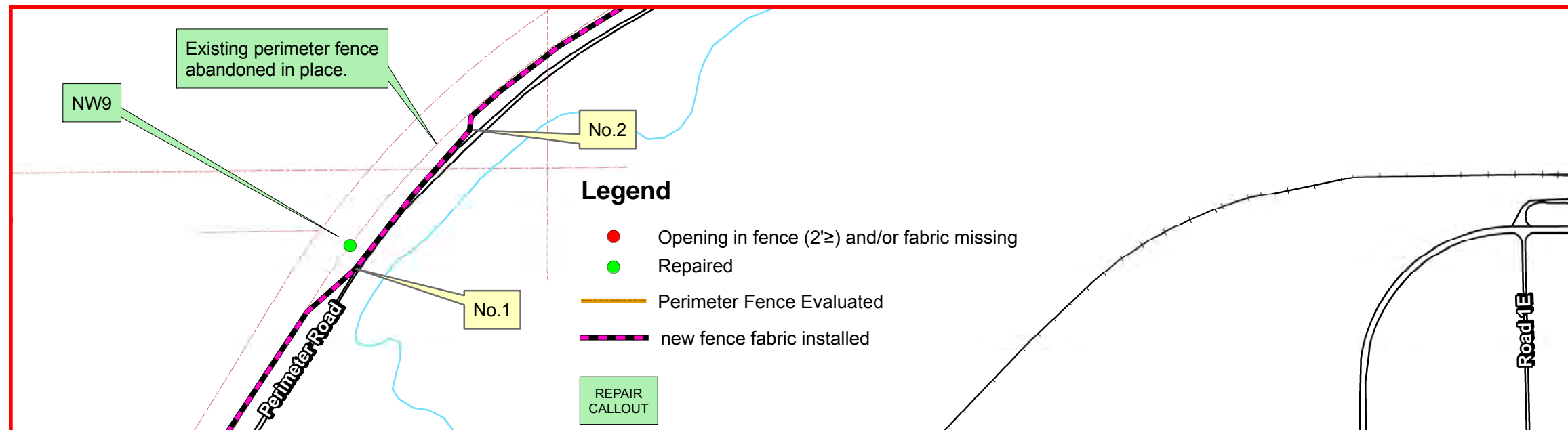
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW8



## DETAIL SHEET FOR NW9



## LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

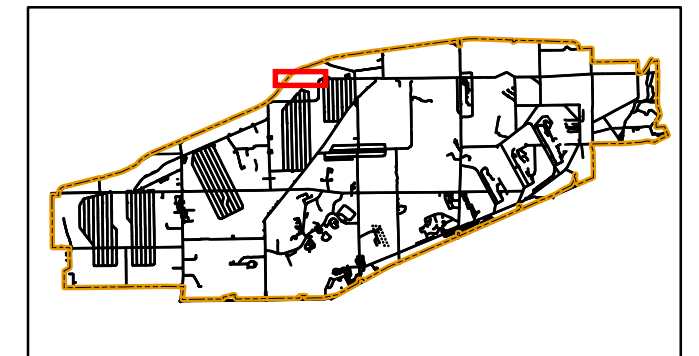
PHOTO No.2



PHOTO No.1



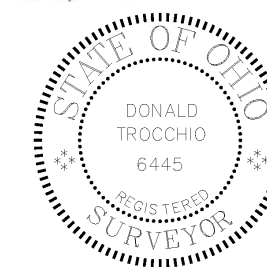
## Camp Ravenna Joint Military Training Center



### Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



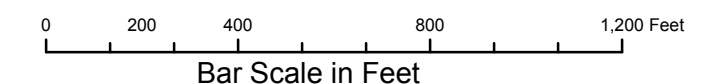
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

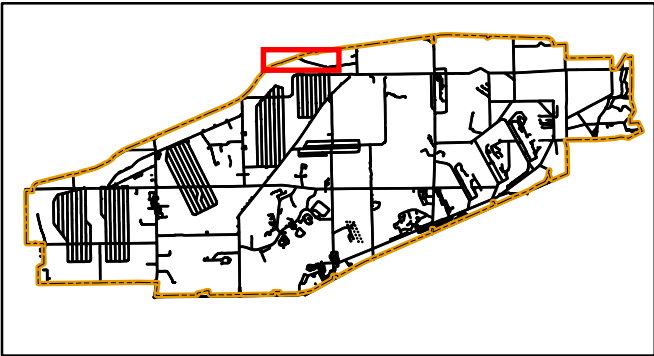
DETAIL SHEET FOR NW9



DETAIL SHEET FOR NW10



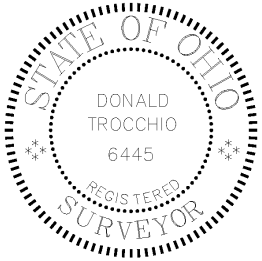
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NW10 repair 02/26/2014



PHOTO NW10 discovered 11/21/2013



Produced in April 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

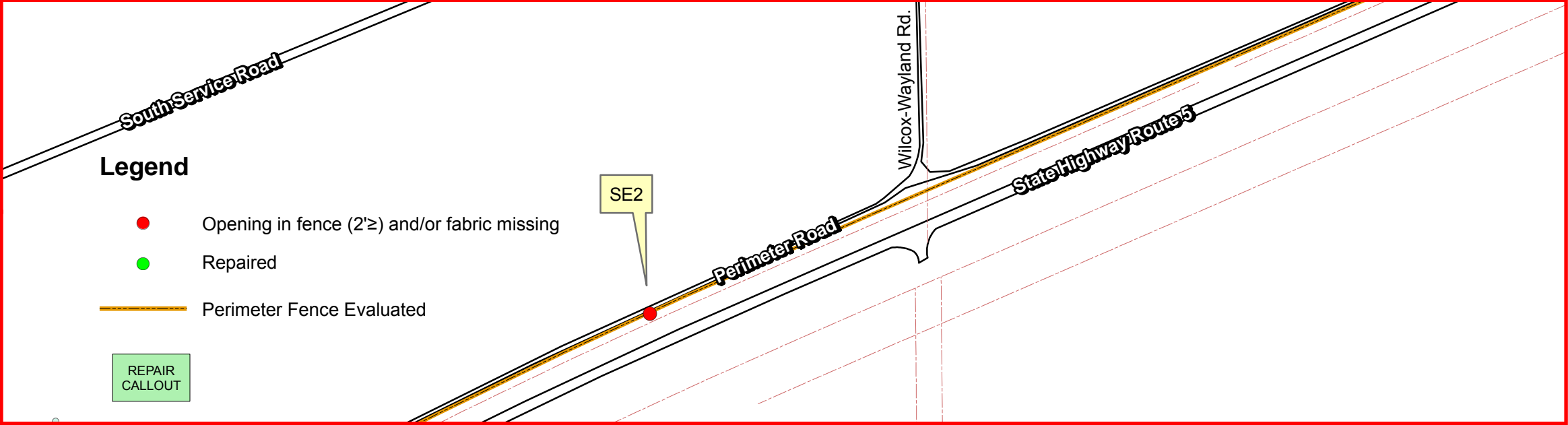
DETAIL SHEET FOR NW10



## **SE (Southeast) Quadrant**



DETAIL SHEET FOR SE2

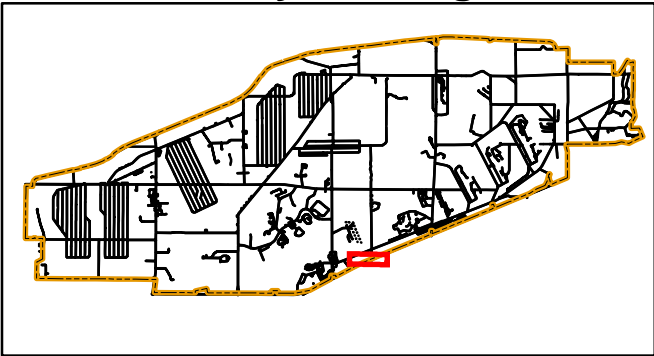


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



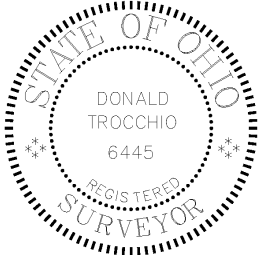
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



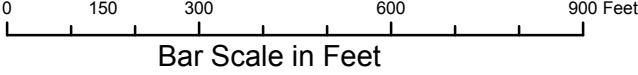
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

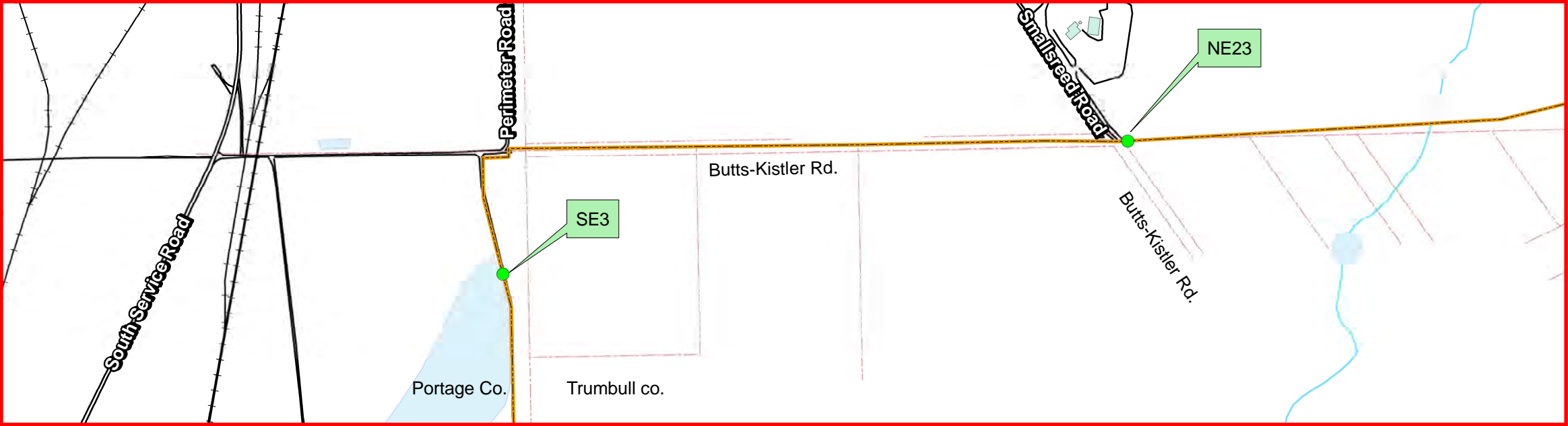


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

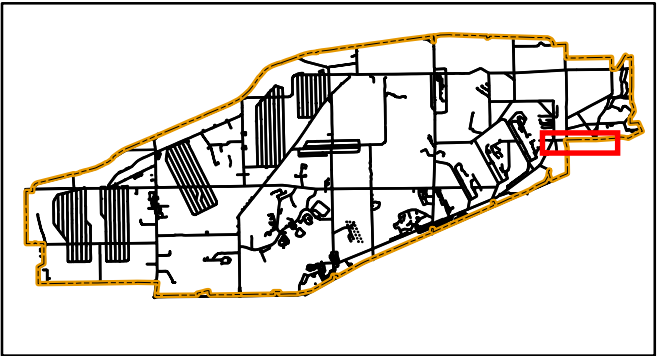
DETAIL SHEET FOR SE2



DETAIL SHEET FOR SE3



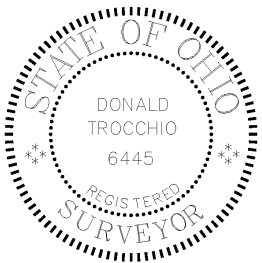
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE3 repair 02/27/2014



PHOTO SE3 discovered 11/25/2013



Produced in April 2014 for:



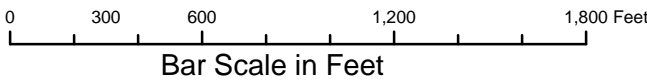
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



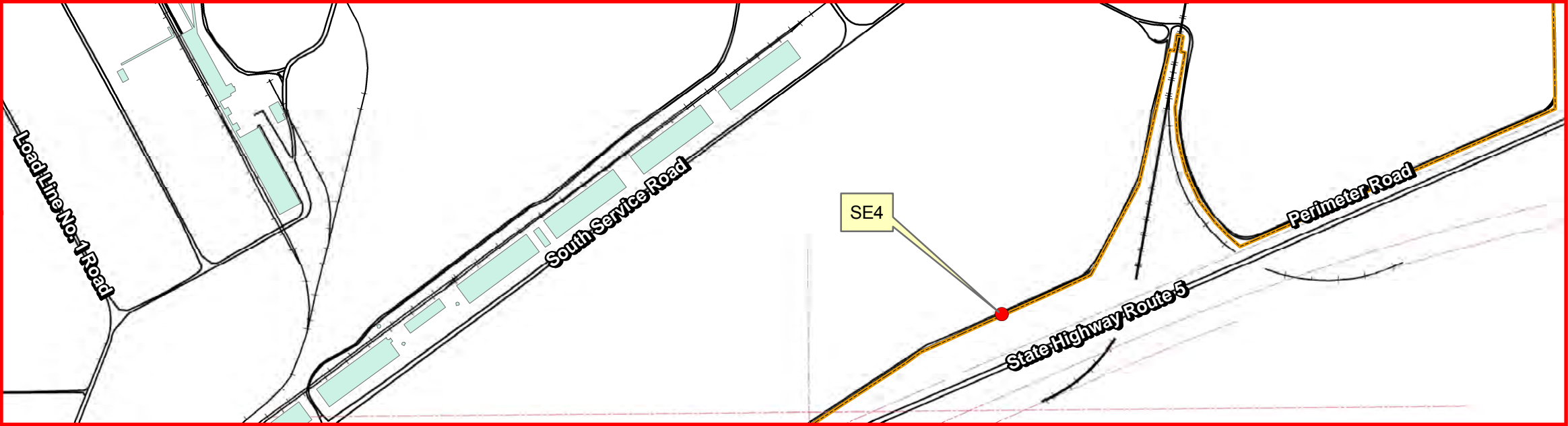
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE3



DETAIL SHEET FOR SE4



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

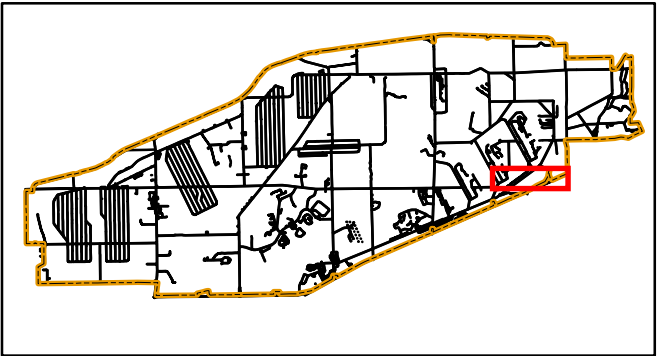
PHOTO SE4 discovered 02/27/2014

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



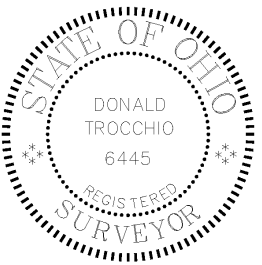
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



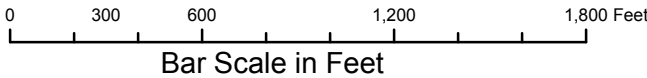
**US Army Corps of Engineers**

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Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



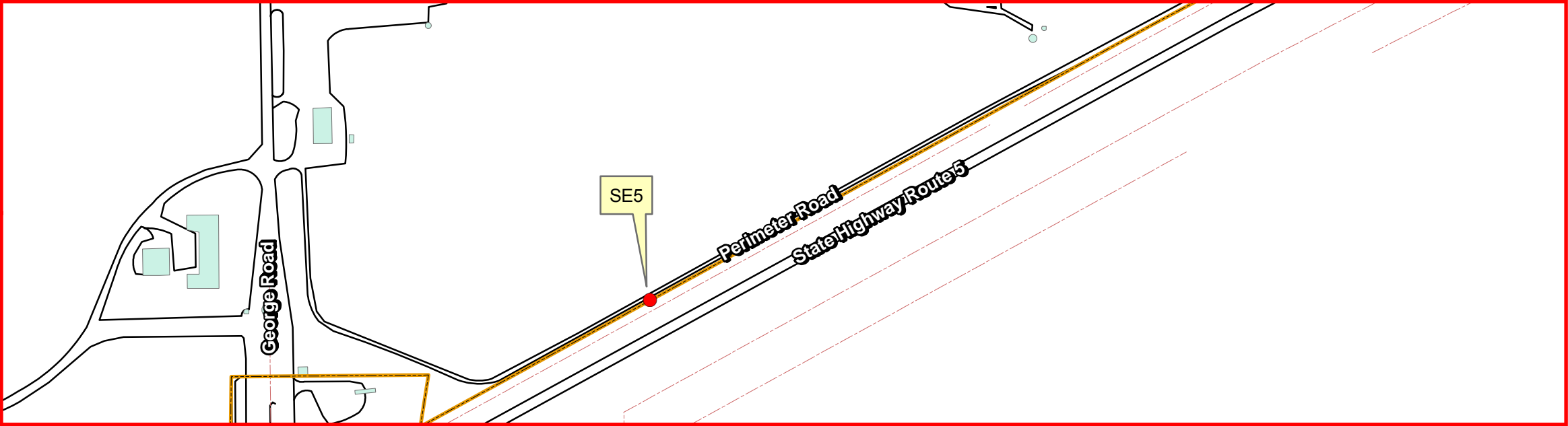
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE4



DETAIL SHEET FOR SE5



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

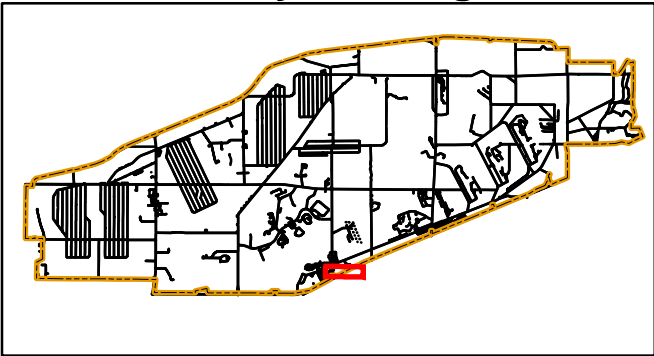
Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT

PHOTO SE5 discovered 04/22/2014



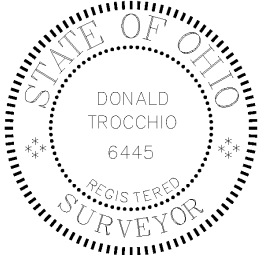
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



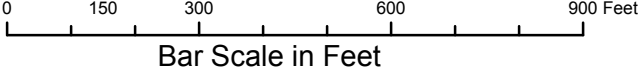
**US Army Corps of Engineers**

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Louisville, KY 40202

Louisville District



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Plane Rectangular Grid, North Zone



Camp Ravenna JMTc  
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don.trocchio@us.army.mil

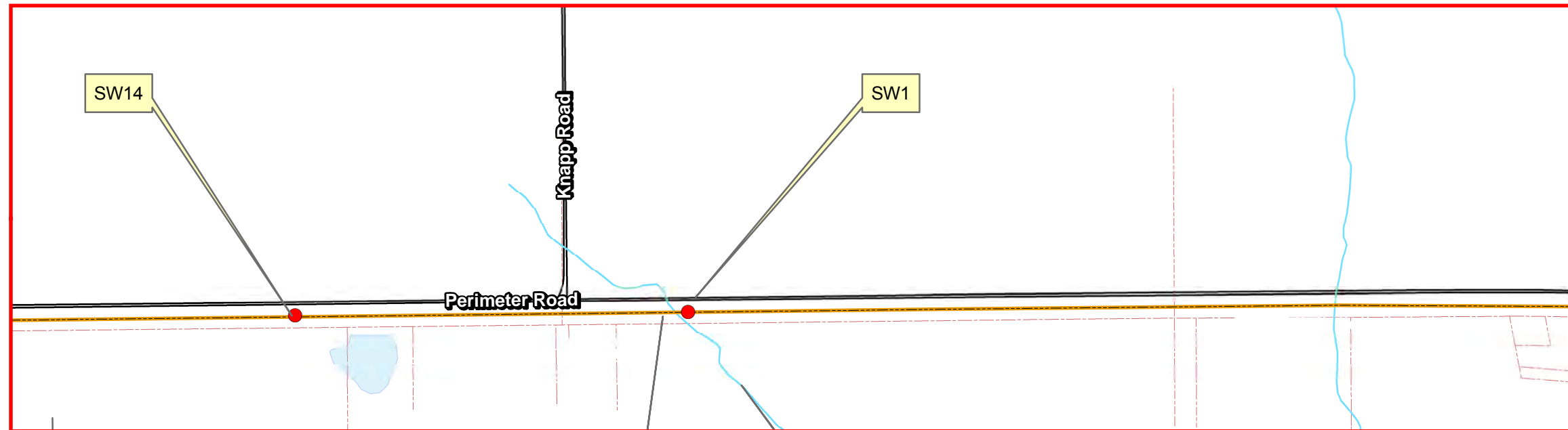
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE5



## **SW (Southwest) Quadrant**

## DETAIL SHEET FOR SW1



# LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

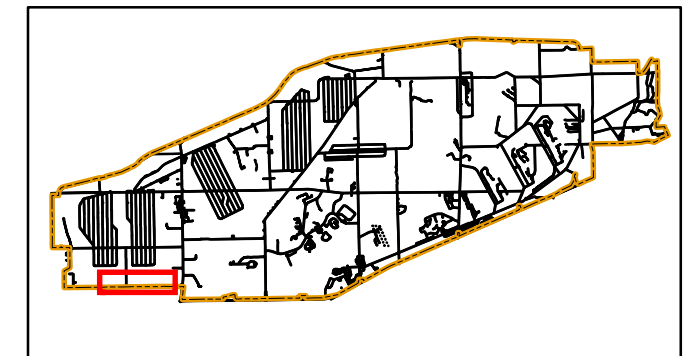
PHOTO SW1 discovered 02/07/2013

## Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



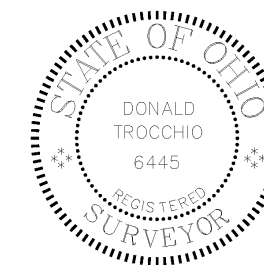
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



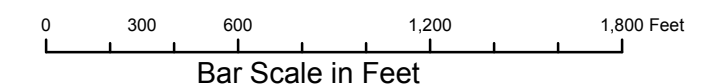
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

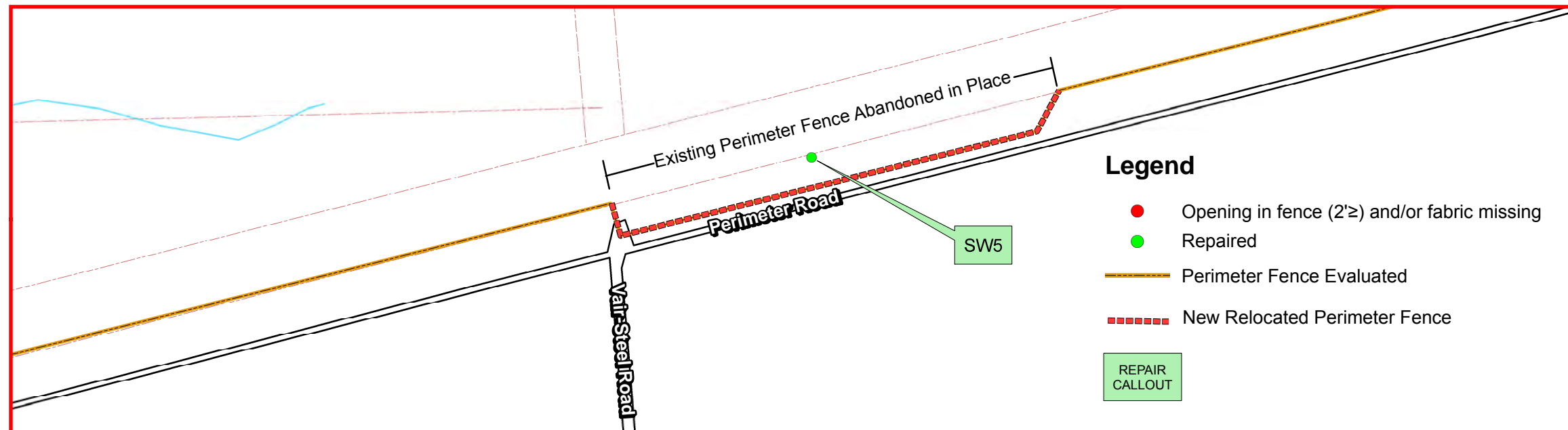


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW1



## DETAIL SHEET FOR SW5



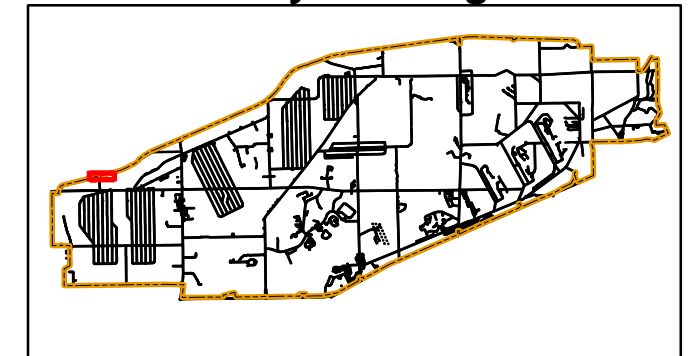
# LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

REPAIR PHOTO SW5 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013

PHOTO SW5 discovered 02/12/2013



## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



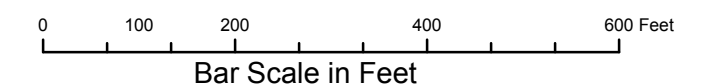
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

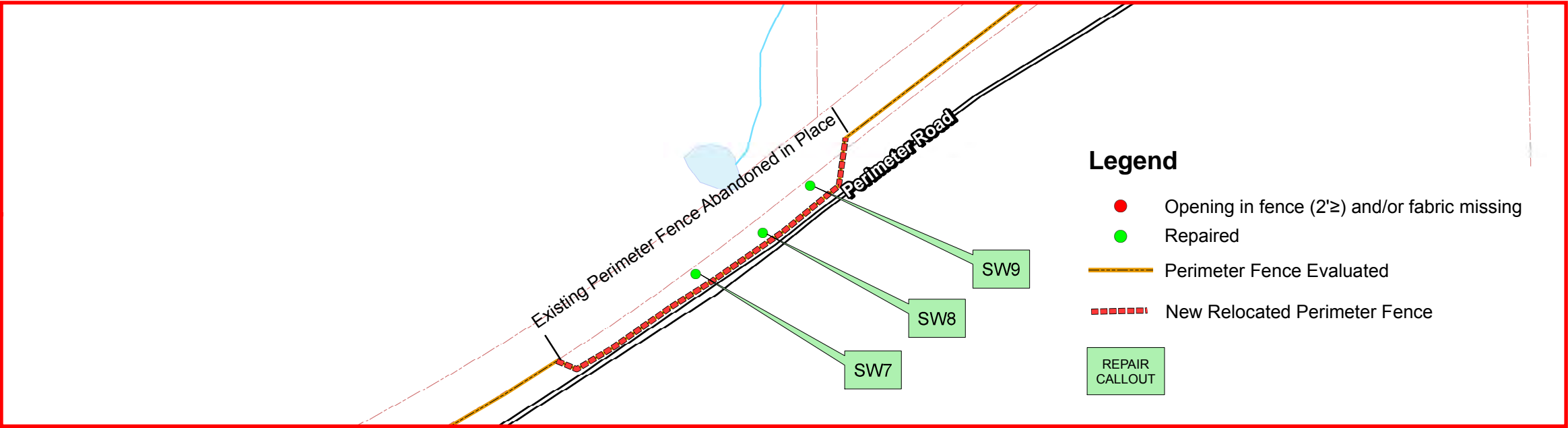


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW5



DETAIL SHEET FOR SW7, SW8 and SW9



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

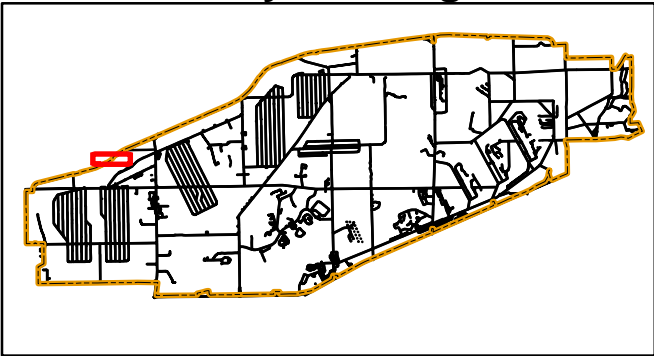
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013



PHOTO SW7 discovered 02/12/2013



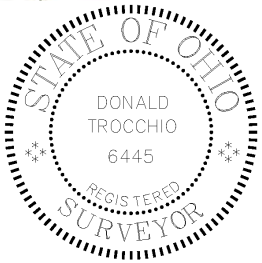
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 150 300 600 900 Feet  
Bar Scale in Feet



