

Final
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:



January 8, 2015

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ARNG = Army National Guard

OHARNG = Ohio Army National Guard

Ohio EPA-NEDO-DERR = Ohio Environmental Protection Agency-Northeast District Office –Division of Environmental Response and Revitalization

Ohio EPA-CDO-DERR = Ohio Environmental Protection Agency-Central District Office –Division of Environmental Response and Revitalization

USACE = United States Army Corps of Engineers

RVAAP = Ravenna Army Ammunition Plant

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LIST OF ACRONYMS AND ABBREVIATIONS

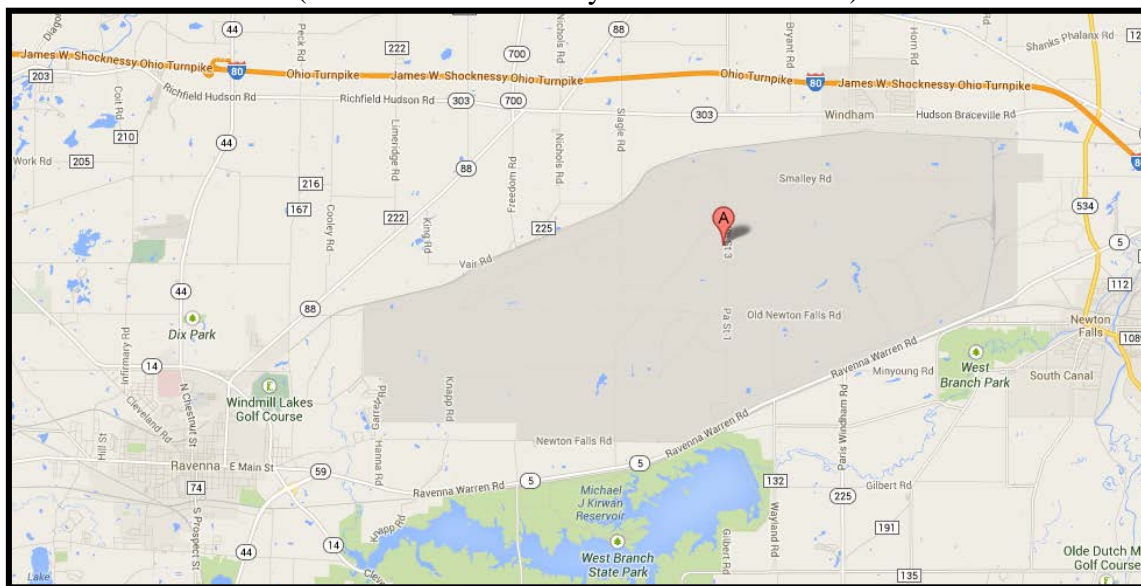
AOC	Area of Concern
AR	Army Regulation
ARNG	Army National Guard
bgs	below ground surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
C.F.R.	Code of Federal Regulations
DFFOs	Director's Final Findings and Orders
FWSAP	Facility-Wide Sampling and Analysis Plan
FWGWMPP	Facility-Wide Groundwater Monitoring Program Plan
FY	Fiscal Year
GIS	Geographical Information System
IRP	Installation Restoration Program
LUC	Land Use Control
MK	Mark
MEC	Munitions and Explosives of Concern
MRS	Munitions Response Site
NCP	National Contingency Plan
NBC	Nuclear, Biological, Chemical
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PMP	Property Management Plan
RD	Remedial Design
RDX	Research Department Explosive
ROD	Record of Decision
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
TNT	Trinitrotoluene
U.S.C.	United States Code
USP&FO	United States Property and Fiscal Office
UXO	Unexploded Ordnance
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 barb 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

Appendix A

FY 2014 Perimeter Fence Defect Call Outs Identified and Repaired

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

Appendix B

FY 2014 Quarterly Land Use Control Index Maps

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

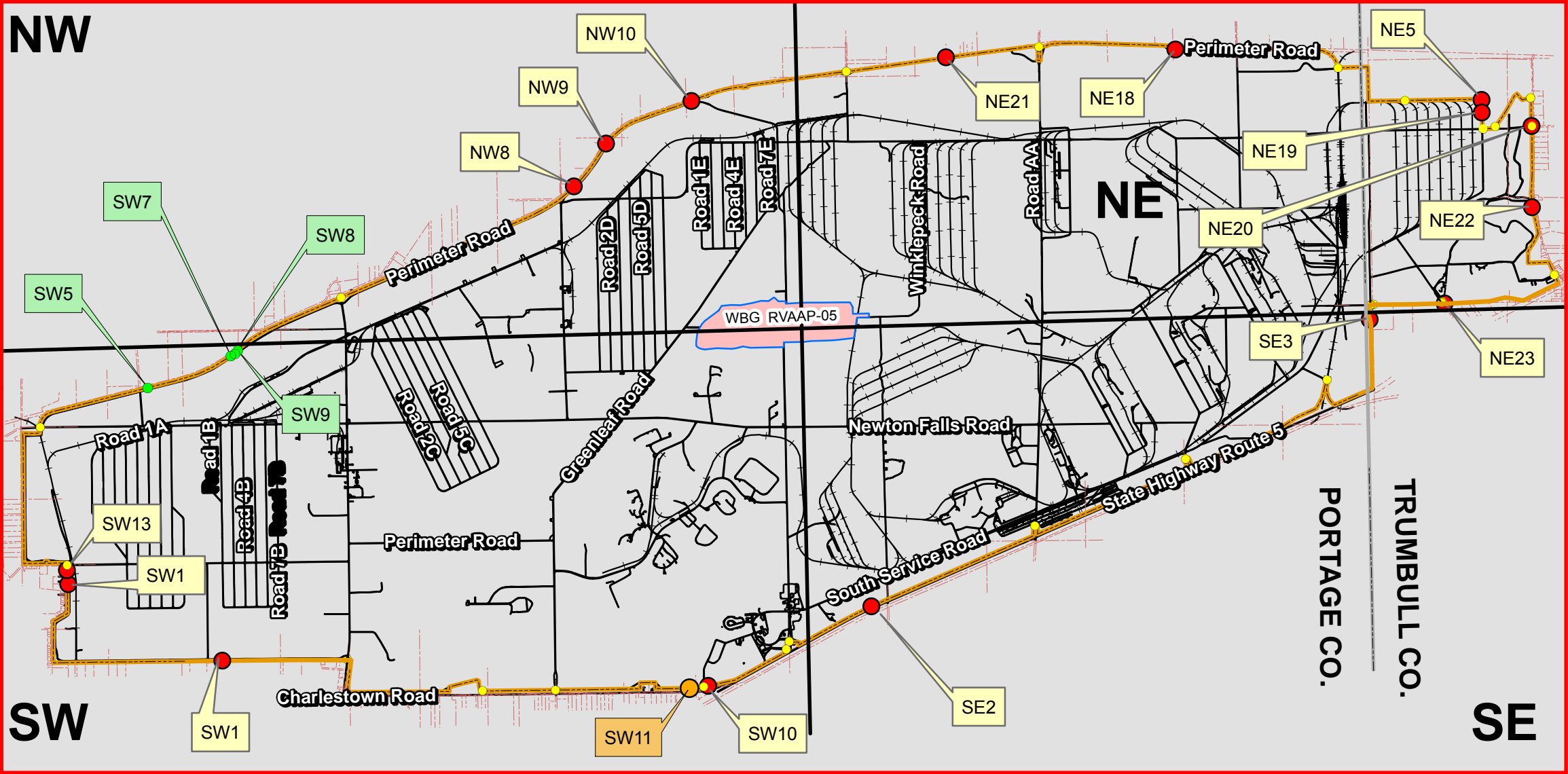


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

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

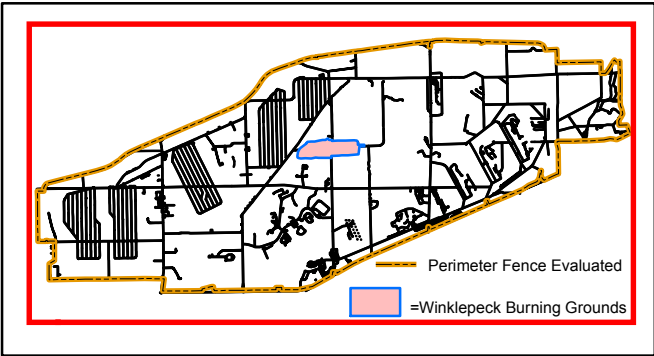
Detail Sheet
Repair Callout

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

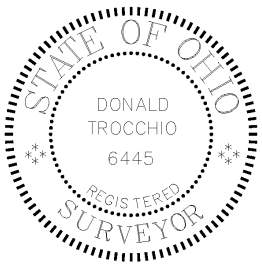
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



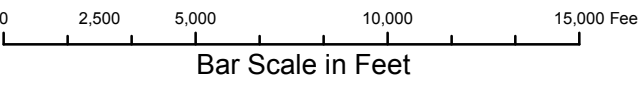
US Army Corps of
Engineers

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

Louisville District

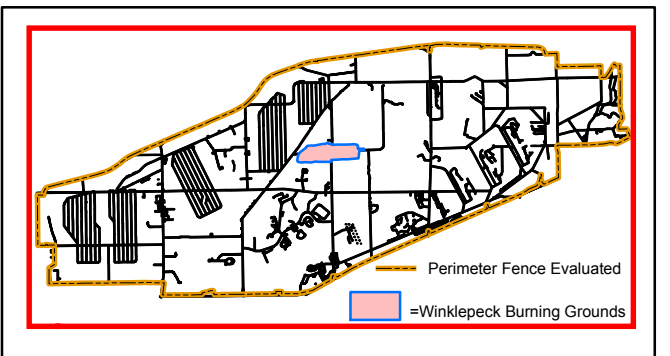
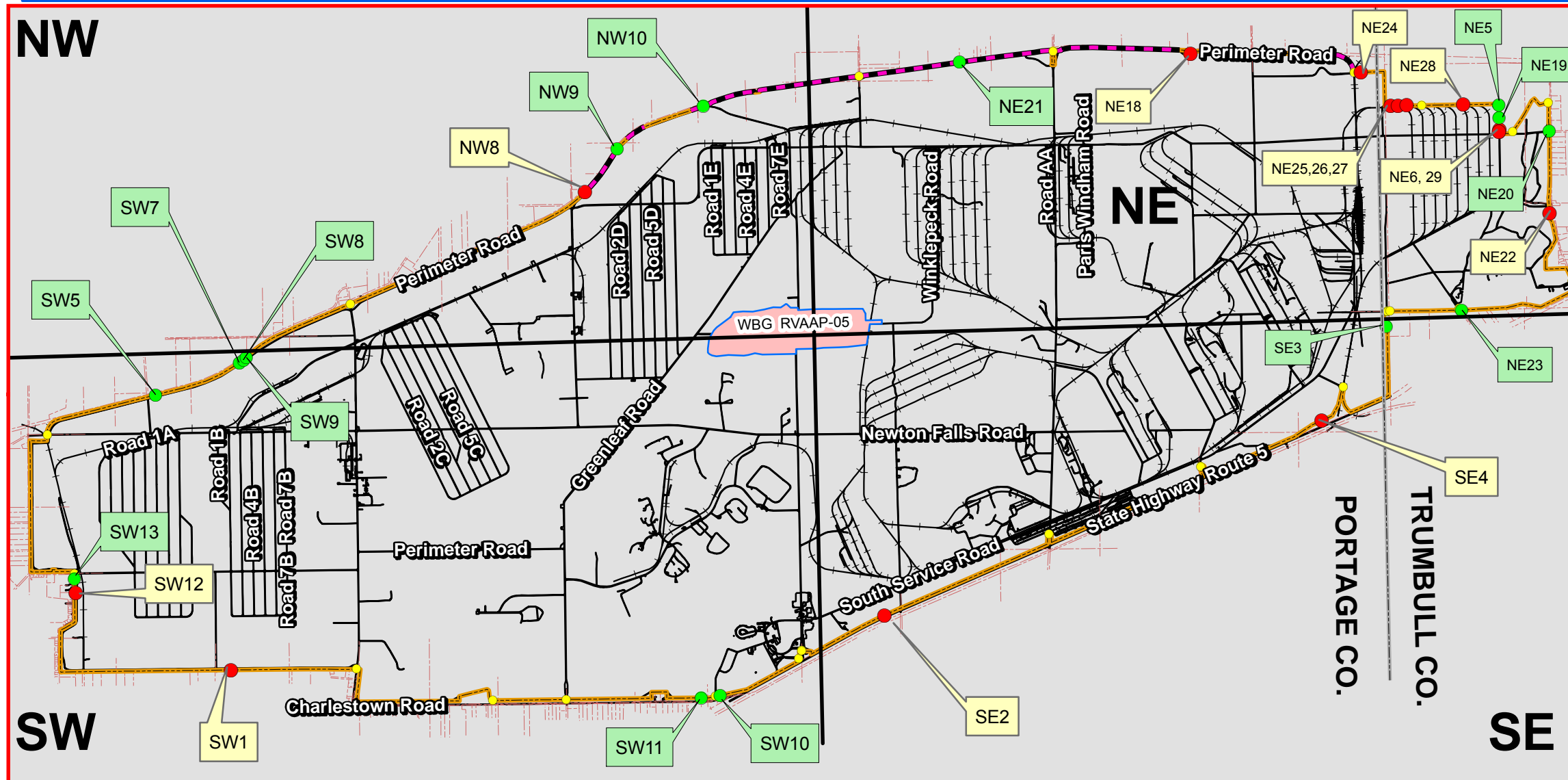


Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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Don Trocchio, PS
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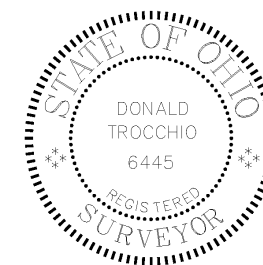
**Camp Ravenna
Joint Military Training Center**



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

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. The scale is represented by a horizontal line with vertical tick marks at these intervals.

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 (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 FY			
Callout	Date	Path to Photo Location	Comments	Northing	Easting	Path to Repair Photo	Callout
NE06	02/23/2013	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	11/23/2013	c:\My Documents\My ArcPad\P1010373.JPG	vandalized section of secluded fence at base	569693	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	571111	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	2354636	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	565209	2383512	c:\My Documents\My ArcPad\P1010375.JPG	NE23
NW09	11/19/2013	c:\My Documents\My ArcPad\P1010281.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					

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 3rd Qtr. FY 2014

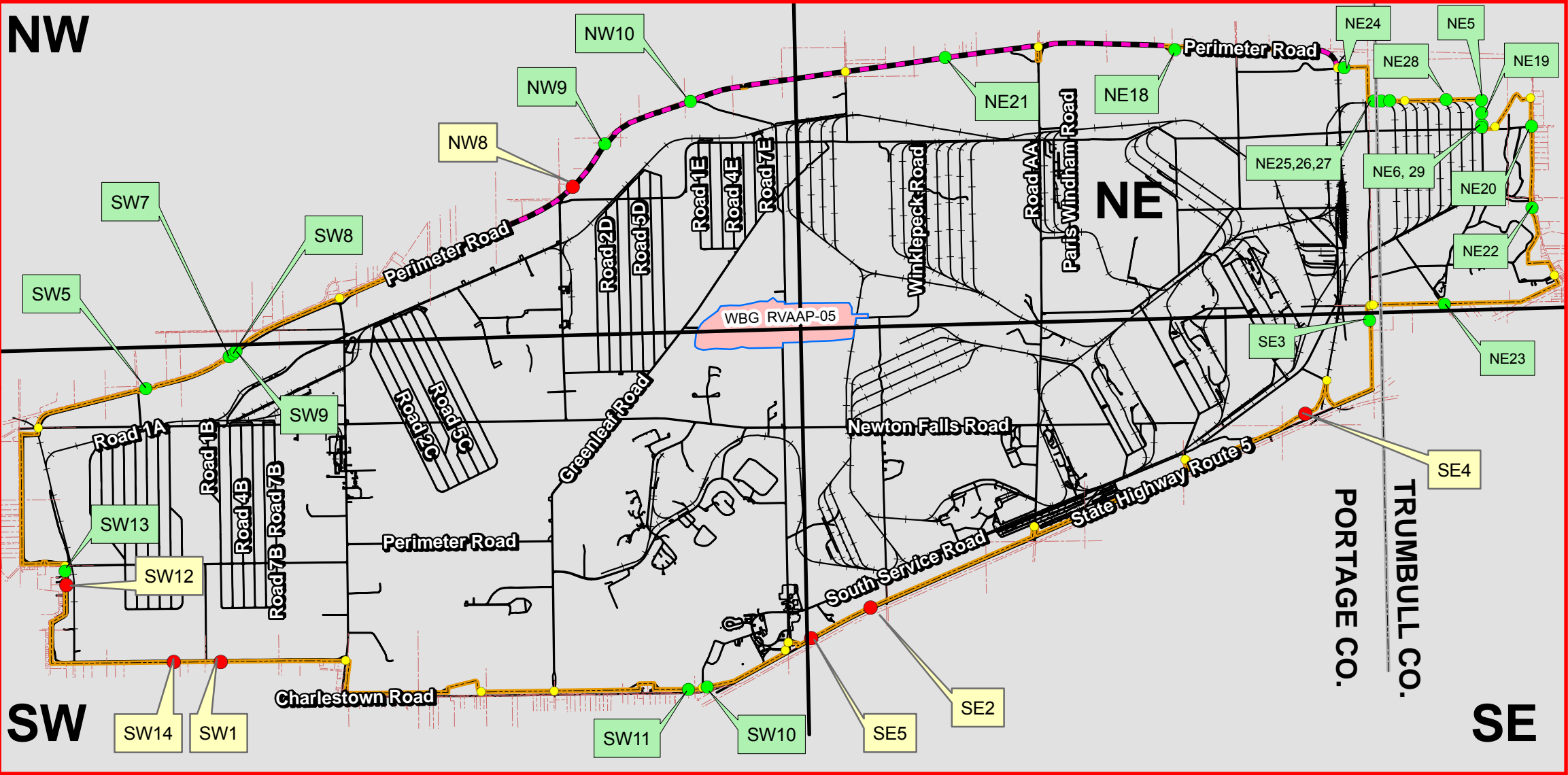


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (7 locations)
- Repaired (24 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 (5.9 miles to date). See also Supplemental Index Map No.1
- Perimeter Fence Evaluated (29.8 miles)

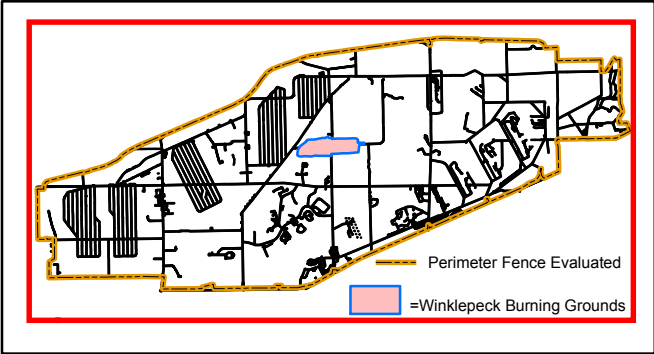
Detail Sheet
Callout

Detail Sheet
Repair Callout

Camp Ravenna Joint Military Training Center 3rd Qtr FY2014 LUC Inspection Summary Table

Callout	Date	Path to Photo Location	Comments	US Survey Pt	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 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	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	566833 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 2380682	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						

Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



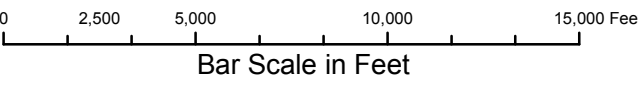
US Army Corps of
Engineers

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)

FIGURE 1 INDEX MAP

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

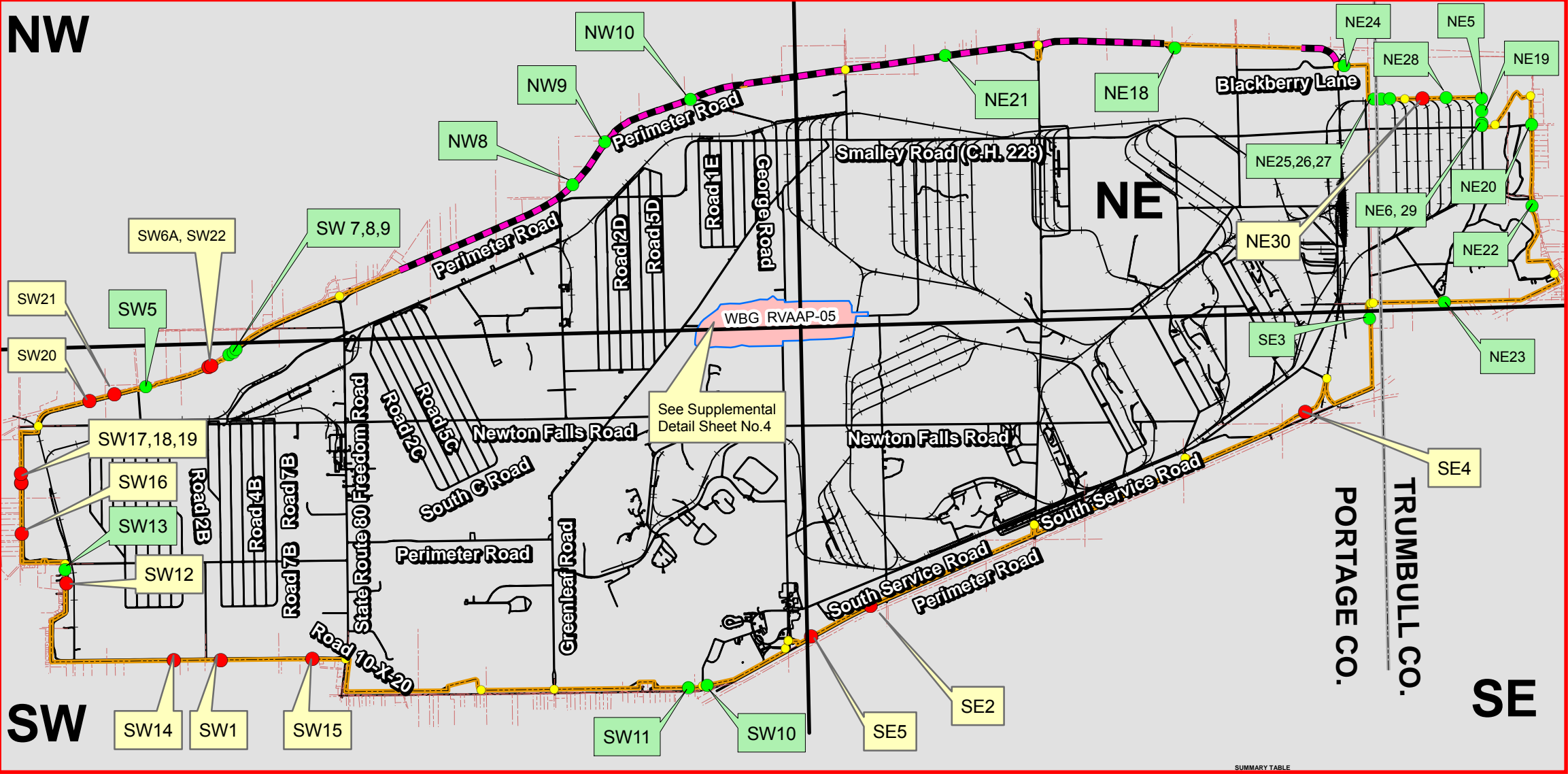


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

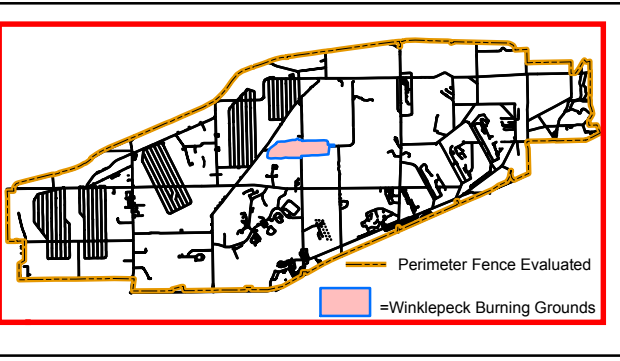
- Legend**
- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
 - Repaired (25 locations)
 - Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
 - New fence fabric installed to date (about 6.3 miles)
See also Supplemental 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	Eastings	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	2372897	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							

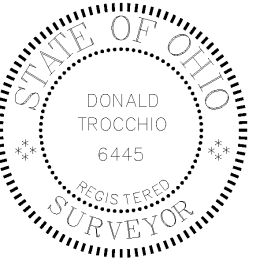
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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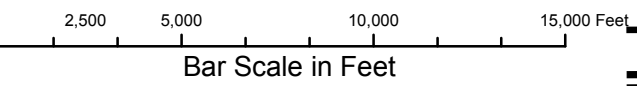
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Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

Appendix C

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

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 4th 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 1st 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 1st 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

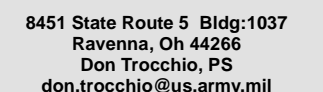
**Camp Ravenna Joint Military Training Center
Ravenna Army Ammunition Plant**

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

ATTACHMENT 1

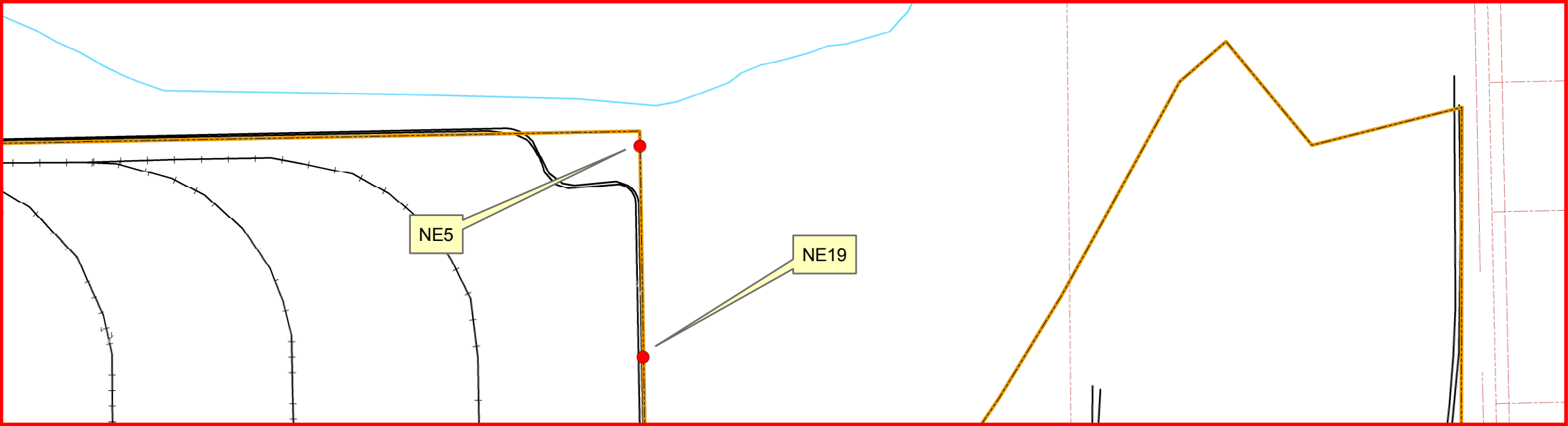
**Figure 1 Index Map
And
Detailed Quadrant Maps**