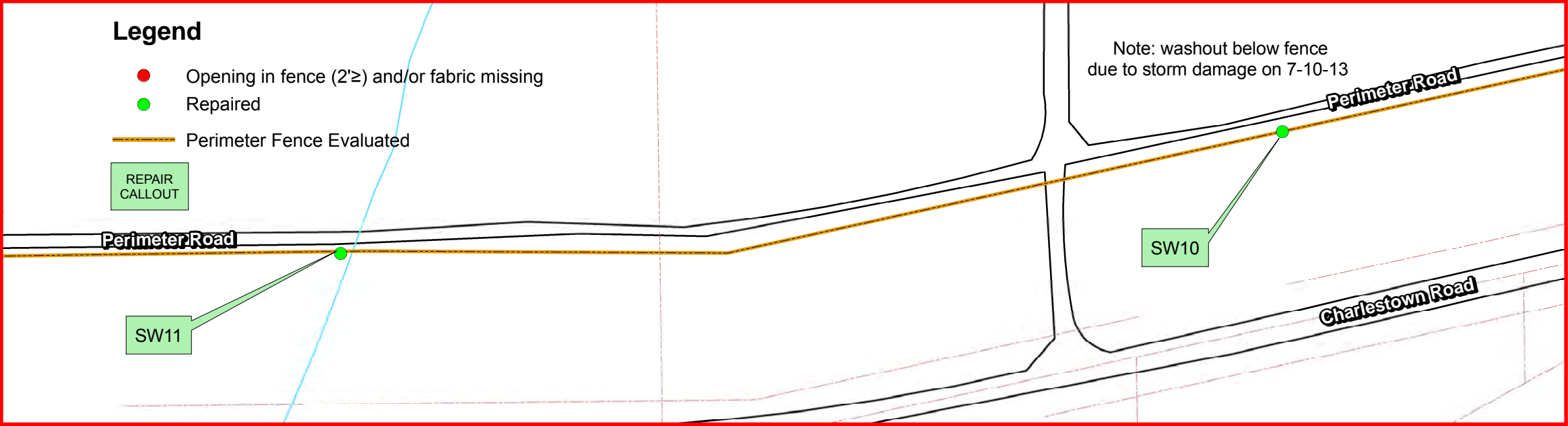
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW7, SW8, SW9



# DETAIL SHEET FOR SW10



## LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

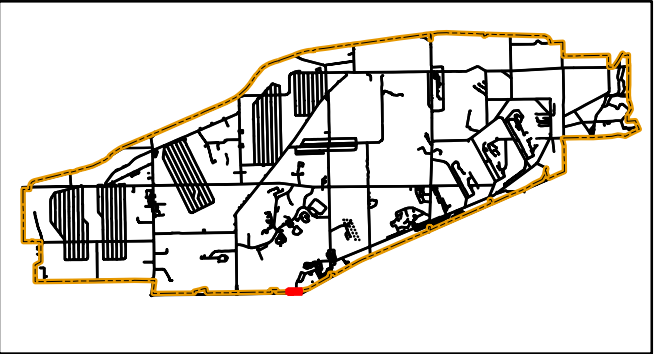
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



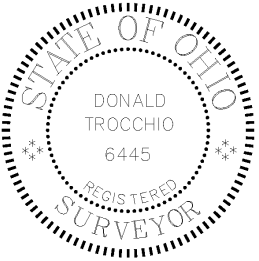
### Camp Ravenna Joint Military Training Center



#### Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



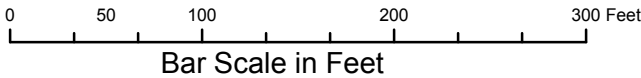
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



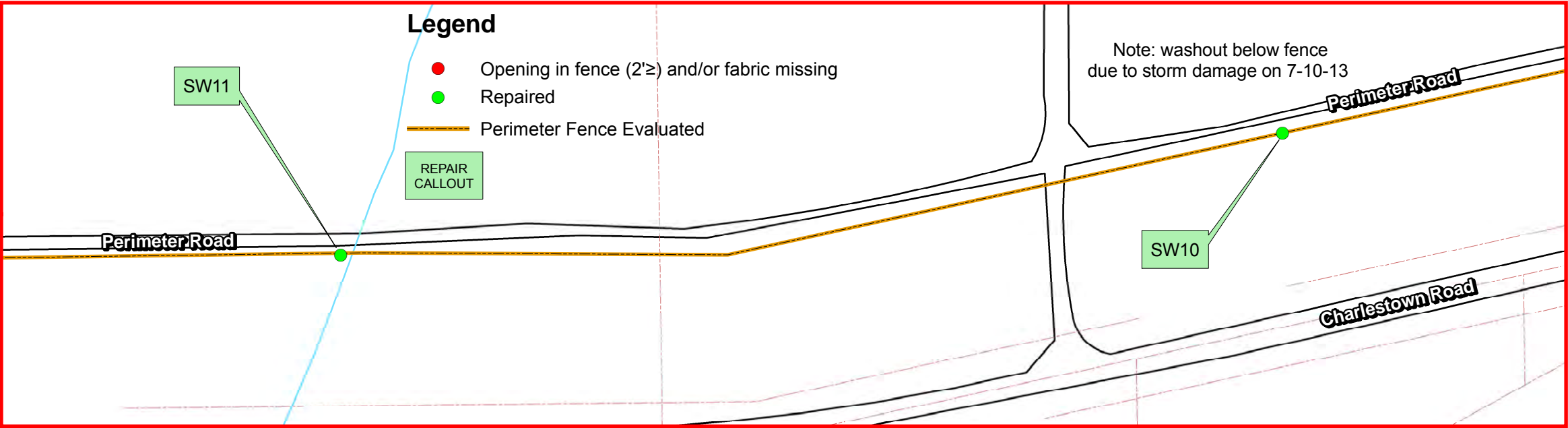
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW10



DETAIL SHEET FOR SW11



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

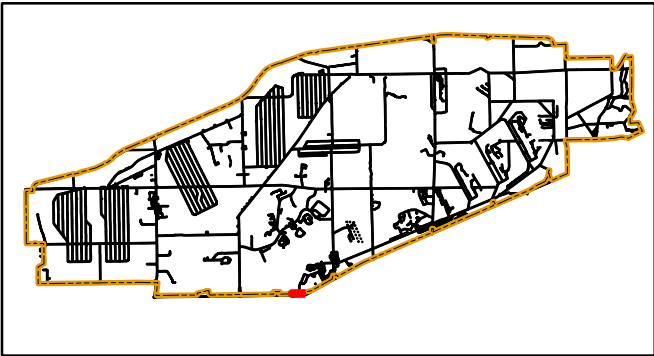
PHOTO SW11 repair 02/24/2014



PHOTO SW11 discovered 07/15/2013



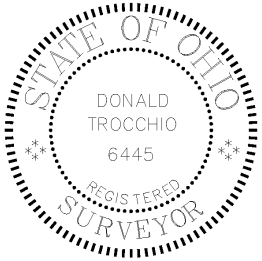
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



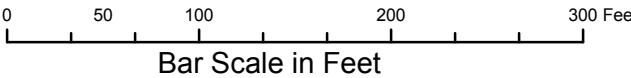
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



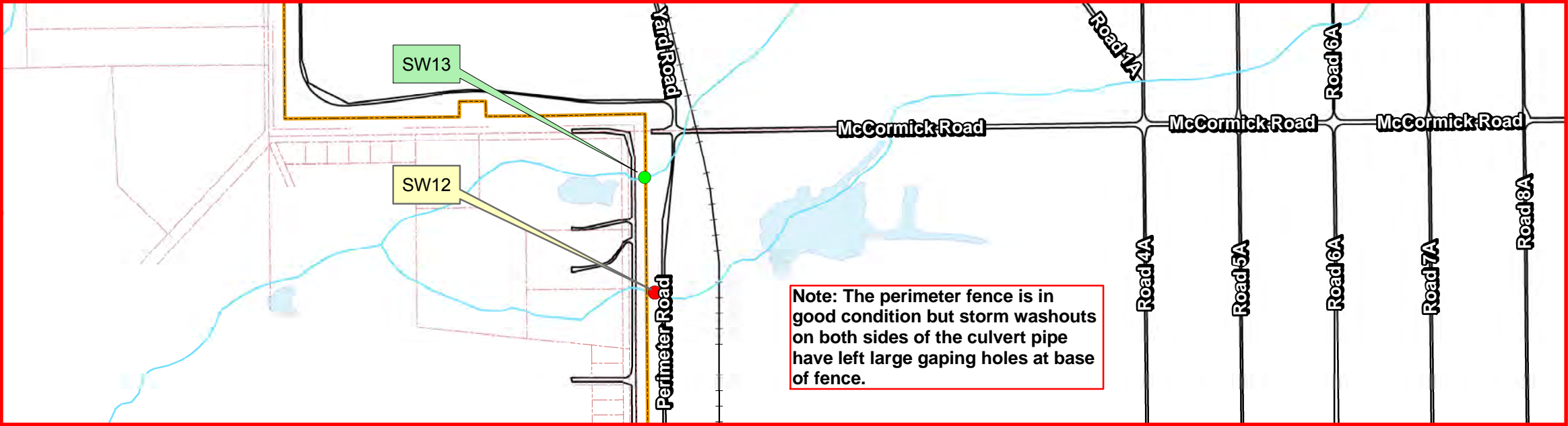
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW11



DETAIL SHEET FOR SW12



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

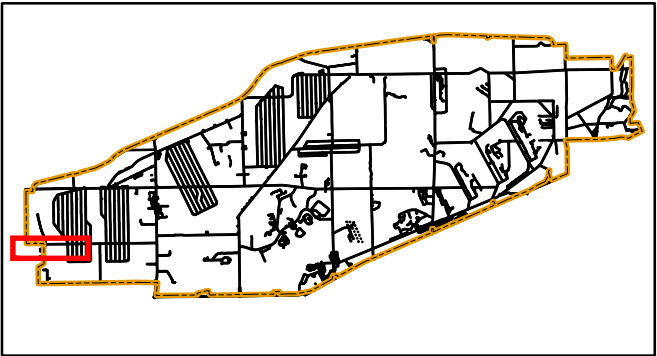
PHOTO SW12 discovered 11/18/2013

Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT



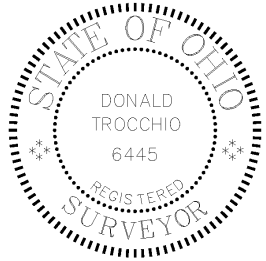
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



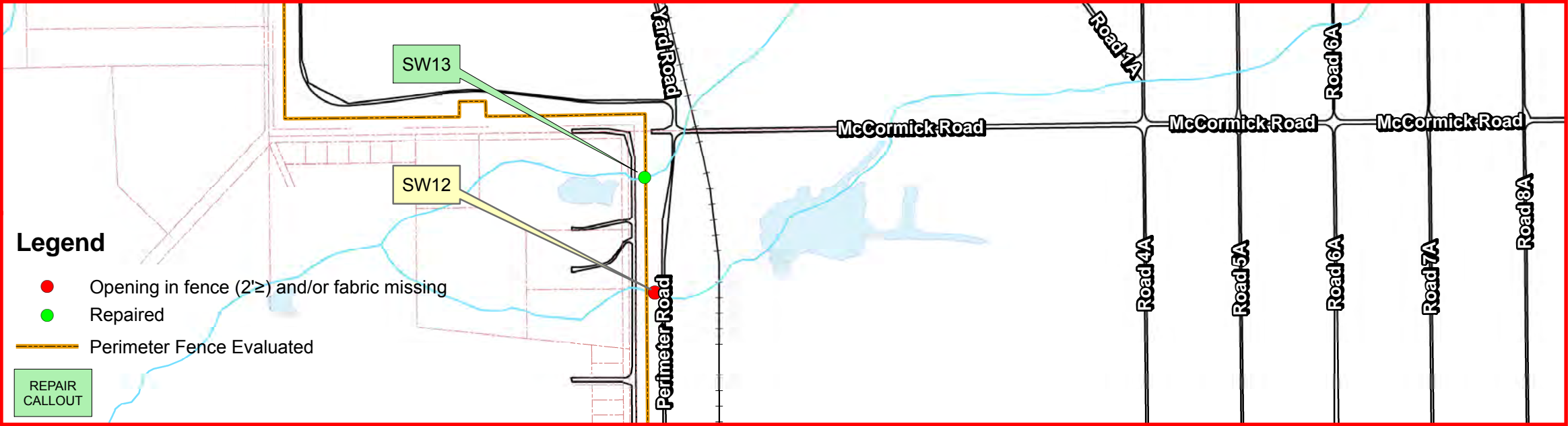
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12



DETAIL SHEET FOR SW13



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

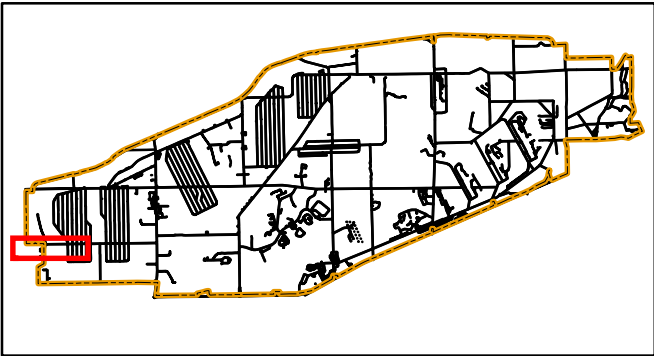
PHOTO SW13 repair 02/24/2014



PHOTO SW13 discovered 11/18/2013



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



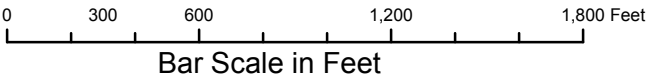
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



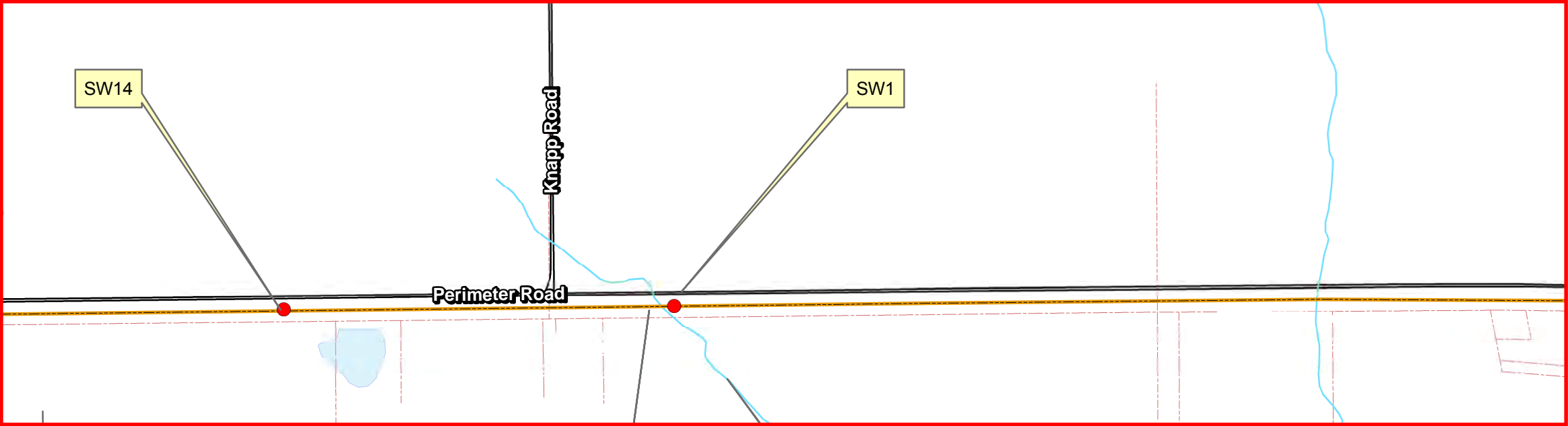
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW13



DETAIL SHEET FOR SW14



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

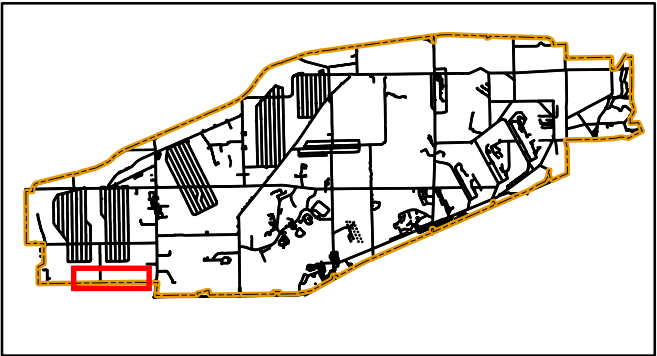
PHOTO SW14 discovered 04/14/2014

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



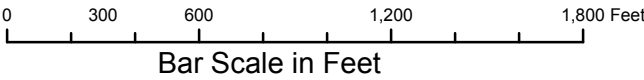
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW14

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**Property Management Plan Quarterly  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 2**

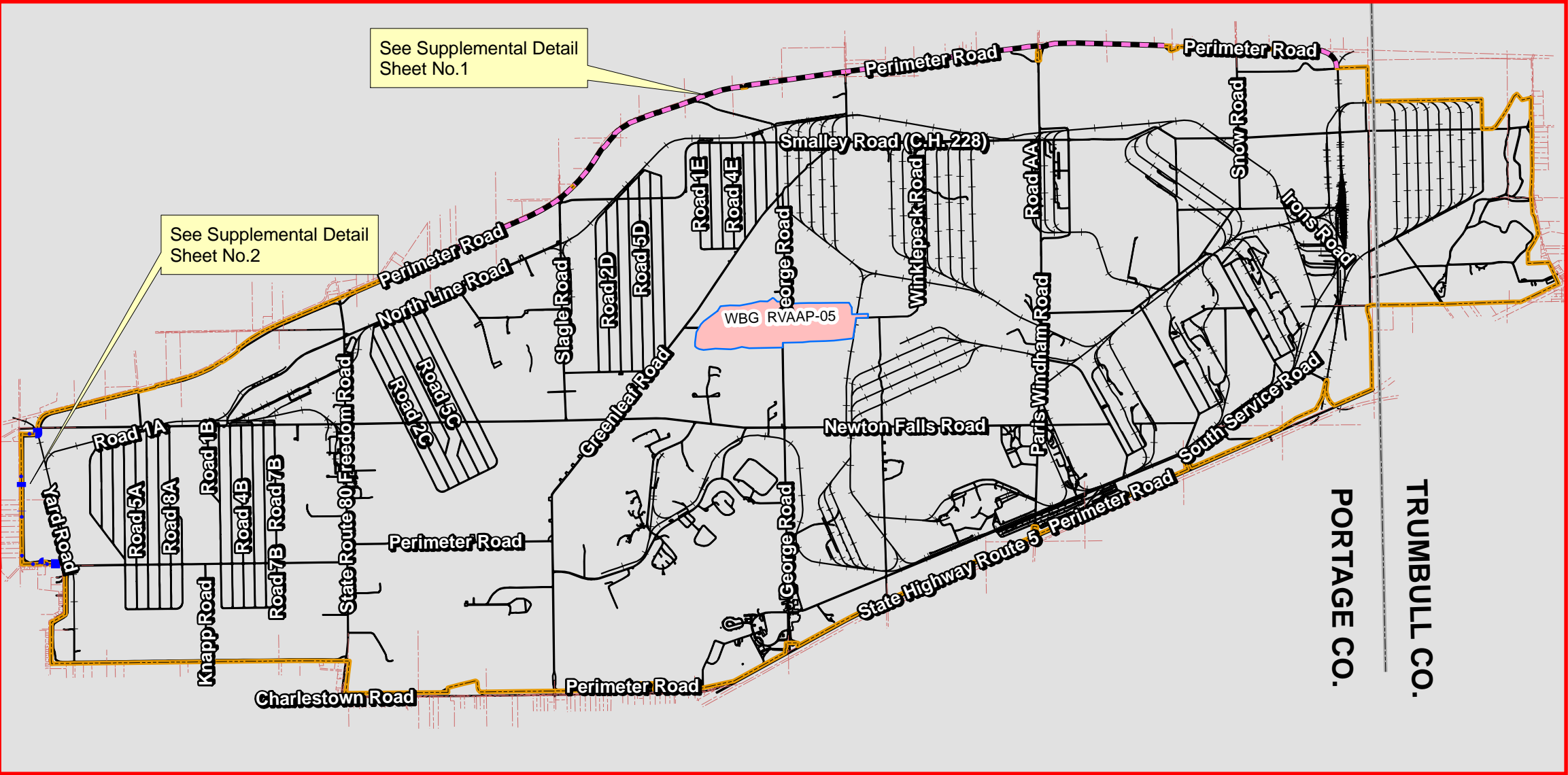
**Supplemental Index Map No. 1**

**Supplemental Detail Sheets**

**Camp Ravenna Fence Repair Log**



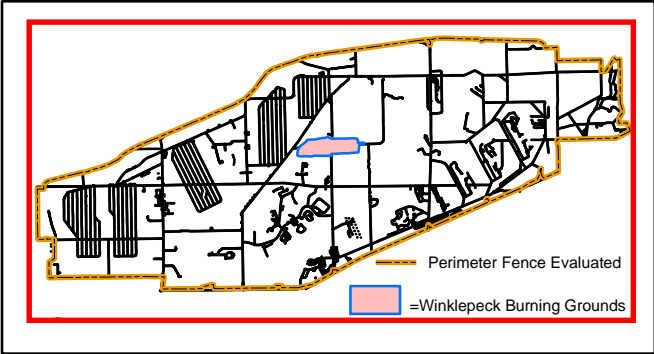
**Supplemental Index Map No. 1**  
**Supplemental Detail Sheets**



**SUPPLEMENTAL INDEX MAP NO. 1 TO FACILITY PERIMETER FENCE INSPECTION**  
THIS MAP DEPICTS REPAIRS AND IMPROVEMENTS ALONG THE PERIMETER FENCE THAT ARE IN PROGRESS

- This line type symbol represents new barb wire installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. See Supplemental Detail Sheet No.2
- This line type symbol represents new chain link fence fabric currently being installed by OHARNG contractors. See Supplemental Detail Sheet No.1
- Perimeter Fence Evaluated (29.8 miles)

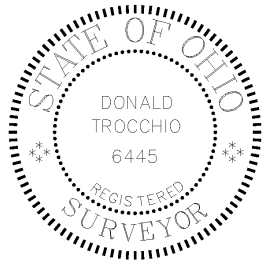
**Camp Ravenna  
Joint Military Training Center**



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:

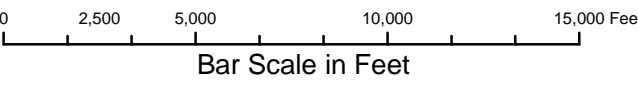


**US Army Corps of Engineers**  
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Louisville District



Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone



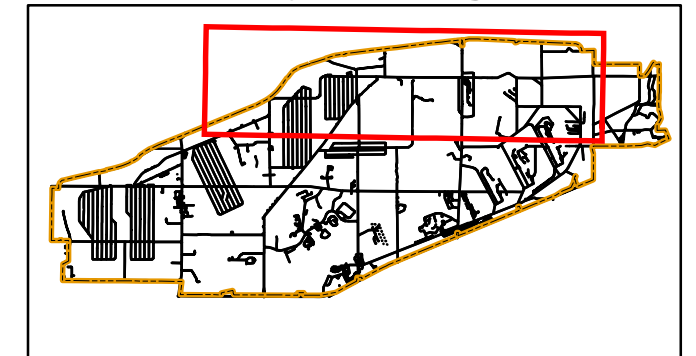
Camp Ravenna JMTc  
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don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)



## SUPPLEMENTAL DETAIL SHEET NO.1



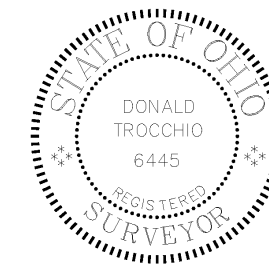
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



## LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

PHOTO NO.1 04/15/2014 (Begin new fence fabric clockwise from here)



PHOTO No.2 (End new fence fabric here) 04/17/2014



Produced in April 2014 for:



**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 1,550 3,100 6,200 9,300 Feet  
Bar Scale in Feet

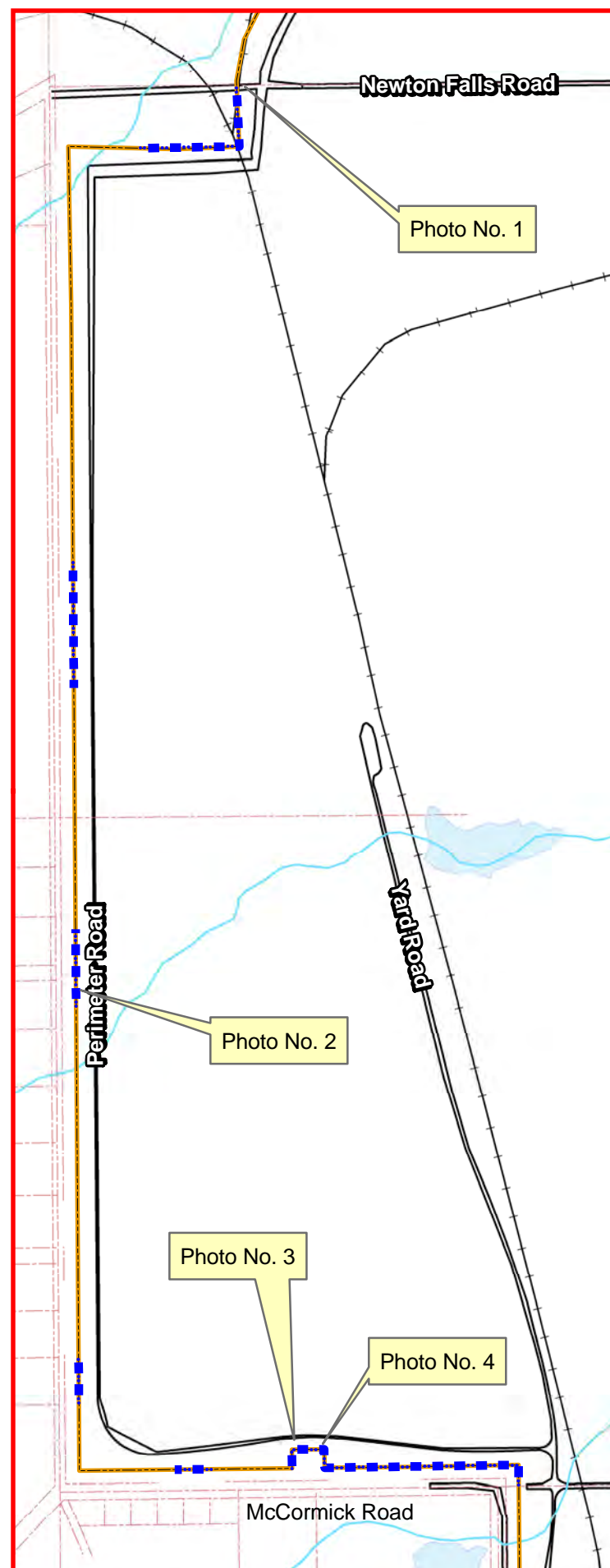


Camp Ravenna JMTC  
1438 State Route 534 SW  
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MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.1





# SUPPLEMENTAL DETAIL SHEET NO.2

## LAND USE CONTROL (LUC) INSPECTION

### PERIMETER FENCE INSPECTION

#### 3rd QUARTER FY2014

PHOTO NO.1 02/25/2014




PHOTO NO.3 02/25/2014



PHOTO No.2 03/03/2014

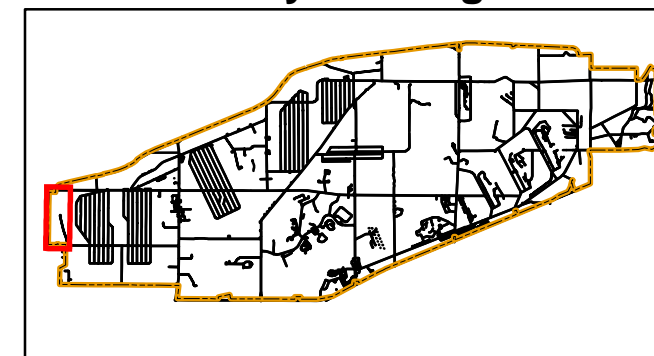


PHOTO NO.4 02/25/2014

 This line type symbol represents new barb wire installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. About 4500' of barb wire was replaced in this area.

 Perimeter Fence Evaluated

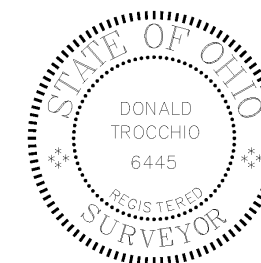
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



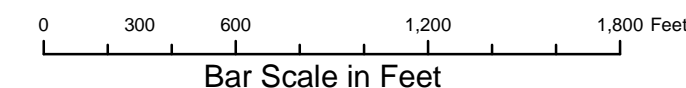
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MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.2



SUPPLEMENTAL DETAIL SHEET NO.3



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014  
PERIMETER FENCE INSPECTION

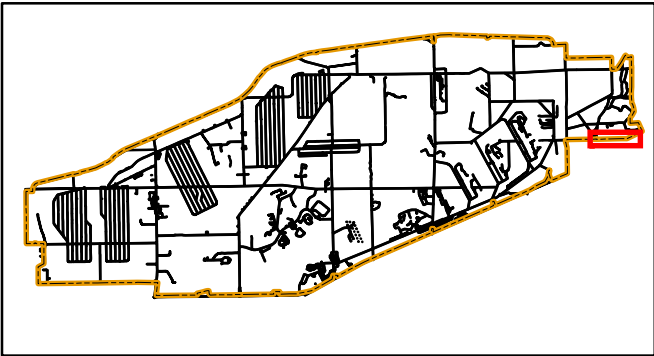
Legend

— Perimeter Fence Evaluated

Typical Existing Signage



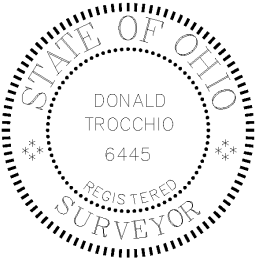
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



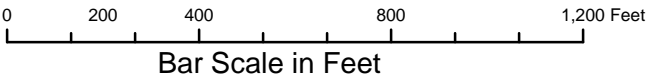
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MGRS 17T NF01946150 (NAD83)

## **Camp Ravenna Fence Repair Log**



[illegible][illegible]

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## **Appendix F**

426

### **Final FY 2014 Fourth Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds**

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**Final**  
**FY 2014 Fourth Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center**  
**Former Ravenna Army Ammunition Plant**  
**Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers**  
**Louisville District**

***Prepared by:***



**October 10, 2014**

**Final**  
**FY 2014 Fourth Quarter Land Use Control Inspection**  
**RVAAP-05 Winklepeck Burning Grounds**

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant  
Portage and Trumbull Counties, Ohio**

**Contract No. W912QR-13-C-0031**

***Prepared for:***



**U.S. Army Corps of Engineers  
Louisville District**

***Prepared by:***



**October 10, 2014**



## **LIST OF ACRONYMS AND ABBREVIATIONS**

|              |  |
|--------------|--|
| AOC          | Area of Concern                                    |
| bgs          | Below Ground Surface                               |
| Camp Ravenna | Camp Ravenna Joint Military Training Center        |
| EQM          | Environmental Quality Management, Inc.             |
| FWGWMPP      | Facility-Wide Ground Water Monitoring Program Plan |
| FWSAP        | Facility-Wide Sampling and Analysis Plan           |
| IRP          | Installation Restoration Program                   |
| LUC          | Land Use Control                                   |
| MEC          | Munitions and Explosives of Concern                |
| MK           | Mark   |
| MRS          | Munitions Response Site                            |
| MSG          | Master Sergeant                                    |
| Ohio EPA     | Ohio Environmental Protection Agency               |
| OHARNG       | Ohio Army National Guard                           |
| PS           | Professional Surveyor                              |
| PMP          | Property Management Plan                           |
| RVAAP        | Ravenna Army Ammunition Plant                      |
| SOP          | Standard Operating Procedure                       |
| UXO          | Unexploded Ordnance                                |
| WBG          | Winklepeck Burning Grounds                         |

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /  
Former Ravenna Army Ammunition Plant (RVAAP)  
Quarterly Land Use Control (LUC) Inspection Form  
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on July 14, 15, 16, 17, 21, 22 and 23, 2014.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective control and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark (MK) 19 Grenade Machinegun Range is prohibited with the following exceptions:
  - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
  - Ground surface repairs by authorized range personnel in support of authorized range activities; and
  - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
  1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
  2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.



## **Review of LUCs – Management/Effectiveness/Corrective Action**

### **1. AOC Map**

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on July 14, 2014 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

### **2. Camp Ravenna Perimeter Fence**

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. Two fence repair contracts that began in October 2013 have repaired several large sections of the perimeter fence. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets. In February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail Sheet No. 2. A large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 has been replaced. As observed during the July 2014 inspection, the fence has been repaired at location NW8 (See Attachment 1, Detail Sheet for NW8) since the previous quarterly inspection in April 2014. The Camp Ravenna Fence Repair Log presented in Attachment 2 lists repairs to the perimeter fence that were carried out after the July inspection.

### **3. Activities and Land Use**

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on July 24, 2014 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

Winklepeck Burning Grounds/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on July 24, 2014, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter were conducted and completed in May 2014.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on July 23, 2014 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide groundwater monitoring event occurred in July 2014. The next scheduled FWGWMPP sampling event is scheduled for January 2015.

#### **4. Inspections and Reporting**

a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

This is the fourth Quarterly Inspection to be conducted for FY 2014. All Quarterly Inspections for FY 2013 and FY 2014 were conducted in accordance with the approved PMP dated August 2012.

b.) An annual report is required. Has the annual report been completed and submitted?

The Final FY 2013 Annual Report was submitted in July 2014.

The Draft annual report for FY 2014 will be prepared and submitted for review by September 13, 2014. The Final FY 2014 annual report will be finalized and submitted once Ohio EPA approval of the Final 3<sup>rd</sup> and 4<sup>th</sup> Quarter FY 2014 LUC Reports are received. The Final FY 2014 annual report is currently scheduled to be submitted on January 26, 2015.

#### **5. Training (as applicable to WBG)**

a.) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for WBG. Using units also receive an in brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office. LUC training specific to WBG was held on May 6, 2014 for EQM (contractors) and for additional Camp Ravenna staff on June 4, 2014.

b.) If training was not provided, explain why and what corrective actions were initiated?

N/A



**6. Description of any observed/noted LUC violation(s):**

The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

**7. Date of Notification of LUC violation (if applicable):**

The Army was notified via e-mail on July 16, 17 and 22, 2014 of ten new fence defects discovered during the 4<sup>th</sup> Quarter FY 2014 facility perimeter fence evaluation.

**8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:**

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired since the last inspection. Additionally, a repair log is provided in Attachment 2 which documents repairs completed by the OHARNG maintenance staff during the fourth quarter early September 2014.

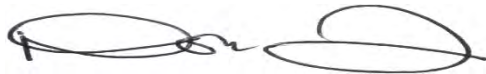
Attachment 2 also shows fence repairs that have been contracted and began in October 2013 and February 2014. Supplemental Detail Sheet No. 1 (Attachment 2) shows a large section of fence (posts and fabric) that was replaced on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34. In February 2014 Vista Sciences Corp. completed over 4500' of barbed wire repair or installation to the perimeter fence at the west end of the facility shown in Supplemental Detail sheet No. 2 (Attachment 2). These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

**9. Additional Notes/Comments:**

As requested by the Ohio EPA, WBG photographs taken during the LUC Inspection is included with this report (Attachment 2, Supplemental Detail Sheet No. 4). Photographs of WBG taken during future LUC inspections will be included in future reports.

**Original Inspection Completed by:**

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: July 24, 2014

**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**FY 2014 Fourth Quarter  
Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 1**

**Figure 1 Index Map**

**Summary Table**

**Detailed Quadrant Maps**



## **Index Map**

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 4th Qtr. FY 2014

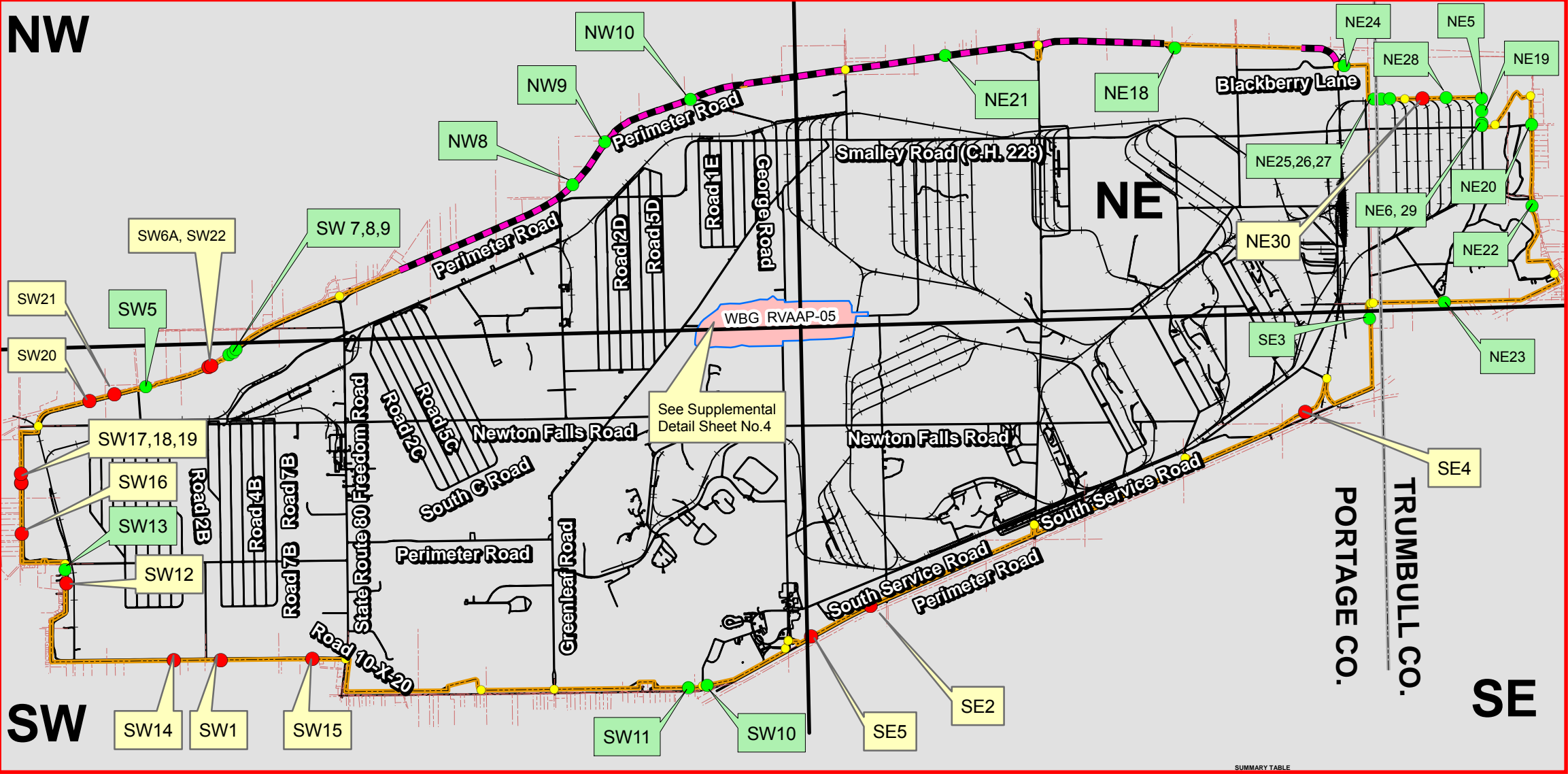


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

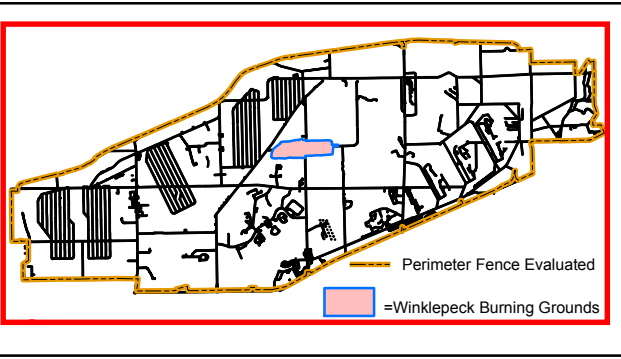
- Legend**
- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
  - Repaired (25 locations)
  - Gates (26 locations for reference only, no detail sheets)  
All gates appear to be maintained and are in working order
  - New fence fabric installed to date (about 6.3 miles)  
See also Supplemental Index Map No.1
  - Perimeter Fence Evaluated (29.8 miles)

Detail Sheet  
Callout

Detail Sheet  
Repair Callout

| Camp Ravenna Joint Military Training Center 4th Qtr FY2014 LUC Inspection |            |  |   | US Survey Fc |         |  |         |
|---|------------|--|---|--------------|---------|--|---------|
| Callout   | Date       | Path to Photo Location                 | Comments  | Northing     | Eastng  | Path to Repair Photo                   | Callout |
| NE30  | 7/21/2014  | c:\My Documents\My ArcPad\P1010425.JPG | poacher hole  | 571083       | 2382464 |  | NE30    |
| SW01  | 02/07/2013 | c:\My Documents\My ArcPad\P1010322.JPG | bottom open   | 549403       | 2336048 |  | SW01    |
| SW06A   | 7/16/2014  | c:\My Documents\My ArcPad\P1010416.JPG | poacher hole in fence (repeat)                            | 560708       | 2335572 |  | SW06A   |
| SW12  | 11/18/2013 | c:\My Documents\My ArcPad\P1010323.JPG | storm washout about 2 sections inlet needs cleared        | 552357       | 2330086 |  | SW12    |
| SW14  | 04/14/2014 | c:\My Documents\My ArcPad\P1010370.JPG | poacher hole in fence                                     | 549386       | 2334237 |  | SW14    |
| SW15  | 7/15/2014  | c:\My Documents\My ArcPad\P1010404.JPG | tree blow down  | 549438       | 2335960 |  | SW15    |
| SW16  | 7/15/2014  | c:\My Documents\My ArcPad\P1010408.JPG | tree blow down/damaged fence                              | 554267       | 2328362 |  | SW16    |
| SW17  | 7/15/2014  | c:\My Documents\My ArcPad\P1010409.JPG | tree blow down/fence top damaged                          | 556228       | 2328345 |  | SW17    |
| SW18  | 7/15/2014  | c:\My Documents\My ArcPad\P1010412.JPG | hole under fence at culvert outlet                        | 556241       | 2328345 |  | SW18    |
| SW19  | 7/15/2014  | c:\My Documents\My ArcPad\P1010413.JPG | tree blow down/top fence damaged                          | 556581       | 2328342 |  | SW19    |
| SW20  | 7/15/2014  | c:\My Documents\My ArcPad\P1010414.JPG | hole in bottom of fence below sign                        | 559398       | 2330974 |  | SW20    |
| SW21  | 7/15/2014  | c:\My Documents\My ArcPad\P1010415.JPG | hole at bottom of fence                                   | 559569       | 2331945 |  | SW21    |
| SW22  | 7/16/2014  | c:\My Documents\My ArcPad\P1010417.JPG | poacher hole  | 560762       | 2335683 |  | SW22    |
| SE02  | 7/22/2014  | c:\My Documents\My ArcPad\P1010427.JPG | washout... worse now 7.18.2013                            | 551498       | 2361141 |  | SE02    |
| SE04  | 11/25/2013 | c:\My Documents\My ArcPad\P1010351.JPG | washout logged as type 2 on 2-27-14 0271 photo            | 558890       | 2377933 |  | SE04    |
| SE05  | 04/22/2014 | c:\My Documents\My ArcPad\P1010402.JPG | washout below undamaged fence                             | 550299       | 2358851 |  | SE05    |
| SW05  | 02/12/2013 | c:\My Documents\My ArcPad\P1010074.JPG | hole in fence at bottom                                   | 559954       | 2333158 | c:\My Documents\My ArcPad\P1010266.JPG | SW05    |
| SW07  | 02/12/2013 | c:\My Documents\My ArcPad\P1010075.JPG | apx 100 ft of fabric missing                              | 561189       | 2336373 | c:\My Documents\My ArcPad\P1010267.JPG | SW07    |
| SW08  | 02/12/2013 | c:\My Documents\My ArcPad\P1010077.JPG | hole in fence   | 561285       | 2336520 | c:\My Documents\My ArcPad\P1010268.JPG | SW08    |
| SW09  | 02/12/2013 | c:\My Documents\My ArcPad\P1010078.JPG | hole in fence   | 561395       | 2336638 | c:\My Documents\My ArcPad\P1010269.JPG | SW09    |
| SW10  | 07/15/2013 | c:\My Documents\My ArcPad\P1010203.JPG | washout   | 548427       | 2354836 | c:\My Documents\My ArcPad\P1010320.JPG | SW10    |
| SW11  | 11/18/2013 | c:\My Documents\My ArcPad\P1010206.JPG | apx. 90' of fence knocked down                            | 548333       | 2354108 | c:\My Documents\My ArcPad\P1010321.JPG | SW11    |
| SW13  | 11/18/2013 | c:\My Documents\My ArcPad\P1010250.JPG | hole at bottom of fence                                   | 552891       | 2330038 | c:\My Documents\My ArcPad\P1010324.JPG | SW13    |
| NE05  | 02/13/2013 | c:\My Documents\My ArcPad\P1010095.JPG | hole in fence   | 571090       | 2384743 | c:\My Documents\My ArcPad\P1010368.JPG | NE05    |
| NE19  | 07/17/2013 | c:\My Documents\My ArcPad\P1010220.JPG | hole next to post near bottom                             | 570600       | 2384750 | c:\My Documents\My ArcPad\P1010369.JPG | NE19    |
| NE20  | 07/18/2013 | c:\My Documents\My ArcPad\P1010221.JPG | bottom of fence too high above ground                     | 570880       | 2386673 | c:\My Documents\My ArcPad\P1010372.JPG | NE20    |
| NE21  | 11/21/2013 | c:\My Documents\My ArcPad\P1010265.JPG | cut hole in fence   | 572732       | 2386020 | c:\My Documents\My ArcPad\P1010384.JPG | NE21    |
| NE23  | 11/25/2013 | c:\My Documents\My ArcPad\P1010269.JPG | 3 sections badly damaged                                  | 563209       | 2383312 | c:\My Documents\My ArcPad\P1010375.JPG | NE23    |
| NW09  | 11/19/2013 | c:\My Documents\My ArcPad\P1010261.JPG | hole cut in fence   | 569396       | 2350885 | c:\My Documents\My ArcPad\P1010334.JPG | NW09    |
| NW10  | 11/21/2013 | c:\My Documents\My ArcPad\P1010263.JPG | cut hole in fence   | 571046       | 2354186 | c:\My Documents\My ArcPad\P1010341.JPG | NW10    |
| SE03  | 11/25/2013 | c:\My Documents\My ArcPad\P1010270.JPG | hole cut in fence   | 562592       | 2380413 | c:\My Documents\My ArcPad\P1010350.JPG | SE03    |
| NE06  | 03/03/2014 | c:\My Documents\My ArcPad\P1010370.JPG | hole in fence   | 570126       | 2384759 | c:\My Documents\My ArcPad\P1010397.JPG | NE06    |
| NE18  | 07/17/2013 | c:\My Documents\My ArcPad\P1010360.JPG | apx. 10 sections of fence fabric needs reattached at base | 573035       | 2373897 | c:\My Documents\My ArcPad\P1010380.JPG | NE18    |
| NE22  | 11/25/2013 | c:\My Documents\My ArcPad\P1010373.JPG | vandalized section of secluded fence at base              | 566933       | 2386688 | c:\My Documents\My ArcPad\P1010399.JPG | NE22    |
| NE24  | 03/03/2014 | c:\My Documents\My ArcPad\P1010363.JPG | poacher hole in fence                                     | 572341       | 2379439 | c:\My Documents\My ArcPad\P1010391.JPG | NE24    |
| NE25  | 03/03/2014 | c:\My Documents\My ArcPad\P1010364.JPG | poacher hole in fence                                     | 571099       | 2386598 | c:\My Documents\My ArcPad\P1010392.JPG | NE25    |
| NE26  | 03/03/2014 | c:\My Documents\My ArcPad\P1010365.JPG | hole in fence   | 571062       | 2386862 | c:\My Documents\My ArcPad\P1010393.JPG | NE26    |
| NE27  | 03/03/2014 | c:\My Documents\My ArcPad\P1010366.JPG | hole in fence   | 571068       | 2381194 | c:\My Documents\My ArcPad\P1010394.JPG | NE27    |
| NE28  | 03/03/2014 | c:\My Documents\My ArcPad\P1010367.JPG | hole in fence   | 571112       | 2383737 | c:\My Documents\My ArcPad\P1010395.JPG | NE28    |
| NE29  | 03/05/2014 | c:\My Documents\My ArcPad\P1010371.JPG | hole in fence   | 570466       | 2384741 | c:\My Documents\My ArcPad\P1010396.JPG | NE29    |
| NW08  | 07/16/2013 | c:\My Documents\My ArcPad\P1010333.JPG | open along top apx 6 sections (swampy)                    | 567746       | 2349644 | c:\My Documents\My ArcPad\P1010422.JPG | NW08    |
| REPAIRED 1ST QTR  |            |  |   |              |         |  |         |
| REPAIRED 2ND QTR  |            |  |   |              |         |  |         |
| REPAIRED 3RD QTR  |            |  |   |              |         |  |         |
| REPAIRED 4TH QTR  |            |  |   |              |         |  |         |

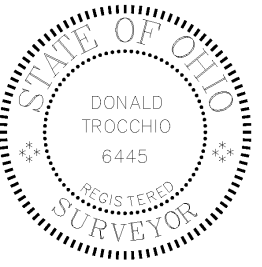
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



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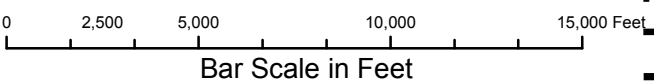
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Louisville District



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Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
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MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP



## **Summary Table**

**SUMMARY TABLE**  
**Camp Ravenna Joint Military Training Center 4th Qtr FY2014 LUC Inspection**

| Callout | Date       | Comments  | US Survey Ft |         | Callout |
|---------|------------|---|--------------|---------|---------|
|         |            |   | Northing     | Easting |         |
| NE30    | 07/21/2014 | poacher hole  | 571083       | 2382464 | NE30    |
| SW01    | 02/07/2013 | bottom open   | 549403       | 2336048 | SW01    |
| SW06A   | 07/16/2014 | poacher hole in fence (repeat)                            | 560708       | 2335572 | SW06A   |
| SW12    | 11/18/2013 | storm washout about 2 sections inlet needs cleared        | 552357       | 2330086 | SW12    |
| SW14    | 04/14/2014 | poacher hole in fence                                     | 549386       | 2334237 | SW14    |
| SW15    | 07/15/2014 | tree blow down  | 549438       | 2339580 | SW15    |
| SW16    | 07/15/2014 | tree blow down/damaged fence                              | 554267       | 2328362 | SW16    |
| SW17    | 07/15/2014 | tree blow down/fence top damaged                          | 556228       | 2328345 | SW17    |
| SW18    | 07/15/2014 | hole under fence at culvert outlet                        | 556241       | 2328345 | SW18    |
| SW19    | 07/15/2014 | tree blow down/top fence damaged                          | 556581       | 2328342 | SW19    |
| SW20    | 07/15/2014 | hole in bottom of fence below sign                        | 559398       | 2330974 | SW20    |
| SW21    | 07/15/2014 | hole at bottom of fence                                   | 559659       | 2331945 | SW21    |
| SW22    | 07/16/2014 | poacher hole  | 560762       | 2335683 | SW22    |
| SE02    | 07/22/2014 | washout...worse now 7.18.2013                             | 551498       | 2361141 | SE02    |
| SE04    | 11/25/2013 | washout logged as type 2 on 2-27-14 0271 photo            | 558980       | 2377933 | SE04    |
| SE05    | 04/22/2014 | washout below undamaged fence                             | 550299       | 2358851 | SE05    |
| SW05    | 02/12/2013 | hole in fence at bottom                                   | 559954       | 2333158 | SW05    |
| SW07    | 02/12/2013 | apx 100 ft of fabric missing                              | 561189       | 2336373 | SW07    |
| SW08    | 02/12/2013 | hole in fence   | 561285       | 2336529 | SW08    |
| SW09    | 02/12/2013 | hole in fence   | 561395       | 2336638 | SW09    |
| SW10    | 07/15/2013 | washout   | 548427       | 2354836 | SW10    |
| SW11    | 11/18/2013 | apx. 90' of fence knocked down                            | 548333       | 2354108 | SW11    |
| SW13    | 11/18/2013 | hole at bottom of fence                                   | 552891       | 2330038 | SW13    |
| NE05    | 02/13/2013 | hole in fence   | 571090       | 2384743 | NE05    |
| NE19    | 07/17/2013 | hole next to post near bottom                             | 570600       | 2384750 | NE19    |
| NE20    | 07/18/2013 | bottom of fence too high above ground                     | 570080       | 2386673 | NE20    |
| NE21    | 11/21/2013 | cut hole in fence   | 572732       | 2364028 | NE21    |
| NE23    | 11/25/2013 | 3 sections badly damaged                                  | 563209       | 2383312 | NE23    |
| NW09    | 11/19/2013 | hole cut in fence   | 569396       | 2350885 | NW09    |
| NW10    | 11/21/2013 | cut hole in fence   | 571046       | 2354186 | NW10    |
| SE03    | 11/25/2013 | hole cut in fence   | 562592       | 2380413 | SE03    |
| NE06    | 03/03/2014 | hole in fence   | 570126       | 2384759 | NE06    |
| NE18    | 07/17/2013 | apx. 10 sections of fence fabric needs reattached at base | 573035       | 2372897 | NE18    |
| NE22    | 11/25/2013 | vandalized section of secluded fence at base              | 566933       | 2386688 | NE22    |
| NE24    | 03/03/2014 | poacher hole in fence                                     | 572341       | 2379439 | NE24    |
| NE25    | 03/03/2014 | hole in fence   | 571059       | 2380588 | NE25    |
| NE26    | 03/03/2014 | hole in fence   | 571062       | 2380862 | NE26    |
| NE27    | 03/03/2014 | hole in fence   | 571068       | 2381194 | NE27    |
| NE28    | 03/03/2014 | hole in fence   | 571112       | 2383373 | NE28    |
| NE29    | 03/05/2014 | hole in fence   | 570046       | 2384741 | NE29    |
| NW08    | 07/16/2013 | open along top apx 6 sections(swampy)                     | 567746       | 2349644 | NW08    |

REPAIRED 1ST QTR

REPAIRED 2ND QTR

REPAIRED 3RD QTR

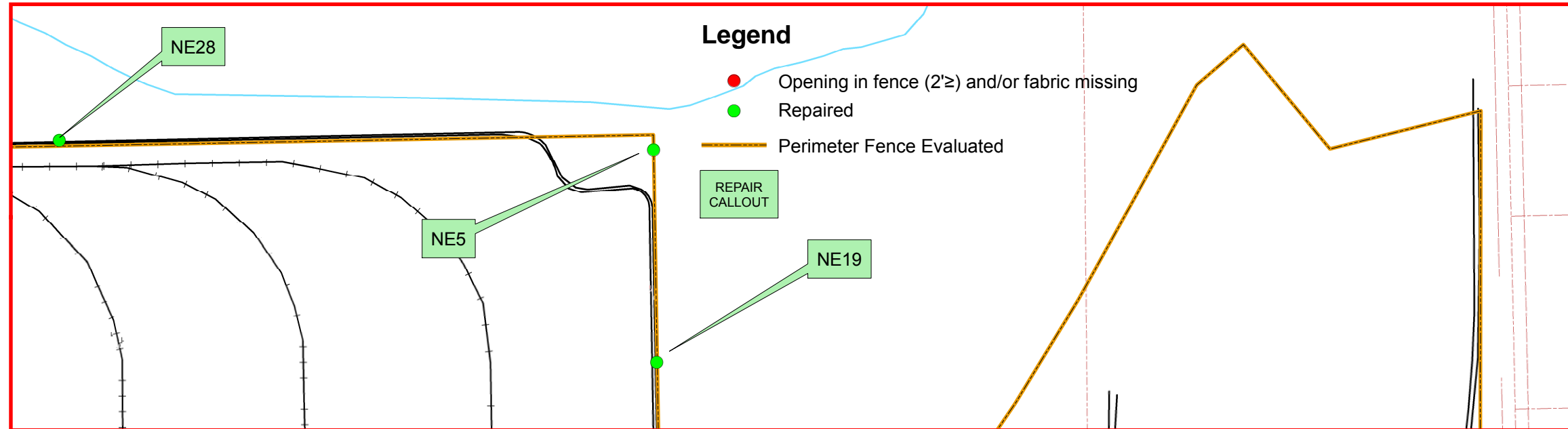
REPAIRED 4TH QTR



## **NE (Northeast) Quadrant**



## DETAIL SHEET FOR NE5



## LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

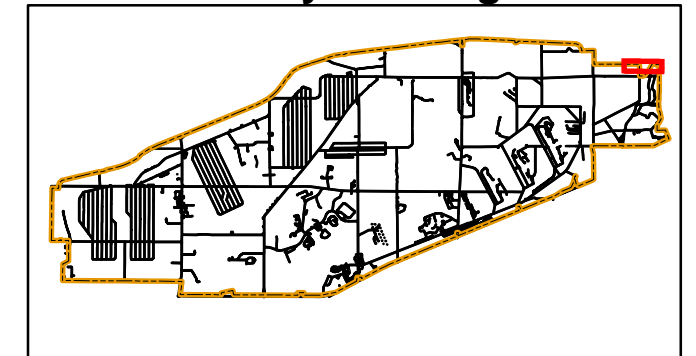
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PHOTO NE5 discovered 02/13/2013



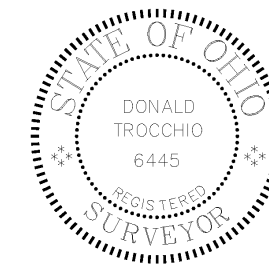
### Camp Ravenna Joint Military Training Center



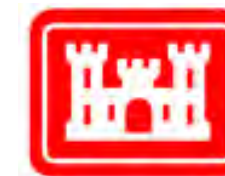
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



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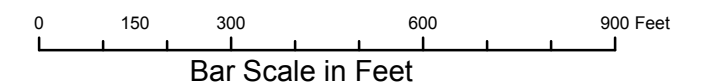
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Plane Rectangular Grid, North Zone

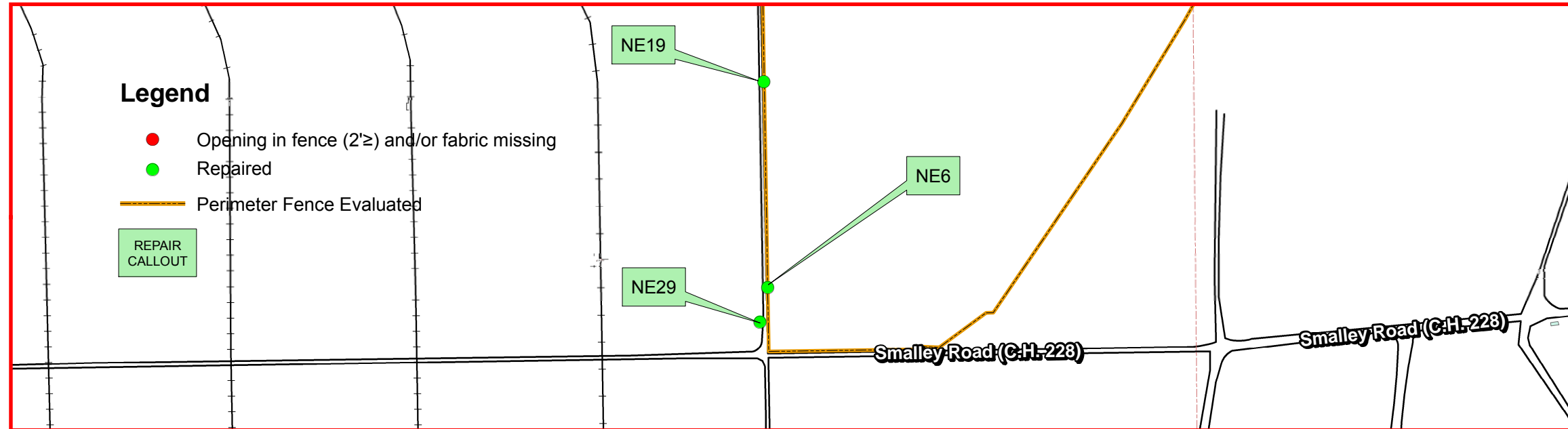


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DETAIL SHEET FOR NE5



## DETAIL SHEET FOR NE6



# LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

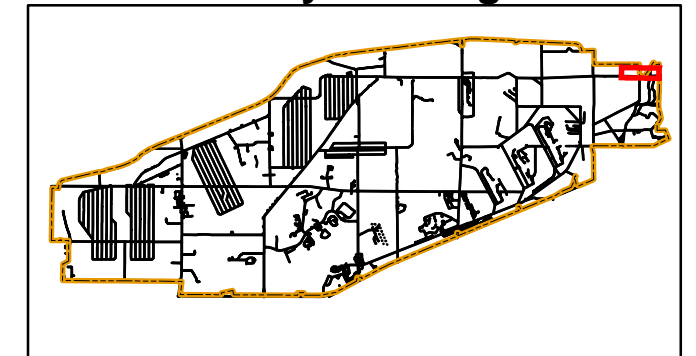
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PHOTO NE6 discovered 03/03/2014