Index Map



NE (Northeast) Quadrant

DETAIL SHEET FOR NE5



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

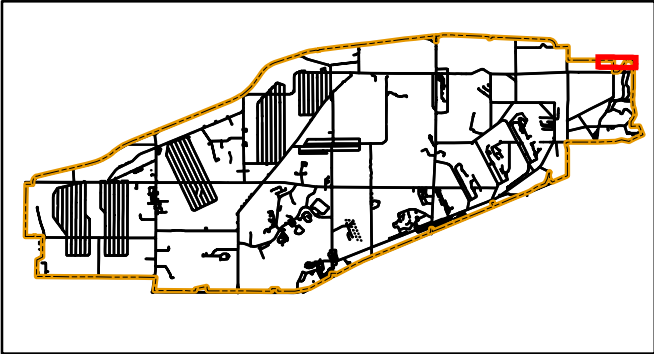
PHOTO NE5 discovered 02/13/2013

Legend

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



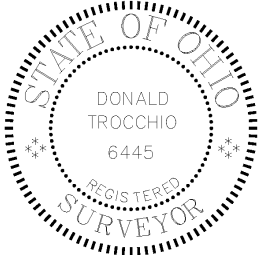
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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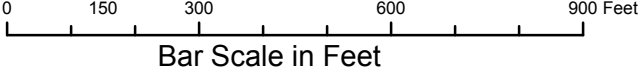
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Louisville District



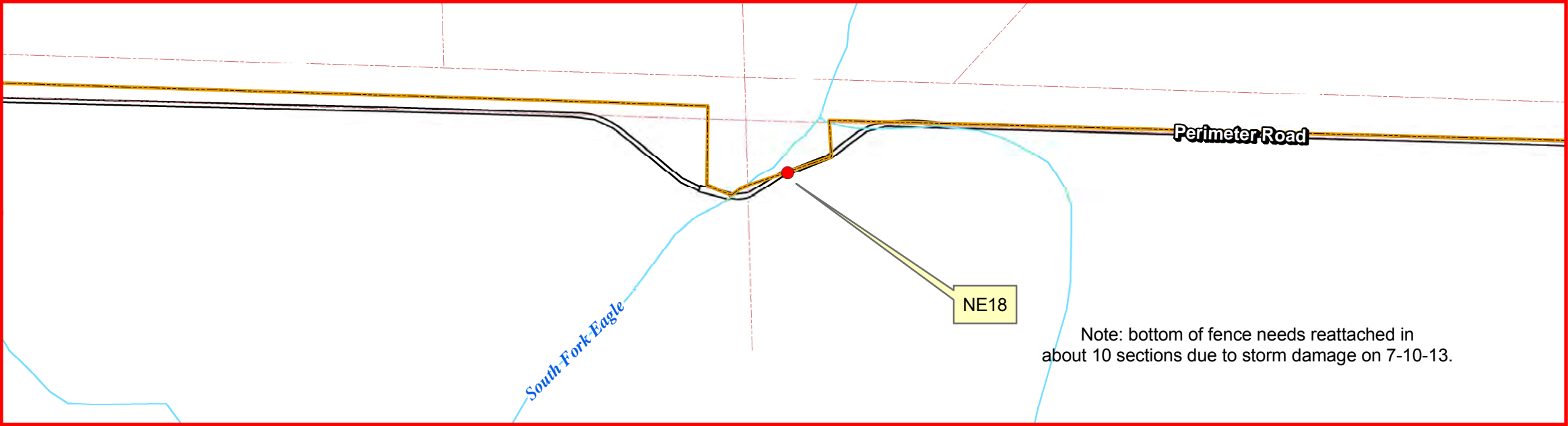
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Plane Rectangular Grid, North Zone



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Ravenna, Oh 44266
Don Trocchio, PS
don.trocchio@us.army.mil

DETAIL SHEET FOR NE5

DETAIL SHEET FOR NE18



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

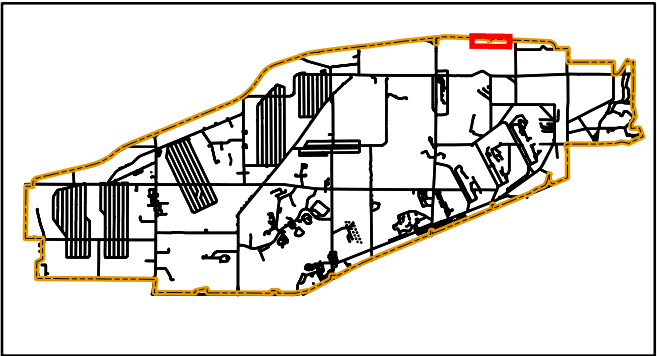
PHOTO NE18 discovered 07/17/2013

Legend

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



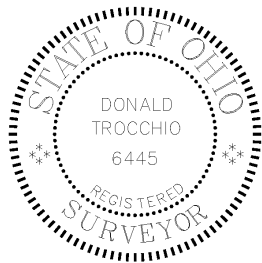
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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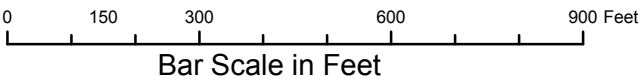
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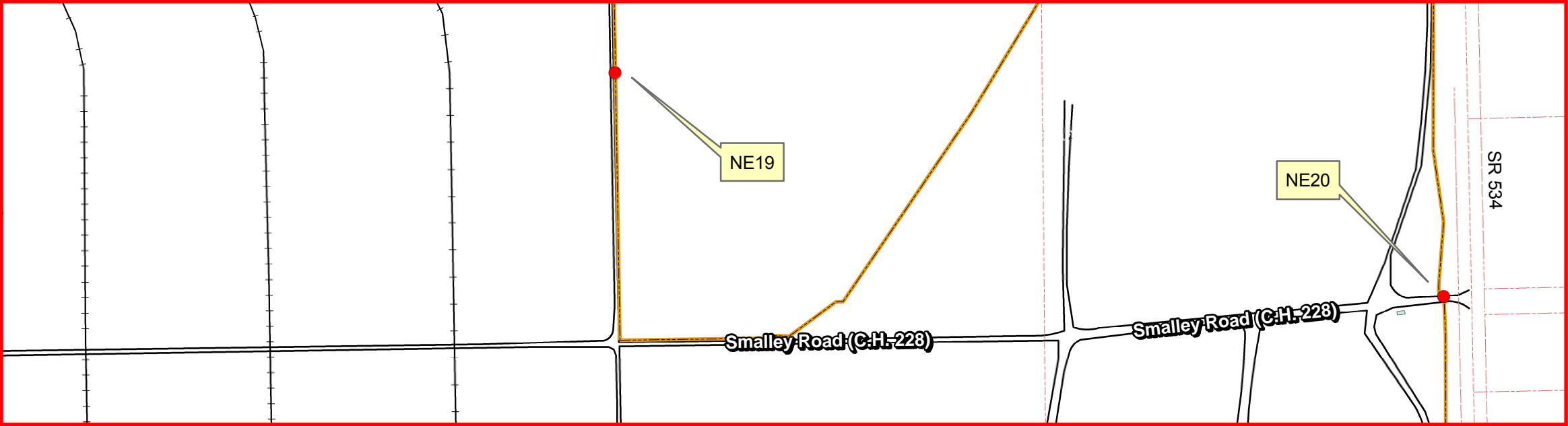
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DETAIL SHEET FOR NE18

DETAIL SHEET FOR NE19



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

PHOTO NE19 discovered 07/17/2013

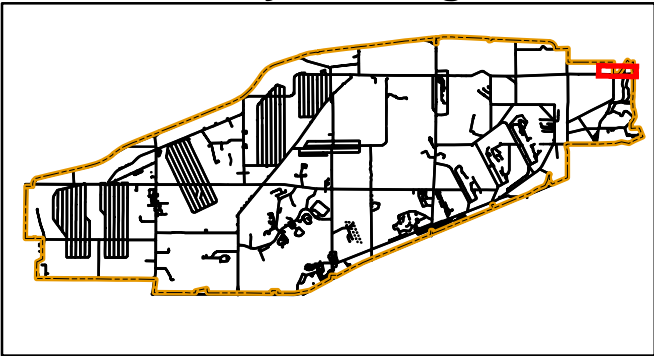
Legend

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

REPAIR
CALLOUT



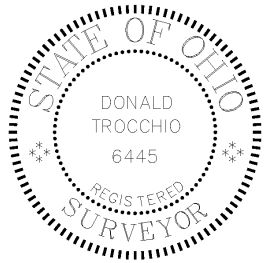
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Portage & Trumbull County
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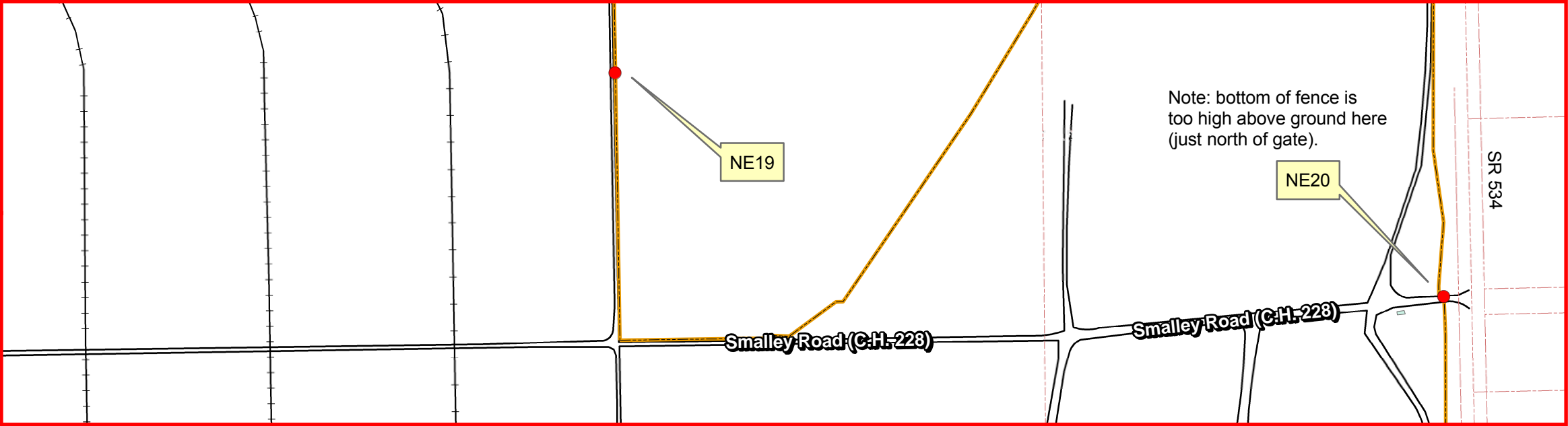
0 150 300 600 900 Feet
Bar Scale in Feet



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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

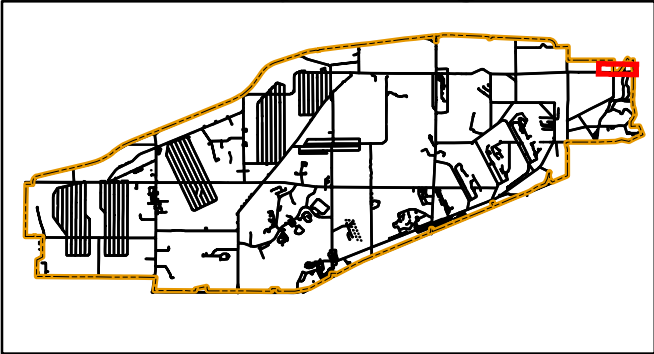
Legend

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

REPAIR
CALLOUT



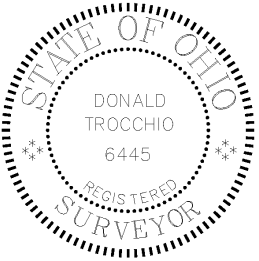
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Portage & Trumbull County
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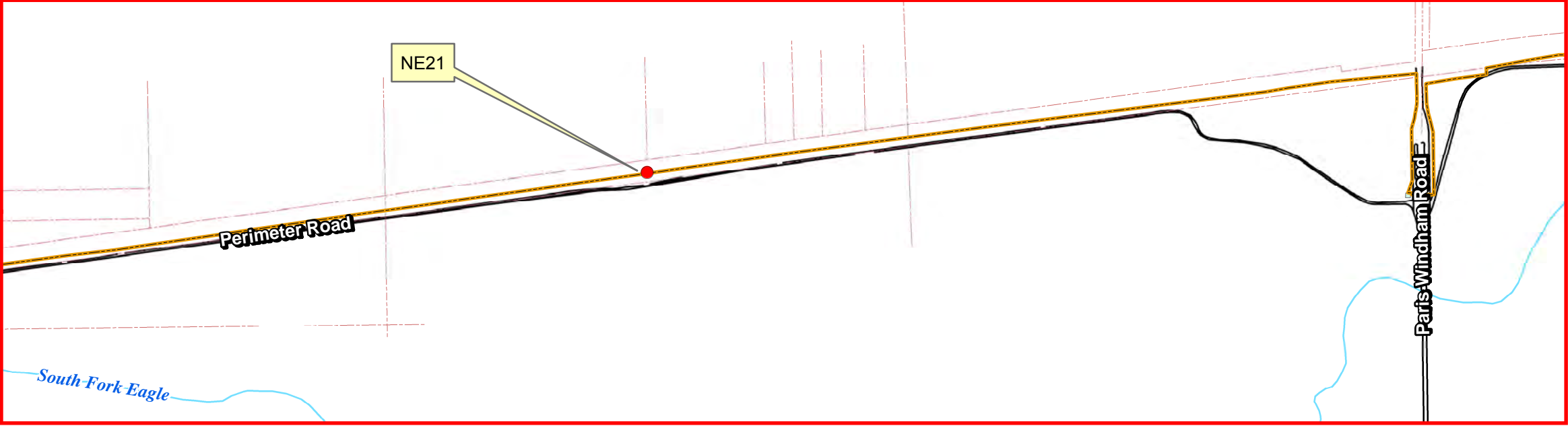
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Bar Scale in Feet



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DETAIL SHEET FOR NE20

DETAIL SHEET FOR NE21



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

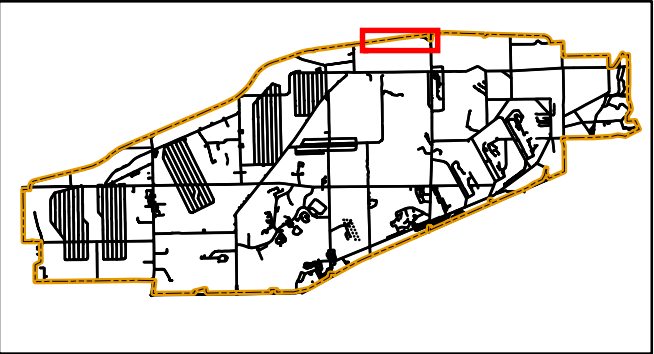
PHOTO NE21 discovered 11/21/2013

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



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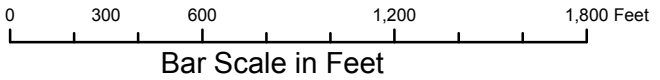
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DETAIL SHEET FOR NE21

DETAIL SHEET FOR NE22



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

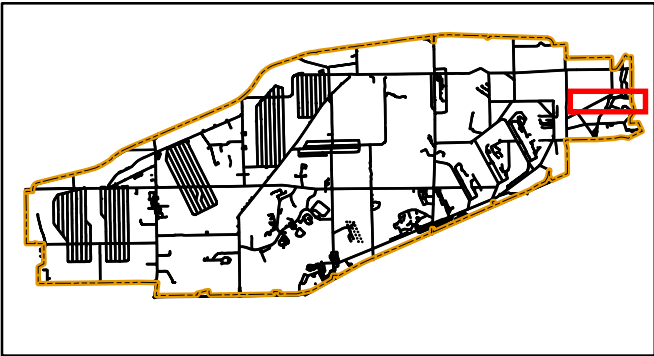
PHOTO NE22 discovered 11/25/2013

Legend

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



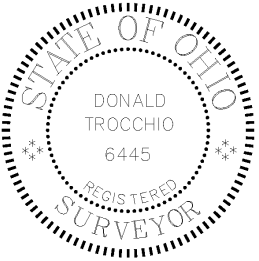
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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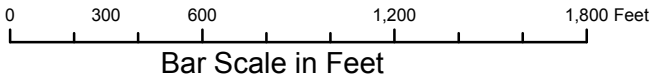
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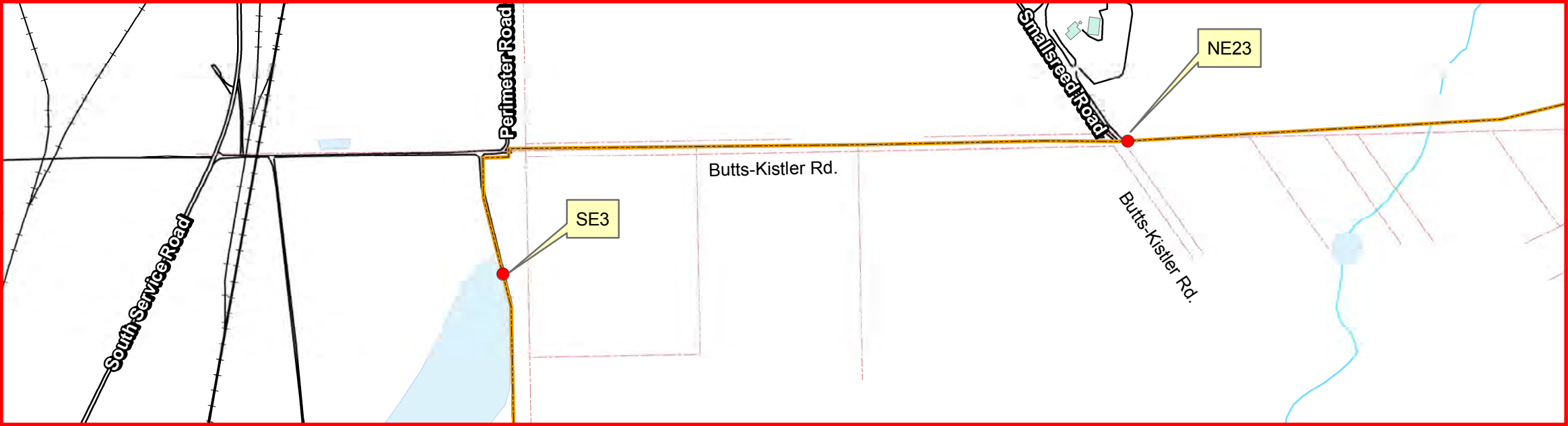
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DETAIL SHEET FOR NE22

DETAIL SHEET FOR NE23



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

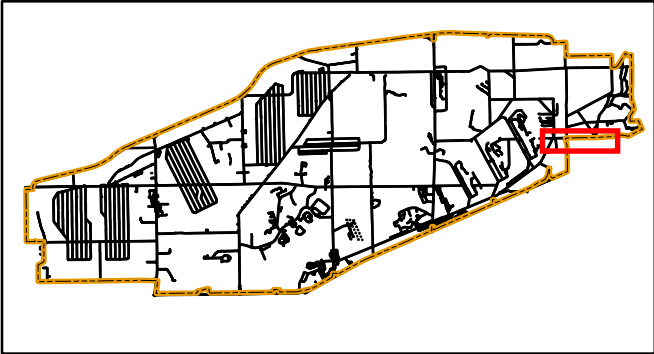
PHOTO NE23 discovered 11/25/2013

Legend

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



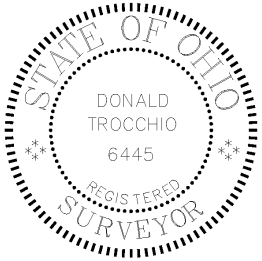
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Ohio Army National Guard



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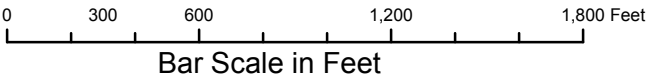
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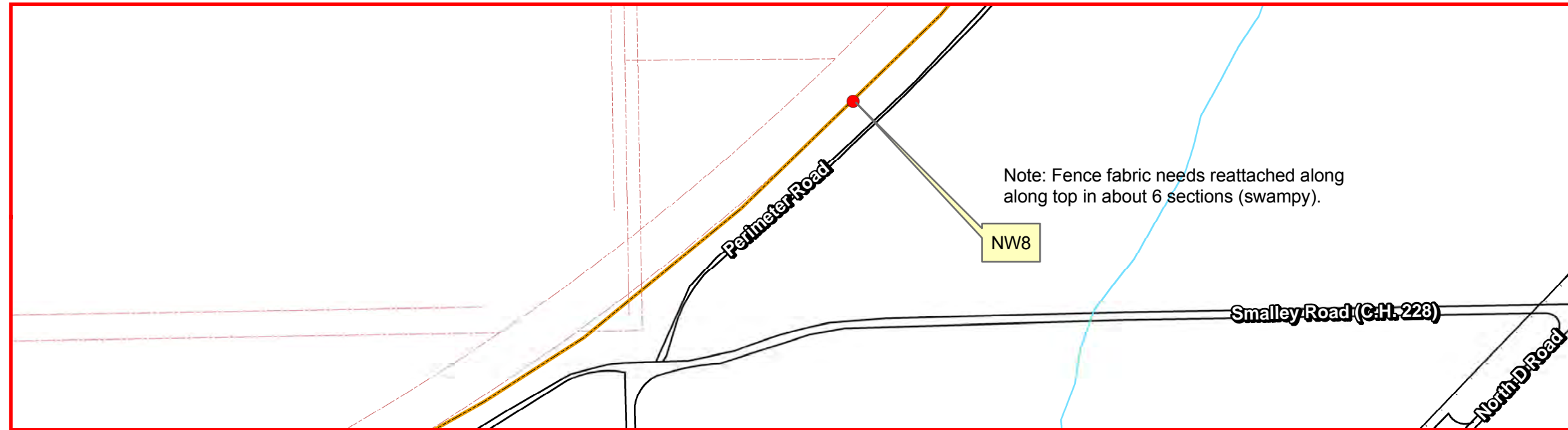


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DETAIL SHEET FOR NE23

NW (Northwest) Quadrant

DETAIL SHEET FOR NW8



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

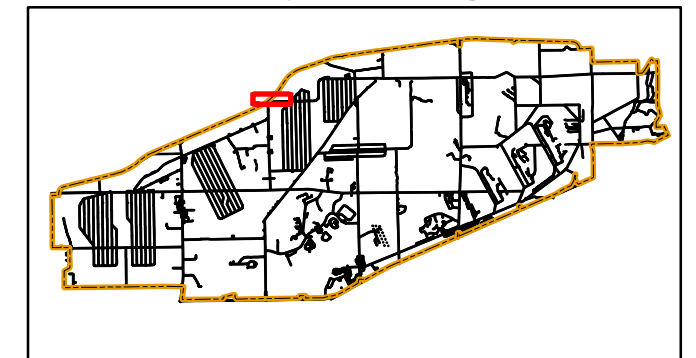
PHOTO NW8 discovered 07/16/2013

Legend

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



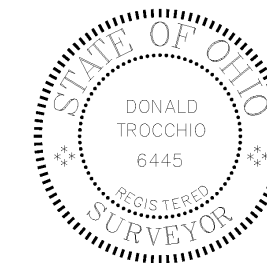
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



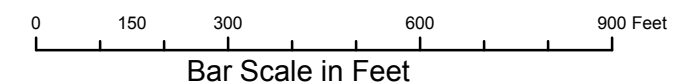
**US Army Corps of
Engineers**

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

Louisville District



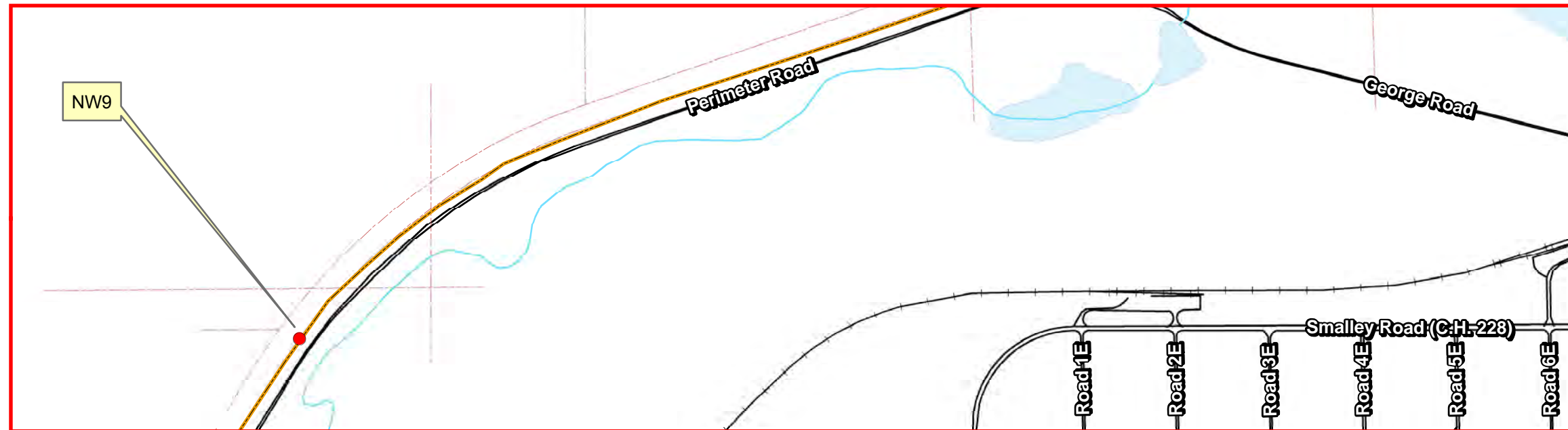
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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

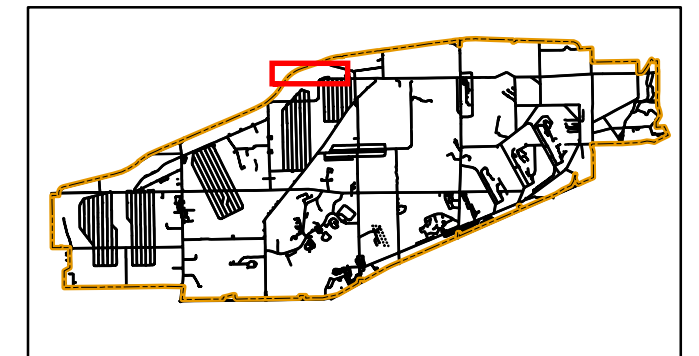
PHOTO NW9 discovered 11/19/2013

Legend

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



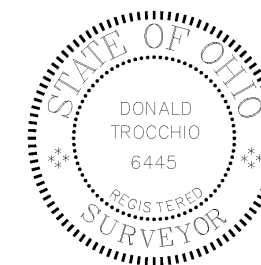
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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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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DETAIL SHEET FOR NW9