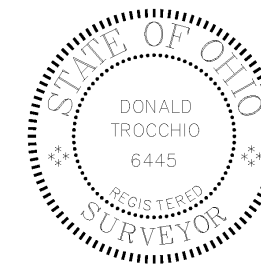
## Camp Ravenna Joint Military Training Center



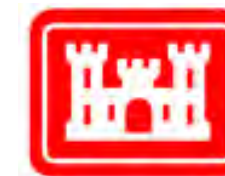
Portage & Trumbull County  
**LOCATOR MAP**



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0 150 300 600 900 Feet  
Bar Scale in Feet

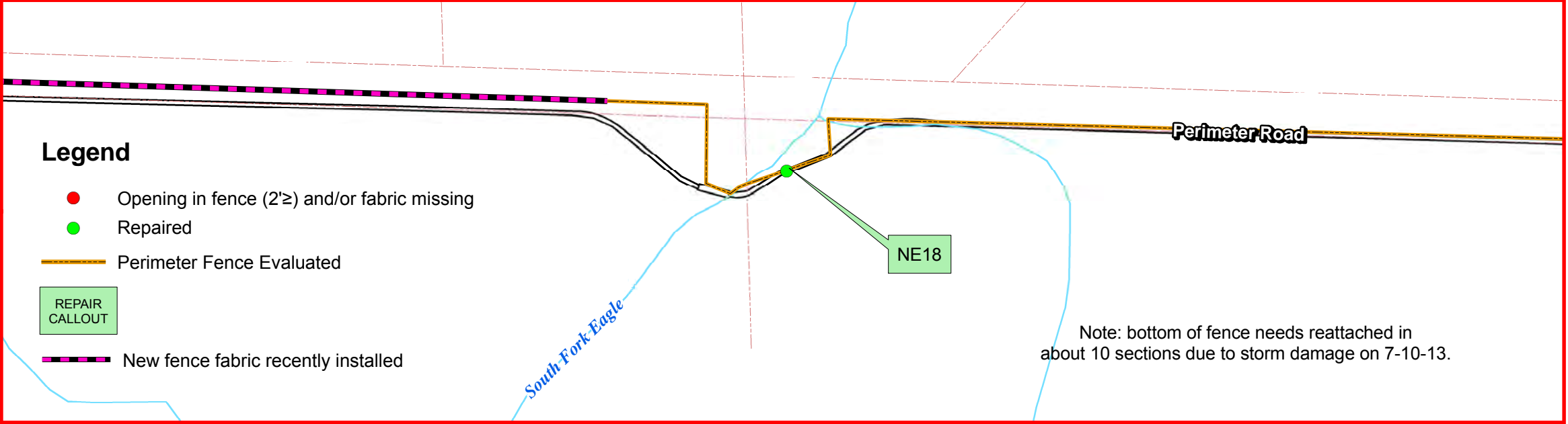


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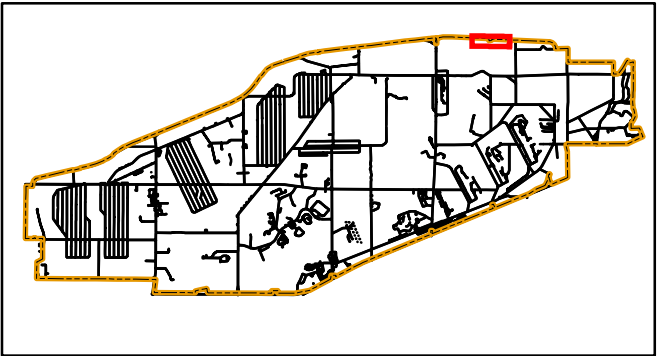
DETAIL SHEET FOR NE6



# DETAIL SHEET FOR NE18



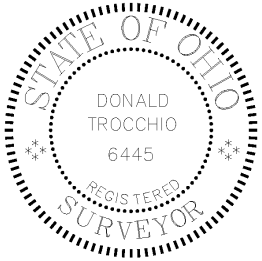
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



**Ohio Army National Guard**



## LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

PHOTO NE18 repaired 04/17/2014



PHOTO NE18 discovered 07/17/2013



Produced in July 2014 for:



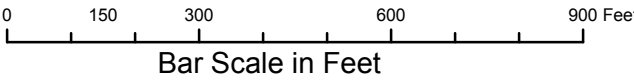
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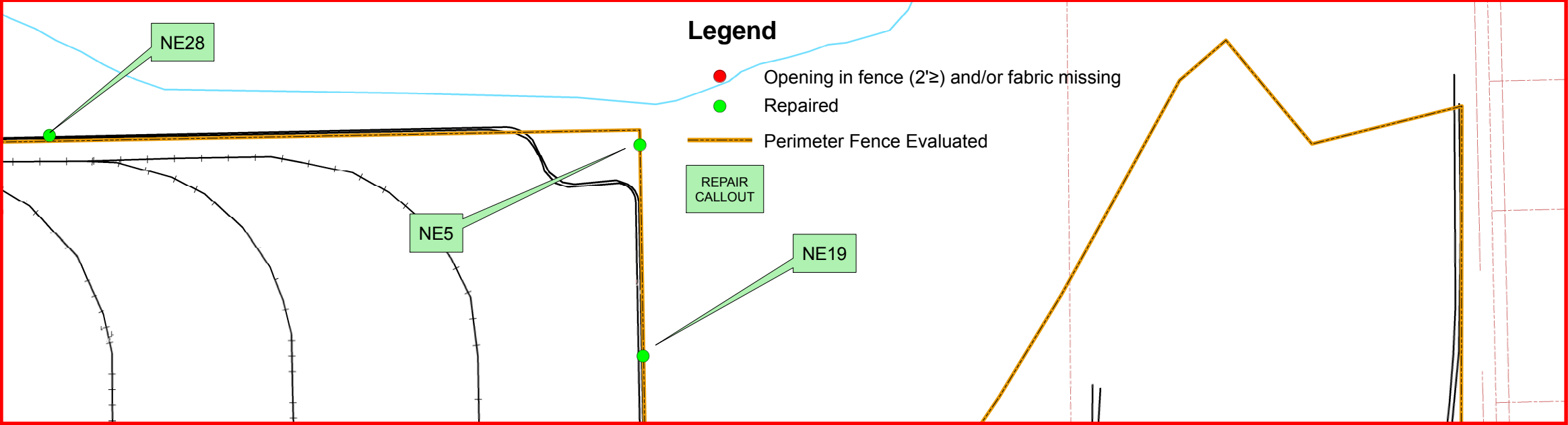
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DETAIL SHEET FOR NE18



DETAIL SHEET FOR NE19



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

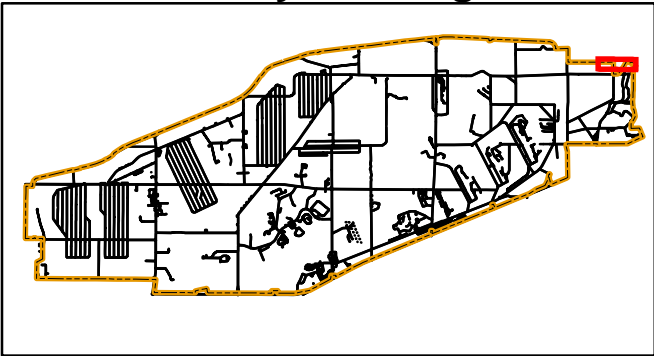
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PHOTO NE19 discovered 07/17/2013



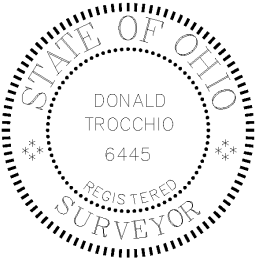
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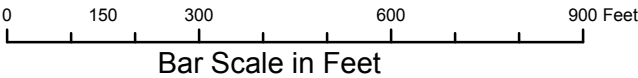
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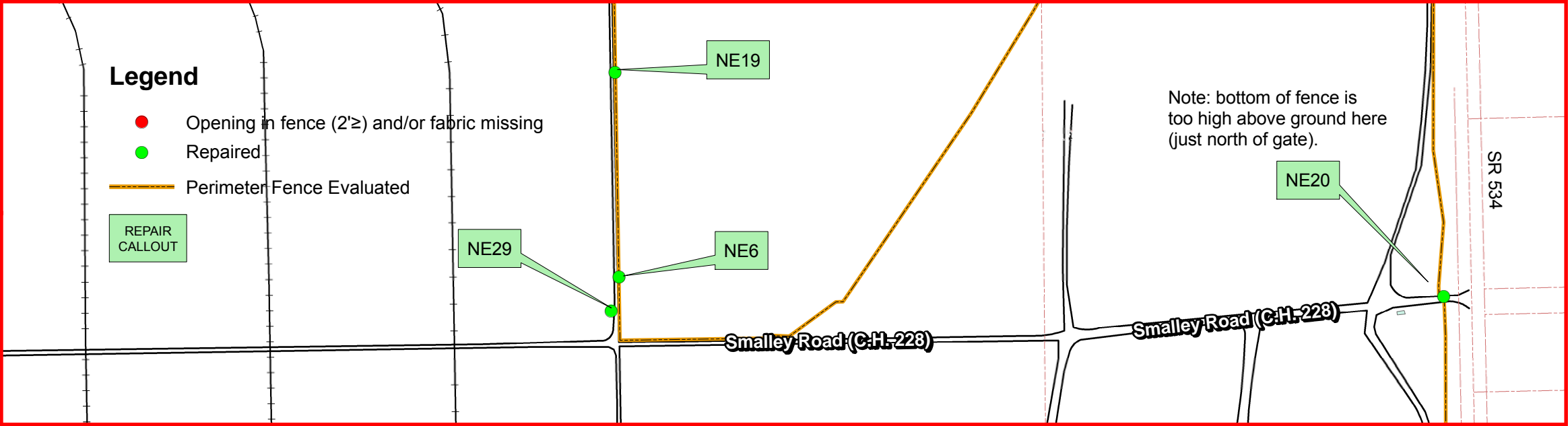
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DETAIL SHEET FOR NE19



DETAIL SHEET FOR NE20



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

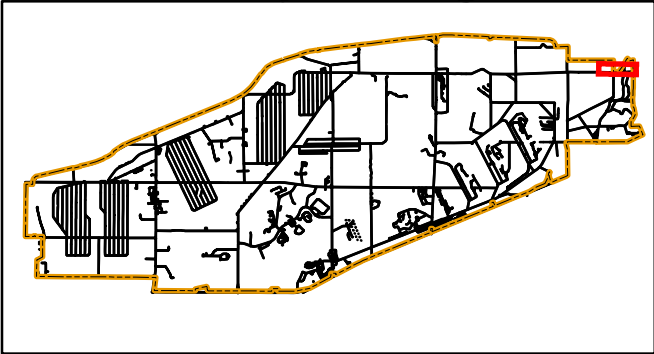
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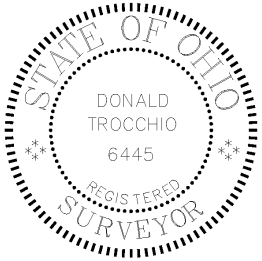
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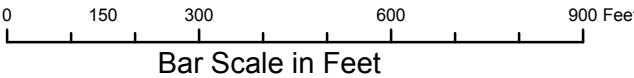
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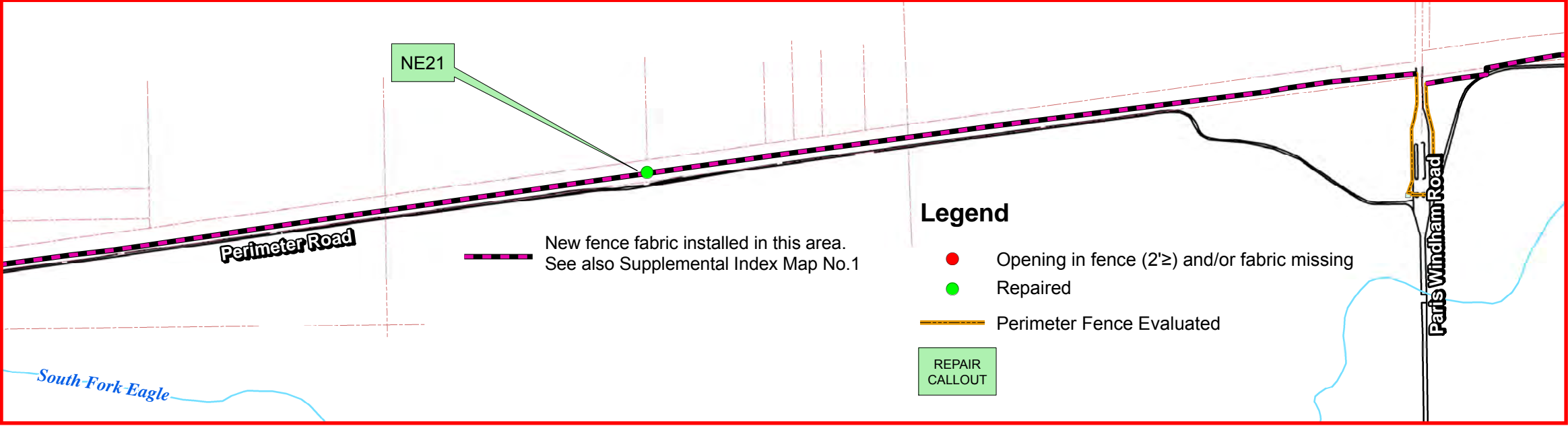
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DETAIL SHEET FOR NE20



DETAIL SHEET FOR NE21



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

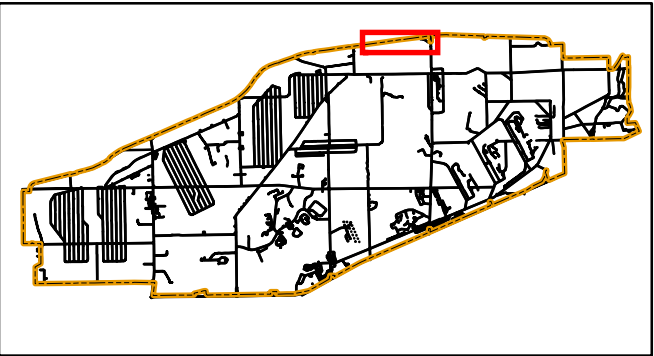
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PHOTO NE21 discovered 11/21/2013



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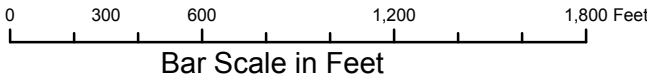
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DETAIL SHEET FOR NE21



DETAIL SHEET FOR NE22



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

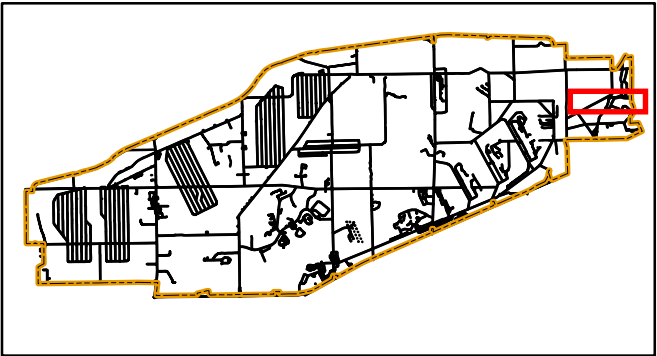
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PHOTO NE22 discovered 11/25/2013



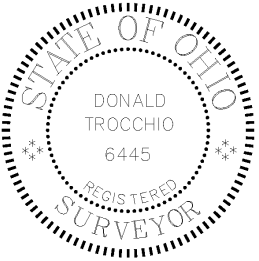
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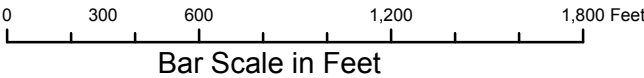
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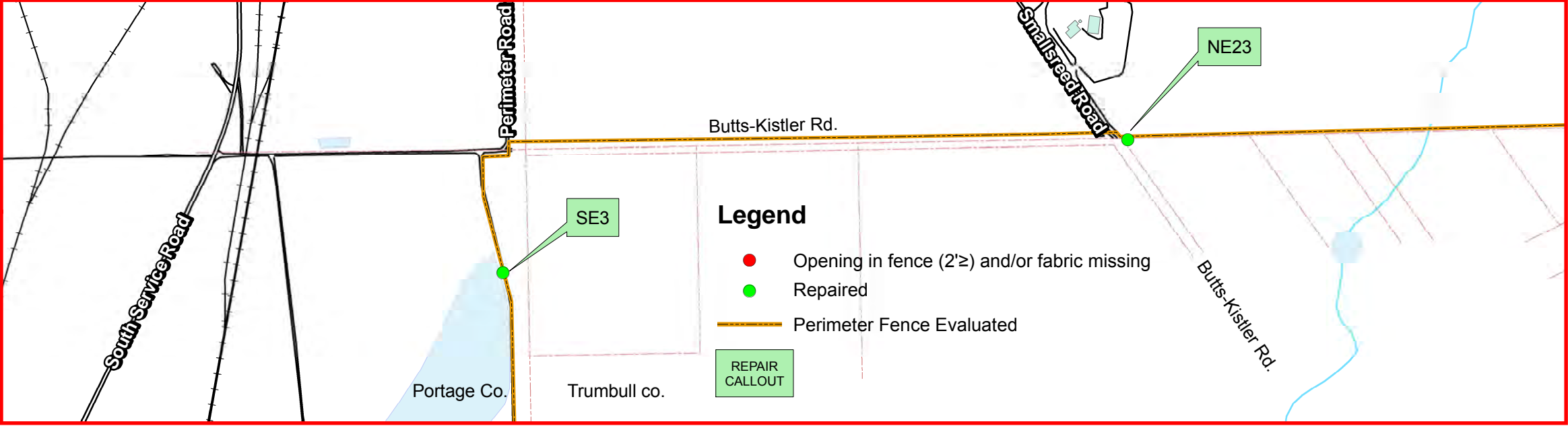
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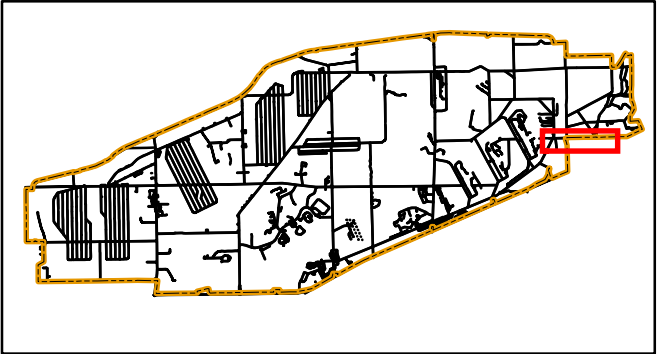
DETAIL SHEET FOR NE22



DETAIL SHEET FOR NE23



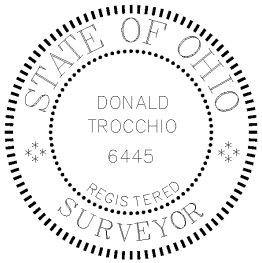
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Portage & Trumbull County  
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Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE23 repair 03/05/2014



PHOTO NE23 discovered 11/25/2013



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0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



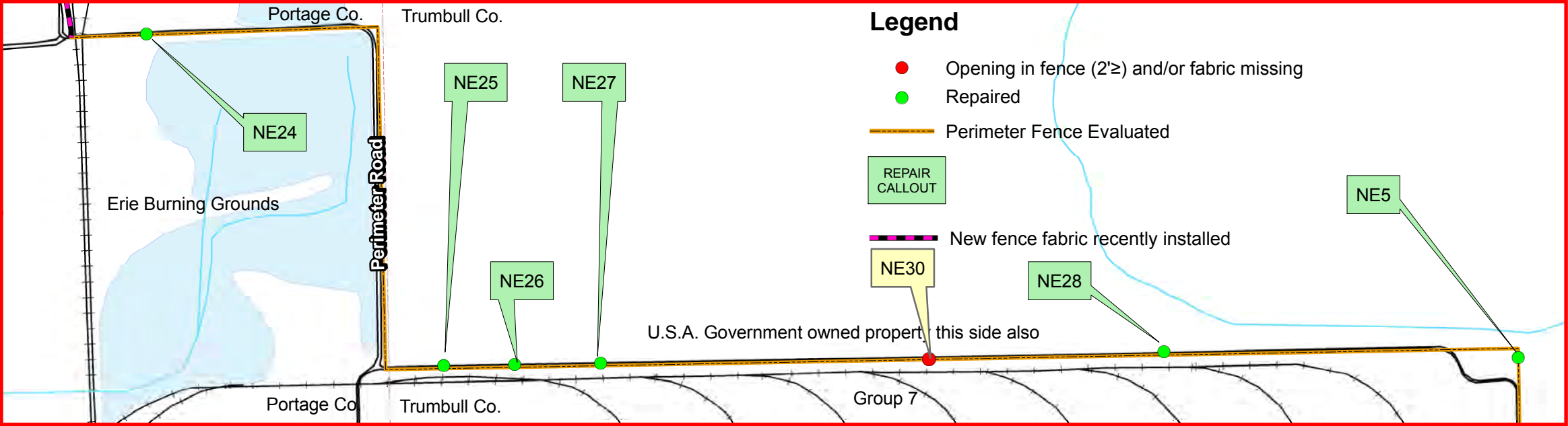
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DETAIL SHEET FOR NE23



DETAIL SHEET FOR NE24



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

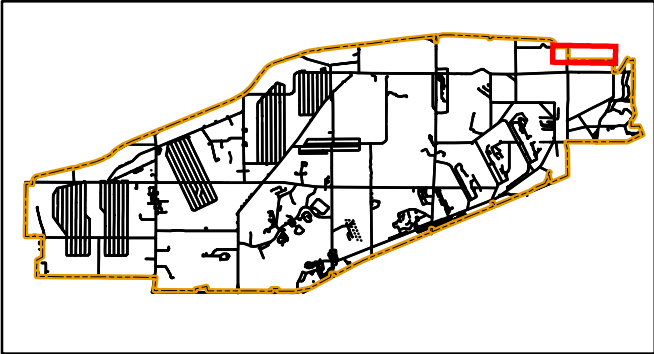
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PHOTO NE24 discovered 03/03/2014



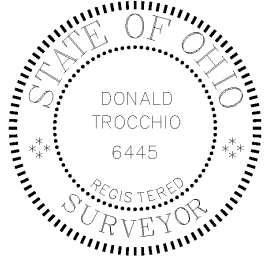
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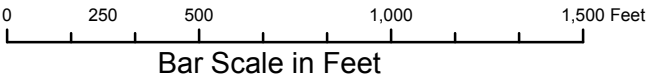
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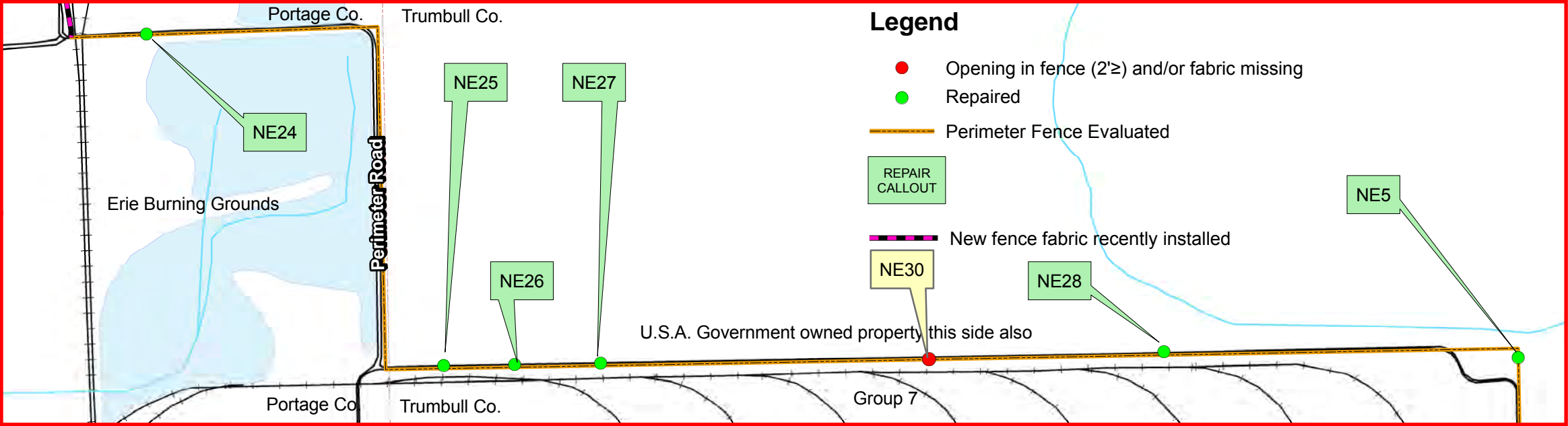
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

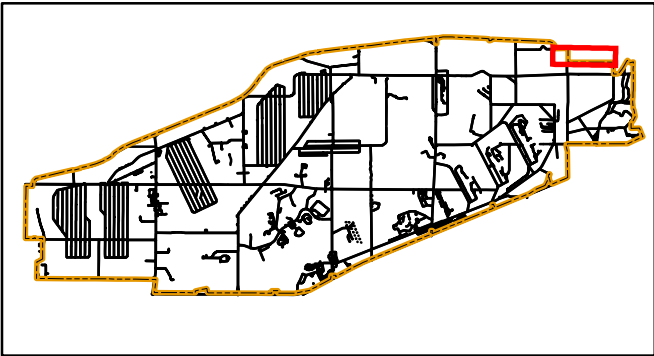
DETAIL SHEET FOR NE24



DETAIL SHEET FOR NE25



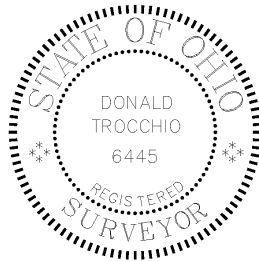
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE25 repaired 04/17/2014



PHOTO NE25 discovered 03/03/2014



Produced in July 2014 for:



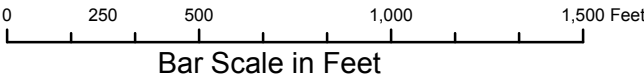
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



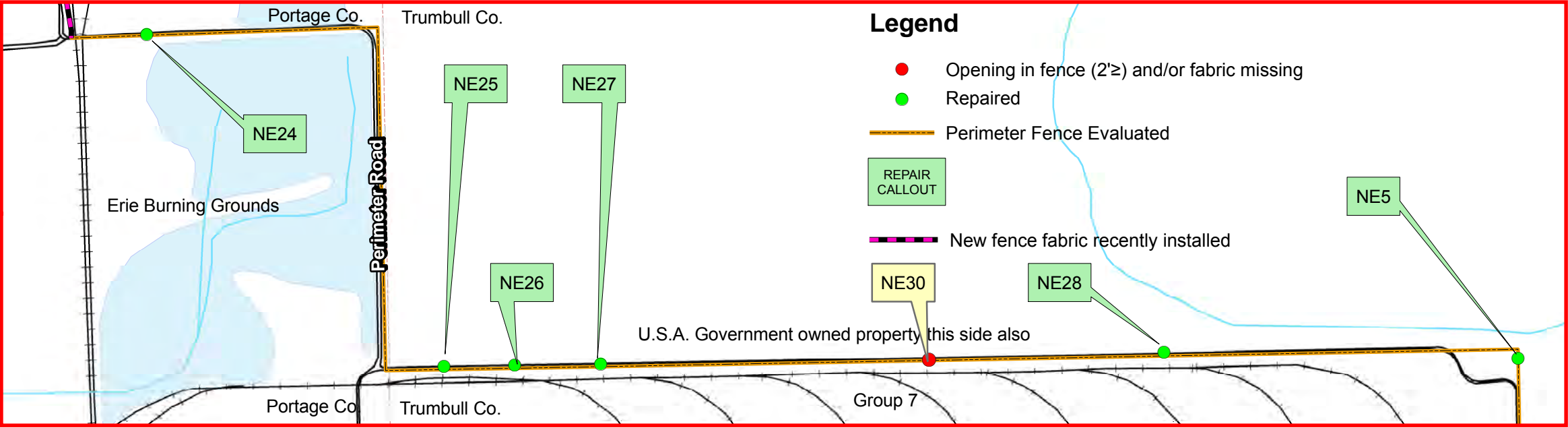
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE25



DETAIL SHEET FOR NE26



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

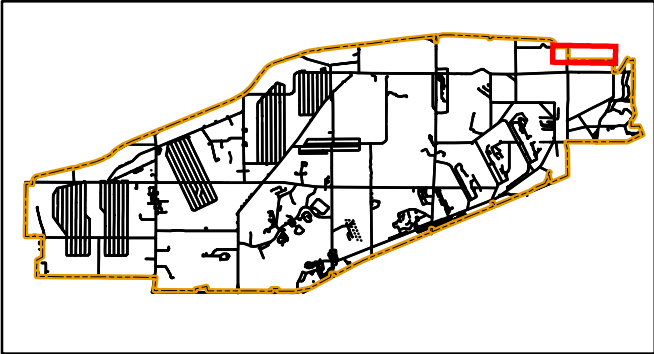
PHOTO NE26 repaired 04/17/2014



PHOTO NE26 discovered 03/03/2014



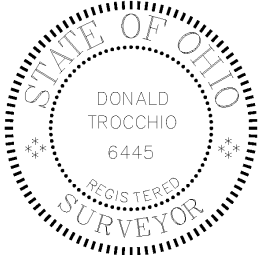
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



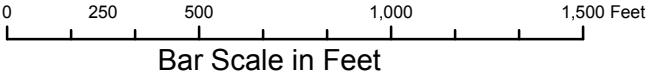
**US Army Corps of Engineers**

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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



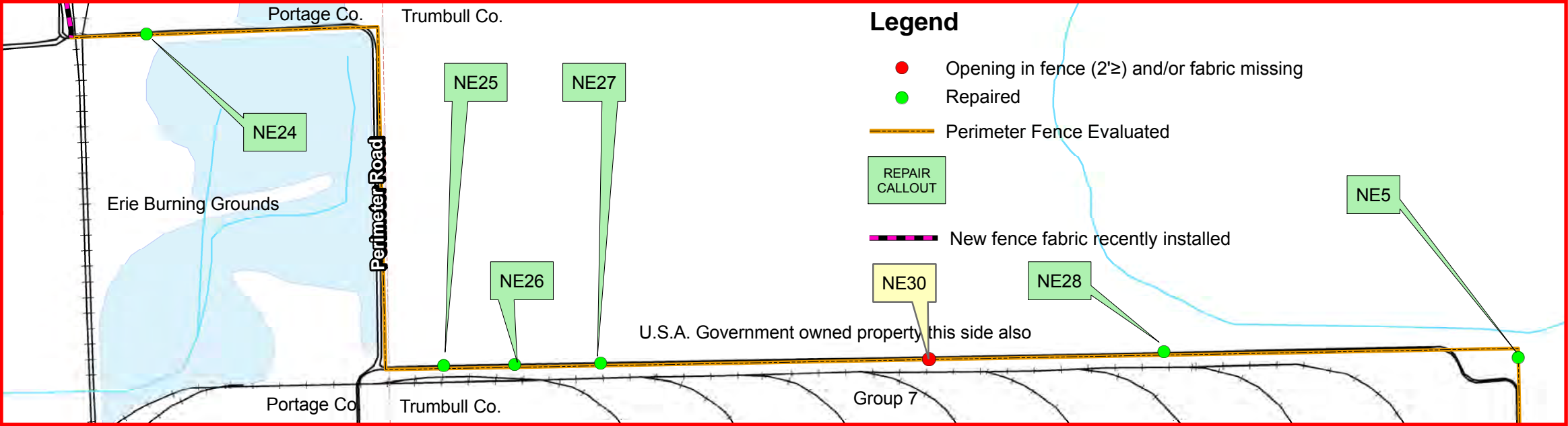
Camp Ravenna JMTC  
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Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE26



DETAIL SHEET FOR NE27

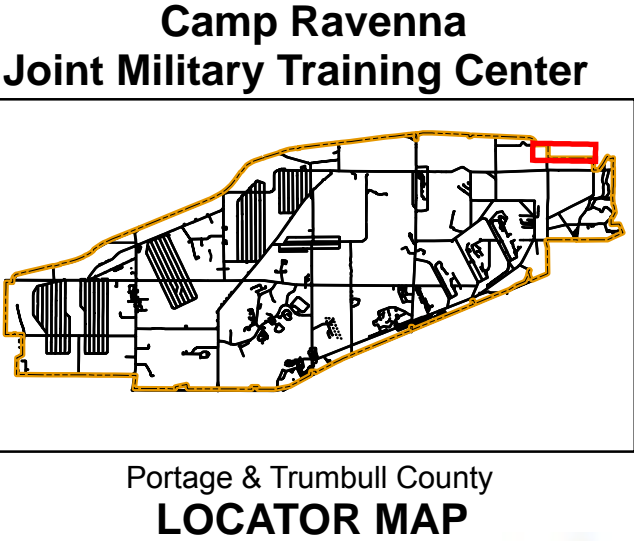


LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE27 repaired 04/17/2014



PHOTO NE27 discovered 03/03/2014



Produced in July 2014 for:

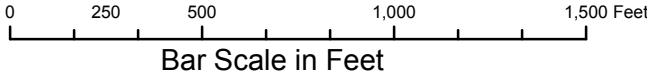


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Louisville District



Projection Datum is NAD83, Ohio State  
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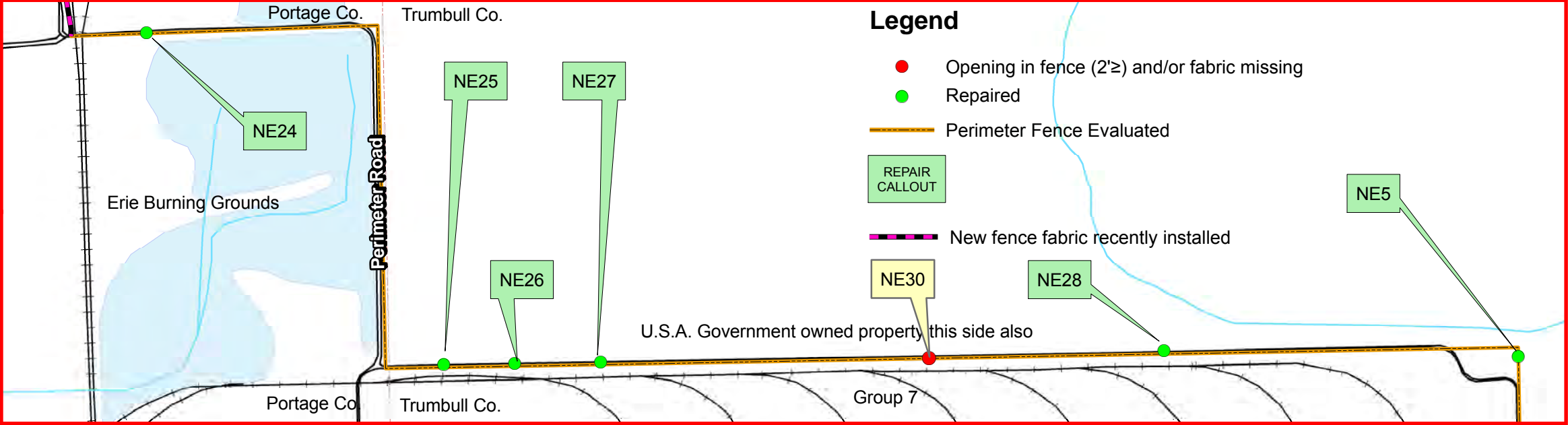


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Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

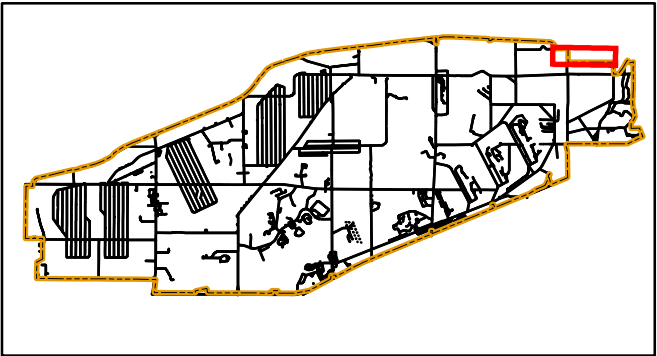
DETAIL SHEET FOR NE27



DETAIL SHEET FOR NE28



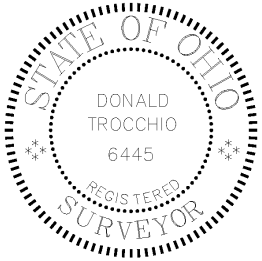
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO NE28 repaired 04/17/2014



PHOTO NE28 discovered 03/03/2014



Produced in July 2014 for:



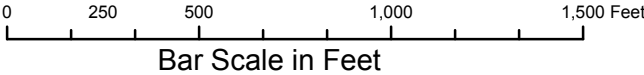
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Projection Datum is NAD83, Ohio State  
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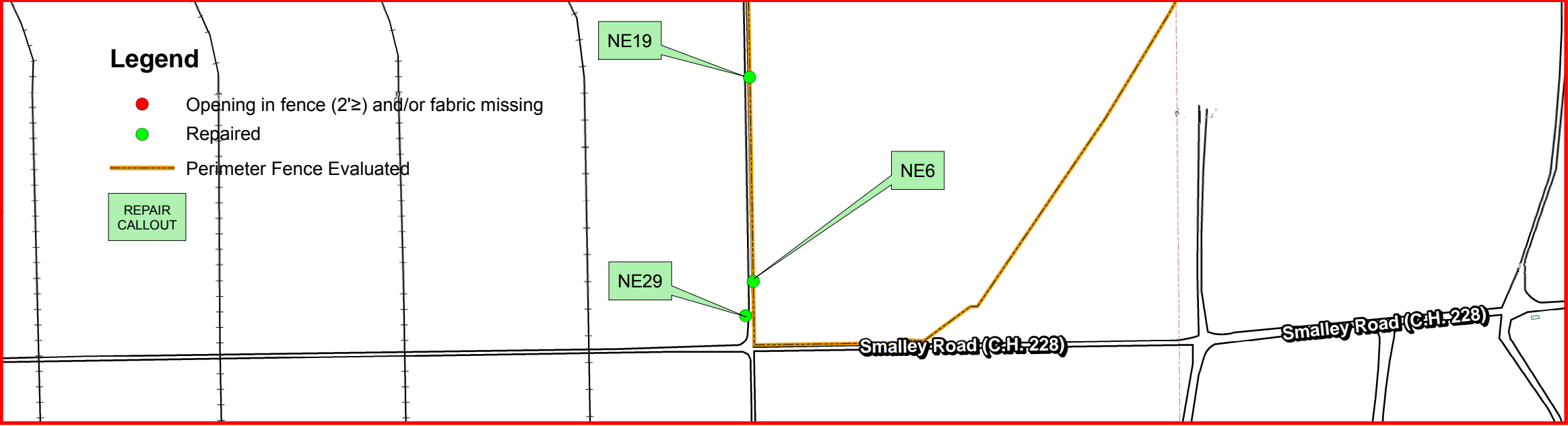
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE28



DETAIL SHEET FOR NE29



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

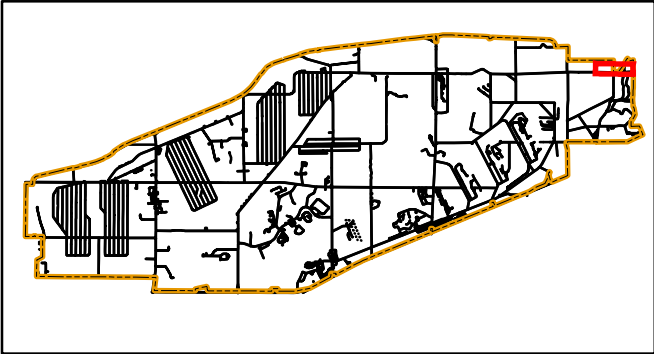
PHOTO NE29 repaired 04/17/2014



PHOTO NE29 discovered 03/05/2014



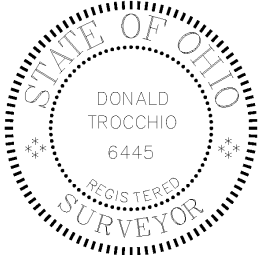
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



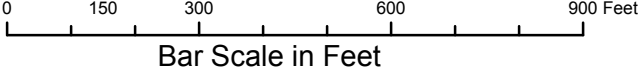
**US Army Corps of Engineers**

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Louisville District



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Plane Rectangular Grid, North Zone



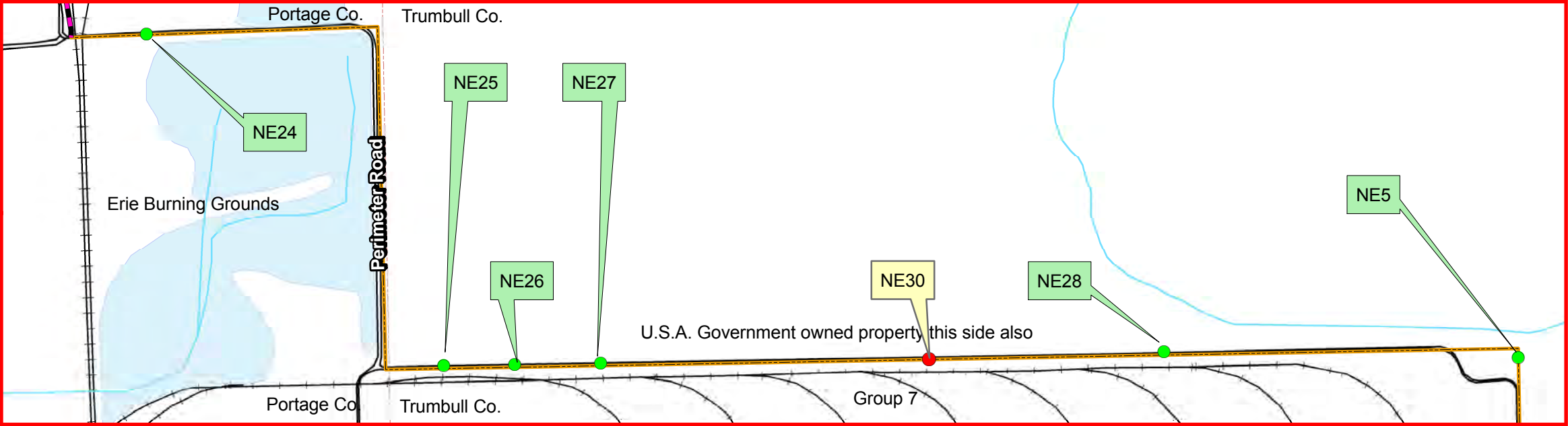
Camp Ravenna JMTC  
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Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE29



DETAIL SHEET FOR NE30



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

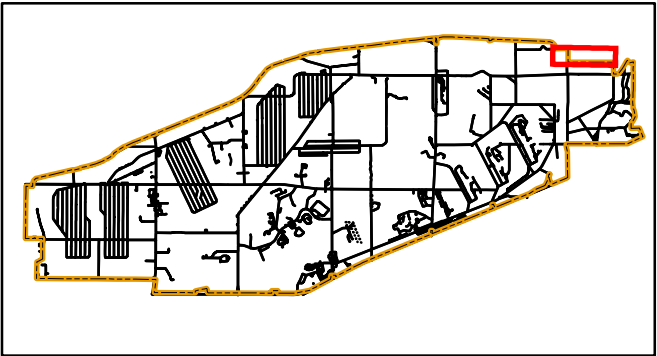
PHOTO NE30 discovered 07/21/2014

Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT
- New fence fabric recently installed



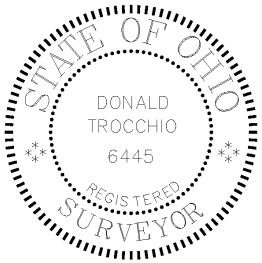
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Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



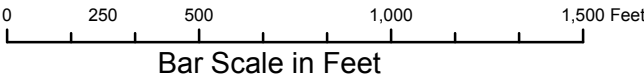
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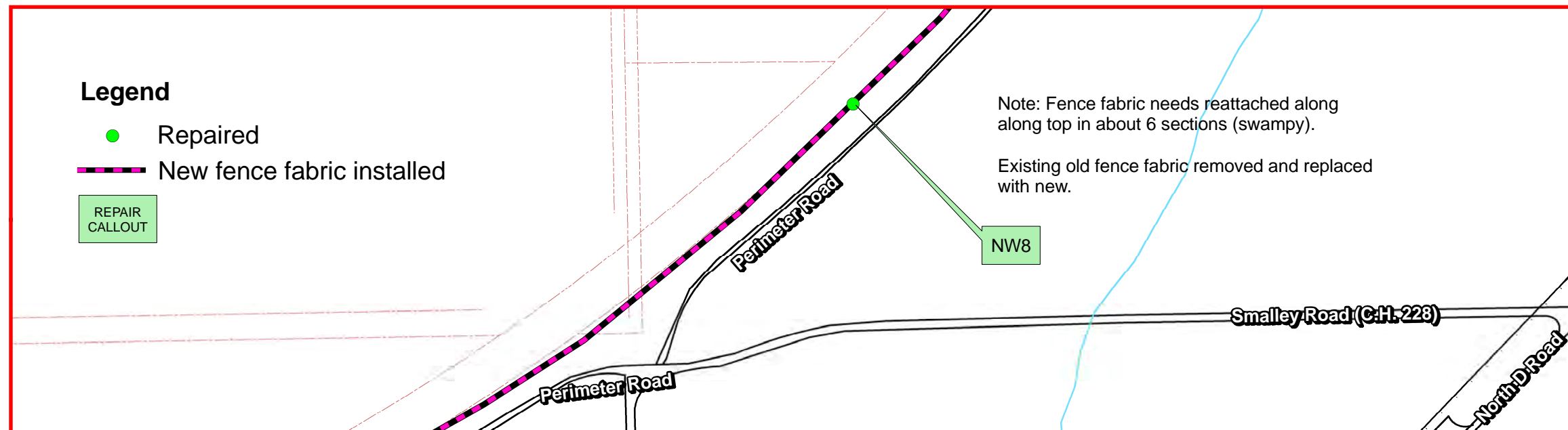
DETAIL SHEET FOR NE30



## **NW (Northwest) Quadrant**



## DETAIL SHEET FOR NW8



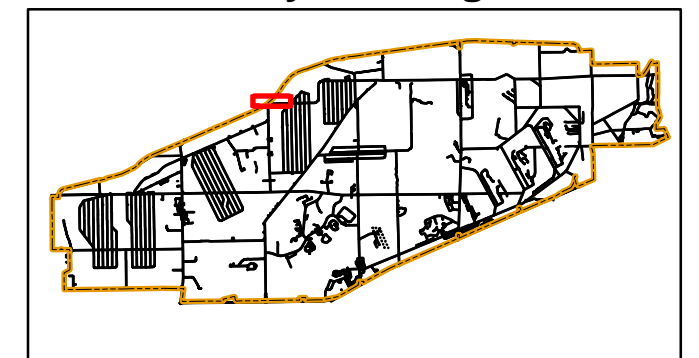
# LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

Repair PHOTO NW8 dated 07/16/2014

PHOTO NW8 discovered 07/16/2013



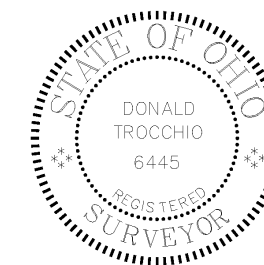
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



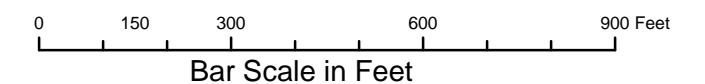
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Projection Datum is NAD83, Ohio State  
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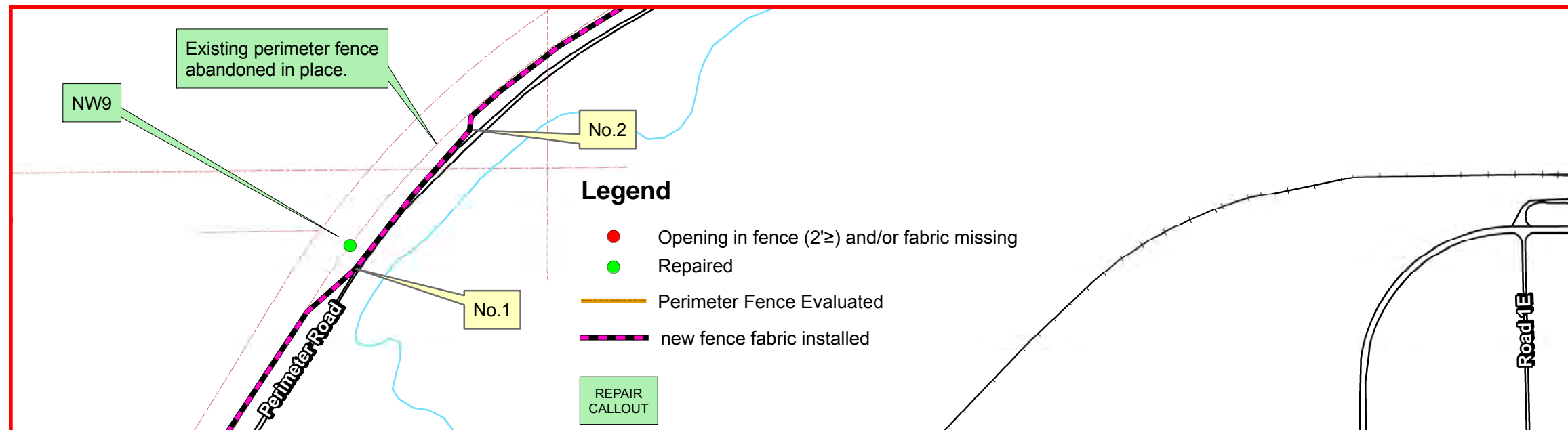
Camp Ravenna JMTC  
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Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW8



## DETAIL SHEET FOR NW9



## LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

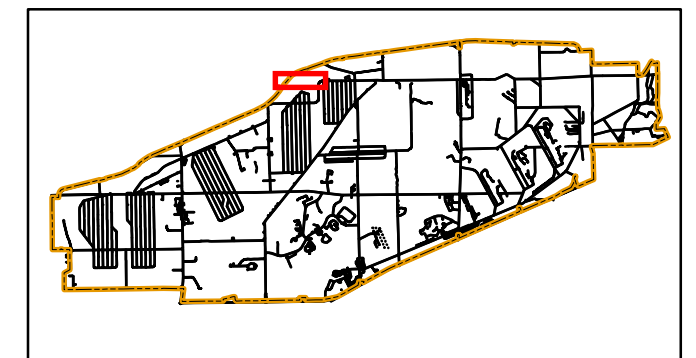
PHOTO No.2 dated April 15, 2014



PHOTO No.1 dated April 15, 2014



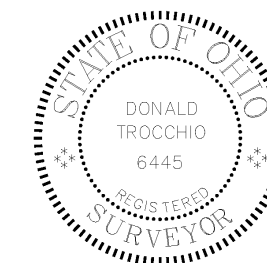
## Camp Ravenna Joint Military Training Center



## Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



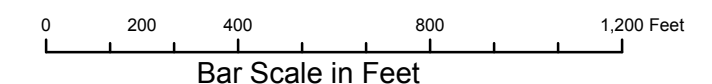
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DETAIL SHEET FOR NW9



DETAIL SHEET FOR NW10



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

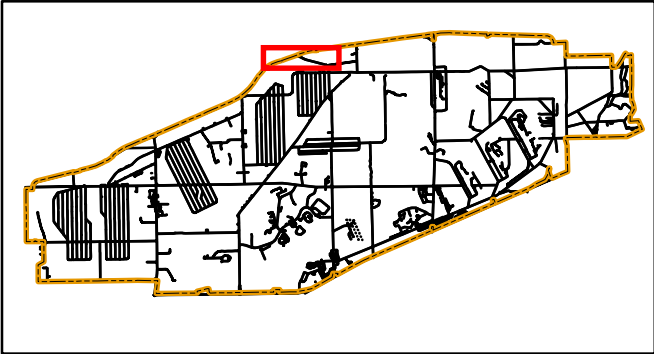
PHOTO NW10 repair 02/26/2014



PHOTO NW10 discovered 11/21/2013



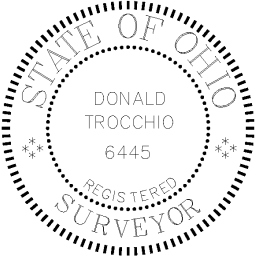
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



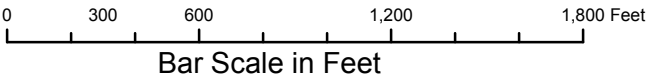
**US Army Corps of  
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Plane Rectangular Grid, North Zone



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Don Trocchio, PS  
don.trocchio@us.army.mil

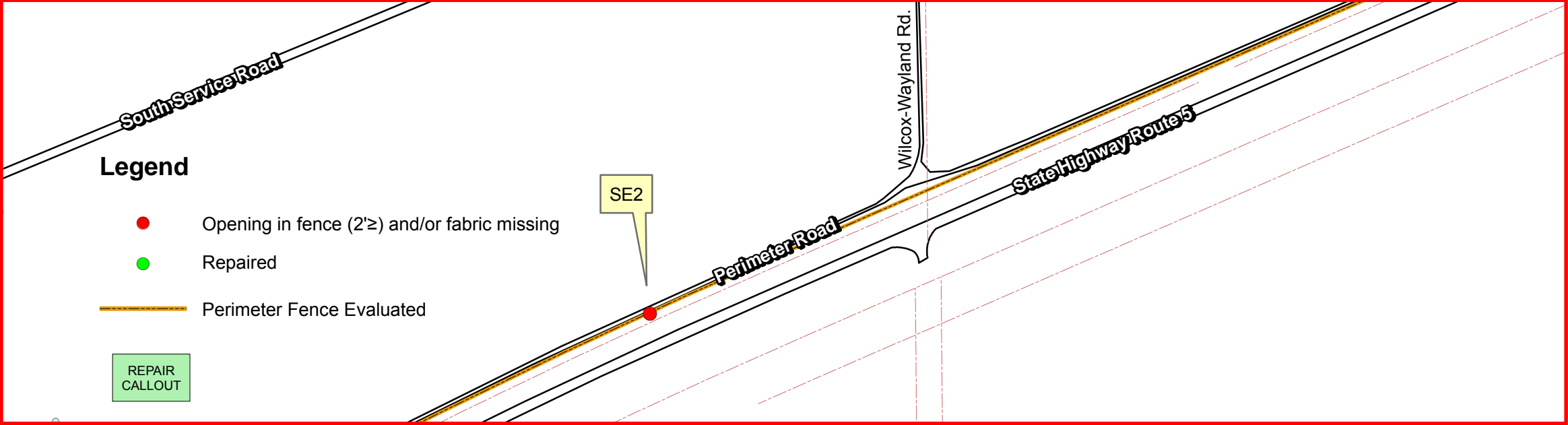
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW10



## **SE (Southeast) Quadrant**

DETAIL SHEET FOR SE2

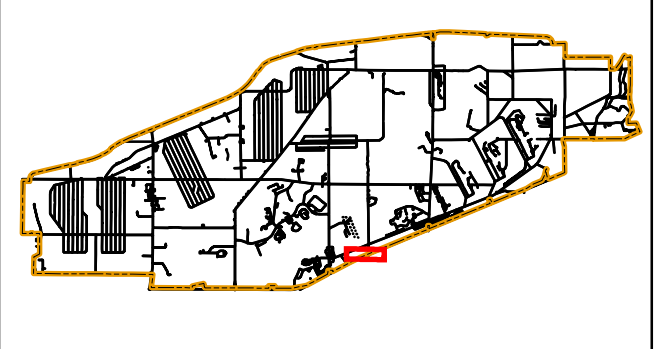


LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



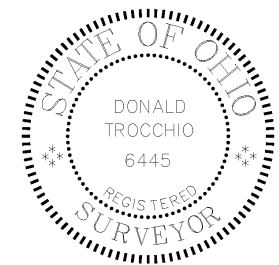
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



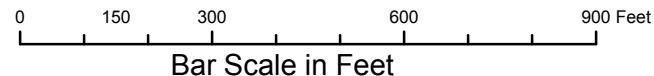
**US Army Corps of Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

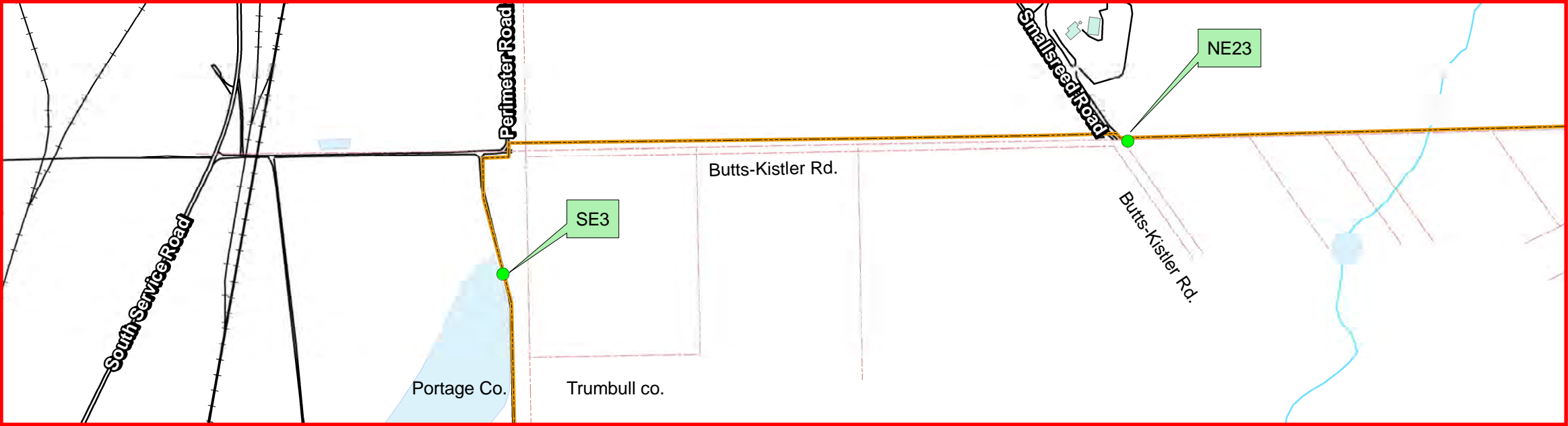


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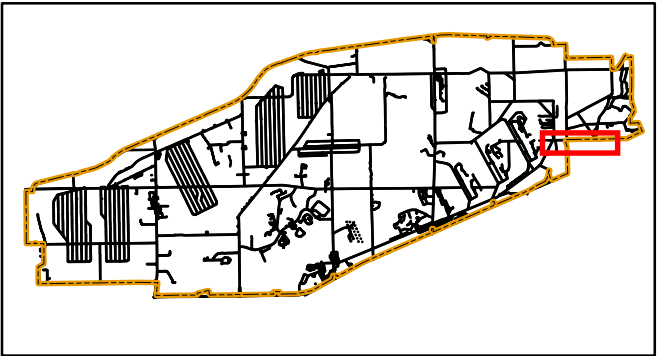
DETAIL SHEET FOR SE2