DETAIL SHEET FOR NW10



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

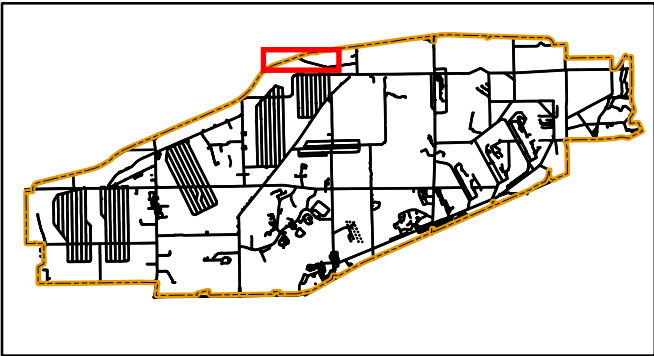
PHOTO NW10 discovered 11/21/2013

Legend

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



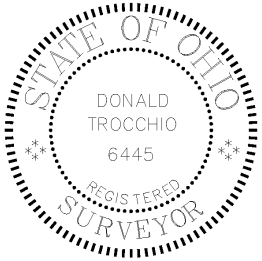
Camp Ravenna
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 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

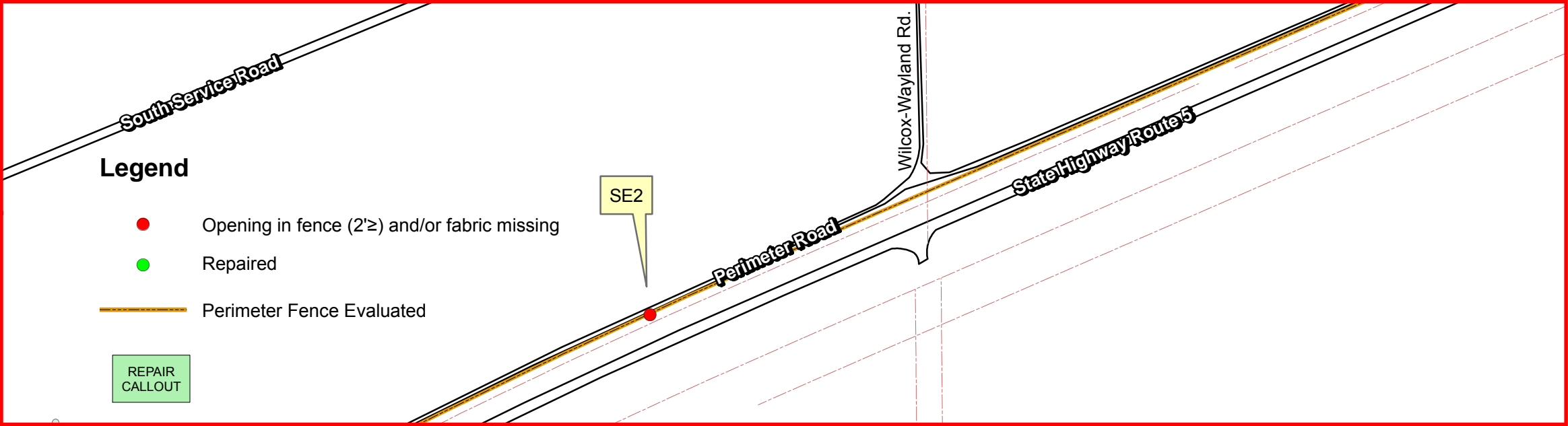


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DETAIL SHEET FOR NW10

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2



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

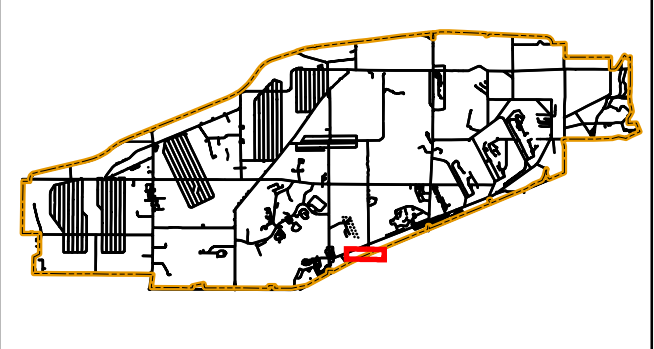
PHOTO SE2 on 2 Dec 2013



PHOTO SE2 discovered 07/18/2013



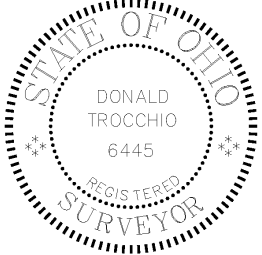
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:

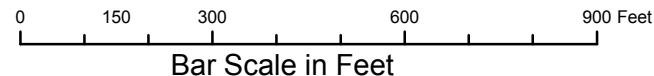


US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
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Louisville District



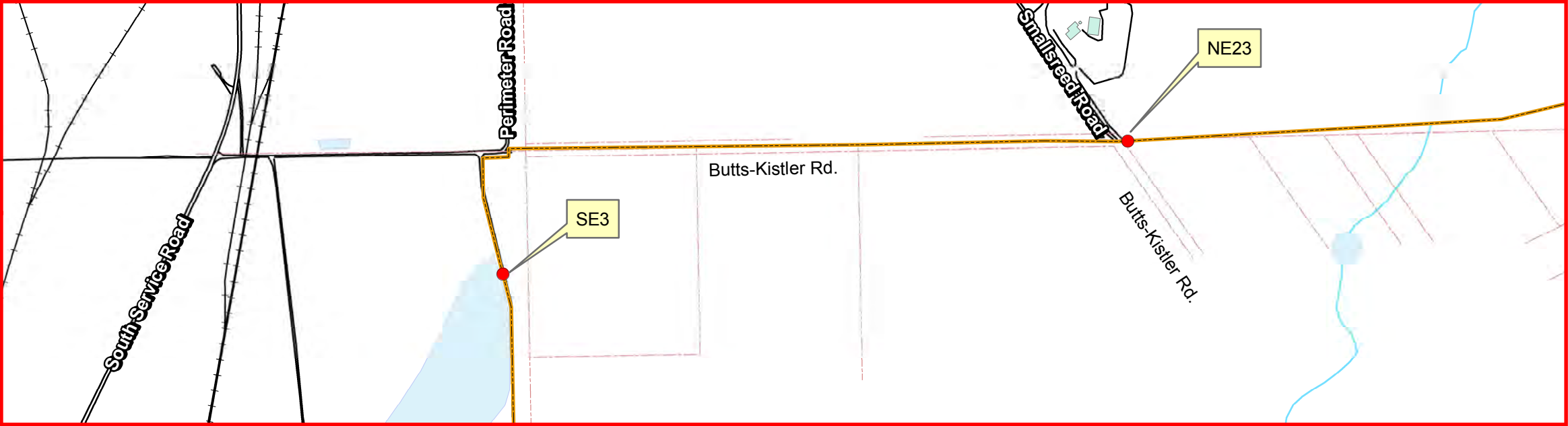
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR SE2

DETAIL SHEET FOR SE3



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

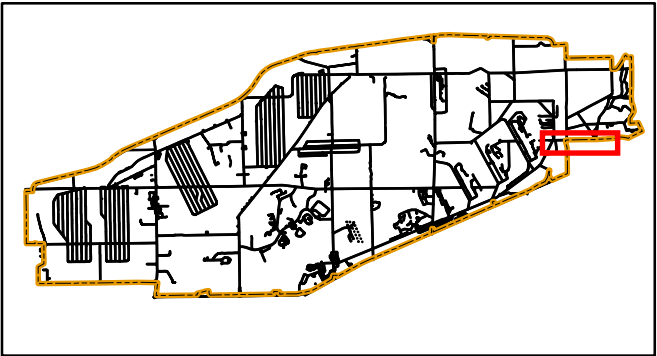
PHOTO SE3 discovered 11/25/2013

Legend

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



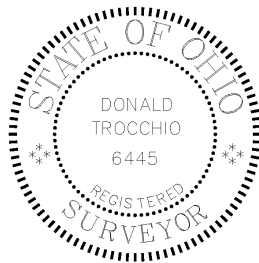
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



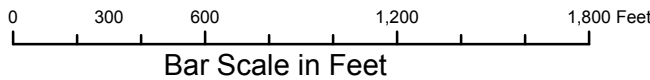
**US Army Corps of
Engineers**

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

Louisville District



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

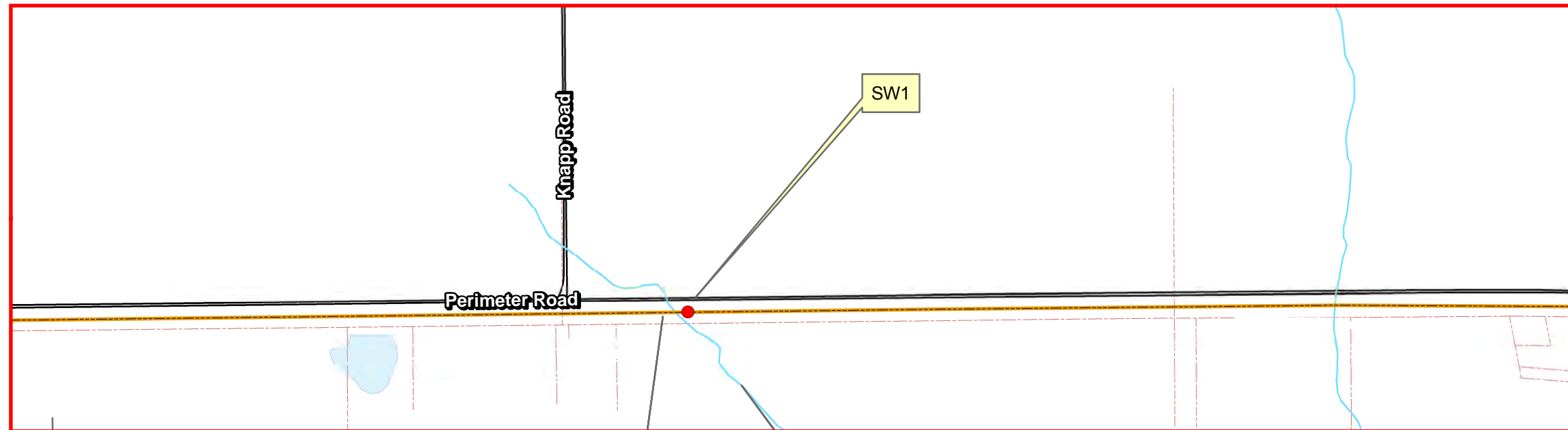


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DETAIL SHEET FOR SE3

SW (Southwest) Quadrant

DETAIL SHEET FOR SW1



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

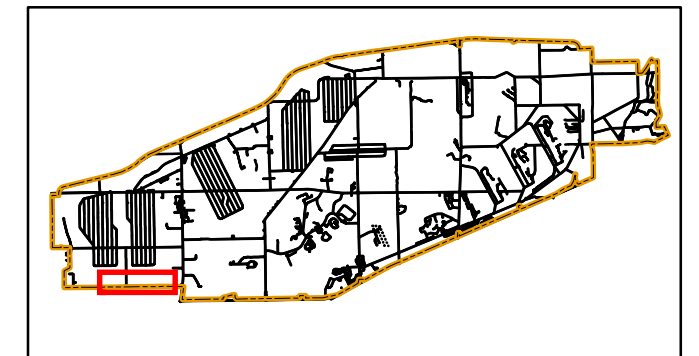
PHOTO SW1 discovered 02/07/2013

Legend

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



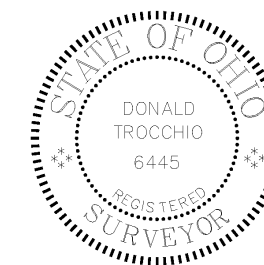
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



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

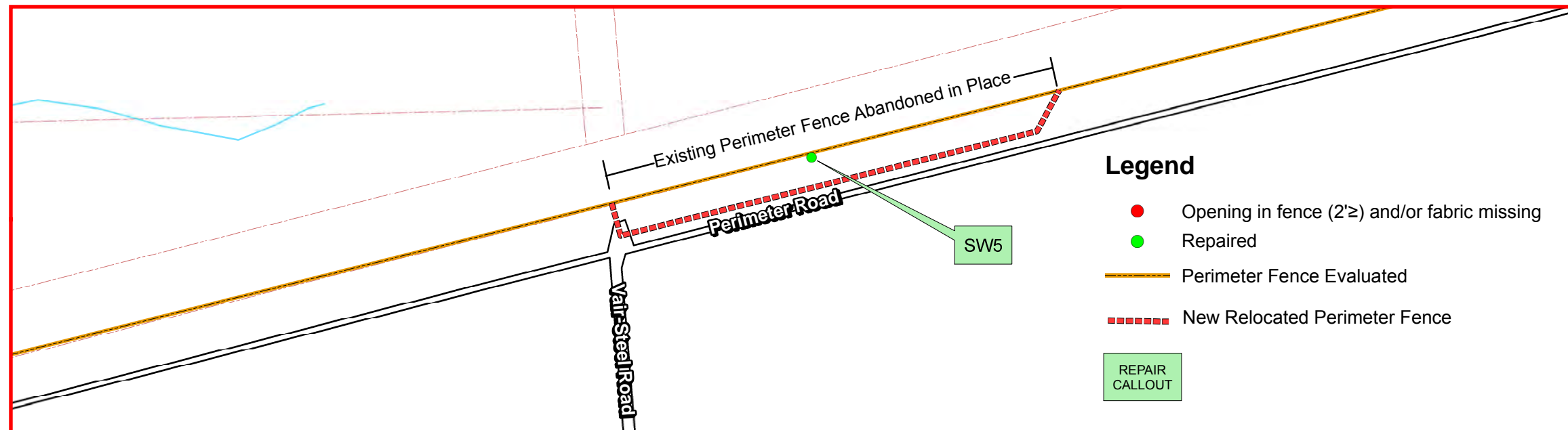
0 300 600 1,200 1,800 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW1

DETAIL SHEET FOR SW5



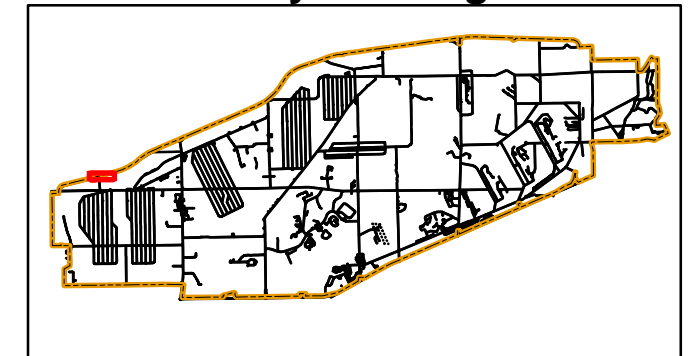
LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2014 PERIMETER FENCE INSPECTION

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

PHOTO SW5 discovered 02/12/2013



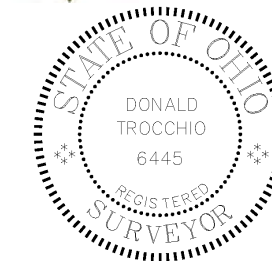
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



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Louisville District



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

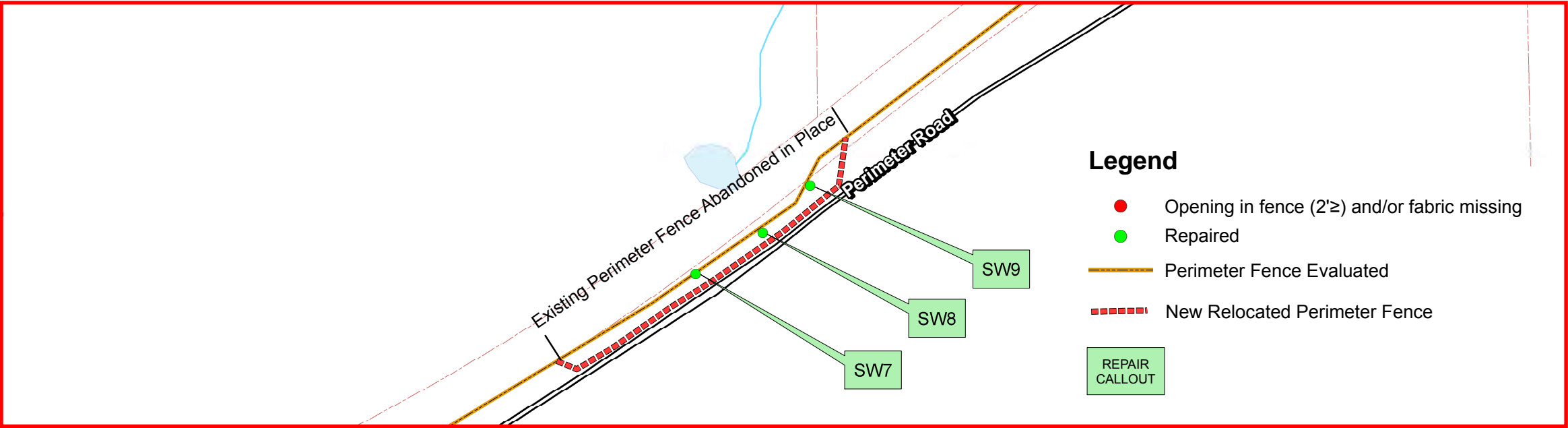
0 100 200 400 600 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW5

DETAIL SHEET FOR SW7, SW8 and SW9



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

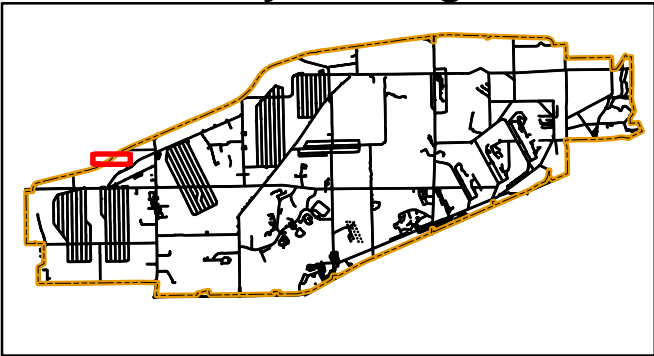
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE
photo taken 11/19/2013



PHOTO SW7 discovered 02/12/2013



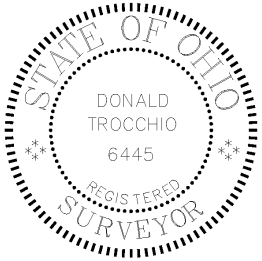
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



US Army Corps of Engineers

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Louisville, KY 40202

Louisville District



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

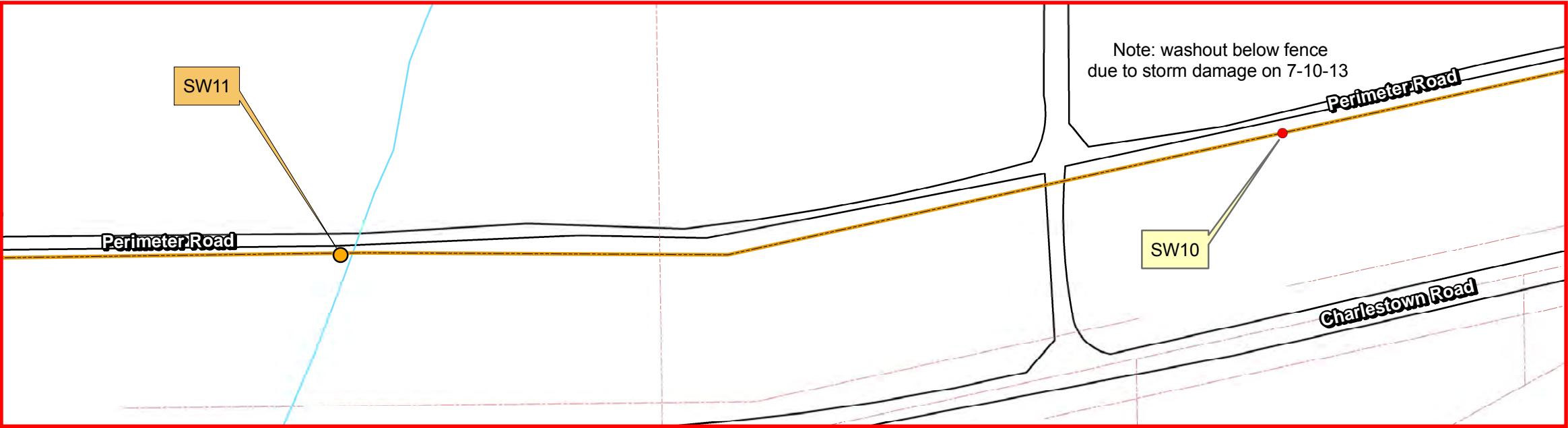
0 150 300 600 900 Feet
Bar Scale in Feet



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Don Trocchio, PS
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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

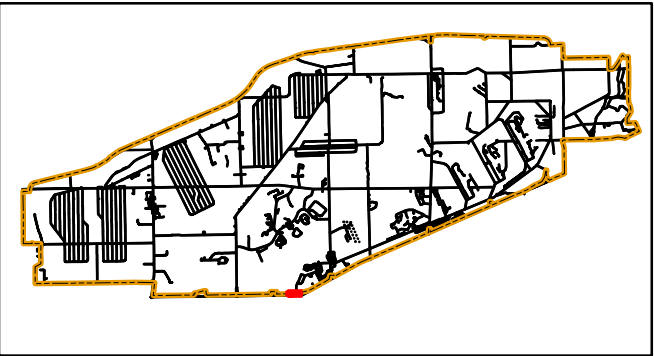


Legend

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

REPAIR
CALLOUT

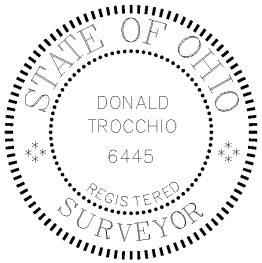
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



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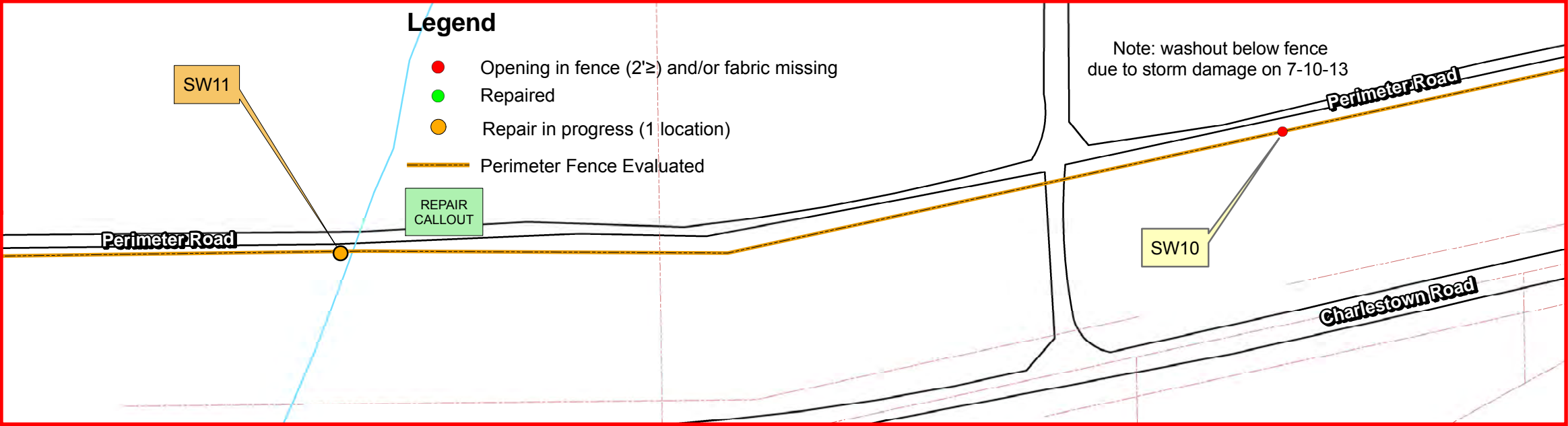
0 50 100 200 300 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW10

DETAIL SHEET FOR SW11



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

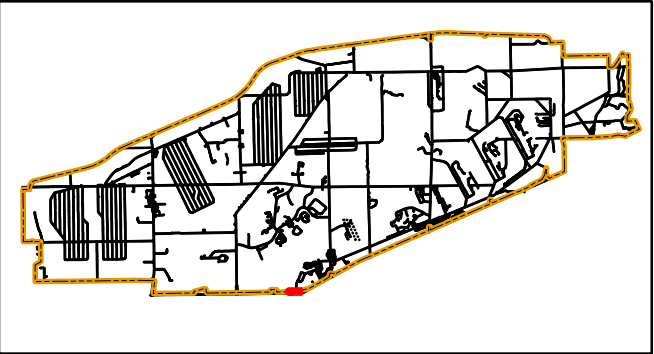
PHOTO SW11 DEPICTING REPAIRS IN PROGRESS
photo taken 11/18/2013



PHOTO SW11 discovered 07/15/2013



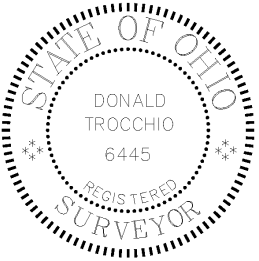
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



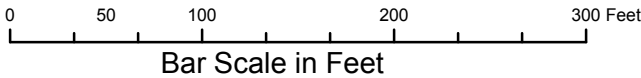
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
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Louisville District



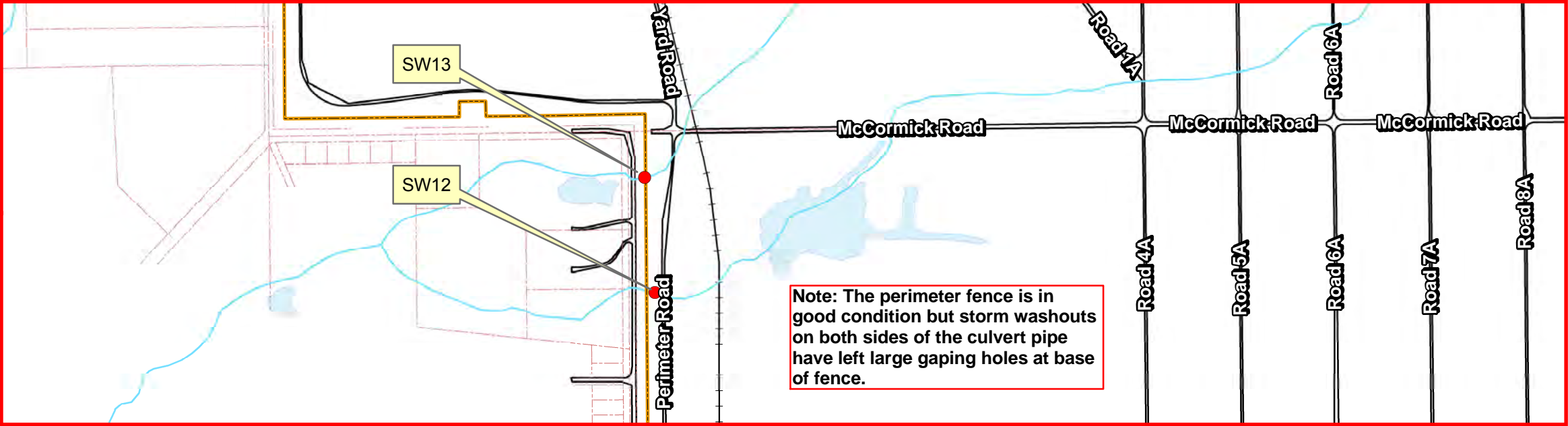
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