DETAIL SHEET FOR SE3



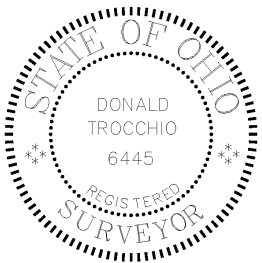
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SE3 repair 02/27/2014



PHOTO SE3 discovered 11/25/2013



Produced in July 2014 for:



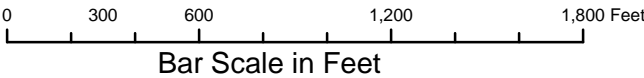
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Engineers**

600 Dr. Martin Luther King Jr. Place  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



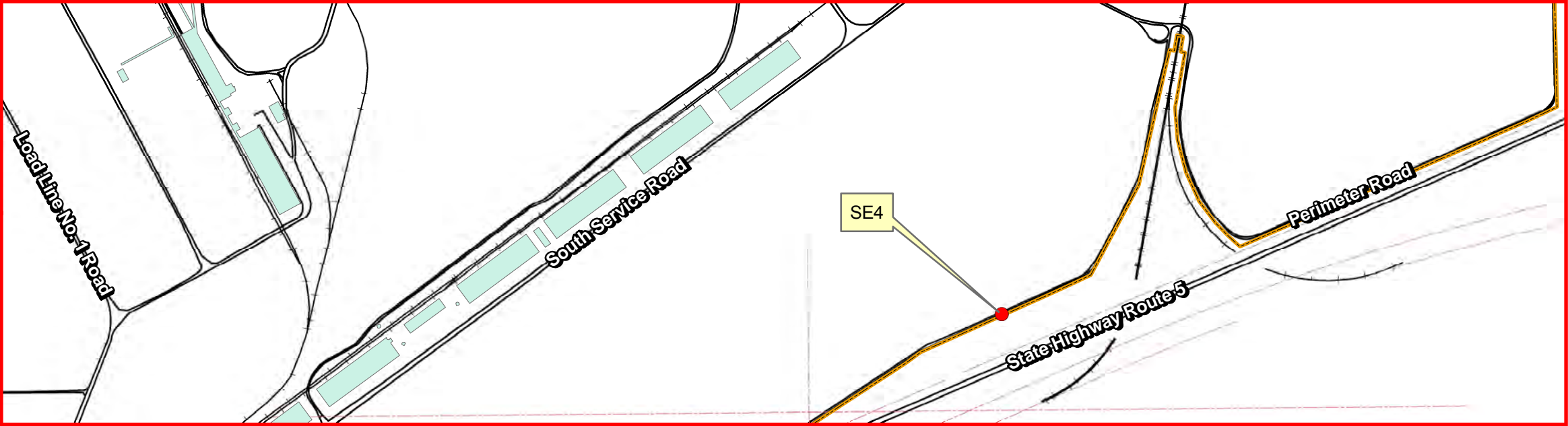
Camp Ravenna JMTc  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE3



DETAIL SHEET FOR SE4



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

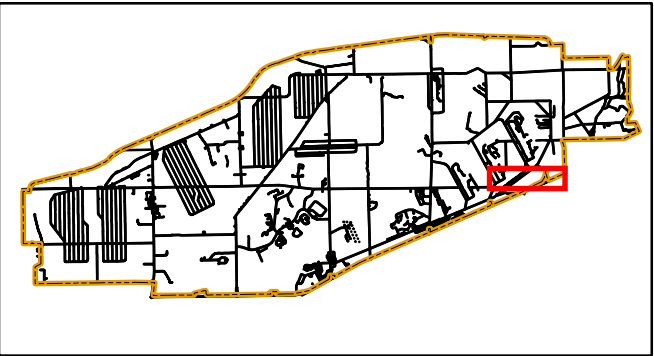
PHOTO SE4 discovered 02/27/2014

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



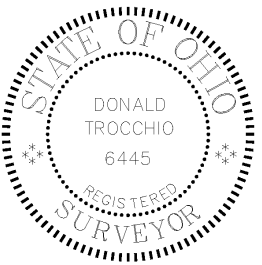
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



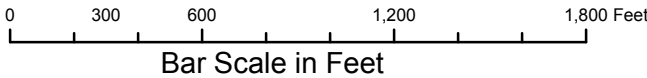
**US Army Corps of  
Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



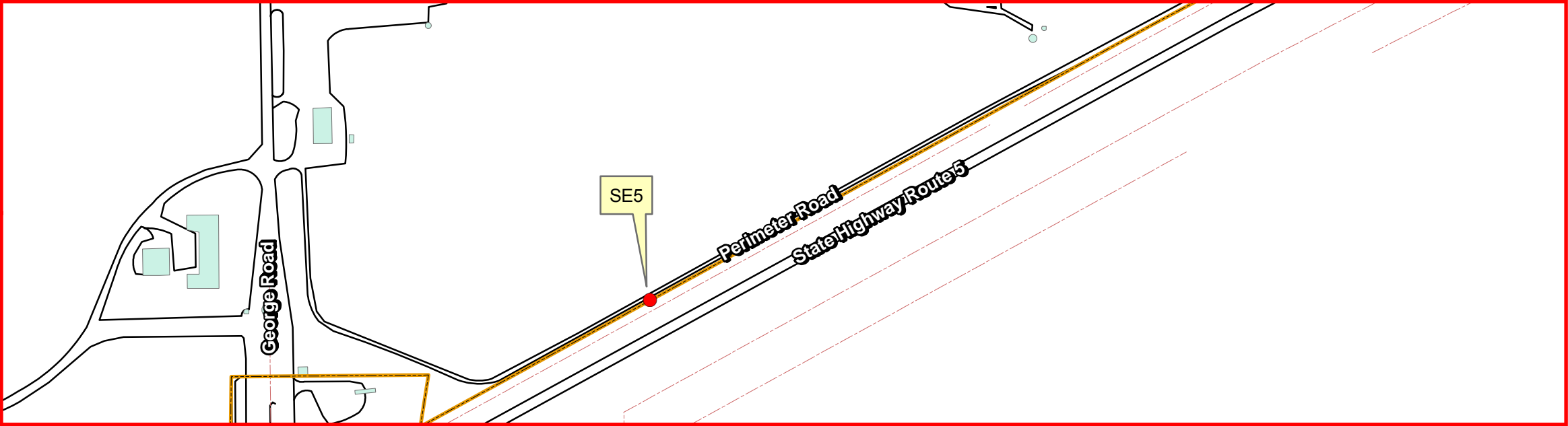
Camp Ravenna JMTc  
1438 State Route 534 SW  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE4



DETAIL SHEET FOR SE5



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

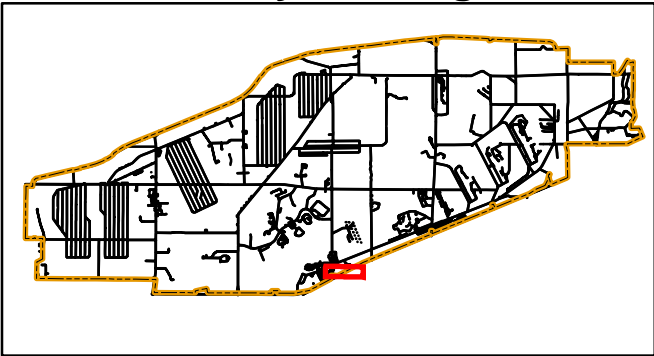
Legend

- Opening in fence (2'±) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT

PHOTO SE5 discovered 04/22/2014



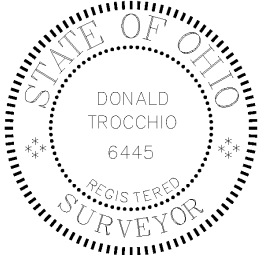
Camp Ravenna  
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Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



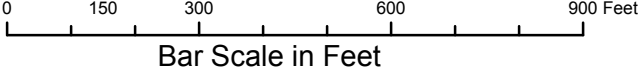
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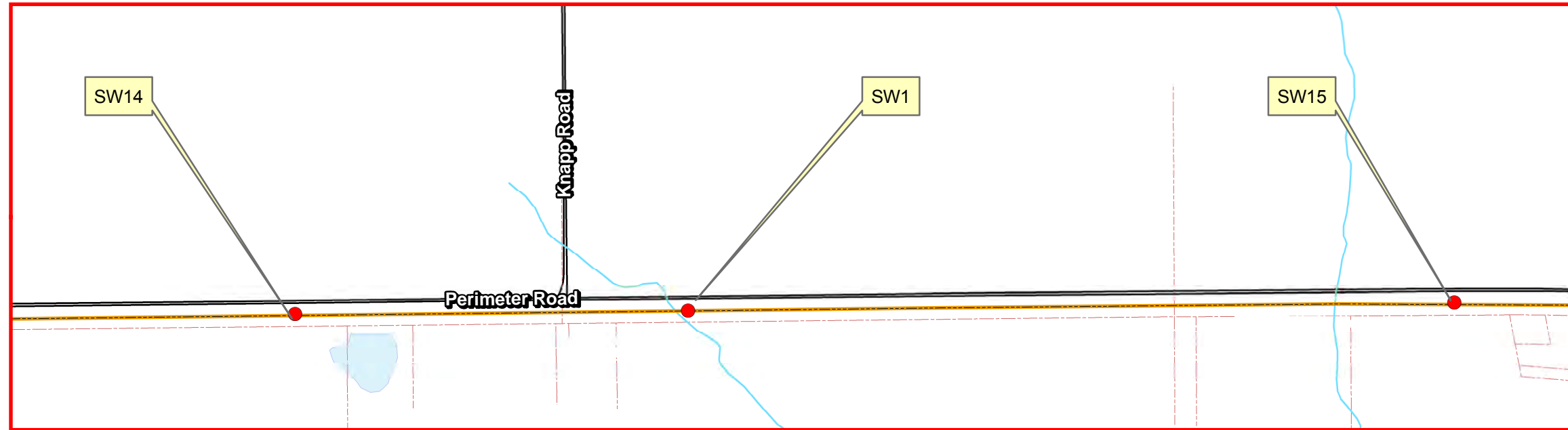
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE5

## **SW (Southwest) Quadrant**



## DETAIL SHEET FOR SW1



# LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

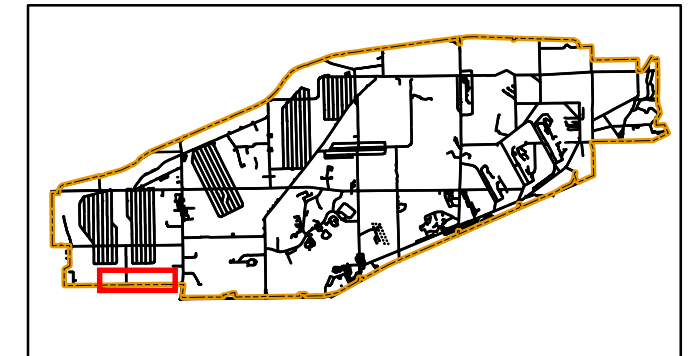
PHOTO SW1 discovered 02/07/2013

### Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



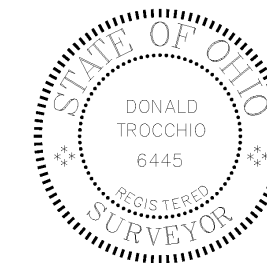
## Camp Ravenna Joint Military Training Center



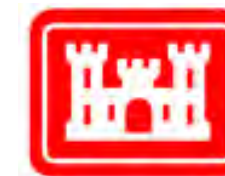
Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



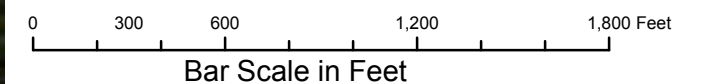
**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



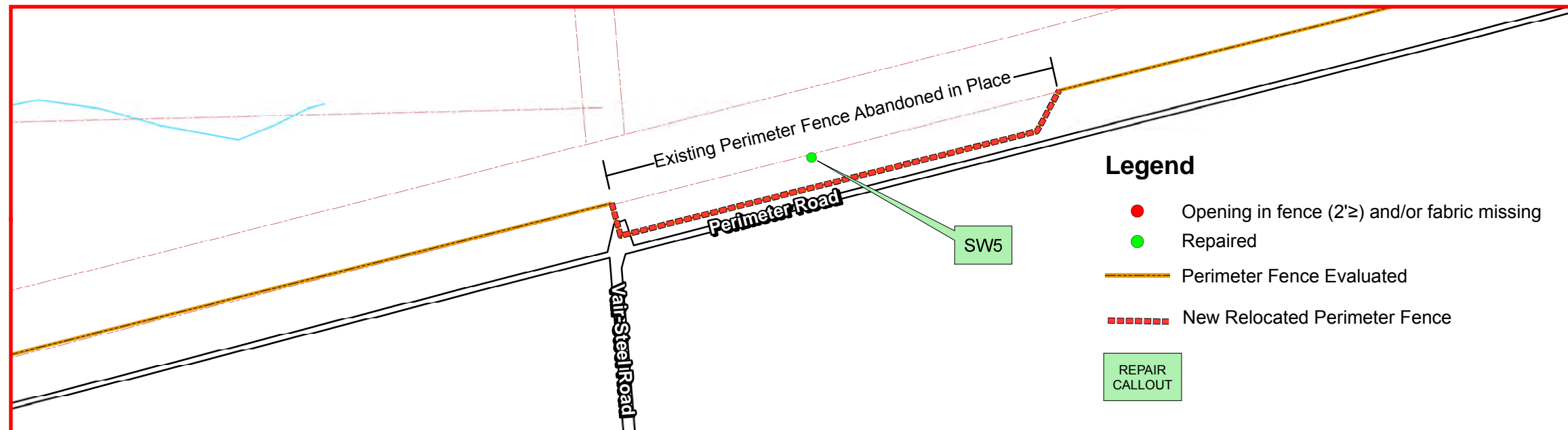
Camp Ravenna JMTC  
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW1



## DETAIL SHEET FOR SW5



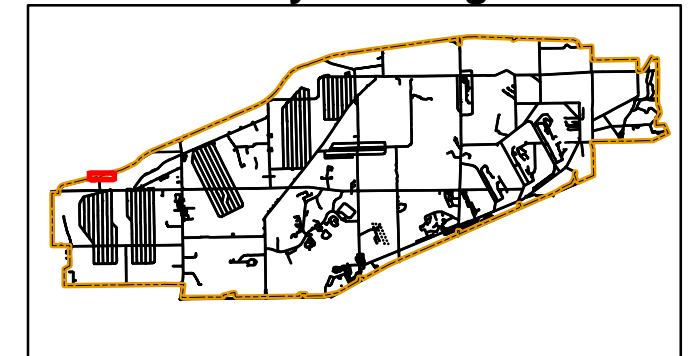
## LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

REPAIR PHOTO SW5 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013

PHOTO SW5 discovered 02/12/2013



## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



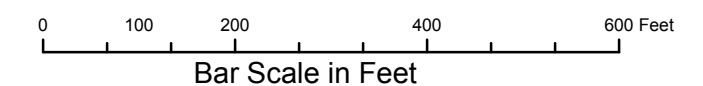
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

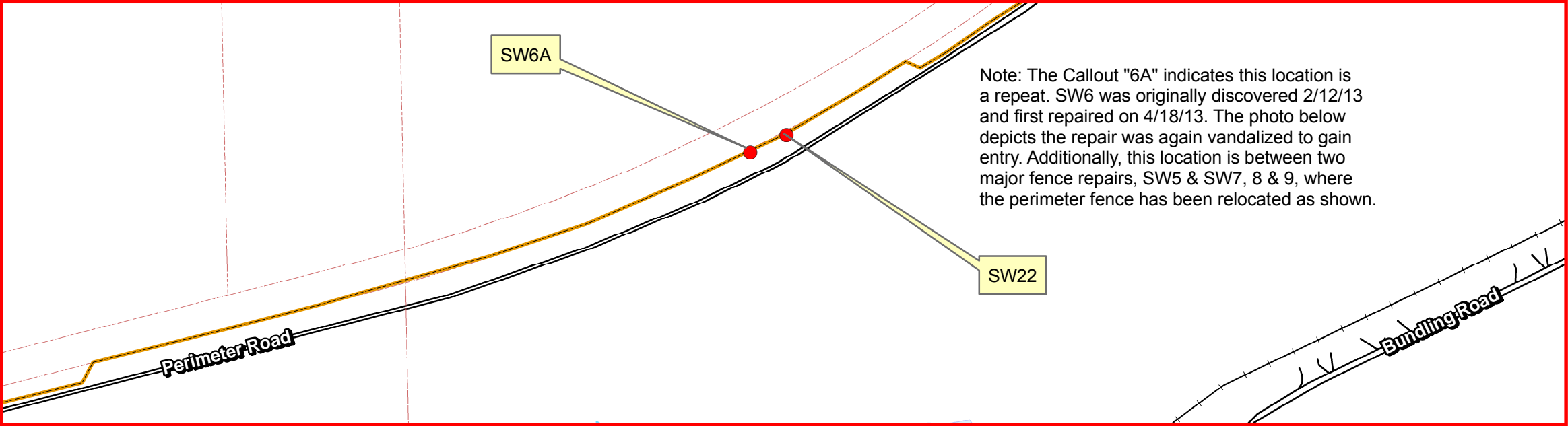


Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil  
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW5



DETAIL SHEET FOR SW6A



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

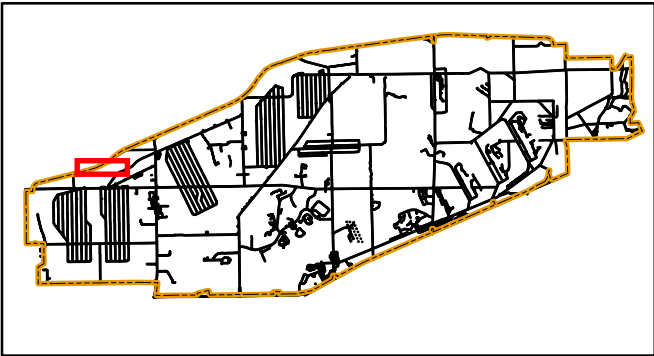
PHOTO SW6A discovered 07/16/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



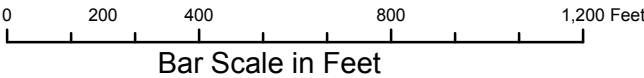
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



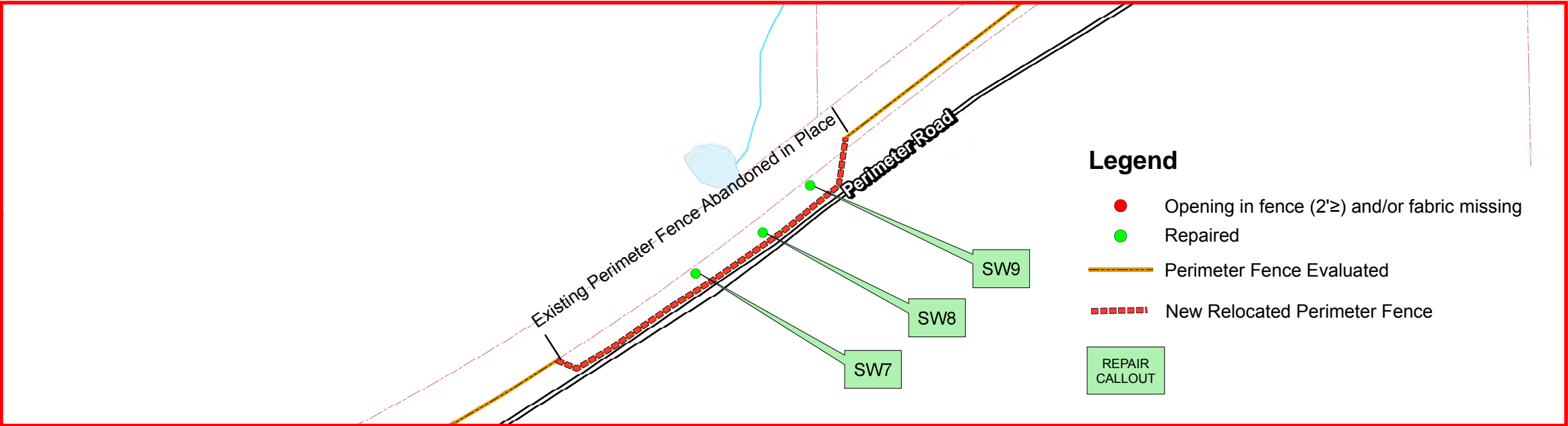
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW6A



DETAIL SHEET FOR SW7, SW8 and SW9



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

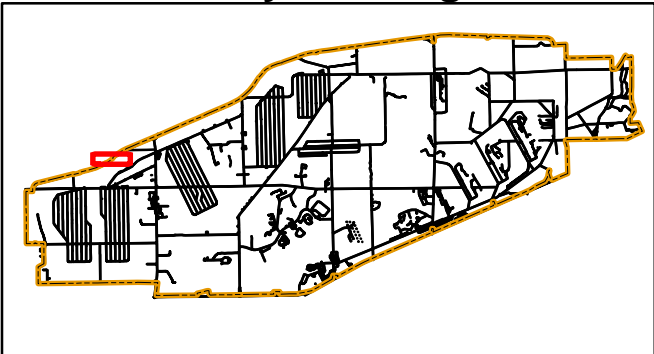
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE  
dated 11/19/2013



PHOTO SW7 discovered 02/12/2013



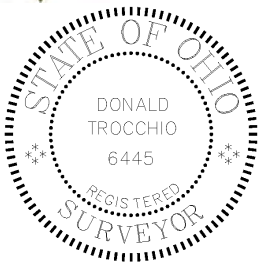
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



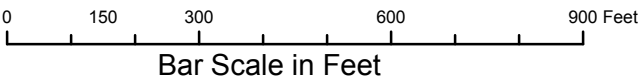
**US Army Corps of  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



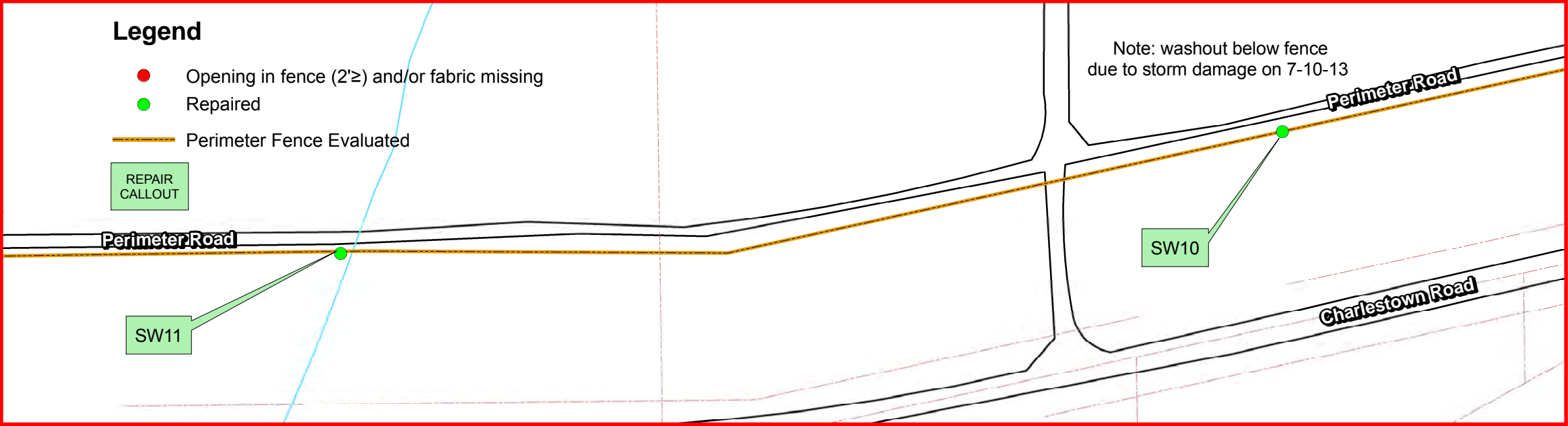
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW7, SW8, SW9



DETAIL SHEET FOR SW10



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

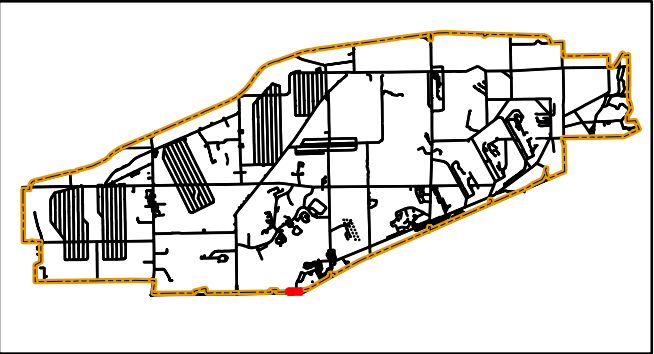
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



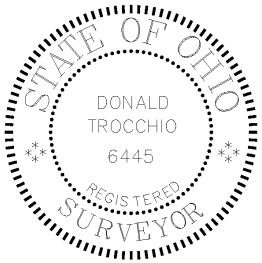
Camp Ravenna  
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Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



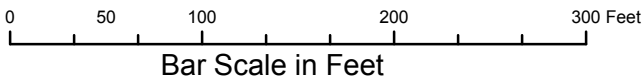
**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



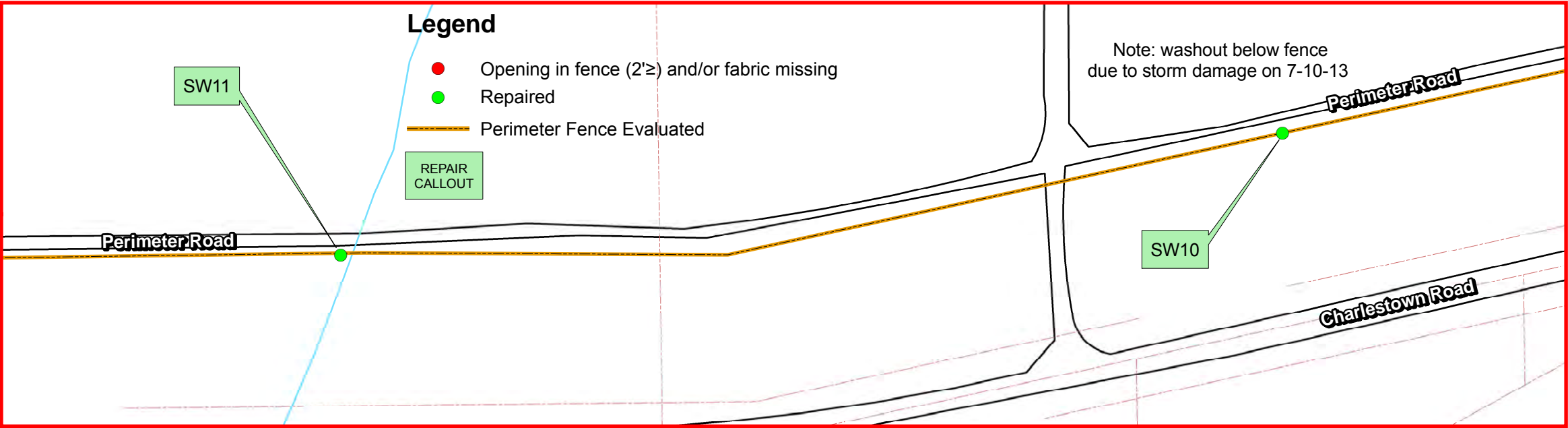
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW10



DETAIL SHEET FOR SW11



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

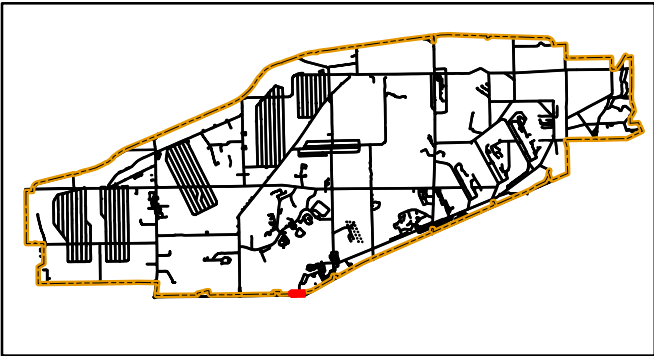
PHOTO SW11 repair 02/24/2014



PHOTO SW11 discovered 07/15/2013



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



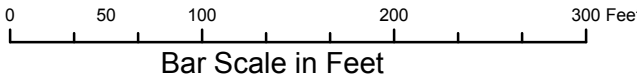
**US Army Corps of  
Engineers**

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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