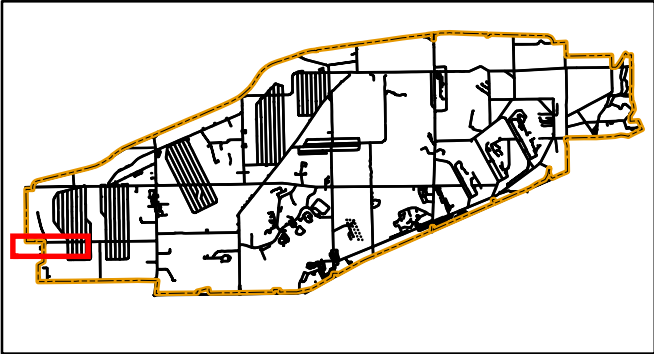
8451 State Route 5 Bldg:1037
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Don Trocchio, PS
don.trocchio@us.army.mil

DETAIL SHEET FOR SW11

DETAIL SHEET FOR SW12



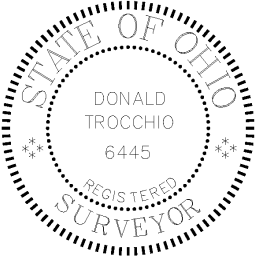
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

PHOTO SW12 discovered 11/18/2013

Legend

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



Produced in December 2013 for:



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Louisville District



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

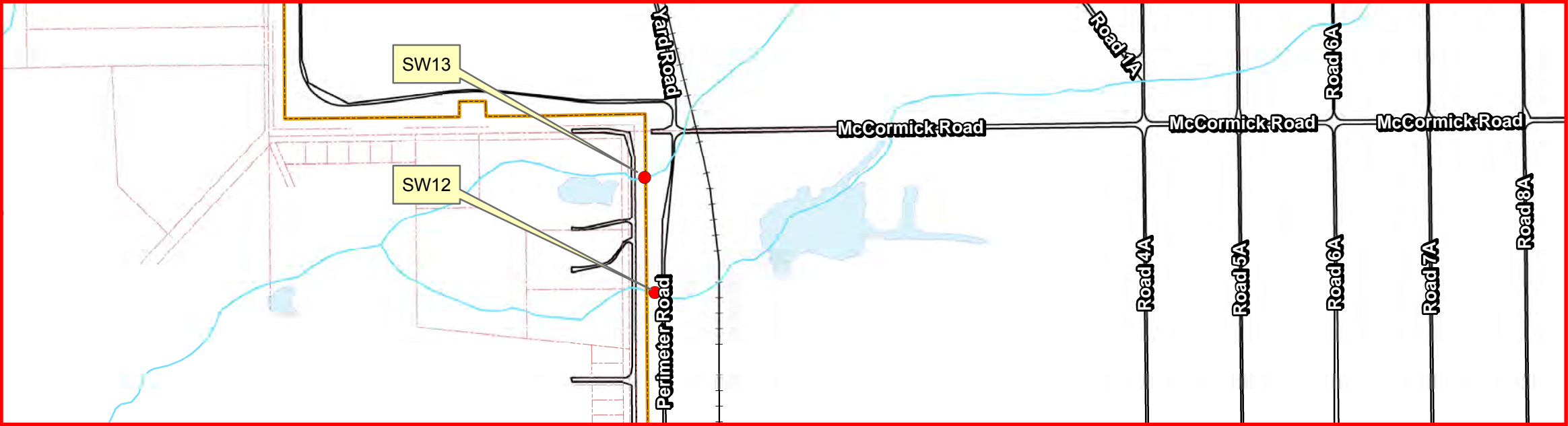
0 300 600 1,200 1,800 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW13



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

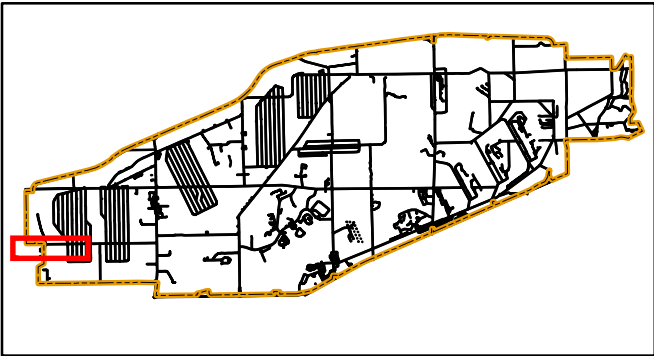
PHOTO SW13 discovered 11/18/2013

Legend

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



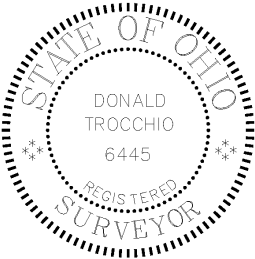
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2013 for:



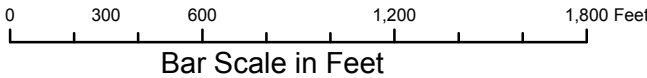
**US Army Corps of
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Louisville District



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Plane Rectangular Grid, North Zone



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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).				

Camp Ravenna Fence Repair Log - 2013				
Location of Fence Section Repaired	Description of Repair	Initials of Person Performing the Repair	Date of Repair	Notes
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).				

Appendix D

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

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 4th 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 2nd 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

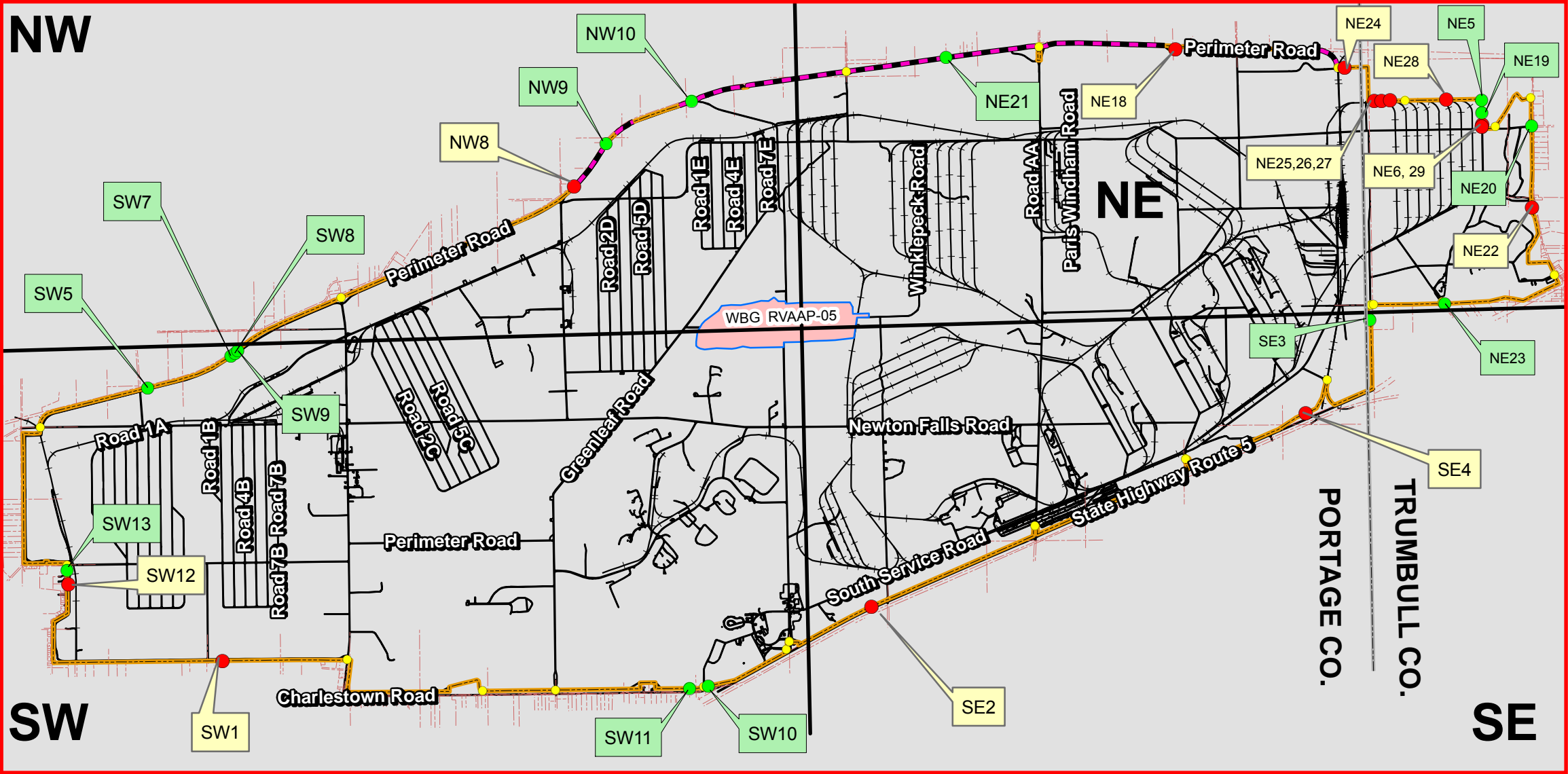


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

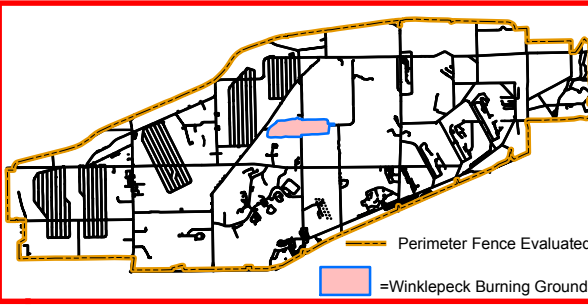
- Opening in fence (2'±) and/or fabric missing/damaged (14 locations)
- Repaired (15 locations)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- New fence fabric currently being installed and in progress (4.3mi to date). See also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

Ohio Army National Guard



Produced in March 2014 for:



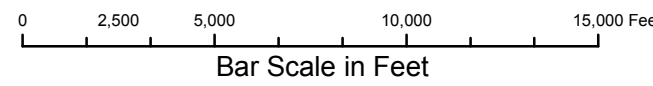
US Army Corps of
Engineers

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

Summary Table

Summary Table

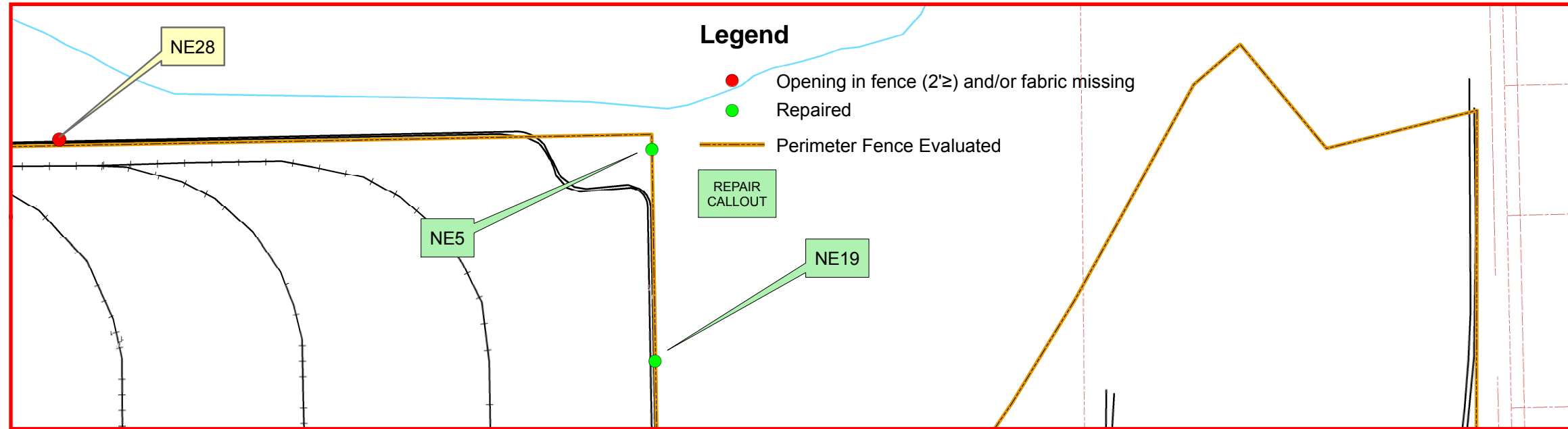
Camp Ravenna Joint Military Training Center 2nd Qtr FY2014 LUC Inspection Summary Table				US Survey Ft			
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REPAIRED 1ST QTR

REPAIRED 2ND QTR

NE (Northeast) Quadrant

DETAIL SHEET FOR NE5



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

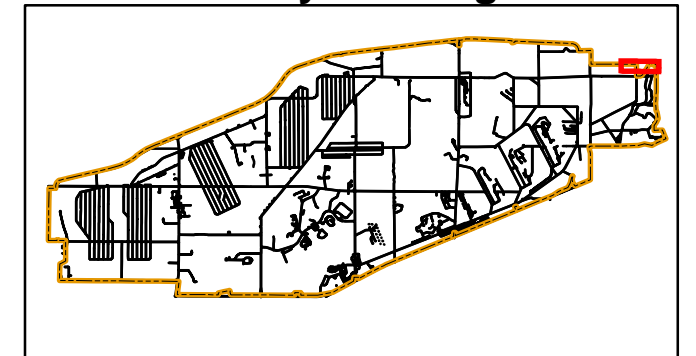
PHOTO NE5 repair 03/03/2014



PHOTO NE5 discovered 02/13/2013



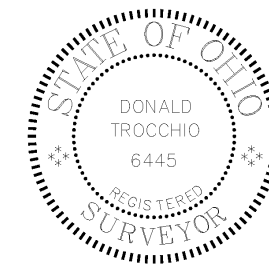
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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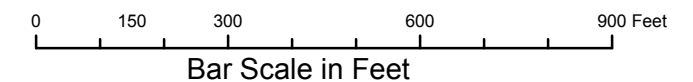
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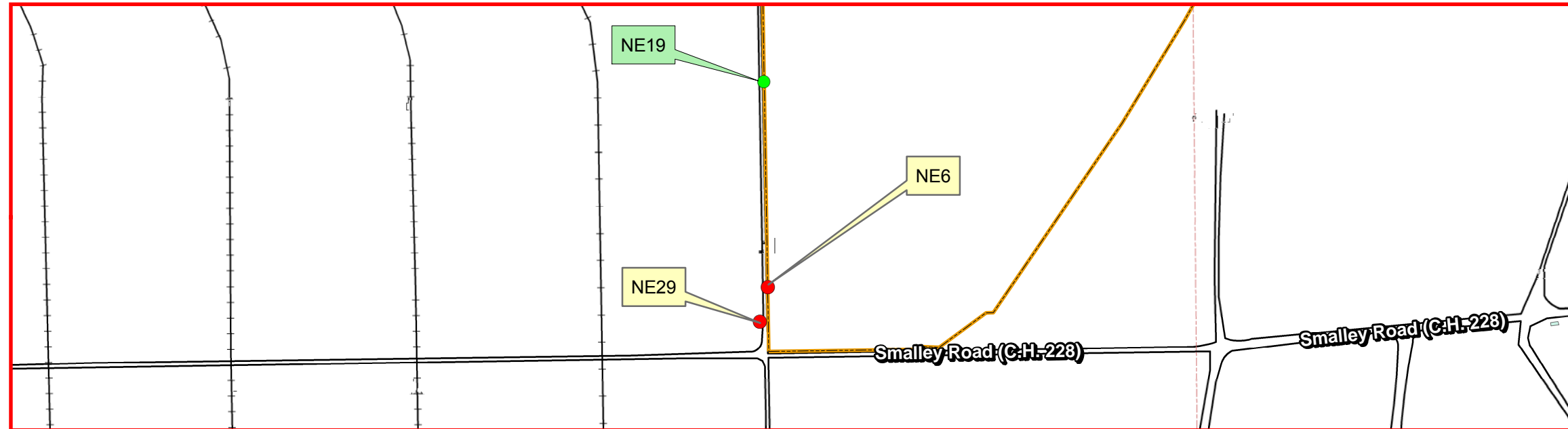
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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

DETAIL SHEET FOR NE5

DETAIL SHEET FOR NE6



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

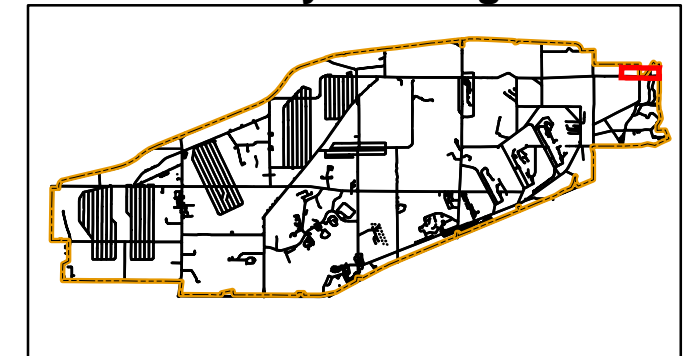
PHOTO NE6 discovered 03/03/2014

Legend

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



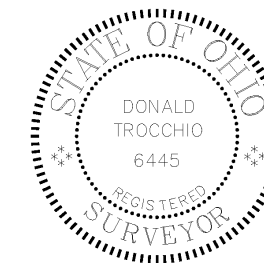
Camp Ravenna Joint Military Training Center



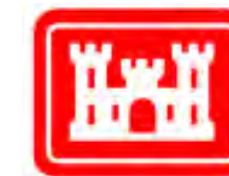
Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



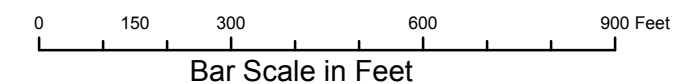
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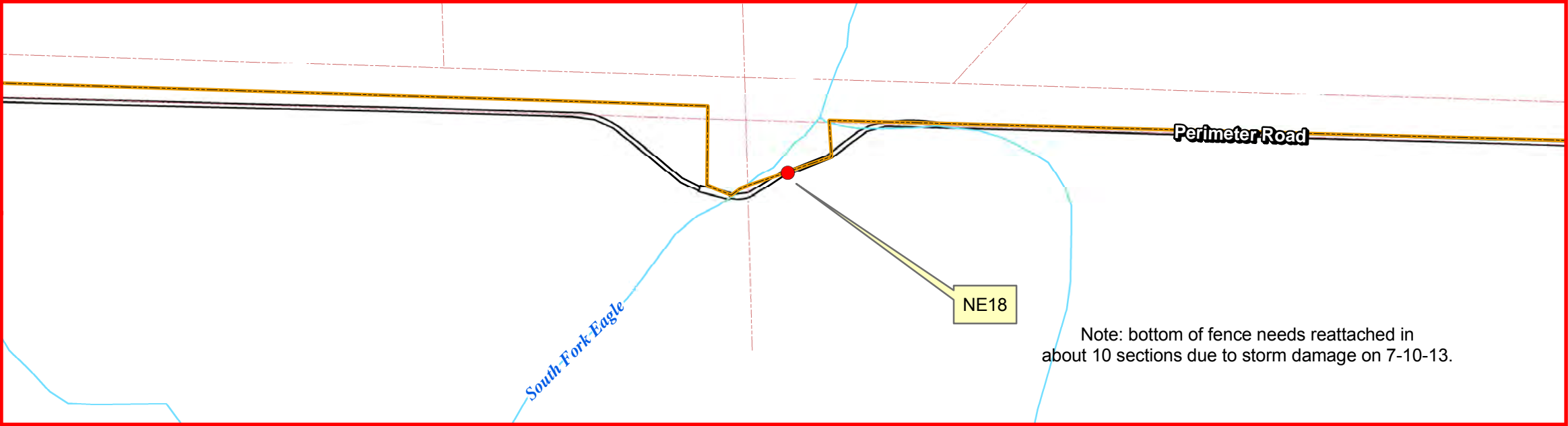


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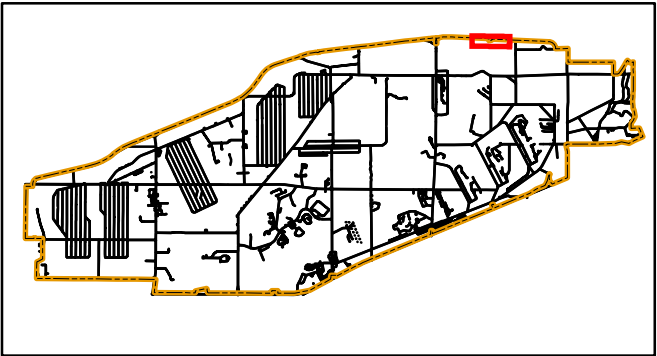
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE6

DETAIL SHEET FOR NE18



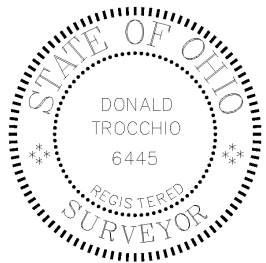
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Ohio

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

PHOTO NE18 discovered 07/17/2013

Legend

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



Produced in March 2014 for:



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0 150 300 600 900 Feet
Bar Scale in Feet

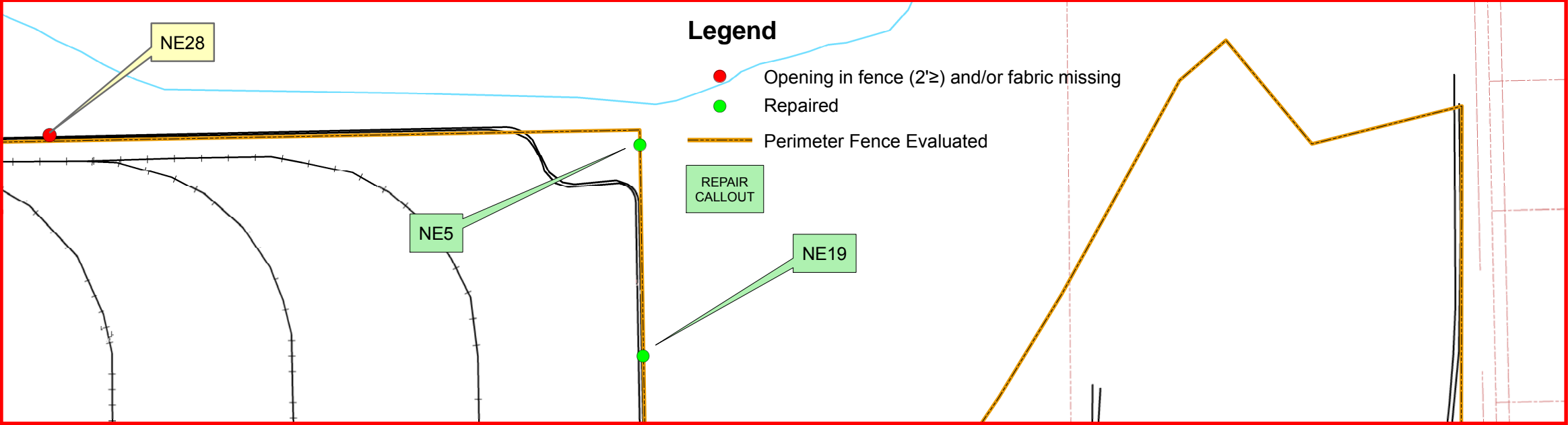


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE18

DETAIL SHEET FOR NE19



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

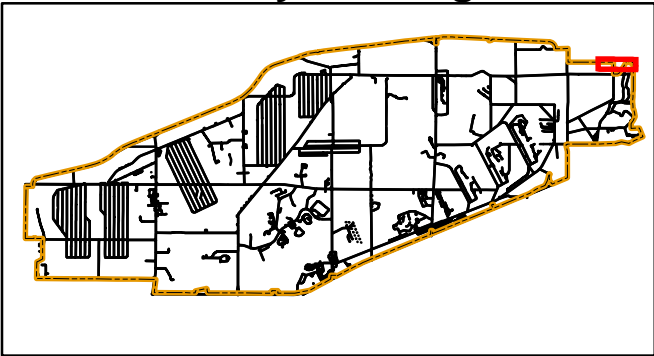
PHOTO NE19 repair 03/03/2014



PHOTO NE19 discovered 07/17/2013



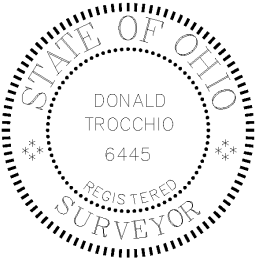
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



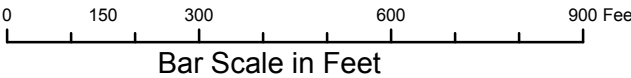
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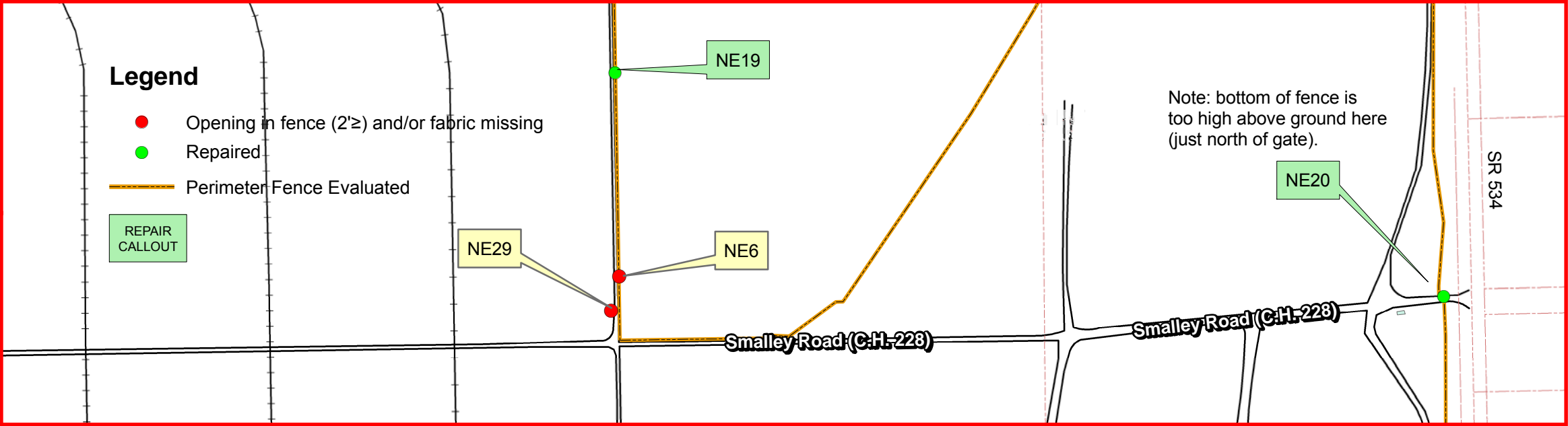


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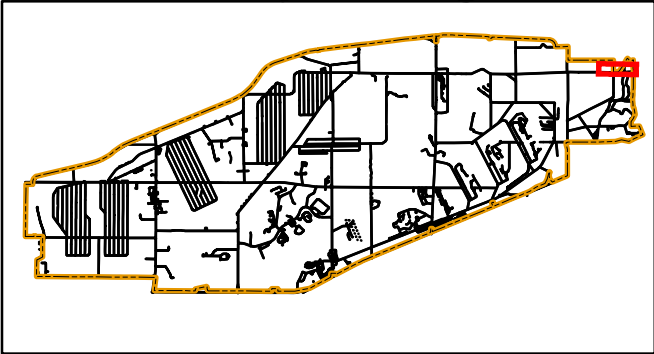
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE19

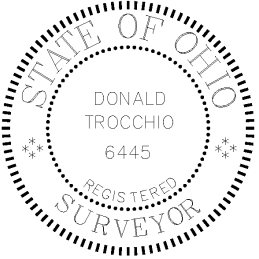
DETAIL SHEET FOR NE20



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



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:

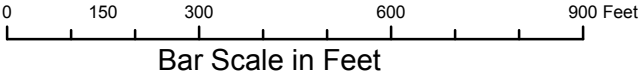


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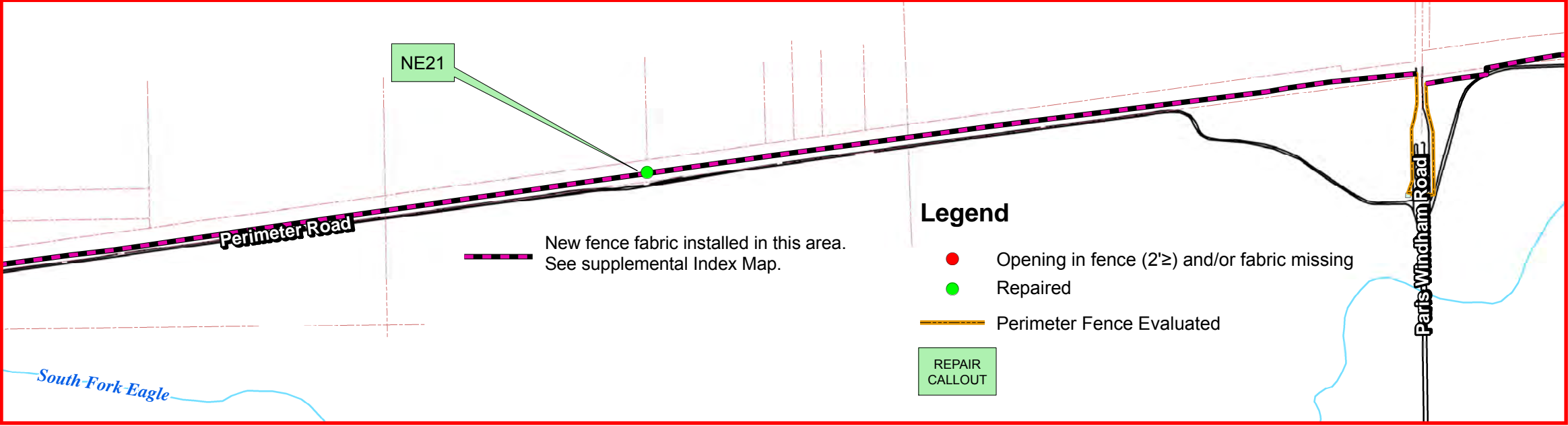
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



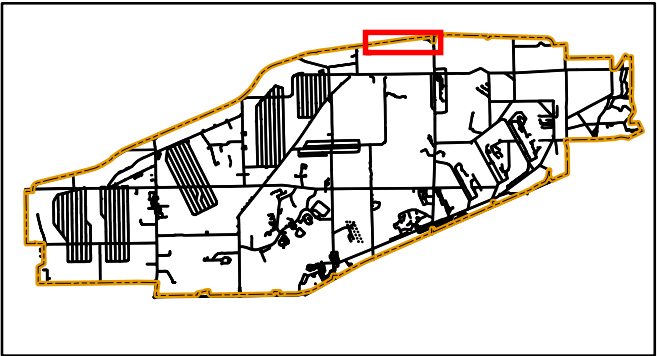
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Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE20

DETAIL SHEET FOR NE21



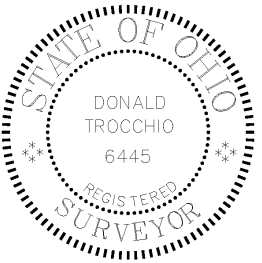
Camp Ravenna
Joint Military Training Center



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



Produced in March 2014 for:



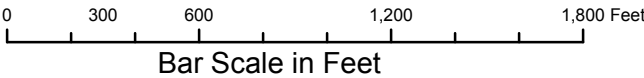
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NE21

DETAIL SHEET FOR NE22



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

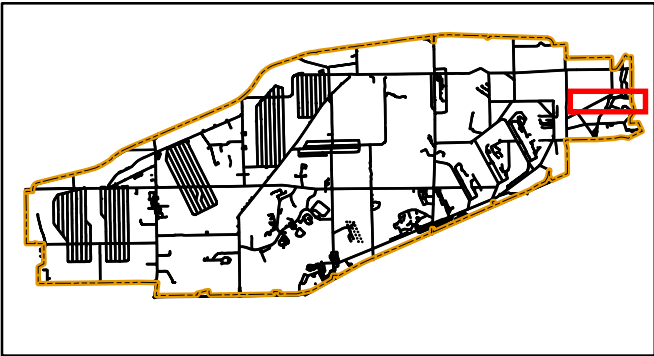
PHOTO NE22 discovered 11/25/2013

Legend

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



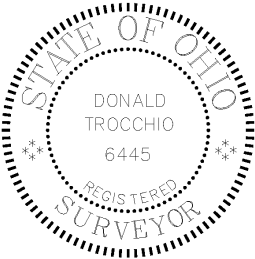
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LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



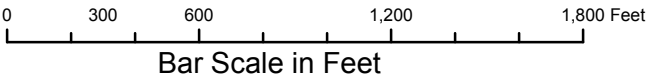
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

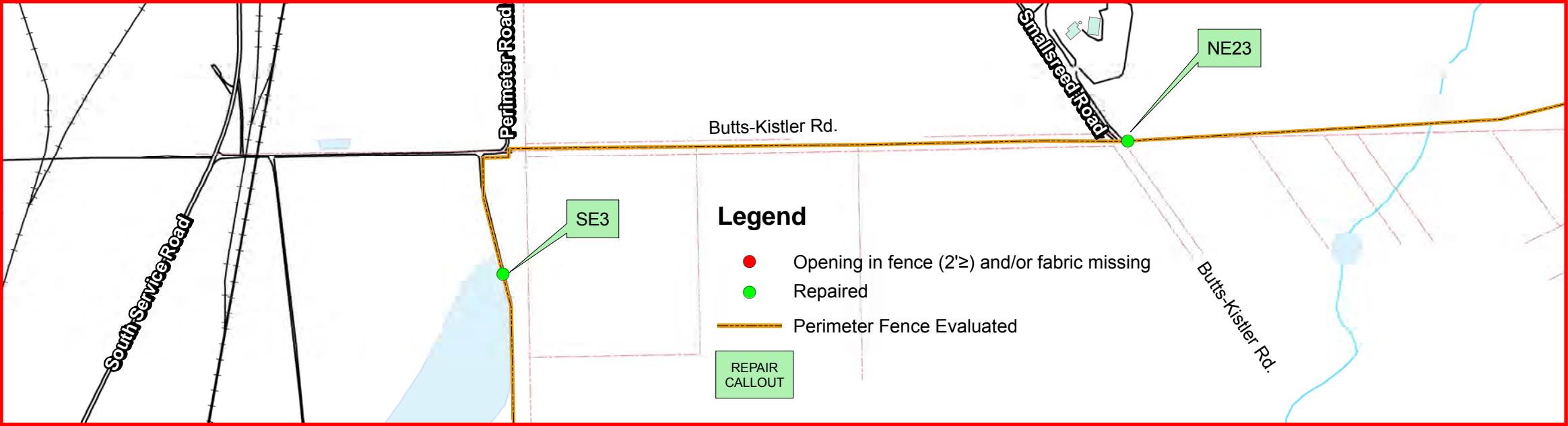


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DETAIL SHEET FOR NE22

DETAIL SHEET FOR NE23



Camp Ravenna
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Portage & Trumbull County
LOCATOR MAP

Ohio Army National Guard

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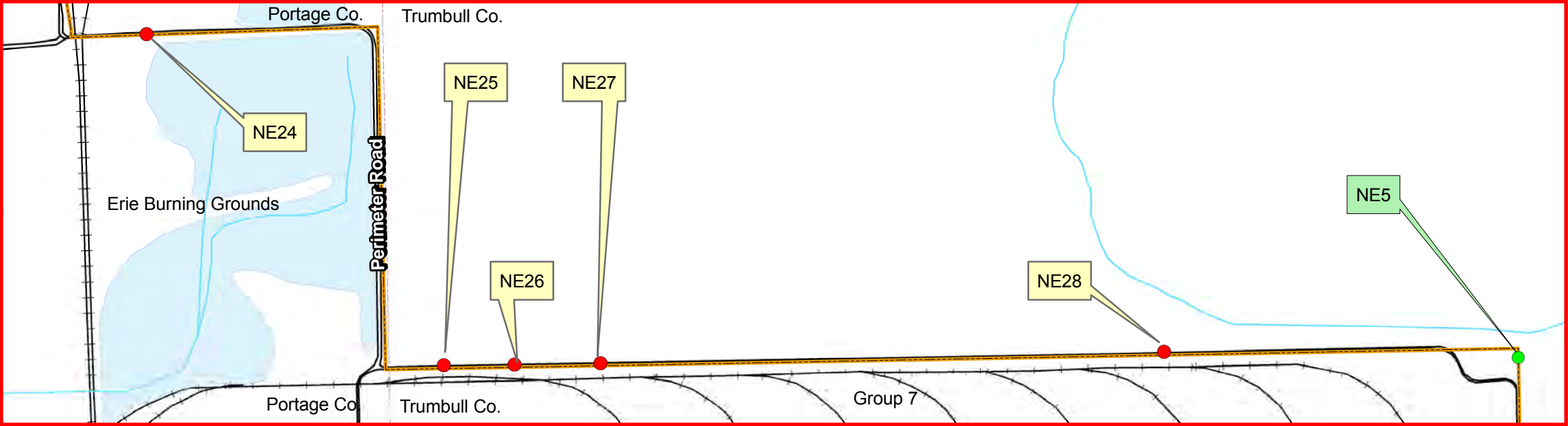
Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone

Bar Scale in Feet

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don.trocchio@us.army.mil
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DETAIL SHEET FOR NE23

DETAIL SHEET FOR NE24

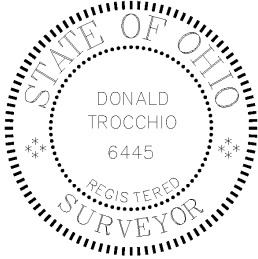
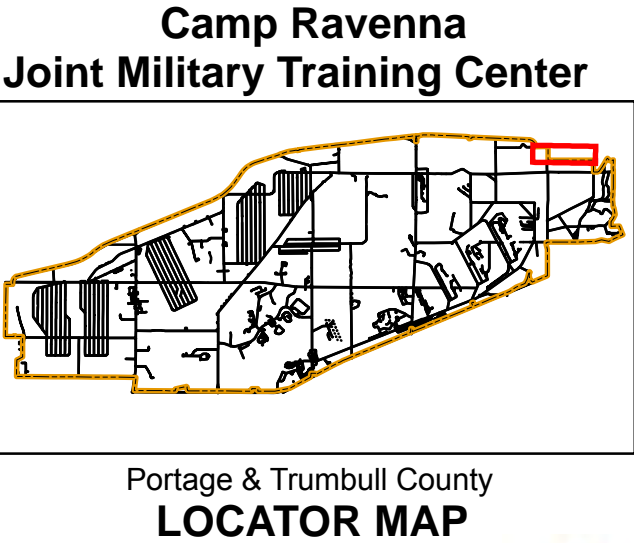


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014
PERIMETER FENCE INSPECTION

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:

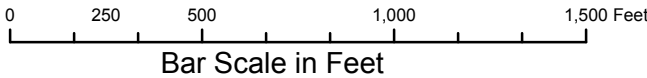


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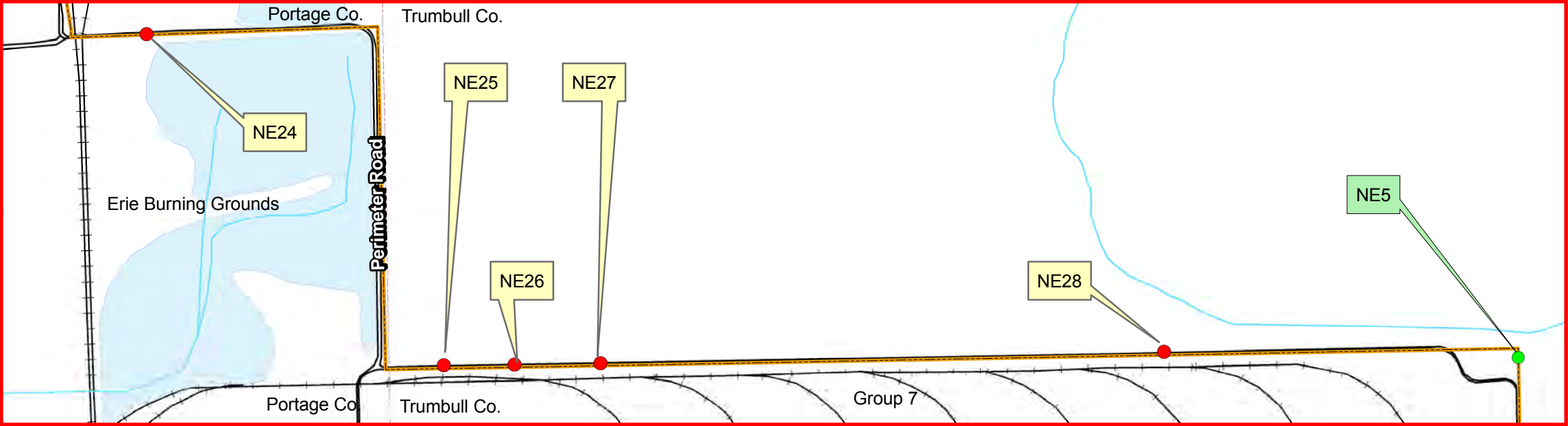
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NE24

DETAIL SHEET FOR NE25



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

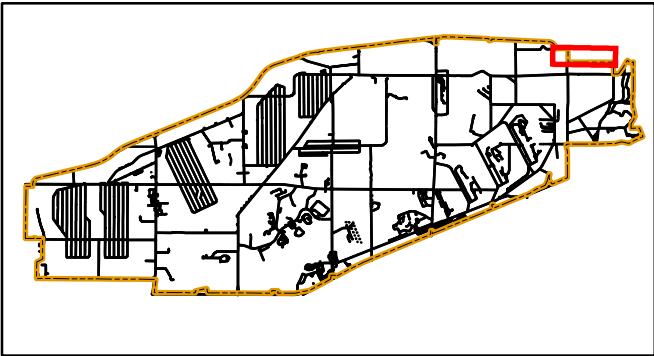
Legend

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

PHOTO NE25 discovered 03/03/2014



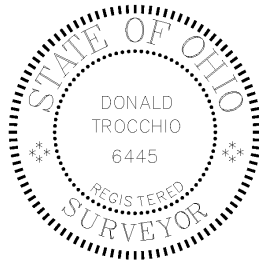
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

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

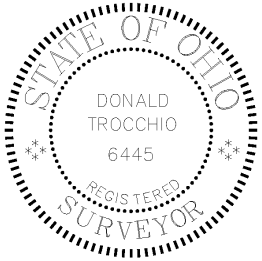
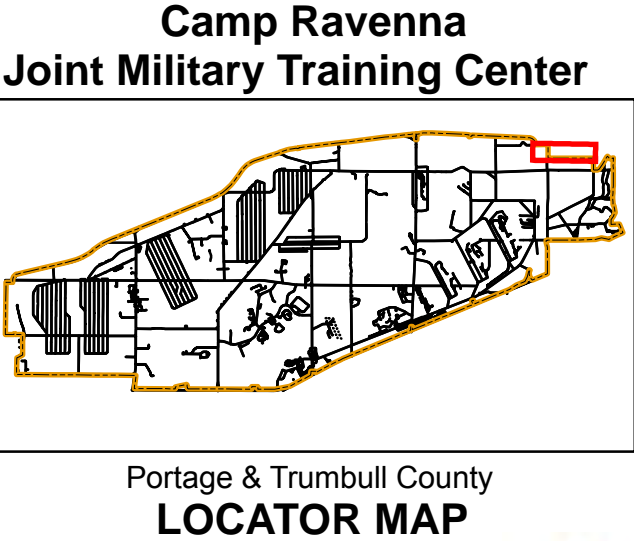
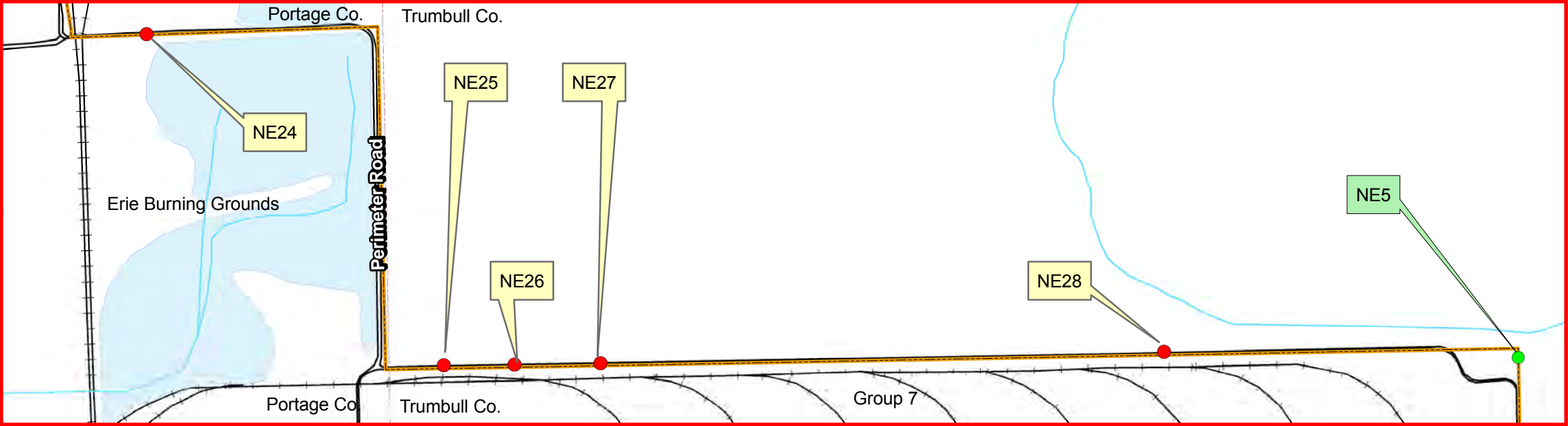


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DETAIL SHEET FOR NE25

DETAIL SHEET FOR NE26



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

PHOTO NE26 discovered 03/03/2014

Legend

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



Produced in March 2014 for:

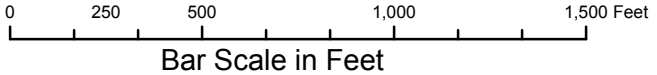


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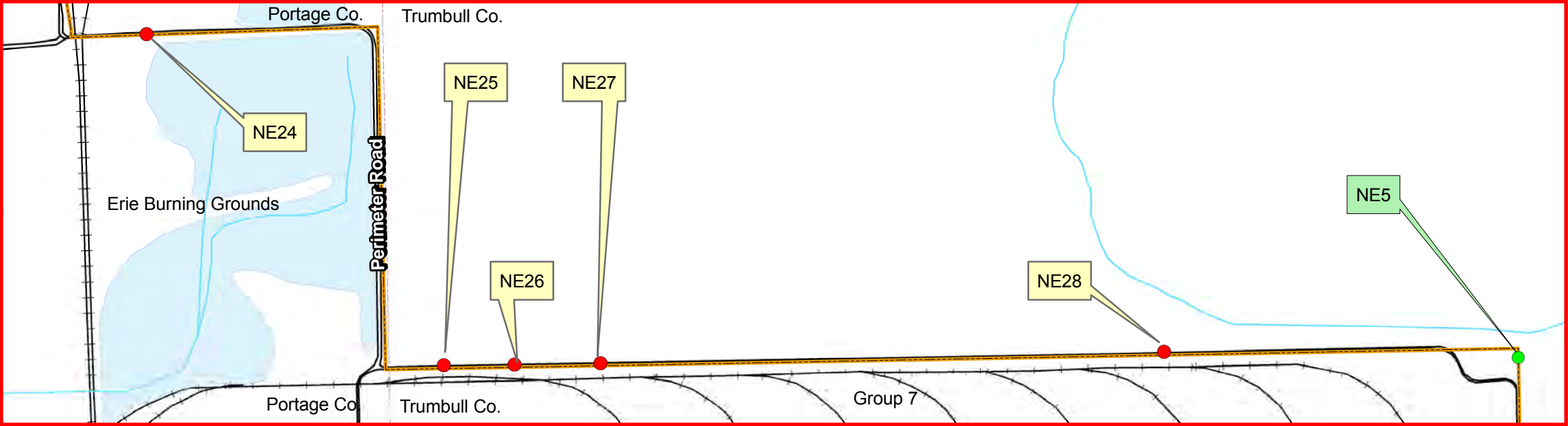
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NE26

DETAIL SHEET FOR NE27



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

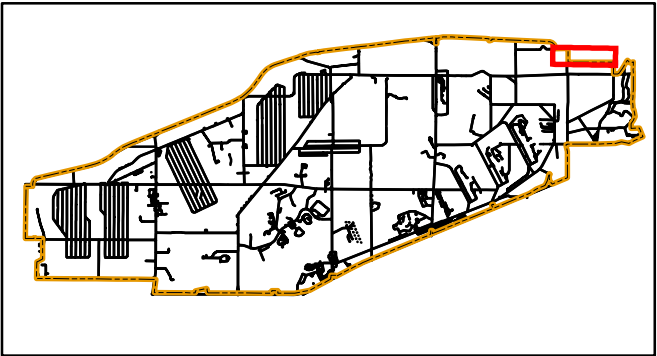
Legend

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

PHOTO NE27 discovered 03/03/2014



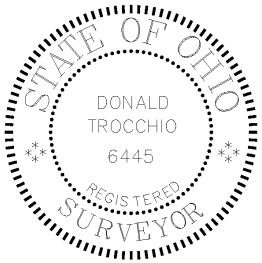
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

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

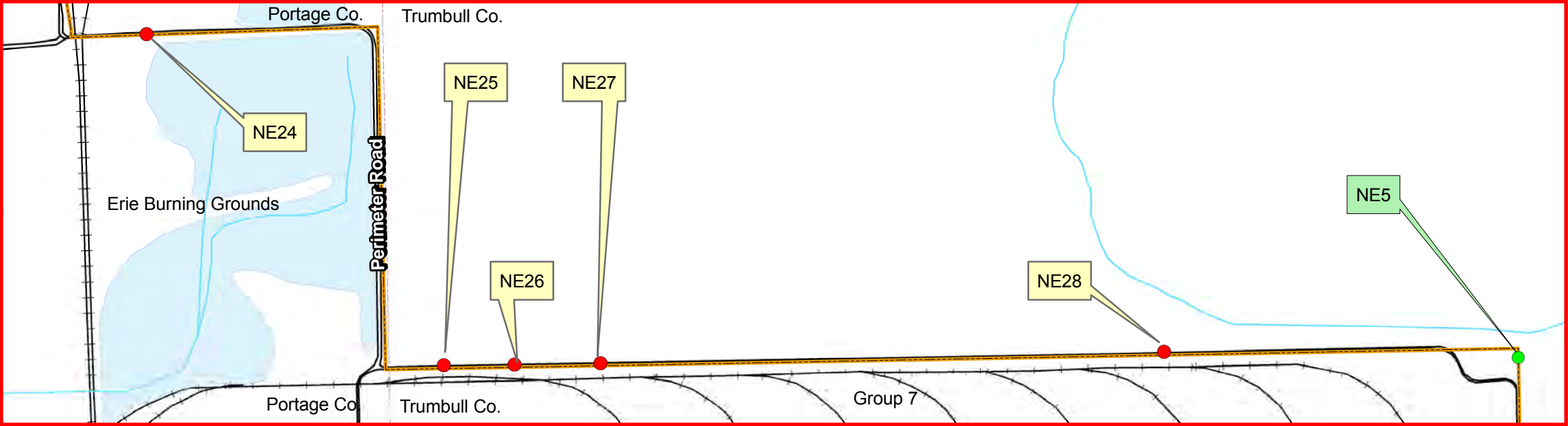


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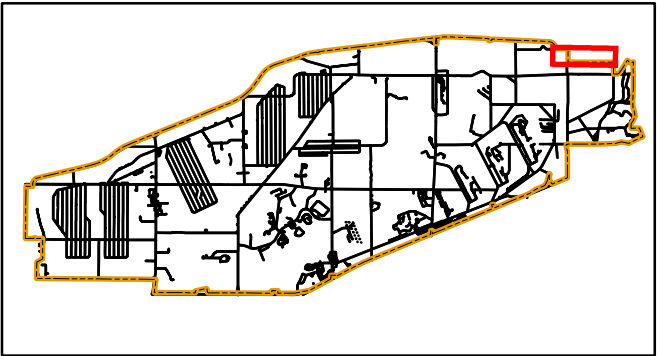
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE27

DETAIL SHEET FOR NE28



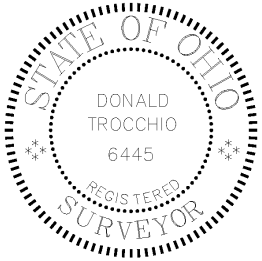
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Ohio

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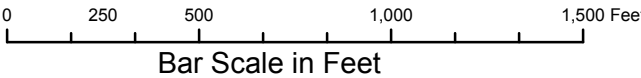
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Louisville District



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



Legend

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

REPAIR
CALLOUT

PHOTO NE28 discovered 03/03/2014

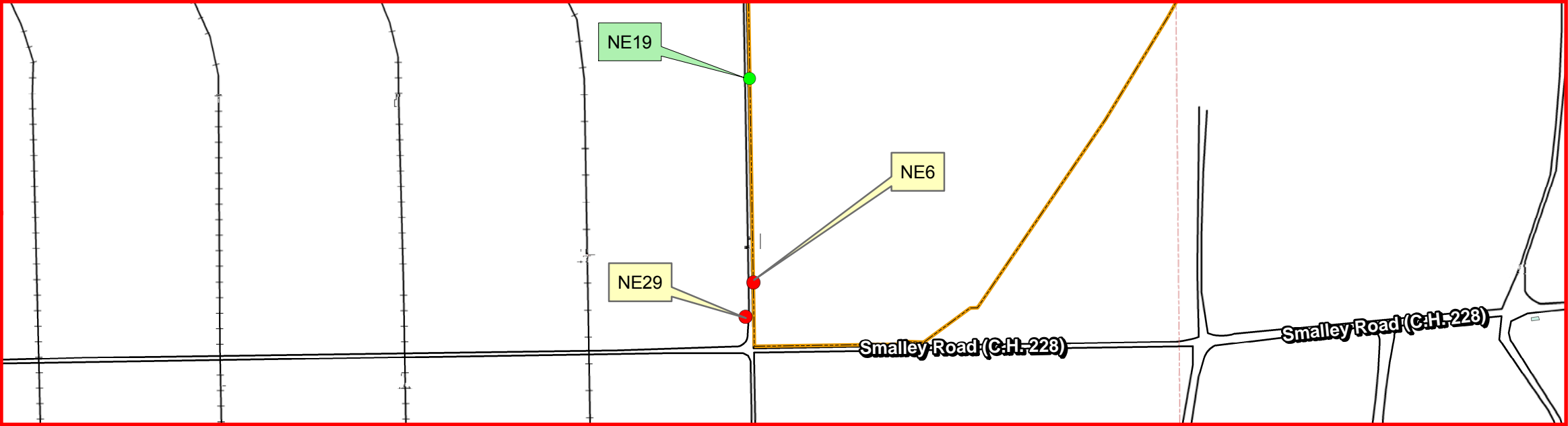


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MGRS 17T NF01946150 (NAD83)