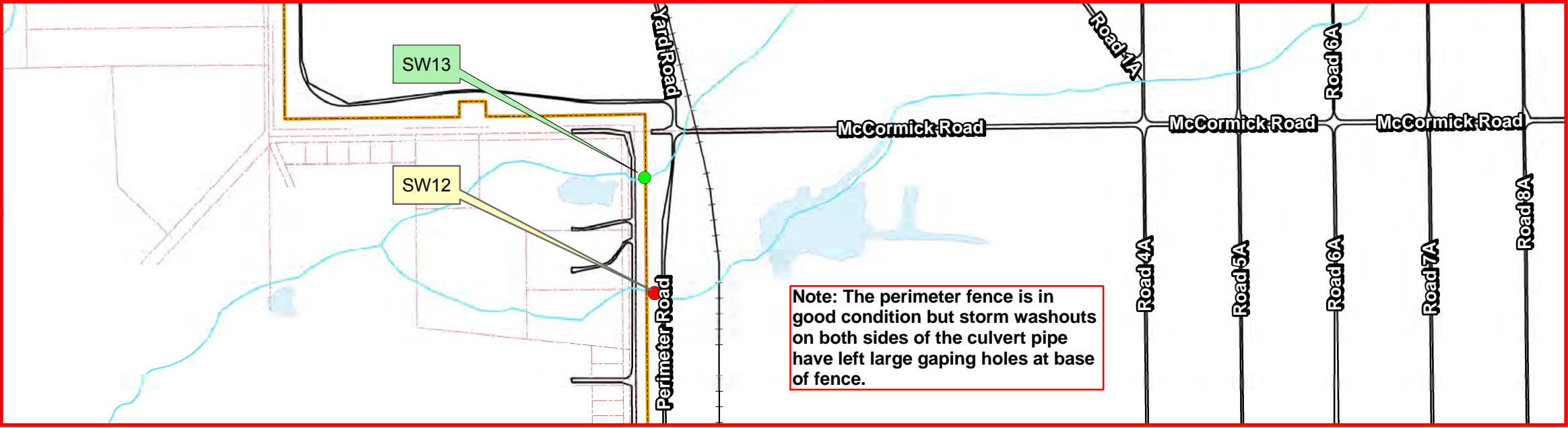
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1438 State Route 534 SW  
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MGRS 17T NF01946150 (NAD83)

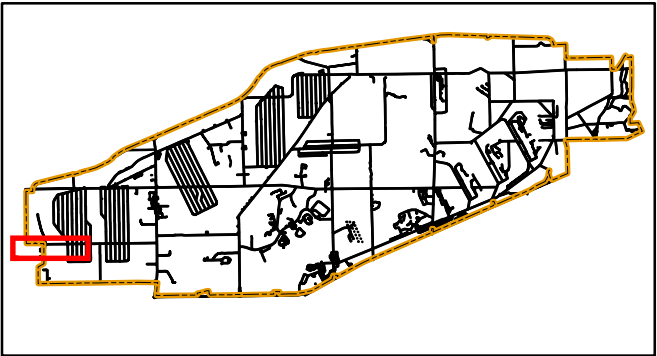
DETAIL SHEET FOR SW11



DETAIL SHEET FOR SW12



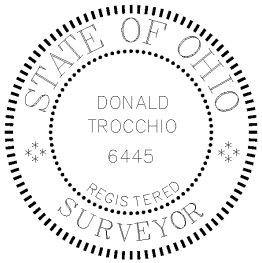
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

PHOTO SW12 discovered 11/18/2013

Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR  
CALLOUT



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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet  
Bar Scale in Feet



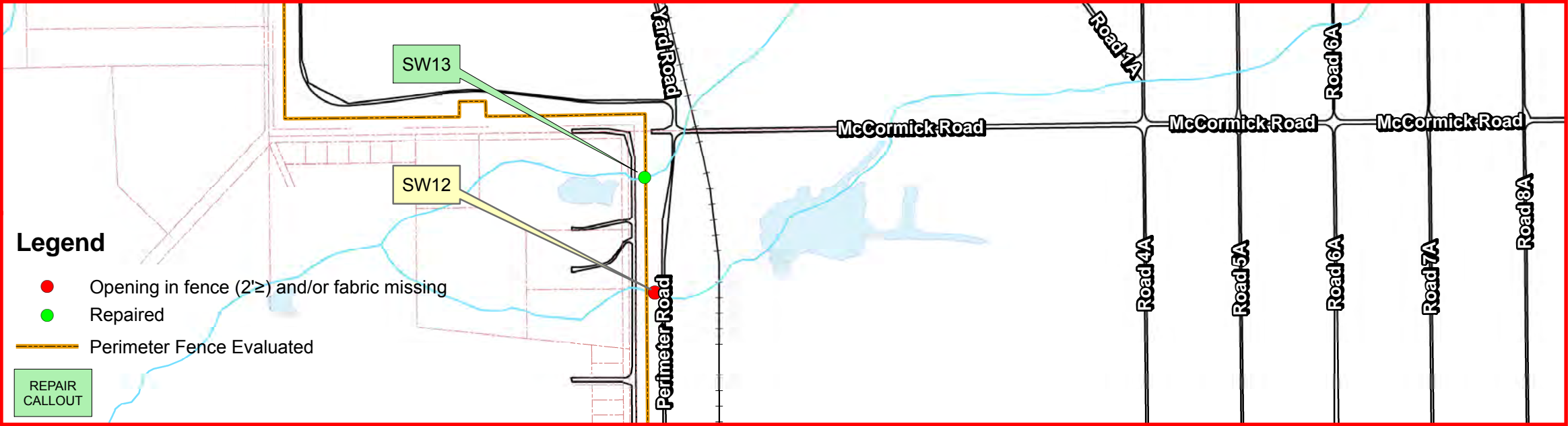
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12



DETAIL SHEET FOR SW13



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

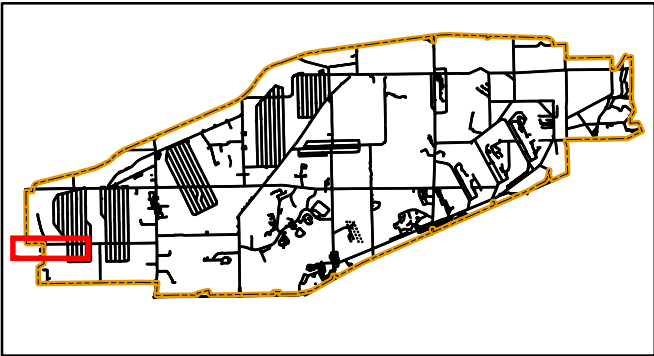
PHOTO SW13 repair 02/24/2014



PHOTO SW13 discovered 11/18/2013



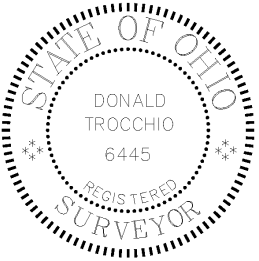
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Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



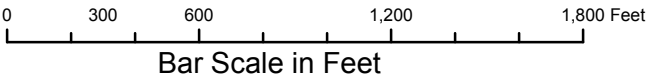
**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



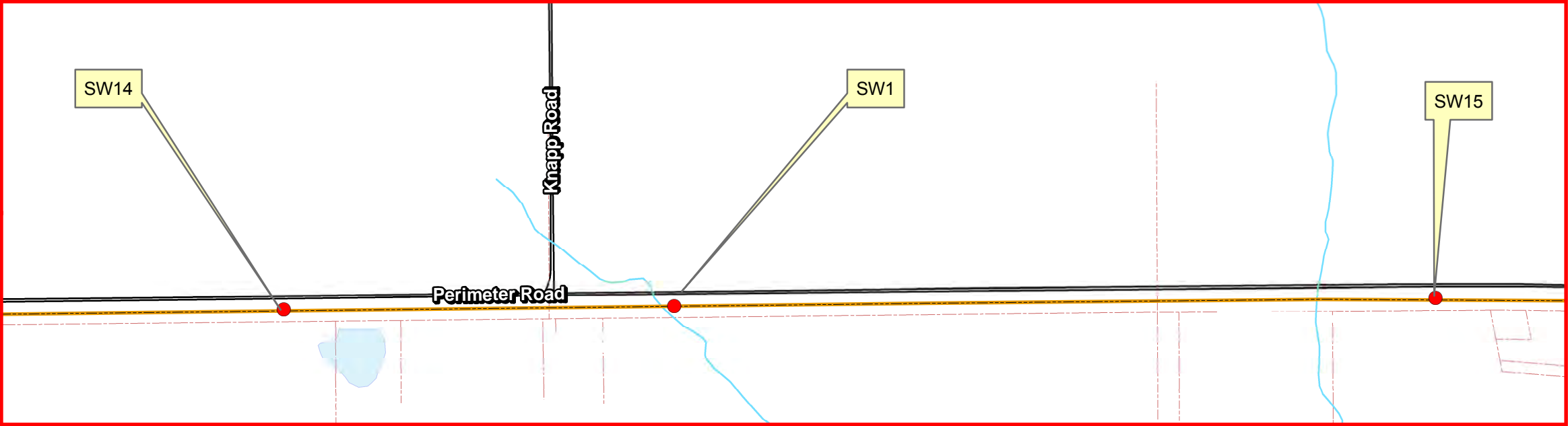
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW13



DETAIL SHEET FOR SW14



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

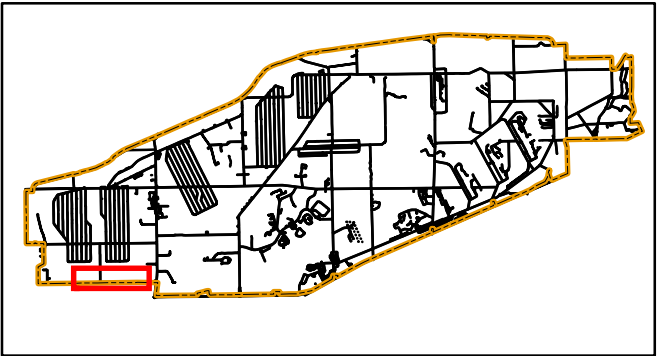
PHOTO SW14 discovered 04/14/2014

Legend

- Opening in fence (2'≥) and/or fabric missing
- Perimeter Fence Evaluated



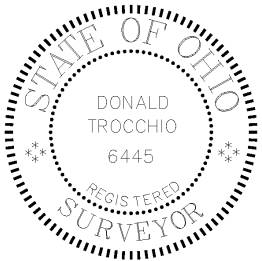
Camp Ravenna  
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Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



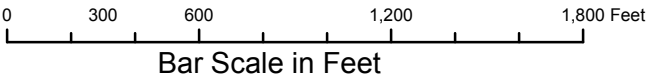
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



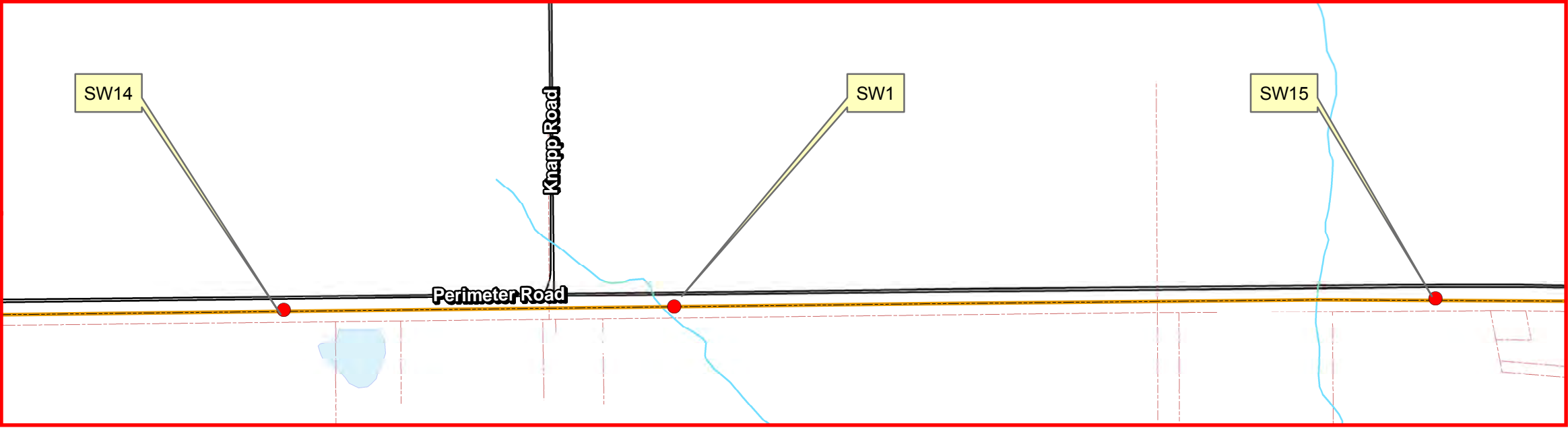
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW14



DETAIL SHEET FOR SW15



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

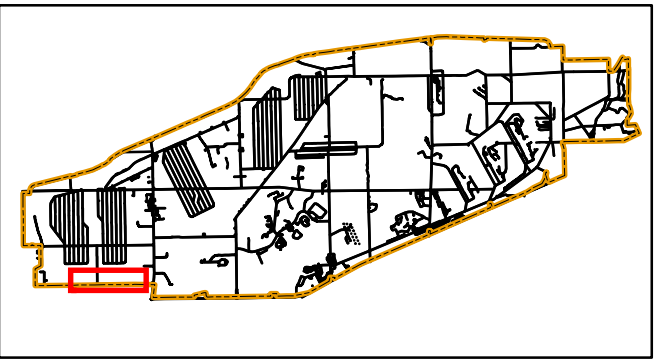
PHOTO SW15 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



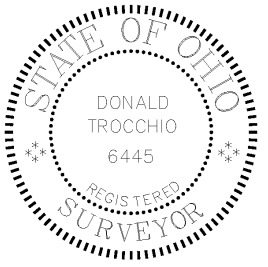
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



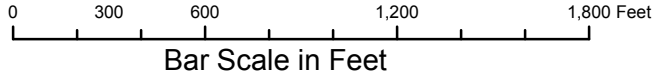
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



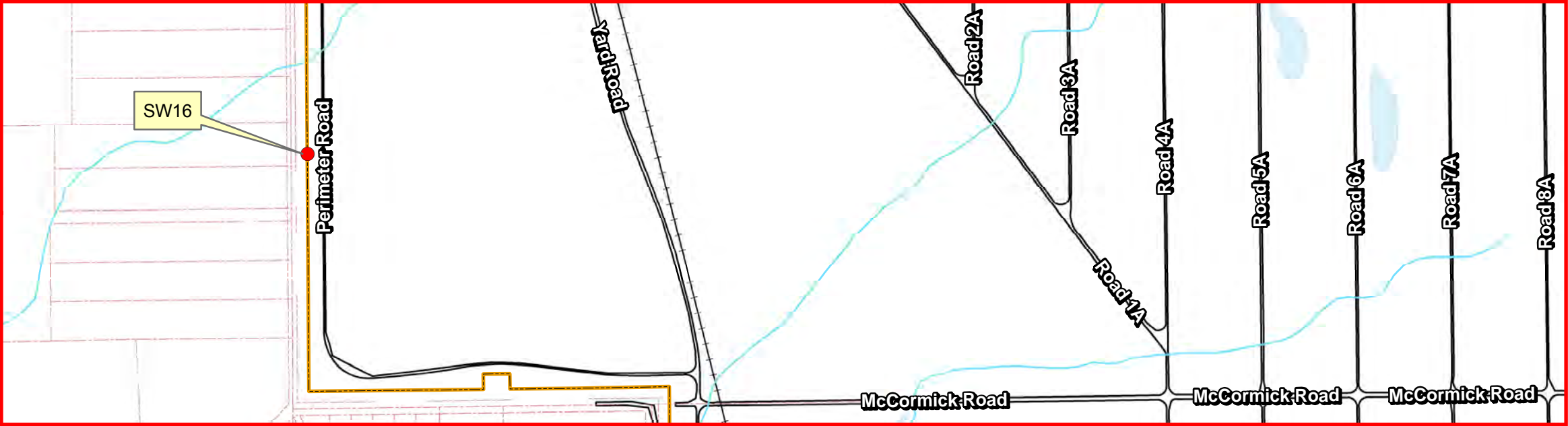
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW15



DETAIL SHEET FOR SW16



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

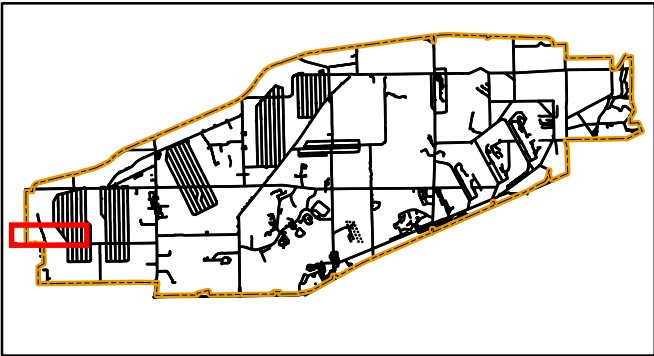
PHOTO SW16 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



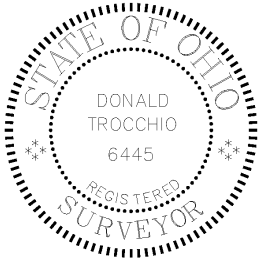
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



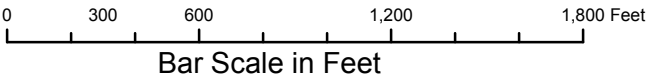
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



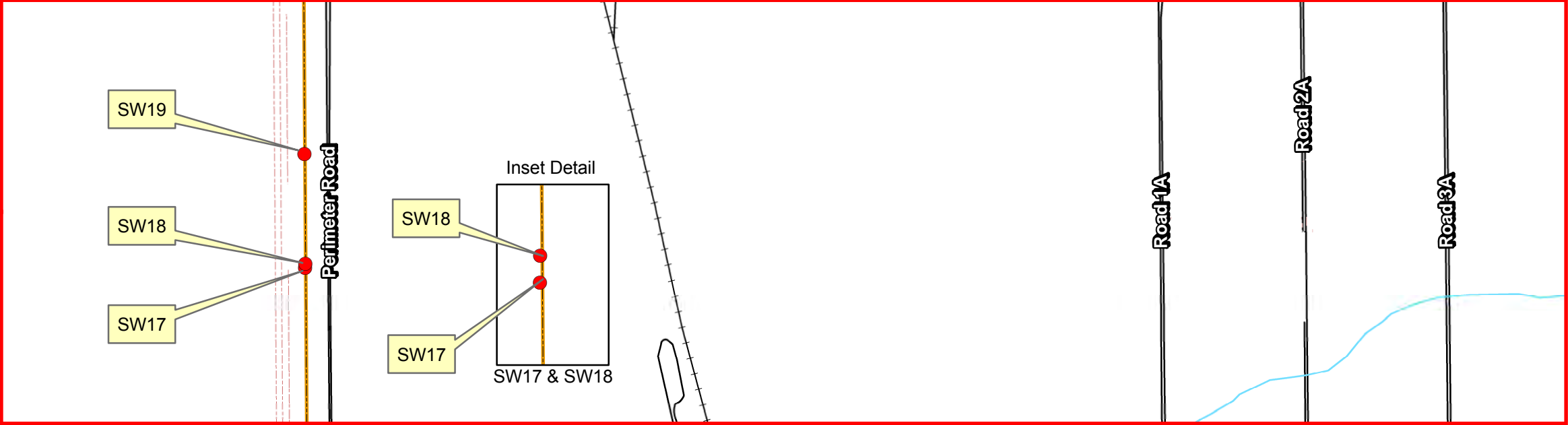
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW16



DETAIL SHEET FOR SW17



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

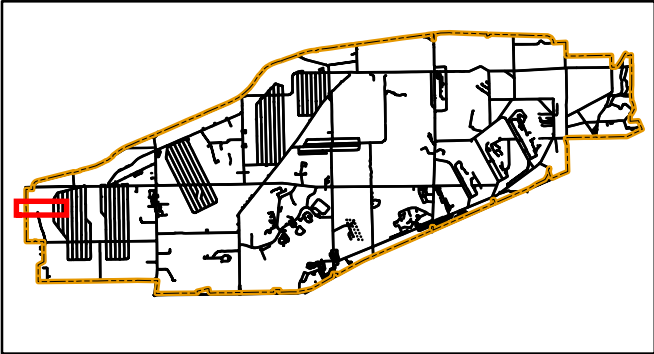
PHOTO SW17 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



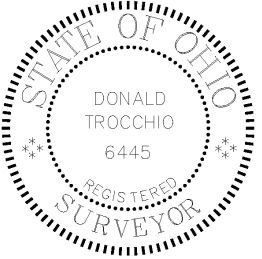
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



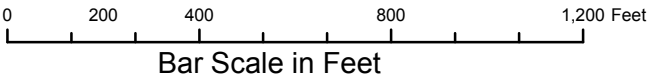
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
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Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



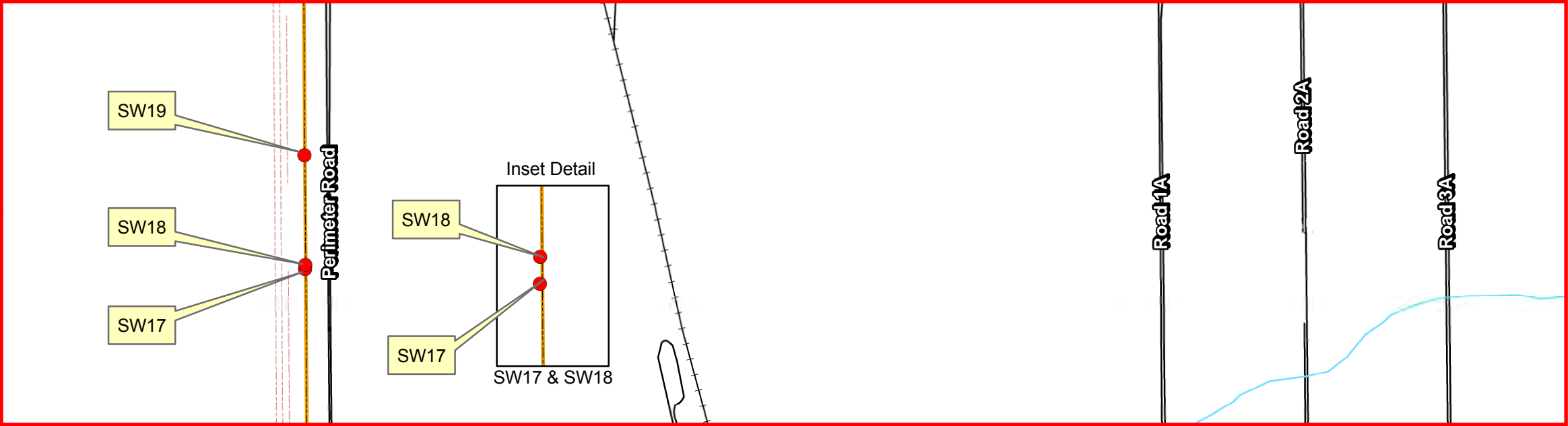
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW17



DETAIL SHEET FOR SW18



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

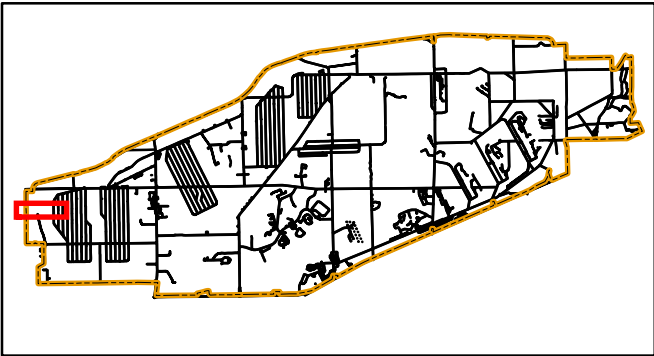
PHOTO SW18 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



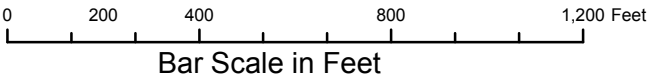
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



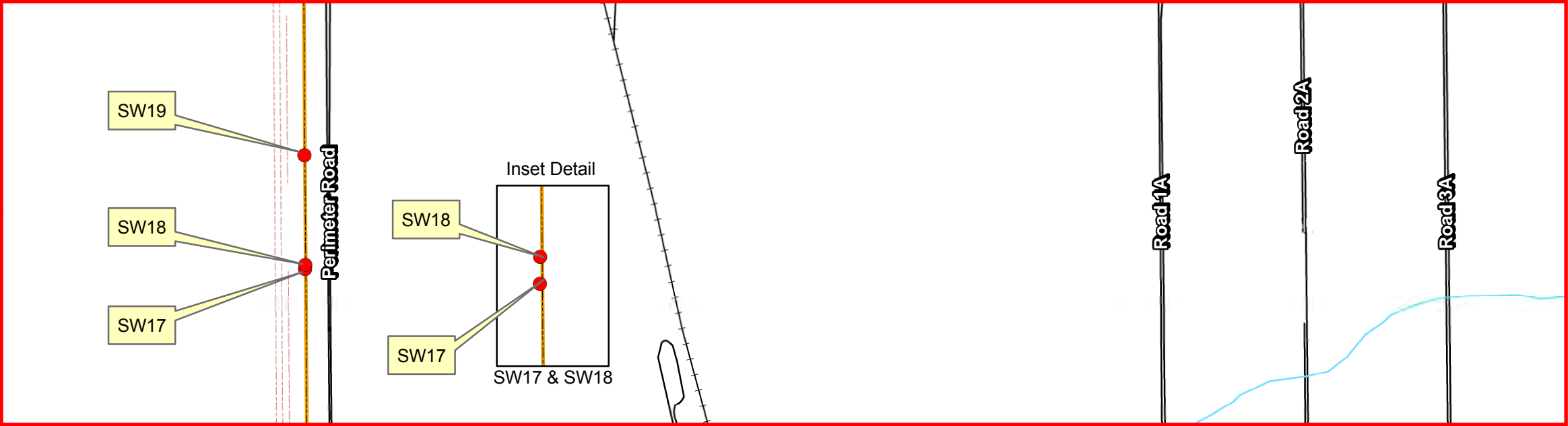
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW18



DETAIL SHEET FOR SW19



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

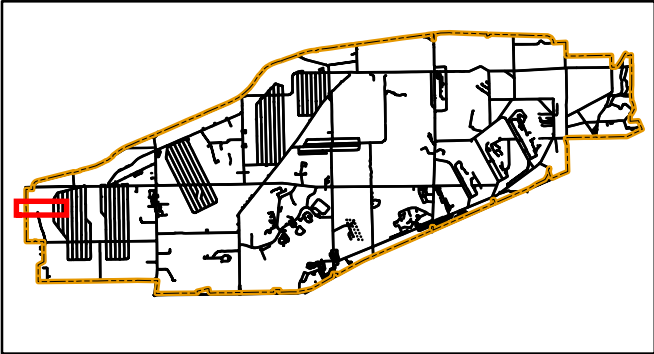
PHOTO SW19 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



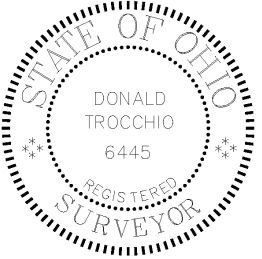
Camp Ravenna  
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Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



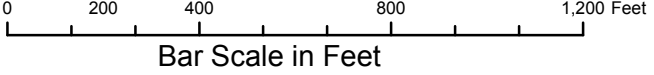
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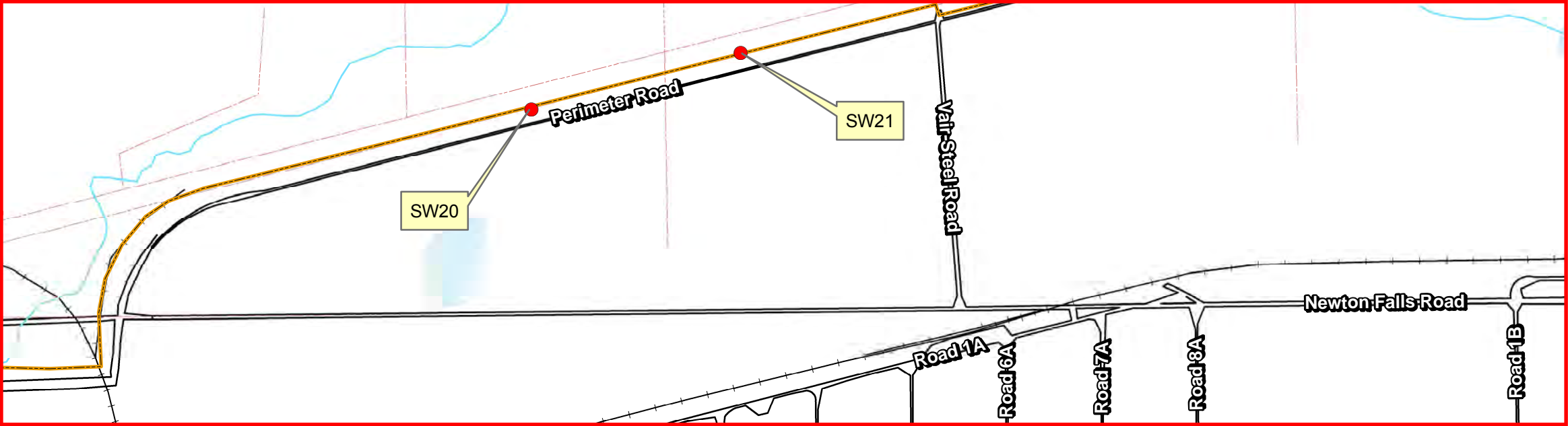
Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW19



DETAIL SHEET FOR SW20



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

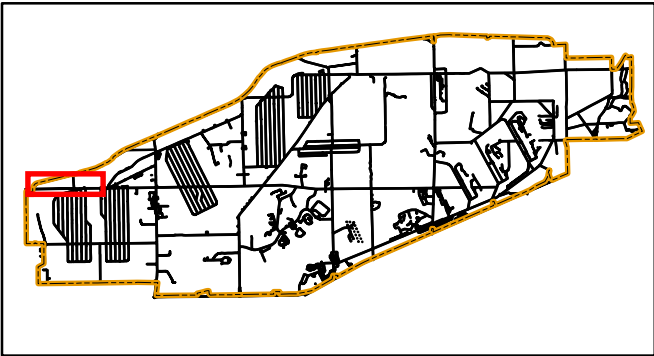
PHOTO SW20 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



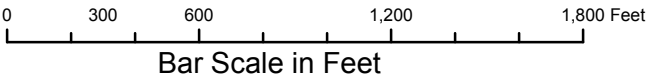
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