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

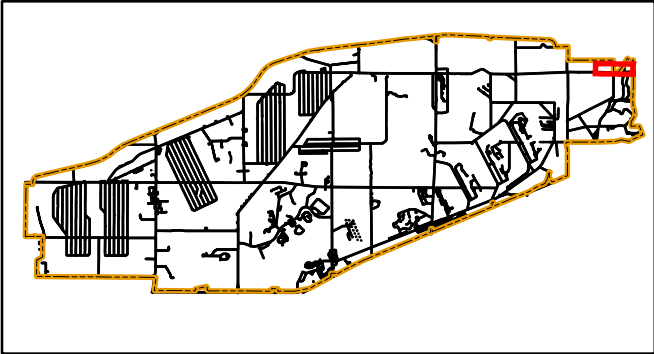
Legend

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

REPAIR
CALLOUT



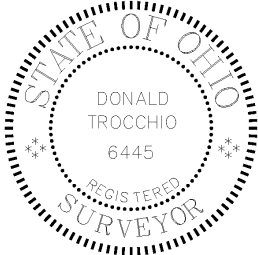
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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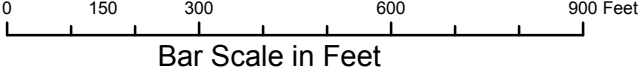
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Louisville District



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



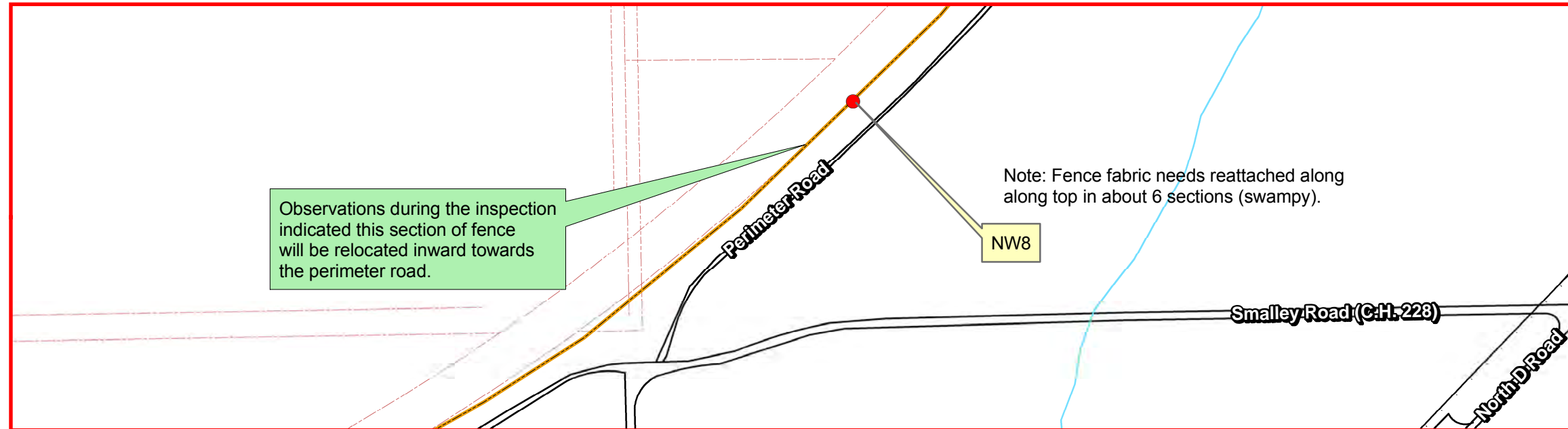
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DETAIL SHEET FOR NE29

NW (Northwest) Quadrant

DETAIL SHEET FOR NW8



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

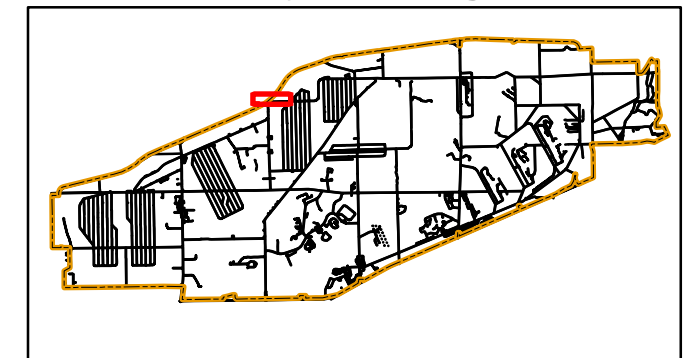
PHOTO NW8 discovered 07/16/2013

Legend

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- Perimeter Fence Evaluated



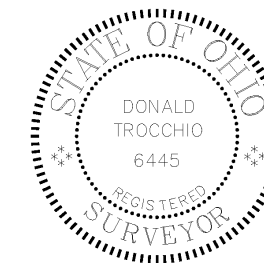
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LOCATOR MAP



Ohio Army National Guard



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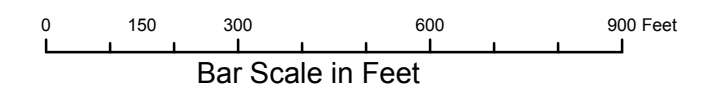
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Projection Datum is NAD83, Ohio State
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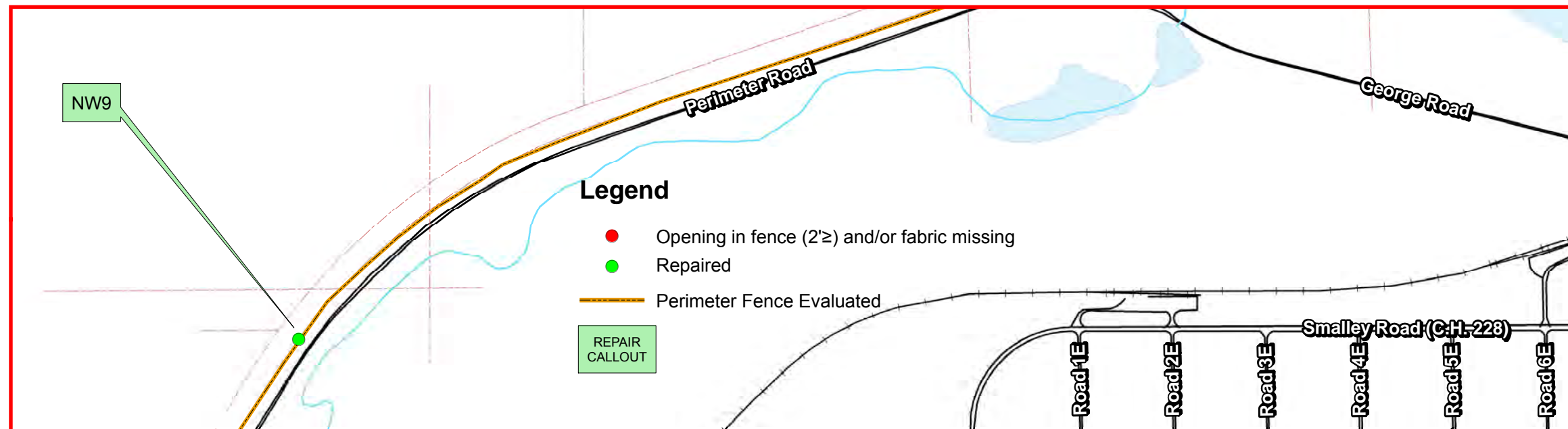


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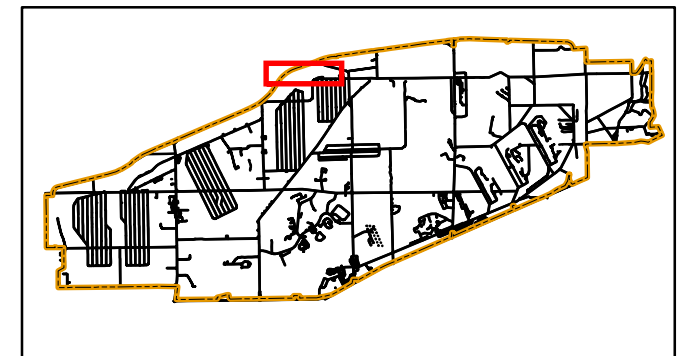
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW8

DETAIL SHEET FOR NW9



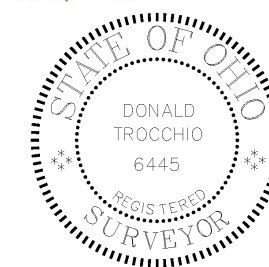
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Ohio Army National Guard



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

PHOTO NW9 repair 02/25/2014



PHOTO NW9 discovered 11/19/2013



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



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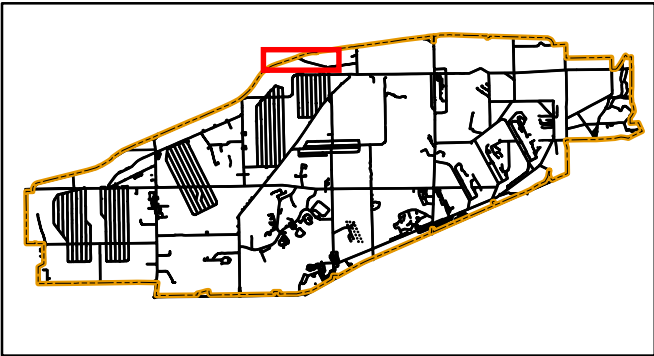
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW9

DETAIL SHEET FOR NW10



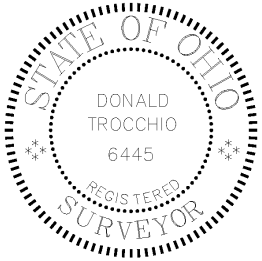
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Portage & Trumbull County
LOCATOR MAP



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:



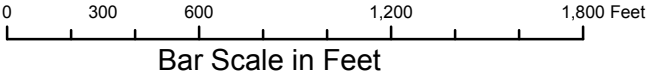
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Louisville District



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



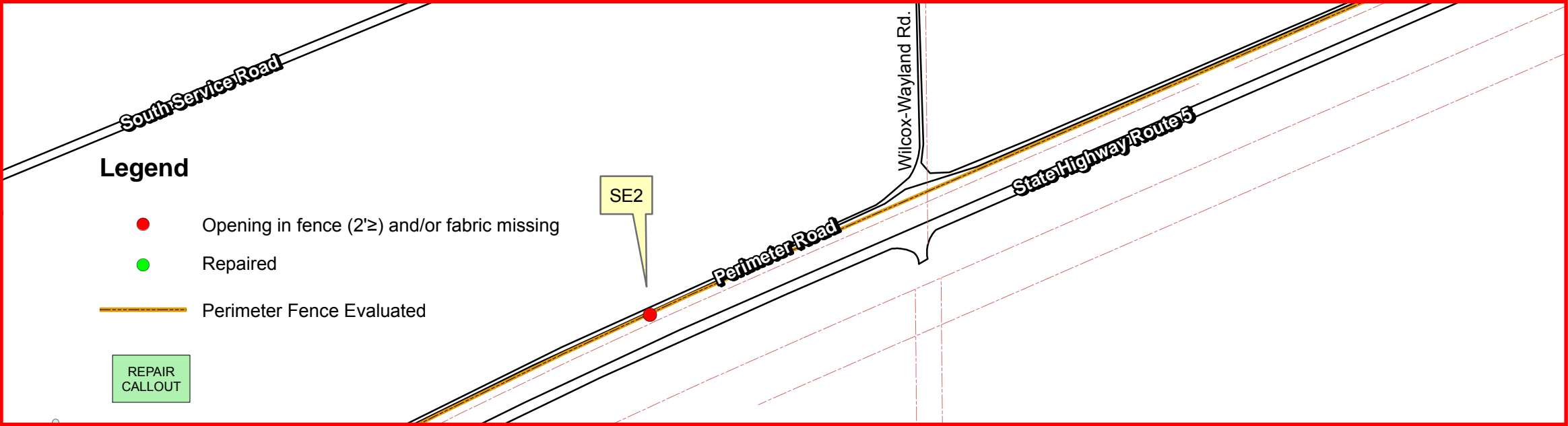
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DETAIL SHEET FOR NW10

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2

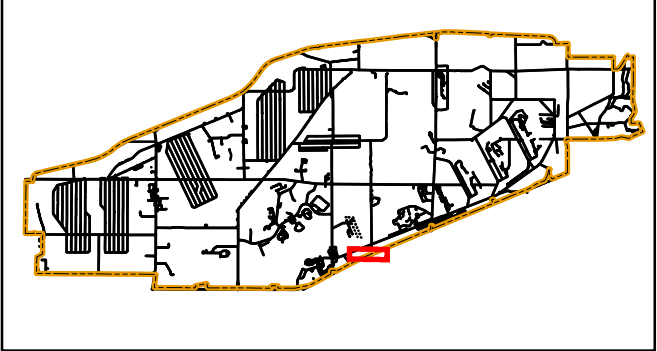


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



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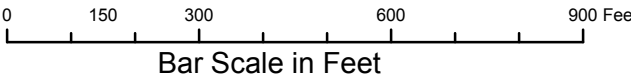
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

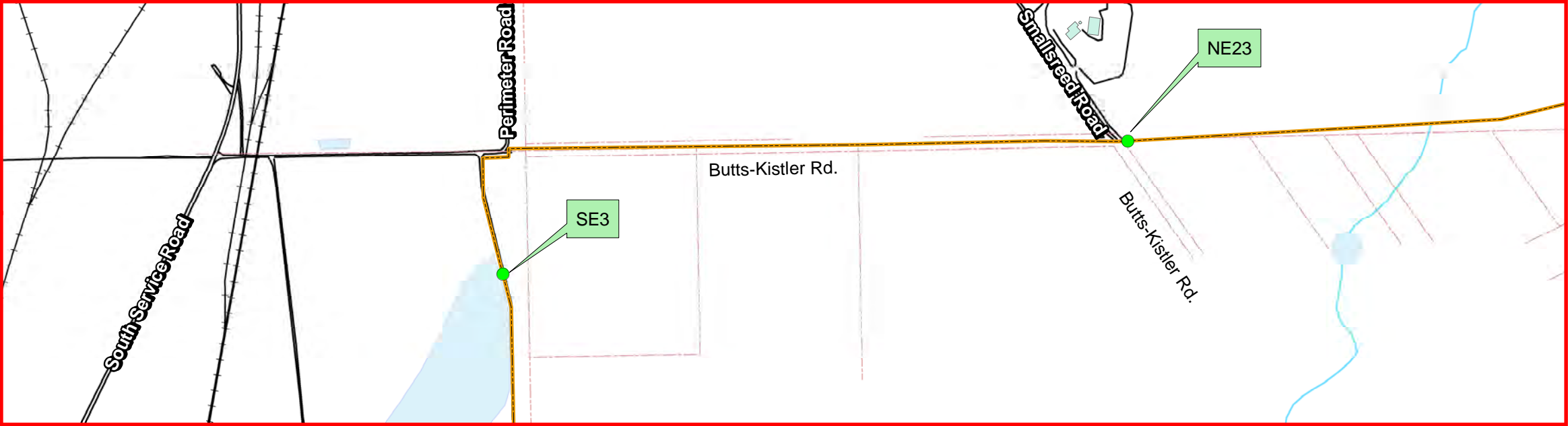


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DETAIL SHEET FOR SE2

DETAIL SHEET FOR SE3



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

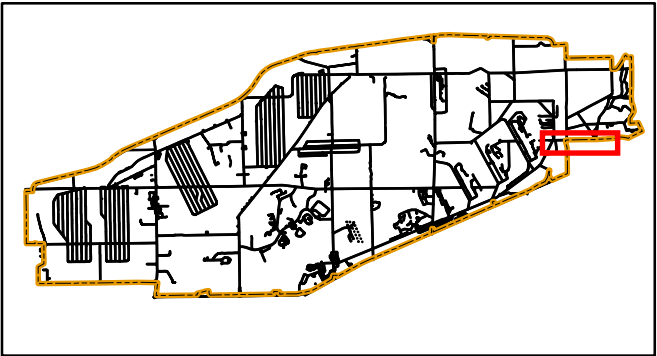
PHOTO SE3 repair 02/27/2014



PHOTO SE3 discovered 11/25/2013



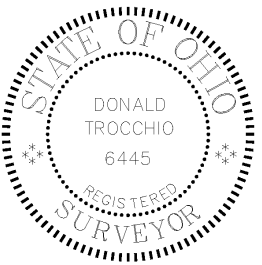
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LOCATOR MAP



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Produced in March 2014 for:



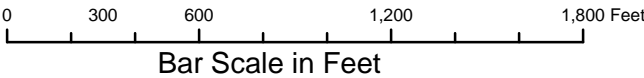
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

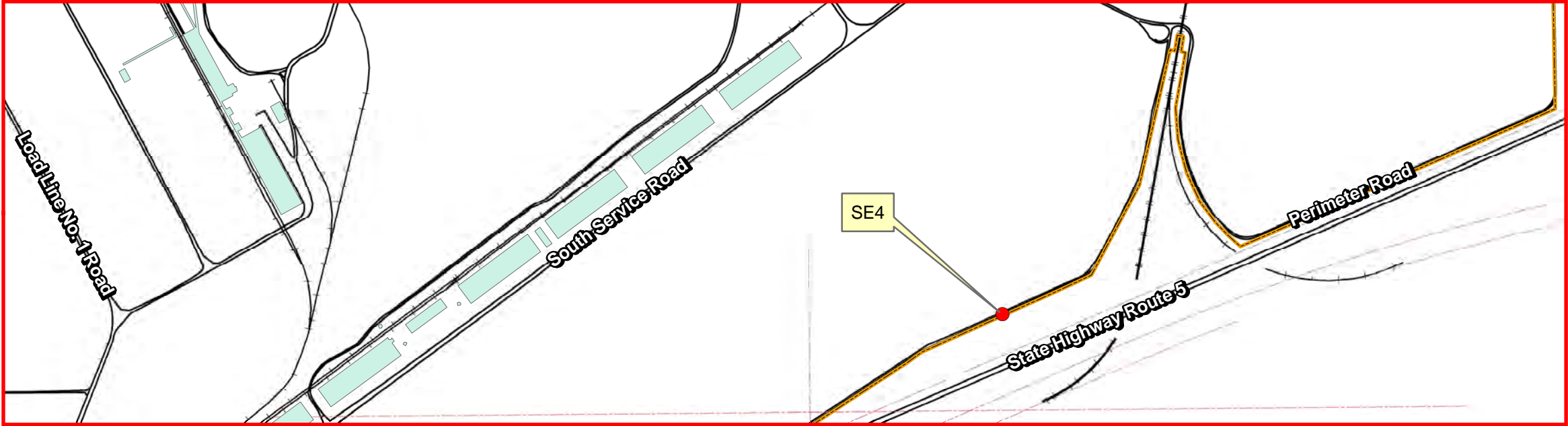


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DETAIL SHEET FOR SE3

DETAIL SHEET FOR SE4

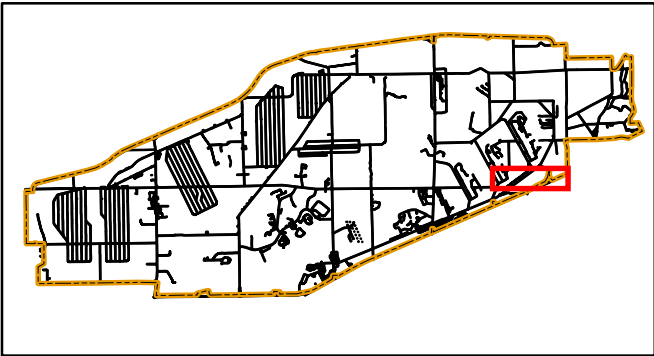


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014
PERIMETER FENCE INSPECTION

PHOTO SE4 discovered 02/27/2014



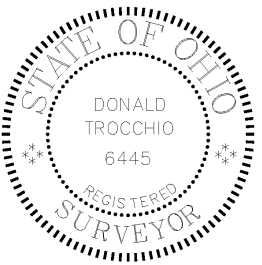
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Produced in March 2014 for:



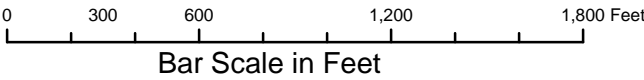
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



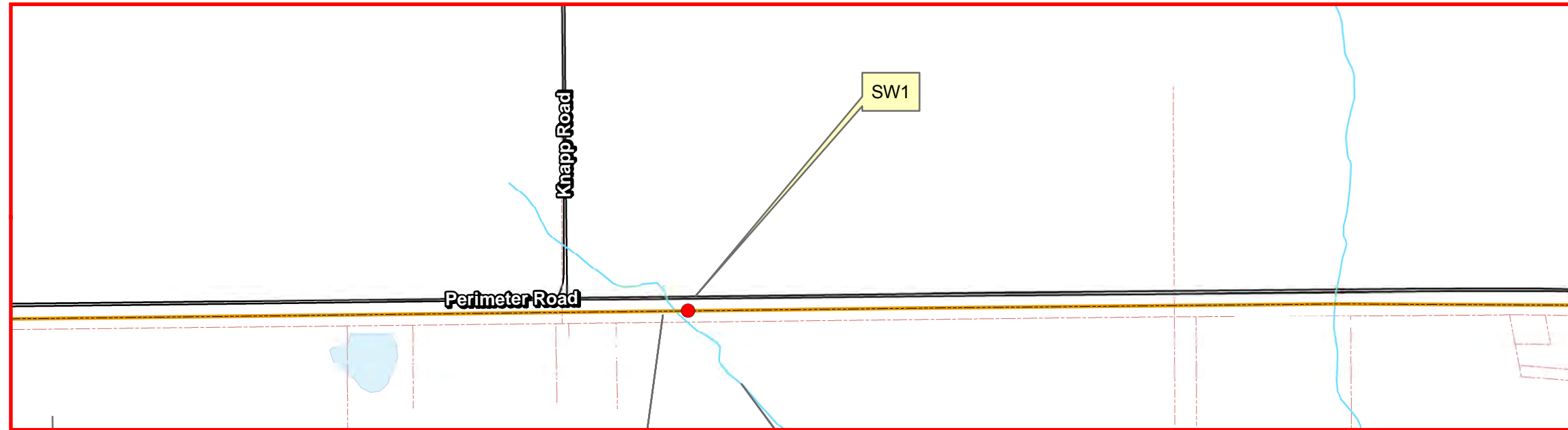
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE4

SW (Southwest) Quadrant

DETAIL SHEET FOR SW1



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

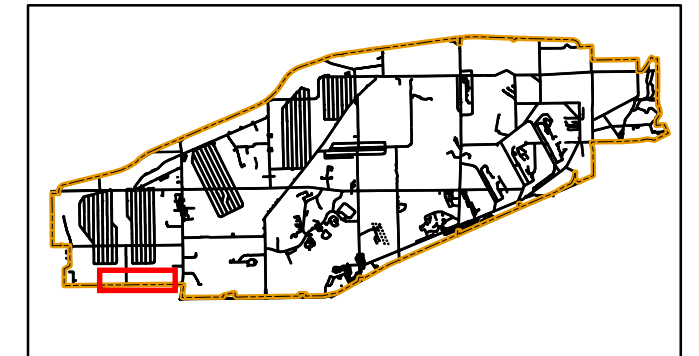
PHOTO SW1 discovered 02/07/2013

Legend

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



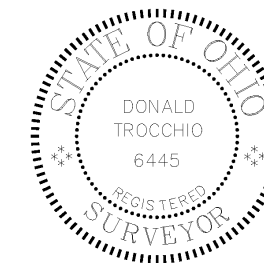
Camp Ravenna Joint Military Training Center



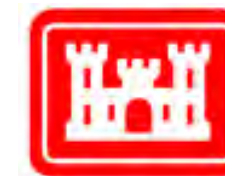
Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



**US Army Corps of
Engineers**

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

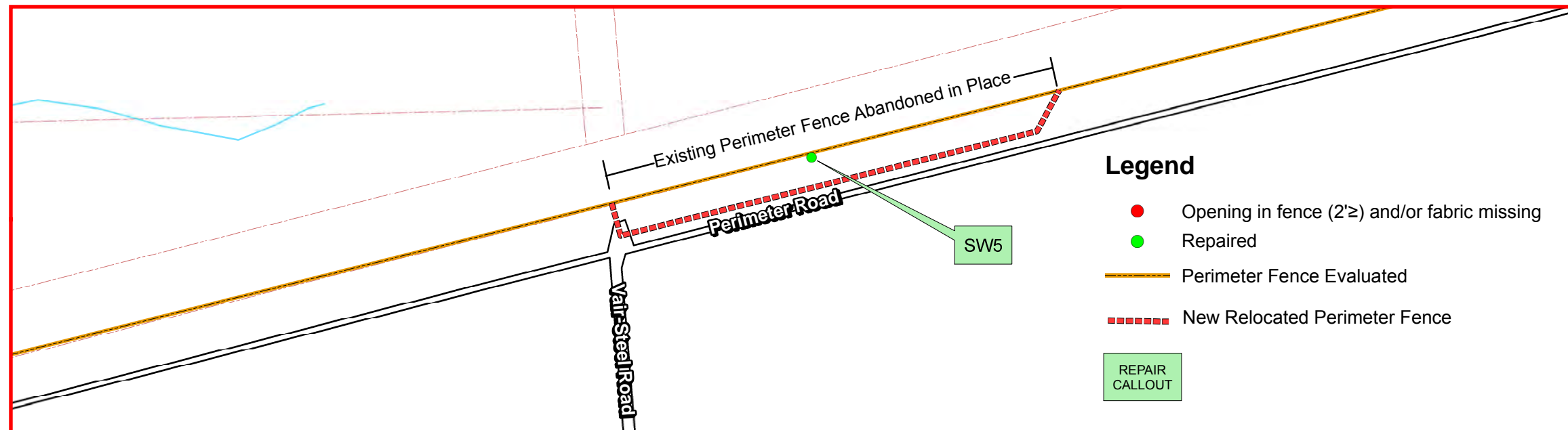


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Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW1

DETAIL SHEET FOR SW5



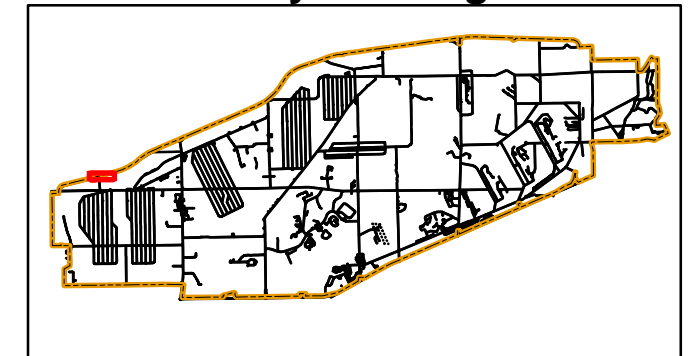
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014 PERIMETER FENCE INSPECTION

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

PHOTO SW5 discovered 02/12/2013



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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

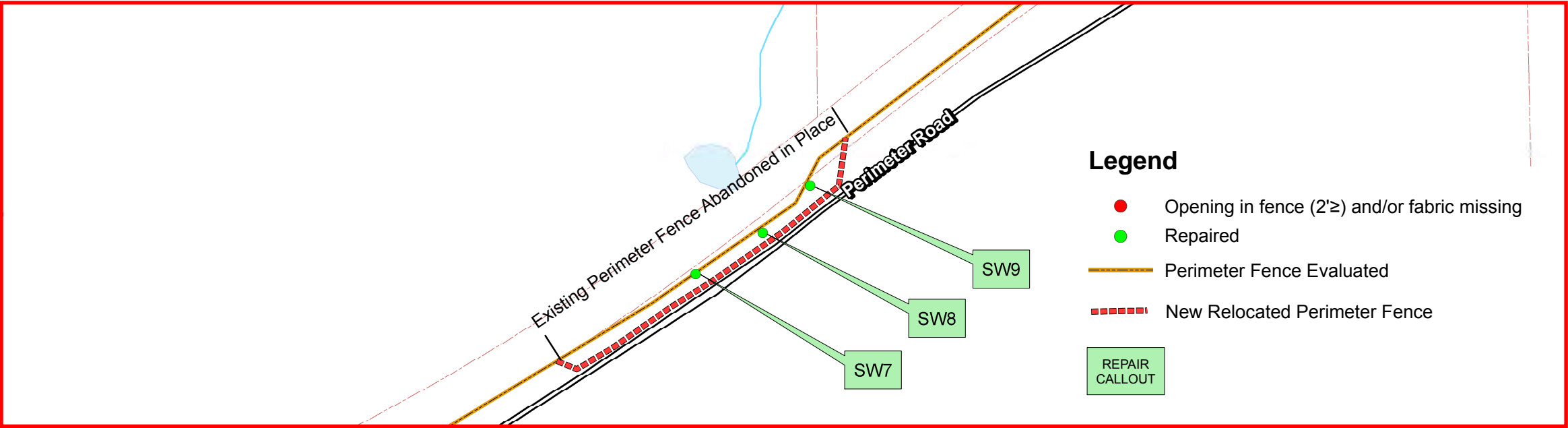
0 100 200 400 600 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW5

DETAIL SHEET FOR SW7, SW8 and SW9



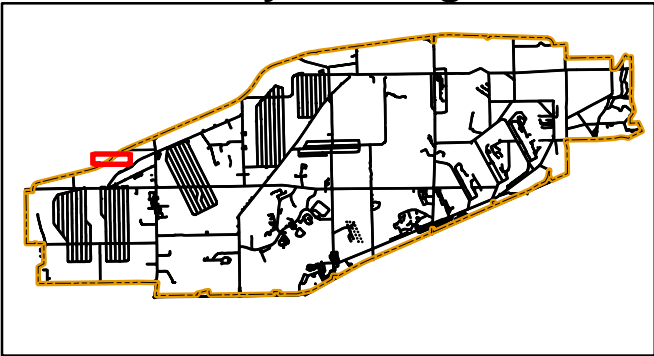
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2014
PERIMETER FENCE INSPECTION

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

PHOTO SW7 discovered 02/12/2013



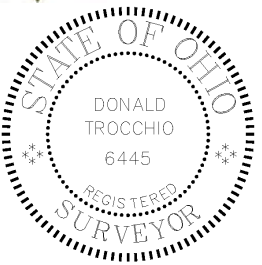
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



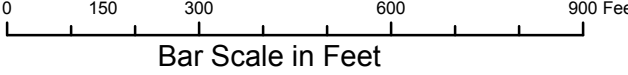
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
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Louisville District



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

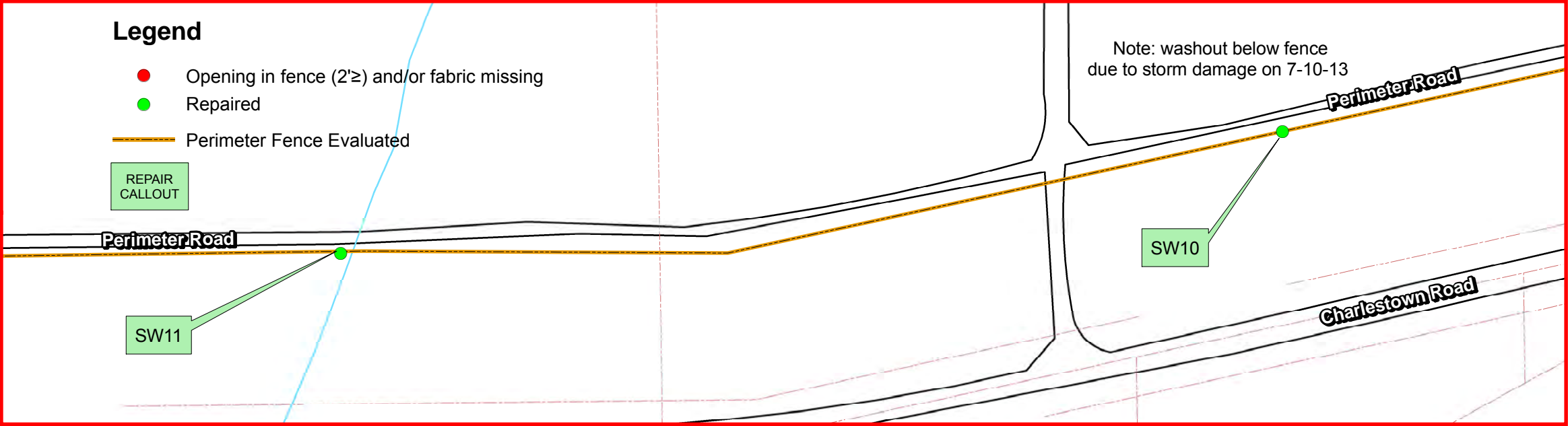


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DETAIL SHEET FOR SW7, SW8, SW9

DETAIL SHEET FOR SW10



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

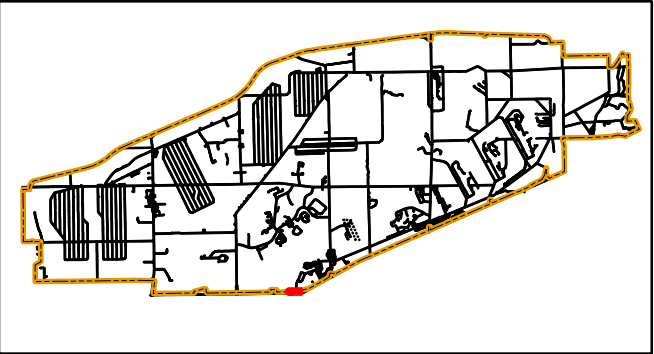
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



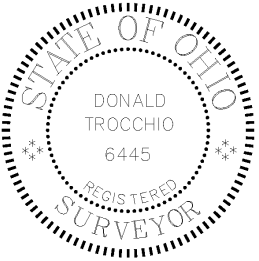
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



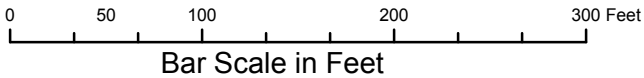
**US Army Corps of
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Louisville District



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

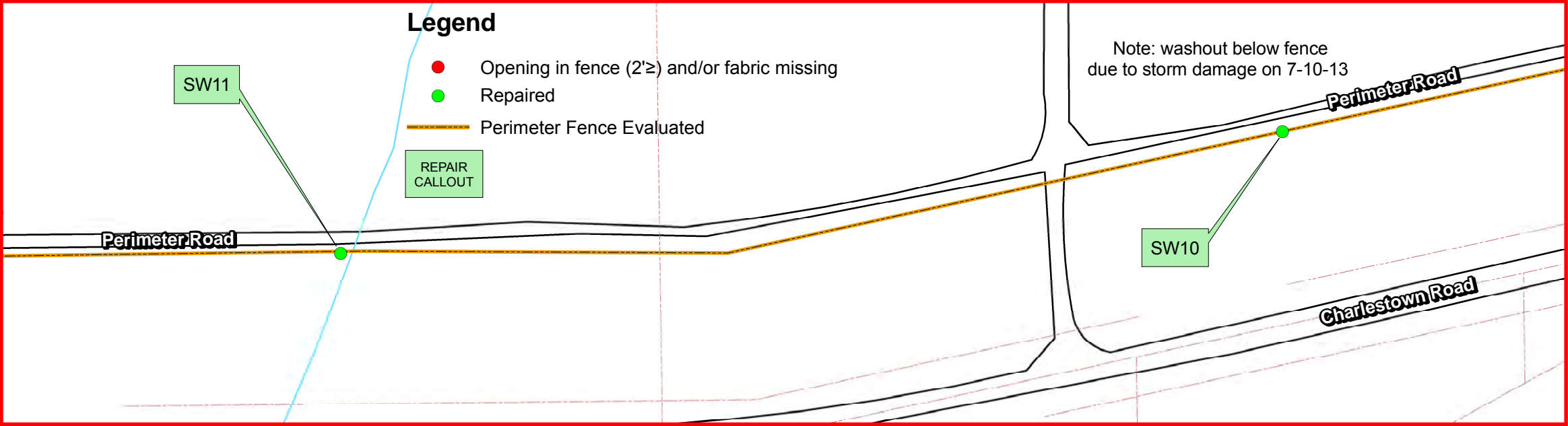


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW10

DETAIL SHEET FOR SW11



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

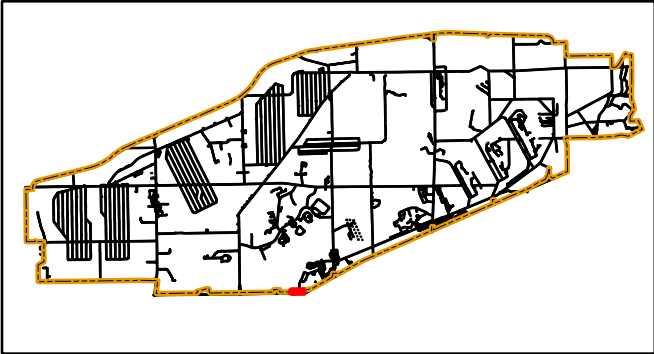
PHOTO SW11 repair 02/24/2014



PHOTO SW11 discovered 07/15/2013



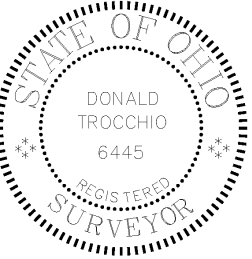
Camp Ravenna Joint Military Training Center



Portage & Trumbull County **LOCATOR MAP**



Ohio Army National Guard



Produced in March 2014 for:



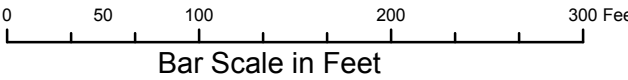
US Army Corps of Engineers

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

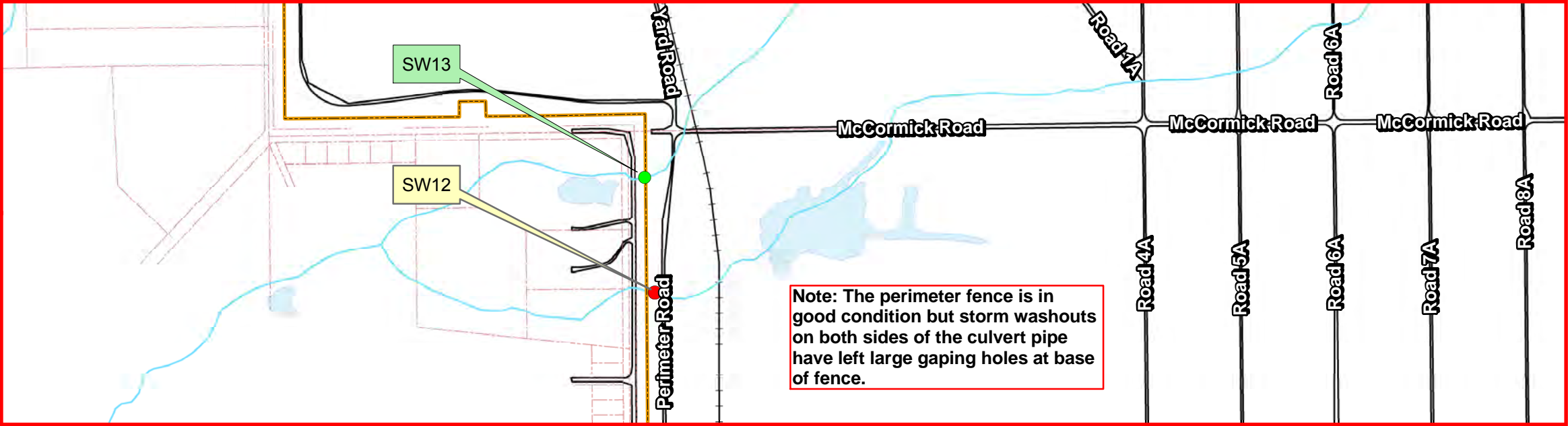


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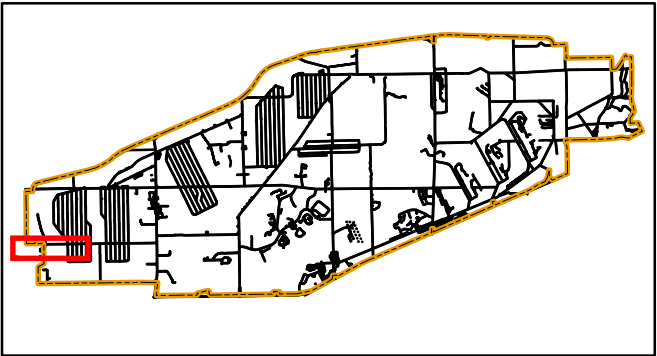
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW11

DETAIL SHEET FOR SW12



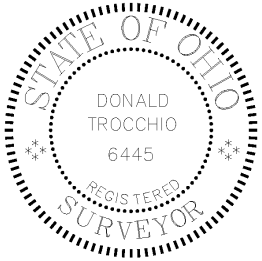
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 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



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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

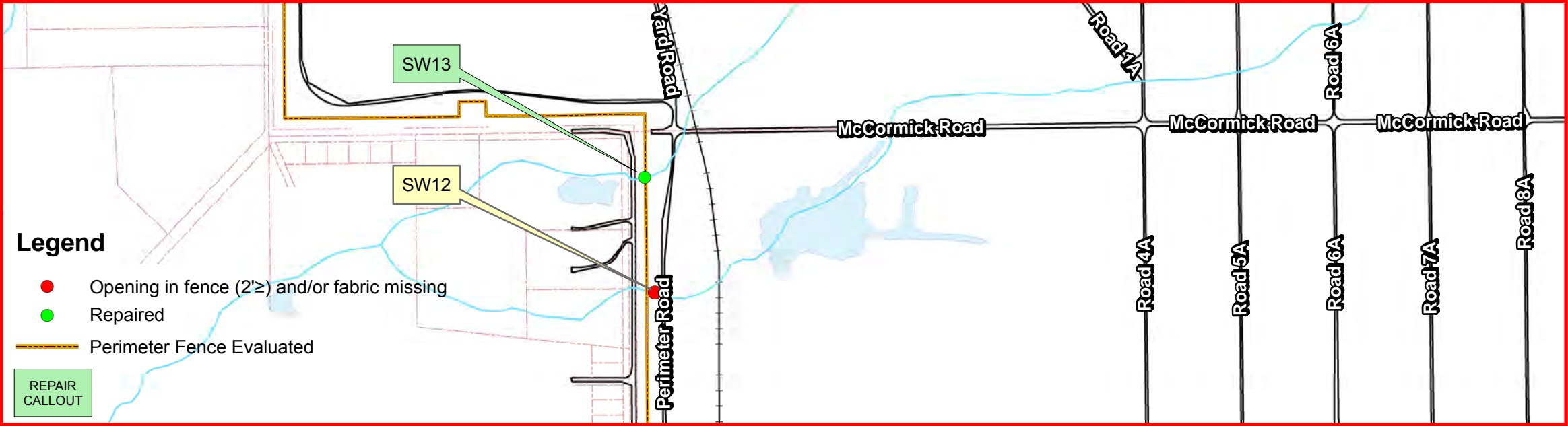


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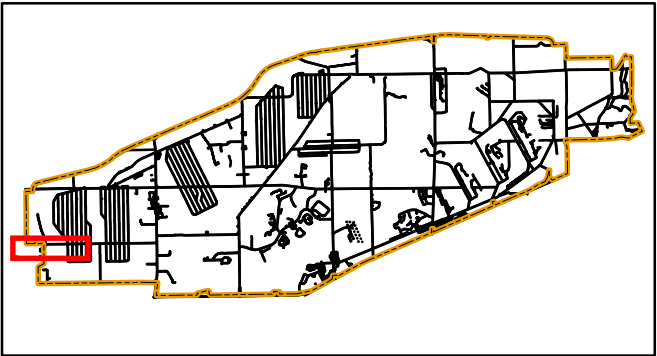
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW13



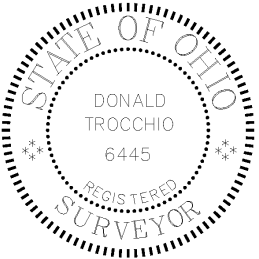
Camp Ravenna
Joint Military Training Center



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



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Plane Rectangular Grid, North Zone

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



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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

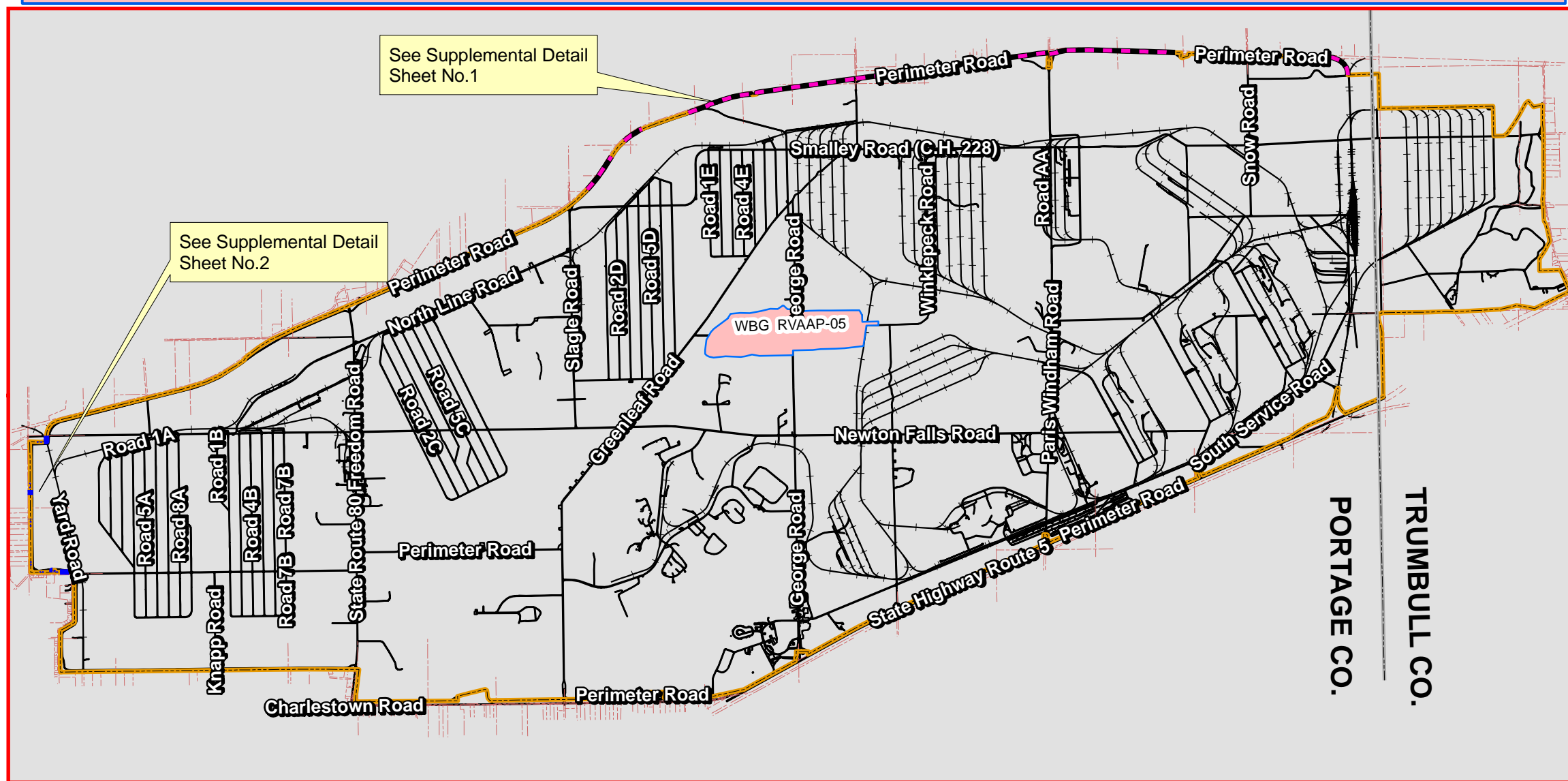
Supplemental Index Map No. 1

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

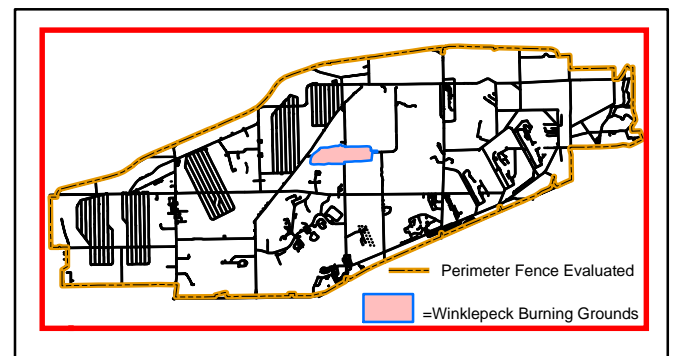


SUPPLEMENTAL INDEX MAP NO. 1 TO FACILITY PERIMETER FENCE INSPECTION

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)

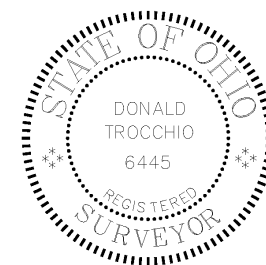
**Camp Ravenna
Joint Military Training Center**



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



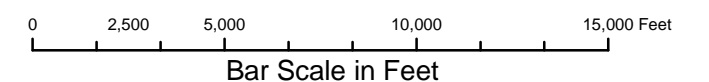
US Army Corps of Engineers

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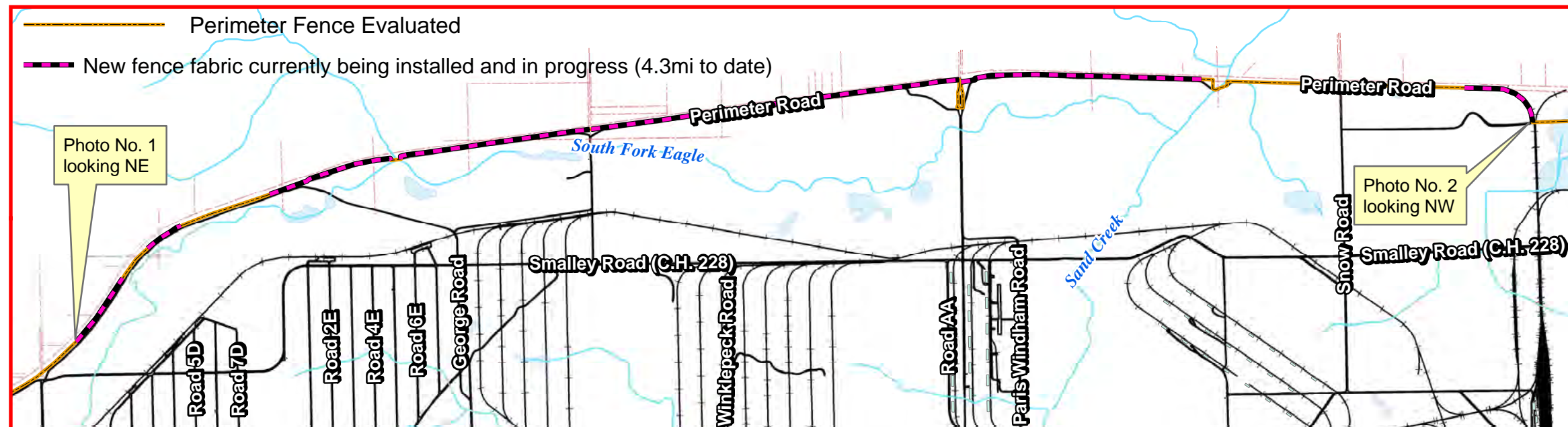
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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SUPPLEMENTAL INDEX MAP NO.1

SUPPLEMENTAL DETAIL SHEET NO.1



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

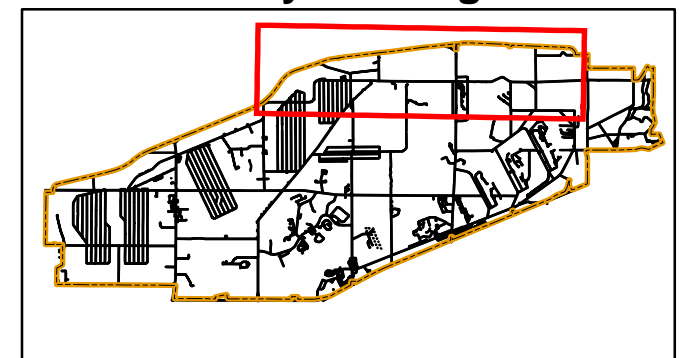
PHOTO NO.1 02/25/2014



PHOTO No.2 03/03/2014



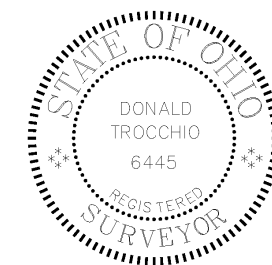
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



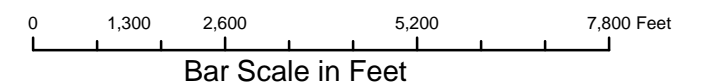
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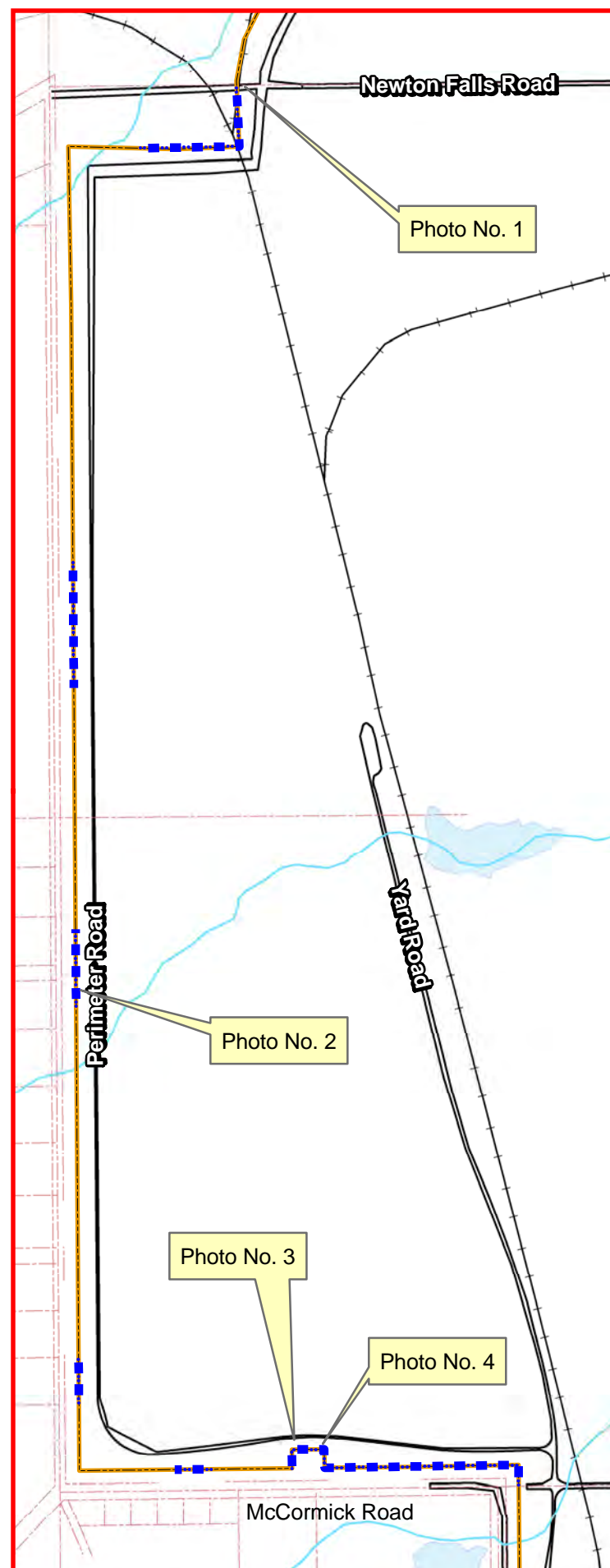
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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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

2nd QUARTER FY2014

PHOTO NO.1 02/25/2014



PHOTO NO.3 02/25/2014



PHOTO No.2 03/03/2014

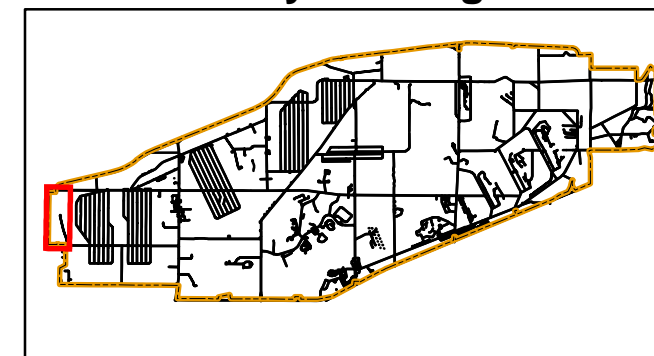


PHOTO NO.4 02/25/2014

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

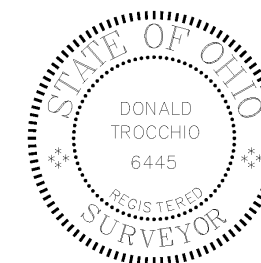
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2014 for:



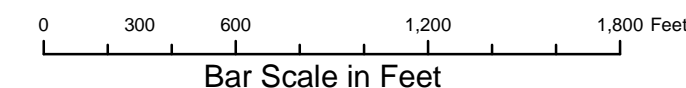
US Army Corps of Engineers

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SUPPLEMENTAL DETAIL SHEET NO.2

Camp Ravenna Fence Repair Log

[illegible][illegible]

Appendix E

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

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:

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 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.