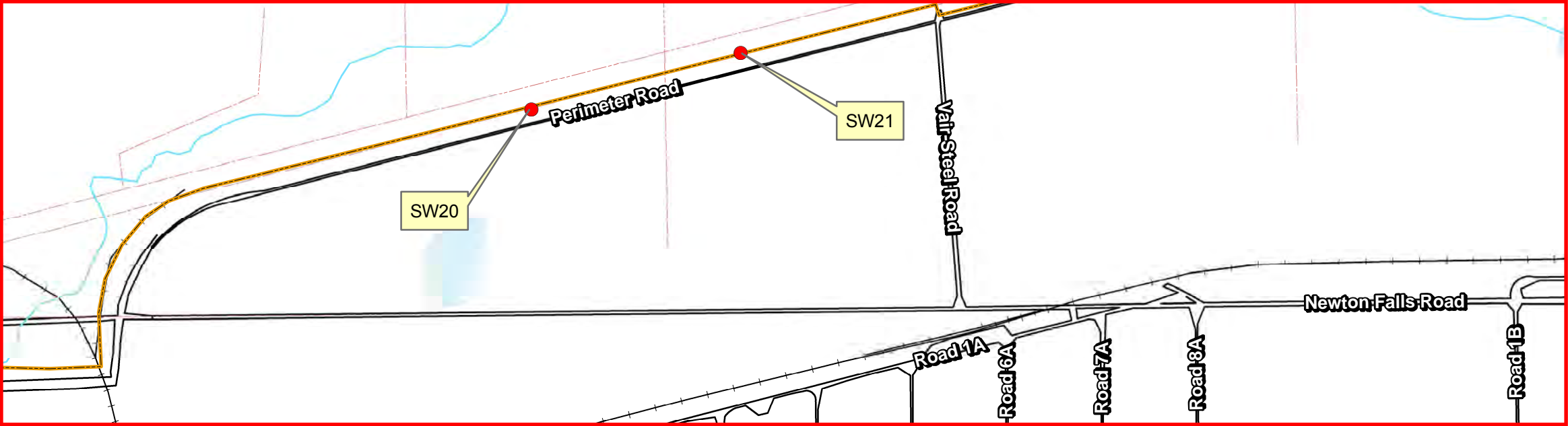
Camp Ravenna JMTc  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW20



DETAIL SHEET FOR SW21



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

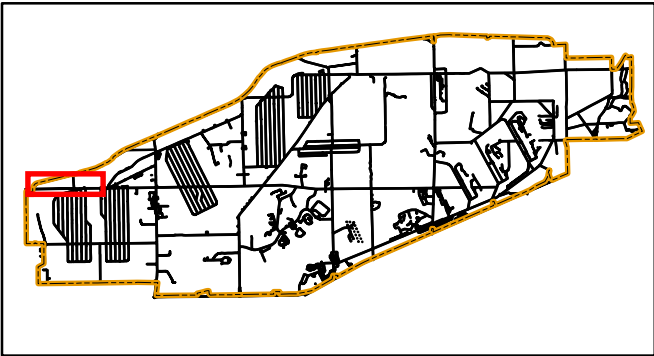
PHOTO SW21 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



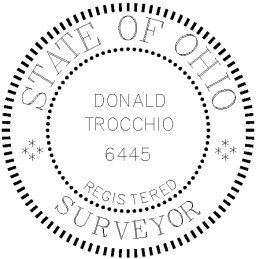
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



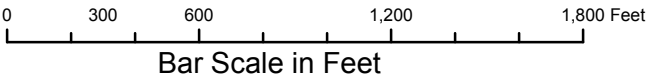
**US Army Corps of  
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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



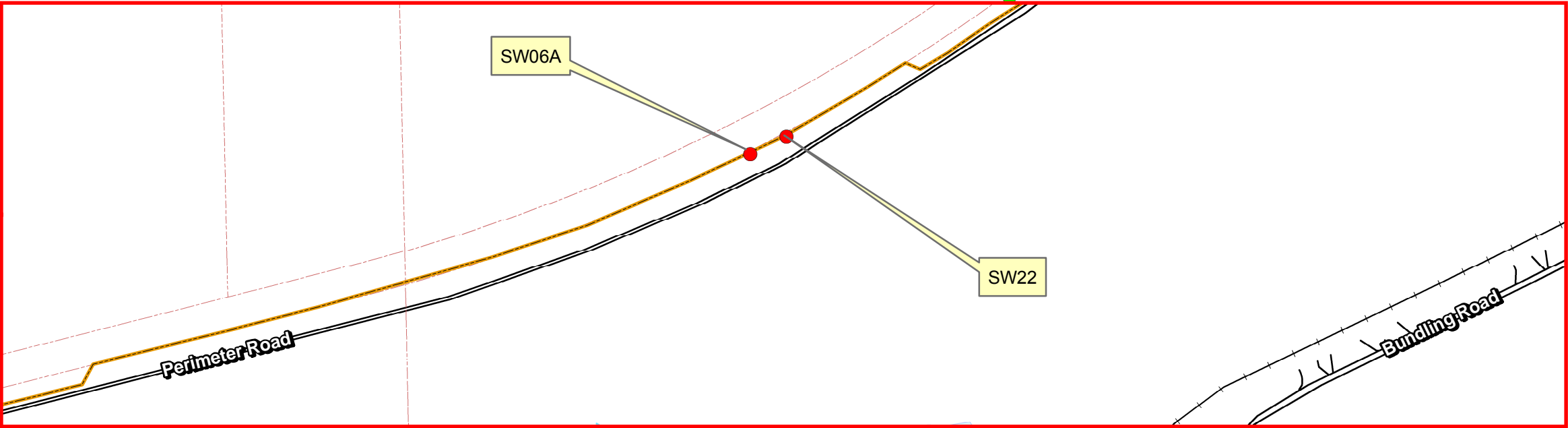
Camp Ravenna JMTC  
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW21



DETAIL SHEET FOR SW22



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

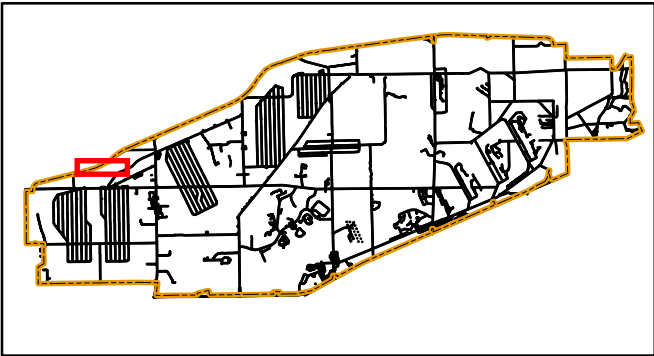
PHOTO SW22 discovered 07/16/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



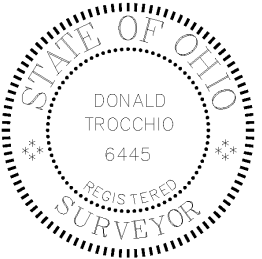
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



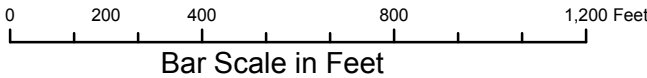
**US Army Corps of Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC  
1438 State Route 534 SW  
Newton Falls, OH 44444  
Don Trocchio, PS  
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW22



**Camp Ravenna Joint Military Training Center  
Former Ravenna Army Ammunition Plant**

**Quarterly Land Use Control Inspection  
RVAAP-05 Winklepeck Burning Grounds**

**ATTACHMENT 2**

**Supplemental Index Map No. 1**

**Supplemental Detail Sheets**

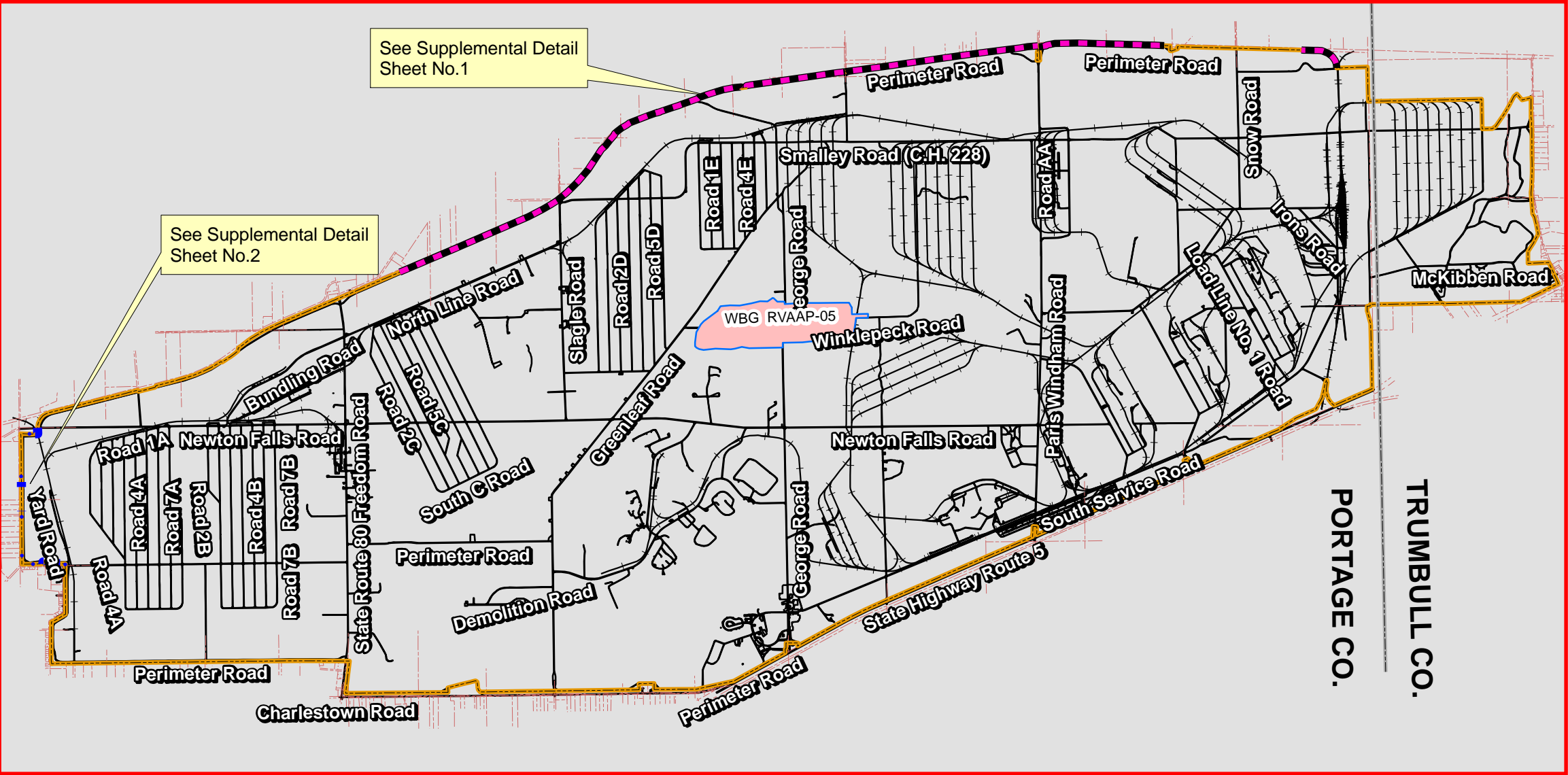
**Camp Ravenna Fence Repair Log**



**Supplemental Index Map No. 1**  
**Supplemental Detail Sheets**



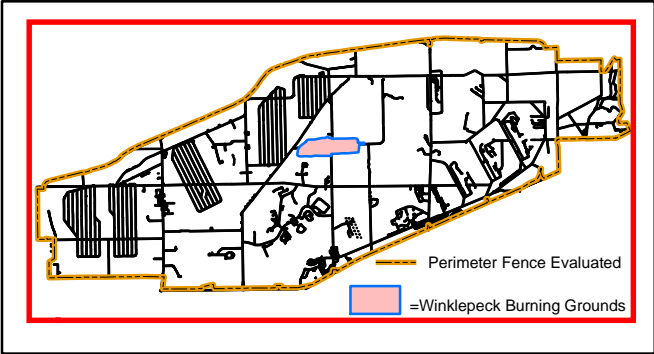
WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 4th Qtr. FY 2014



**SUPPLEMENTAL INDEX MAP NO. 1 TO FACILITY PERIMETER FENCE INSPECTION**  
THIS MAP DEPICTS REPAIRS AND IMPROVEMENTS ALONG THE PERIMETER FENCE THAT ARE IN PROGRESS

- This line type symbol represents new barb wire installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. See Supplemental Detail Sheet No.2
- This line type symbol represents new chain link fence fabric currently being installed by OHARNG contractors. See Supplemental Detail Sheet No.1
- Perimeter Fence Evaluated (29.8 miles)

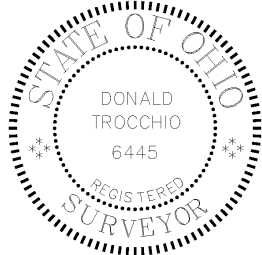
**Camp Ravenna  
Joint Military Training Center**



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:

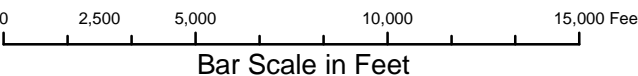


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Louisville District



Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone

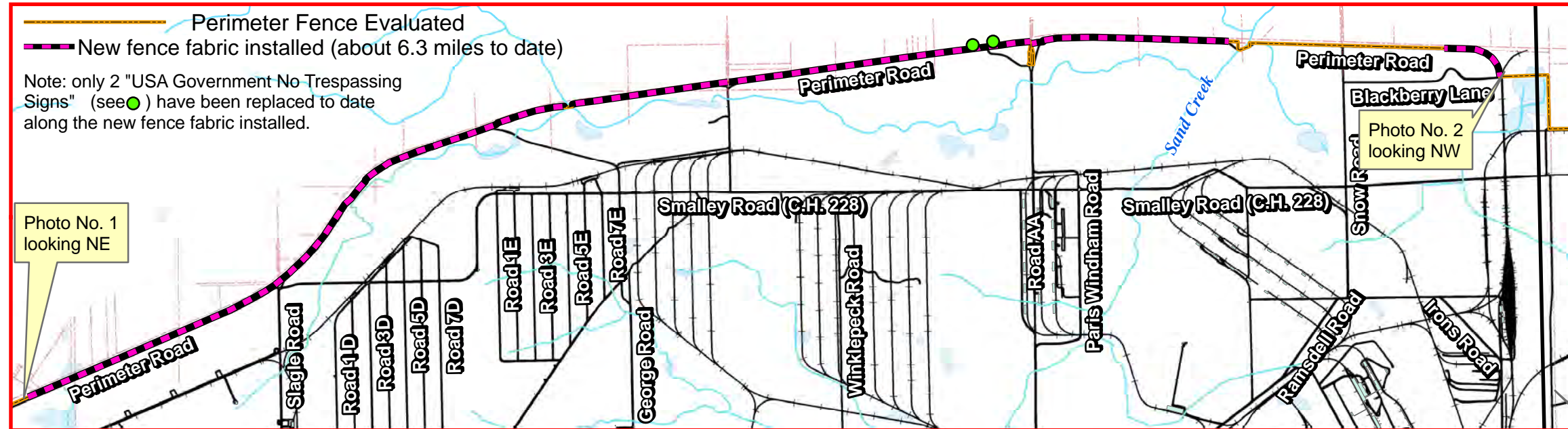


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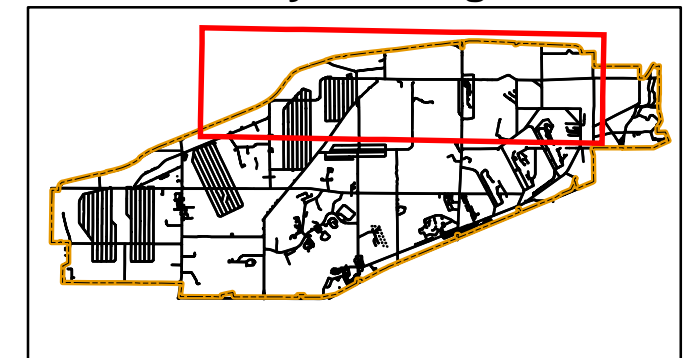
SUPPLEMENTAL INDEX MAP NO.1



# SUPPLEMENTAL DETAIL SHEET NO.1



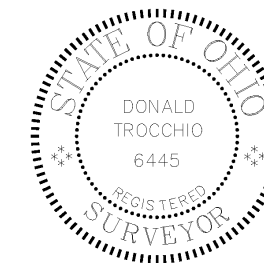
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



## LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

PHOTO NO.1 07/16/2014 (Begin new fence fabric clockwise from here)



PHOTO No.2 (End new fence fabric here) 07/21/2014



Produced in July 2014 for:



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Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone

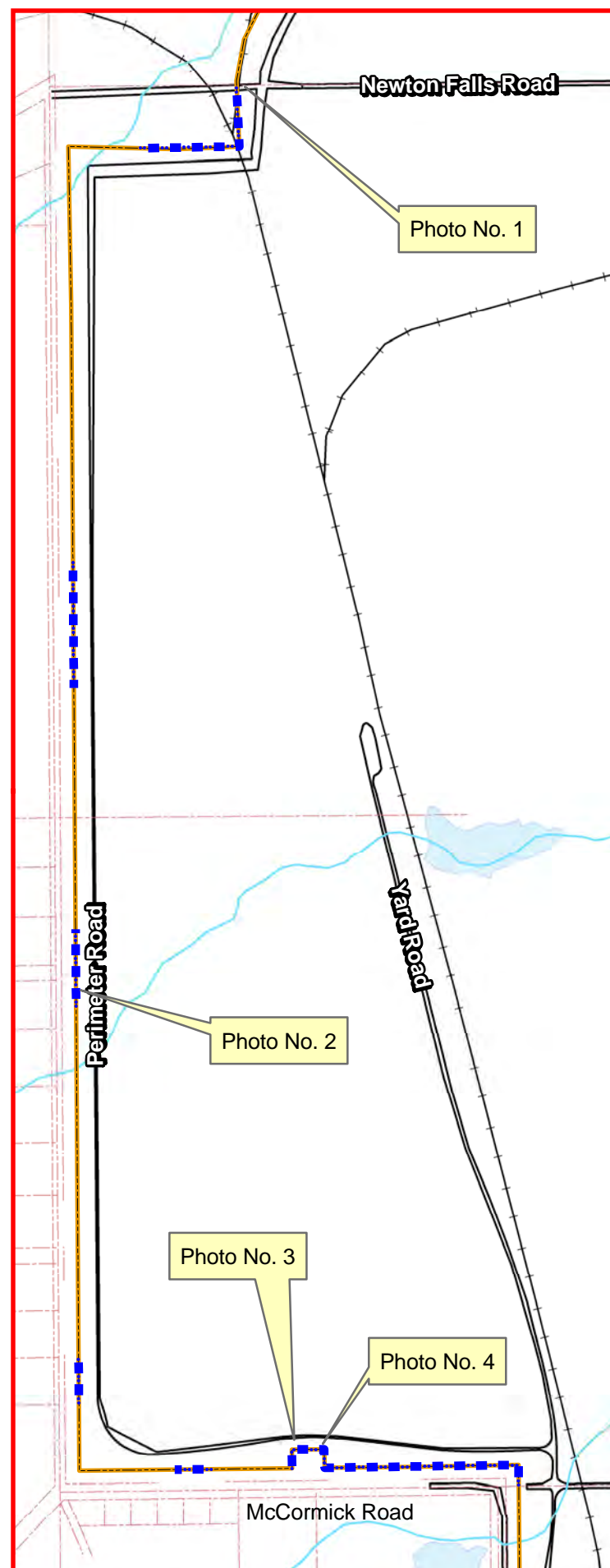
0 1,600 3,200 6,400 9,600 Feet  
Bar Scale in Feet



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SUPPLEMENTAL DETAIL SHEET NO.1





# SUPPLEMENTAL DETAIL SHEET NO.2

## LAND USE CONTROL (LUC) INSPECTION

### PERIMETER FENCE INSPECTION

#### 4th QUARTER FY2014

PHOTO NO.1 02/25/2014



PHOTO NO.3 02/25/2014



PHOTO No.2 03/03/2014

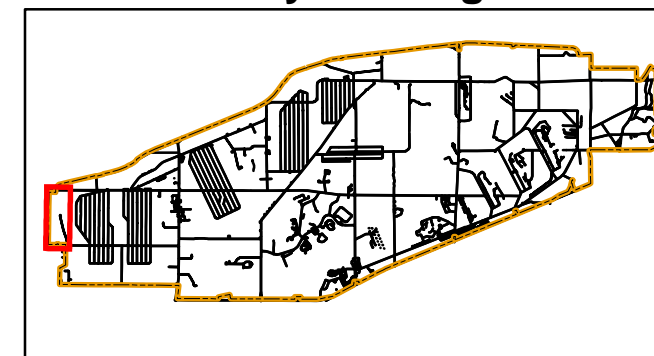


PHOTO NO.4 02/25/2014

This line type symbol represents new barb wire installed along the perimeter fence between McCormick Road and Newton Falls Road by Vista Sciences Co. Inc. under USACE contract No. W912QR-11-P-0086 MOD 0010. About 4500' of barb wire was replaced in this area.

Perimeter Fence Evaluated

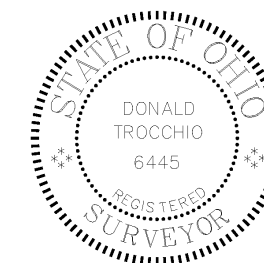
## Camp Ravenna Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



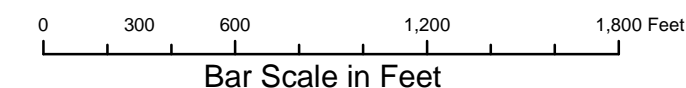
**US Army Corps of  
Engineers**

600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



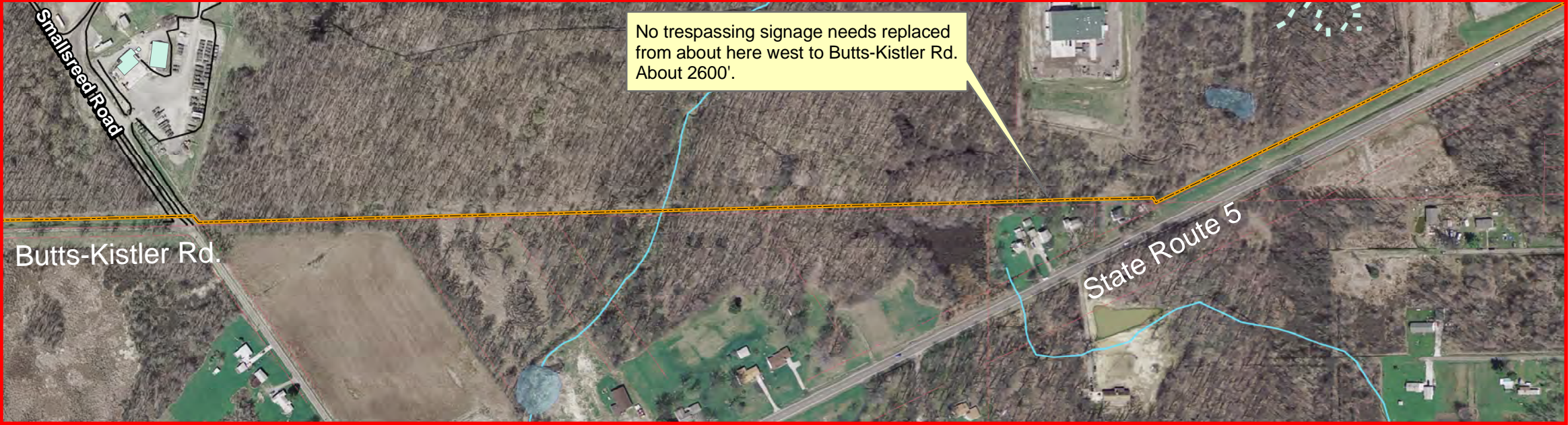
Camp Ravenna JMTC  
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don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.2



SUPPLEMENTAL DETAIL SHEET NO.3



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014  
PERIMETER FENCE INSPECTION

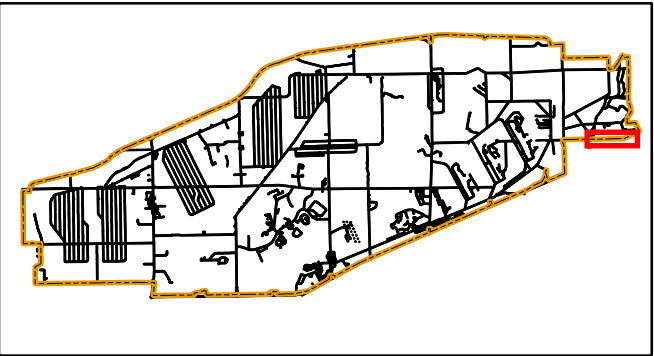
Legend

— Perimeter Fence Evaluated

Typical Existing Signage



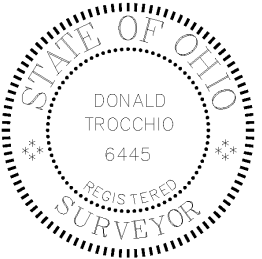
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in July 2014 for:



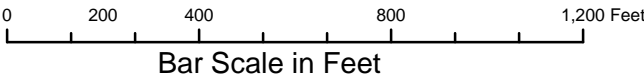
**US Army Corps of  
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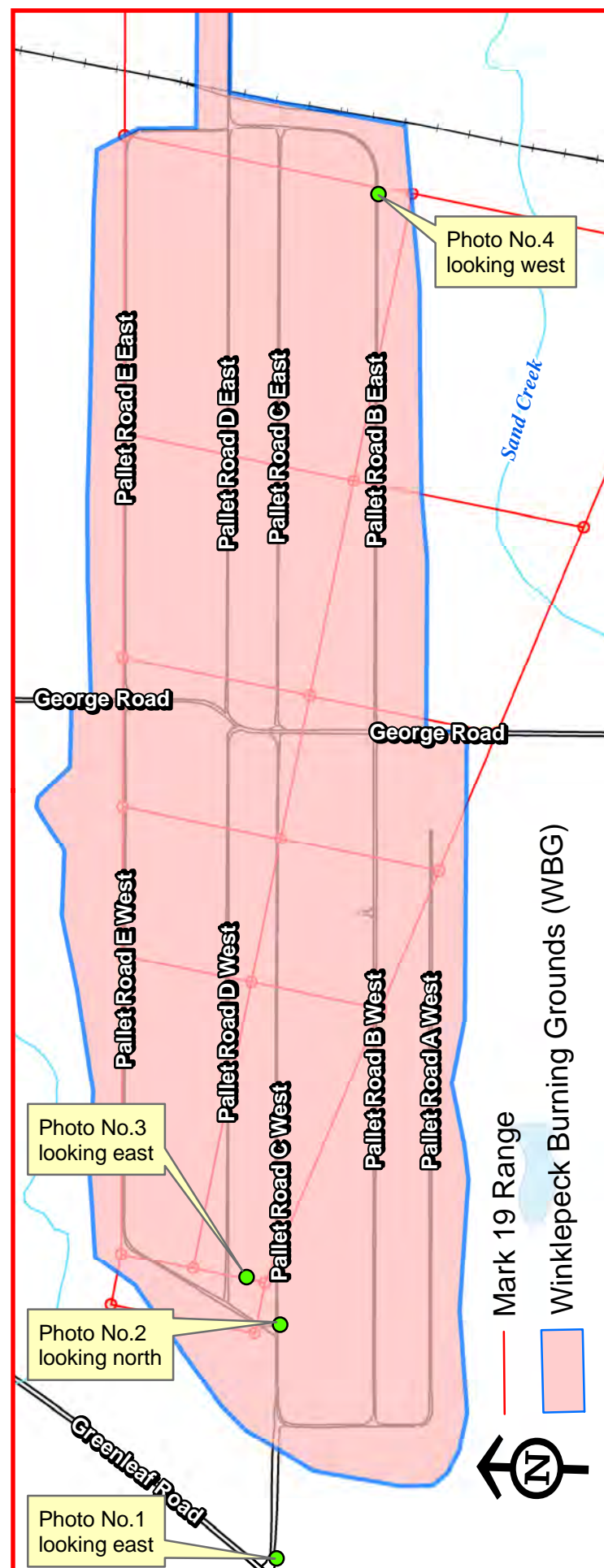
Projection Datum is NAD83, Ohio State  
Plane Rectangular Grid, North Zone



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# SUPPLEMENTAL DETAIL SHEET NO.4 LAND USE CONTROL (LUC) INSPECTION PERIMETER FENCE INSPECTION 4th QUARTER FY2014

PHOTO NO.2 07/23/2014



PHOTO NO.4 07/23/2014



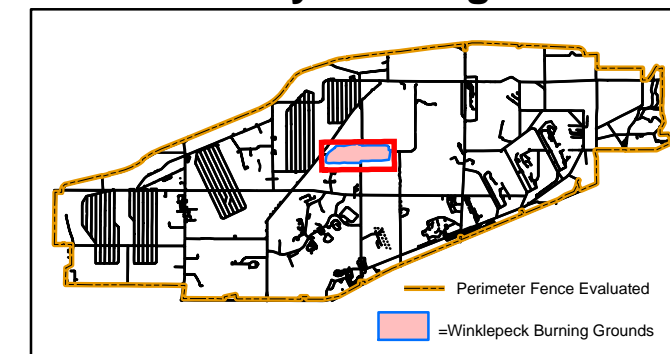
PHOTO No.1 07/23/2014



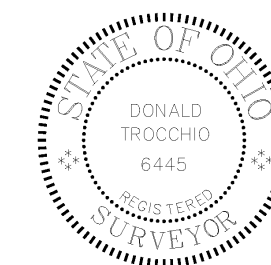
PHOTO NO.3 07/23/2014

## PHOTO IMAGES WITHIN & ENTERING (NO.1) THE WINKLEPECK BURNING GROUNDS (RVAAP-05)

### Camp Ravenna Joint Military Training Center



### Portage & Trumbull County LOCATOR MAP



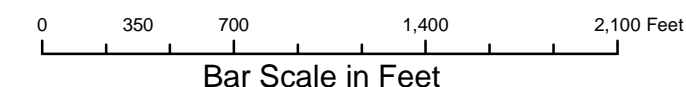
Produced in July 2014 for:



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## **Camp Ravenna Fence Repair Log**