4. Inspections and Reporting

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

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.

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 4th Quarter FY 2013 LUC Report is received. The FY 2013 Annual Report is currently scheduled to be submitted in July 2014.

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. 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 April 15 and 23, 2014 of two new fence defects discovered during the 3rd 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

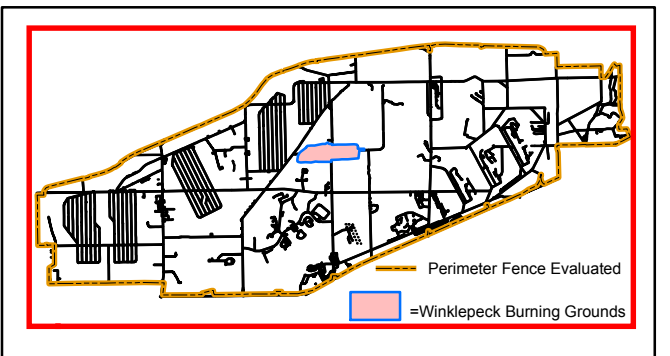
Figure 1 Index Map

Summary Table

Detailed Quadrant Maps

Index Map

**Camp Ravenna
Joint Military Training Center**



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



A horizontal bar scale labeled "Bar Scale in Feet". The scale has major tick marks at 0, 2,500, 5,000, 10,000, and 15,000. There are also minor tick marks between the major ones, representing increments of 500 feet.

FIGURE 1 INDEX MAP

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

LUC Inspection of Perimeter Fence

- | | |
|-------------------------|--------------------------------|
| Detail Sheet
Callout | Detail Sheet
Repair Callout |
|-------------------------|--------------------------------|

Camp Ravena Joint Military Training Center 3rd Qtr FY2014 LUC Inspection Summary Table				US Survey F1		
Callout	Date	Path to Photo Location	Comments	Northting	Easting	Path to Repair Photo
NW08	07/16/2013	c:\My Documents\My ArcPad\P1010333.JPG	open along top ax 6 sections(swampy)	567746	2349644	
SW01	02/07/2013	c:\My Documents\My ArcPad\P1010322.JPG	bottom open	549403	2336048	
SW12	11/19/2013	c:\My Documents\My ArcPad\P1010323.JPG	storm washout about 2 sections inlet needs cleared	552357	2330086	
SW14	04/14/2014	c:\My Documents\My ArcPad\P1010379.JPG	poacher hole in fence	549386	2334237	
SE02	02/13/2013	c:\My Documents\My ArcPad\P1010353.JPG	washout...worse now 7.18.2013	551498	2361141	
SE04	11/25/2013	c:\My Documents\My ArcPad\P1010351.JPG	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933	
SE05	04/22/2014	c:\My Documents\My ArcPad\P1010402.JPG	washout below undamaged fence	550299	2358581	
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
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
SW08	02/12/2013	c:\My Documents\My ArcPad\P1010077.JPG	hole in fence	561282	2336528	c:\My Documents\My ArcPad\P1010258.JPG
SW09	02/12/2013	c:\My Documents\My ArcPad\P1010078.JPG	hole in fence	561395	2336638	c:\My Documents\My ArcPad\P1010259.JPG
SW10	07/15/2013	c:\My Documents\My ArcPad\P1010203.JPG	washout	548427	2354836	c:\My Documents\My ArcPad\P1010320.JPG
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
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
NE05	02/13/2013	c:\My Documents\My ArcPad\P1010095.JPG	hole in fence	571090	2384743	c:\My Documents\My ArcPad\P1010368.JPG
NE19	07/17/2013	c:\My Documents\My ArcPad\P1010220.JPG	hole next to post near bottom	570600	2357050	c:\My Documents\My ArcPad\P1010369.JPG
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
NE21	11/21/2013	c:\My Documents\My ArcPad\P1010265.JPG	hole in fence	572733	2364028	c:\My Documents\My ArcPad\P1010354.JPG
NE23	11/25/2013	c:\My Documents\My ArcPad\P1010269.JPG	3 sections badly damaged	563209	2383312	c:\My Documents\My ArcPad\P1010375.JPG
NW09	11/19/2013	c:\My Documents\My ArcPad\P1010261.JPG	hole cut in fence	569396	2350885	c:\My Documents\My ArcPad\P1010334.JPG
NW10	11/21/2013	c:\My Documents\My ArcPad\P1010263.JPG	hole cut in fence	571046	2354186	c:\My Documents\My ArcPad\P1010341.JPG
SE03	11/25/2013	c:\My Documents\My ArcPad\P1010270.JPG	hole cut in fence	562592	2380413	c:\My Documents\My ArcPad\P1010350.JPG
NE06	03/03/2014	c:\My Documents\My ArcPad\P1010370.JPG	hole in fence	570126	2384759	c:\My Documents\My ArcPad\P1010397.JPG
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
NE22	11/25/2013	c:\My Documents\My ArcPad\P1010373.JPG	verticalized section of secluded fence at base	568633	2366588	c:\My Documents\My ArcPad\P1010399.JPG
NE24	03/03/2014	c:\My Documents\My ArcPad\P1010363.JPG	poacher hole in fence	572341	2379438	c:\My Documents\My ArcPad\P1010391.JPG
NE25	03/03/2014	c:\My Documents\My ArcPad\P1010364.JPG	hole in fence	571059	2385808	c:\My Documents\My ArcPad\P1010392.JPG
NE26	03/03/2014	c:\My Documents\My ArcPad\P1010365.JPG	hole in fence	571062	2388062	c:\My Documents\My ArcPad\P1010393.JPG
NE27	03/03/2014	c:\My Documents\My ArcPad\P1010366.JPG	hole in fence	571068	2381894	c:\My Documents\My ArcPad\P1010394.JPG
NE28	03/03/2014	c:\My Documents\My ArcPad\P1010367.JPG	hole in fence	571112	2383373	c:\My Documents\My ArcPad\P1010395.JPG
NE29	03/05/2014	c:\My Documents\My ArcPad\P1010371.JPG	hole in fence	570046	2384741	c:\My Documents\My ArcPad\P1010398.JPG
		REPAIRED 1ST QTR				
		REPAIRED 2ND QTR				

Summary Table

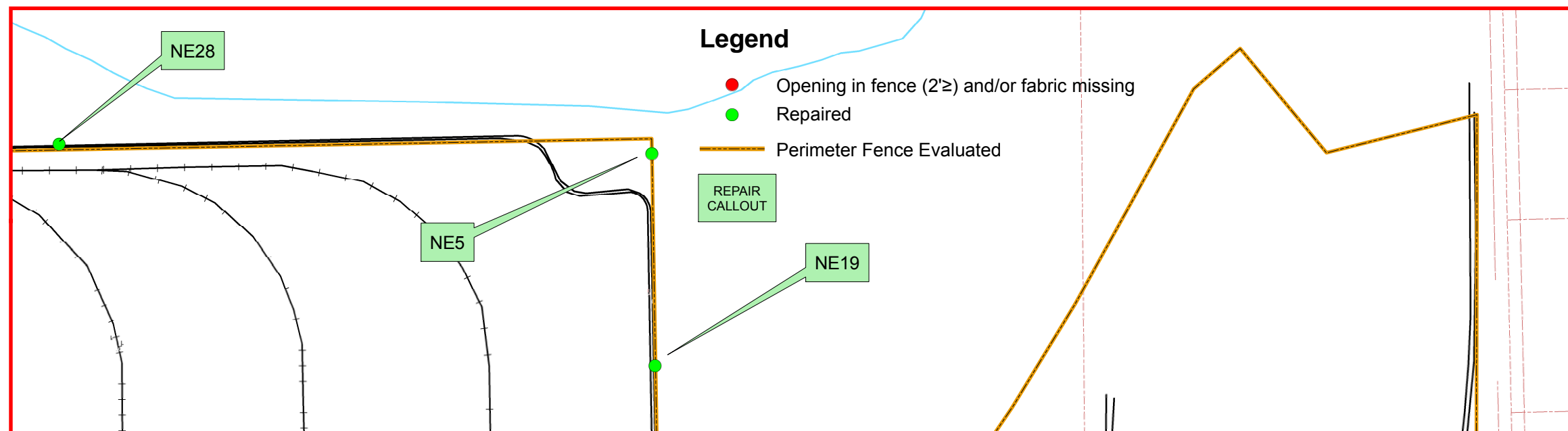
SUMMARY TABLE

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
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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
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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
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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
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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
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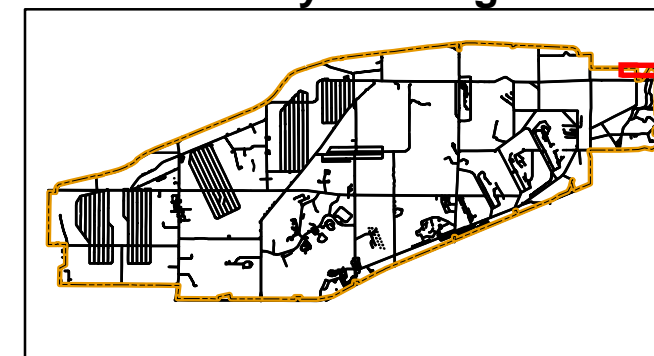
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REPAIRED 2ND QTR
REPAIRED 3RD QTR

NE (Northeast) Quadrant

DETAIL SHEET FOR NE5



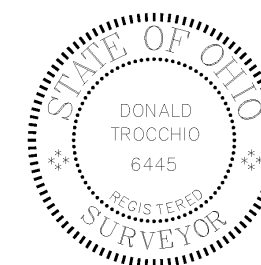
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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

PHOTO NE5 repair 03/03/2014



PHOTO NE5 discovered 02/13/2013



Produced in April 2014 for:



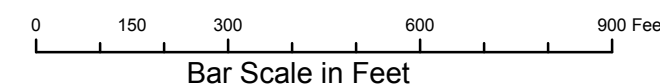
**US Army Corps of
Engineers**

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Louisville, KY 40202

Louisville District



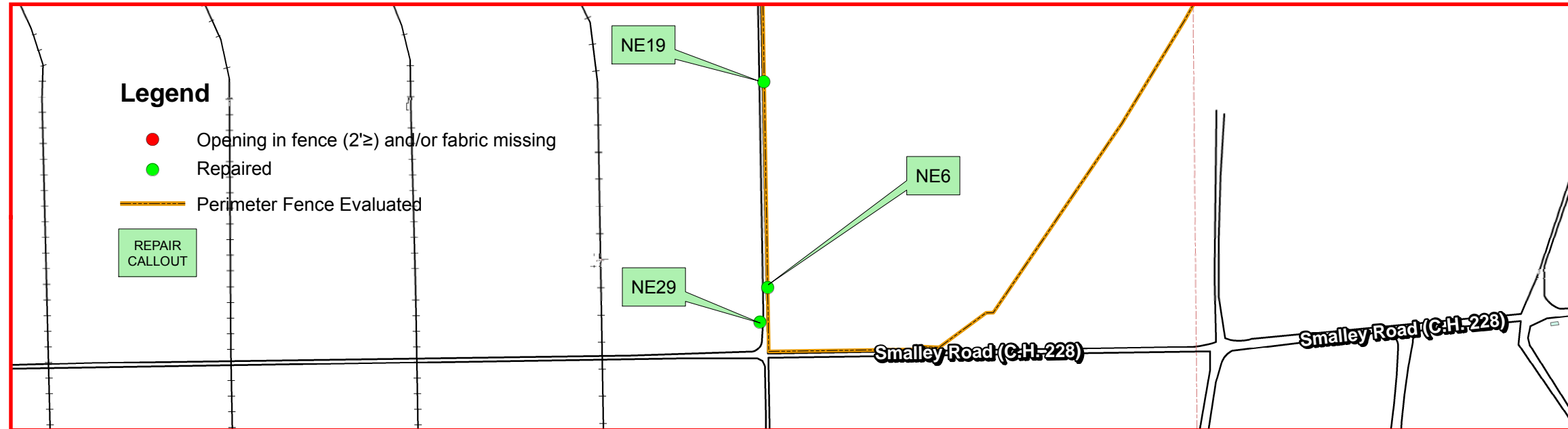
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Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
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 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

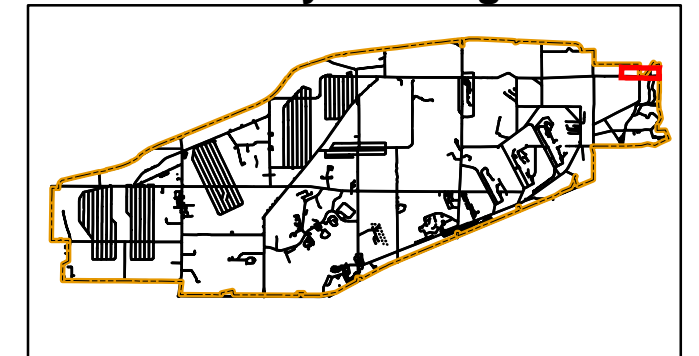
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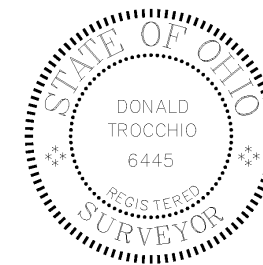
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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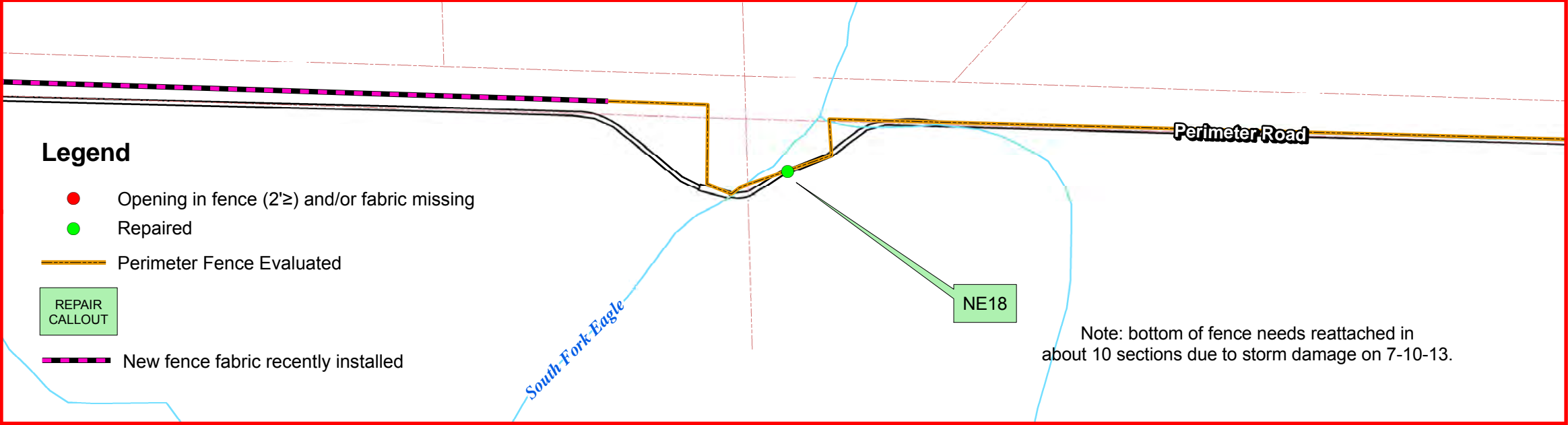
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Bar Scale in Feet



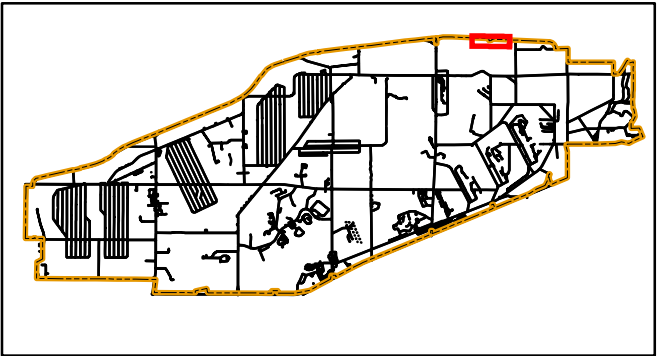
Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE6

DETAIL SHEET FOR NE18



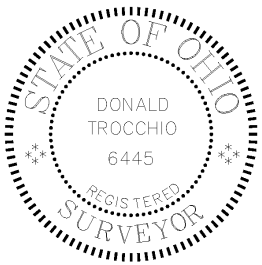
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

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PHOTO NE18 discovered 07/17/2013



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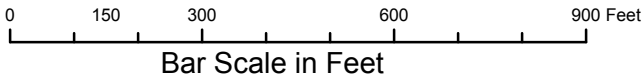
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

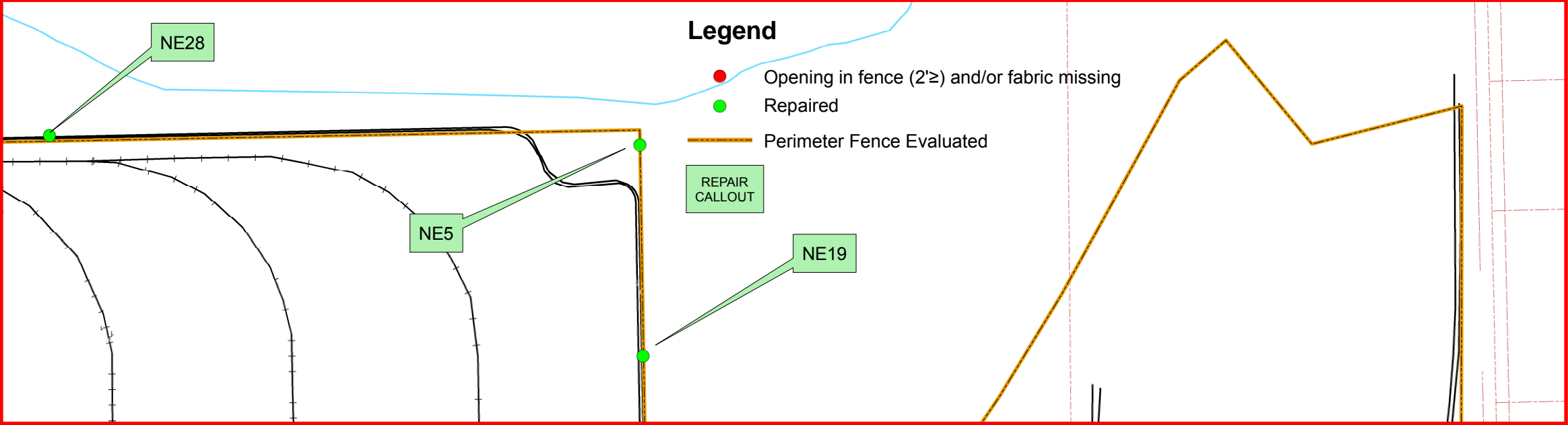


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DETAIL SHEET FOR NE18

DETAIL SHEET FOR NE19



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

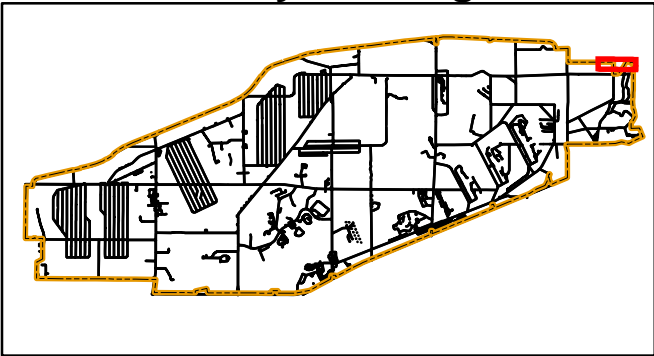
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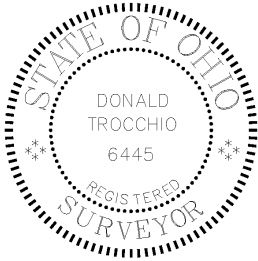
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



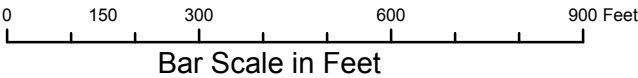
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Louisville District



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

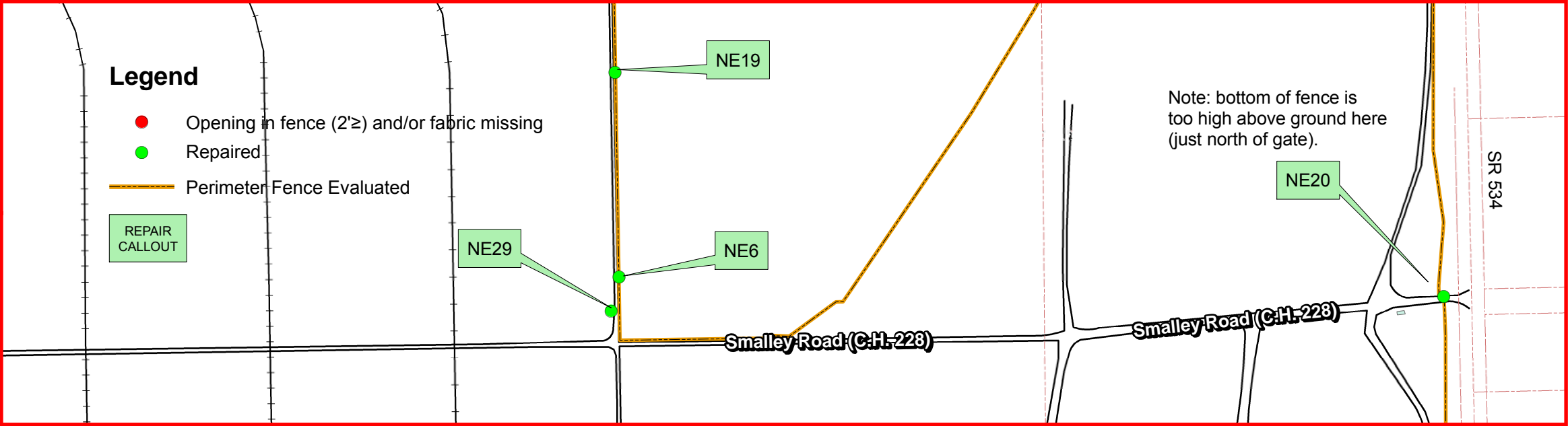


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DETAIL SHEET FOR NE19

DETAIL SHEET FOR NE20



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

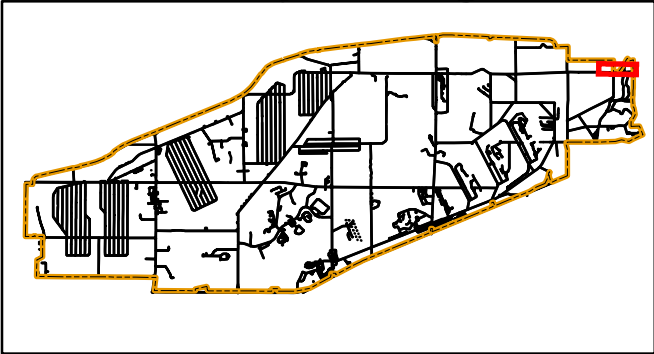
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PHOTO NE20 discovered 07/18/2013



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



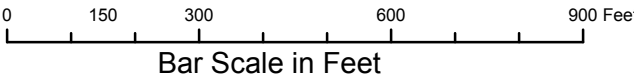
**US Army Corps of
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Louisville District



Projection Datum is NAD83, Ohio State
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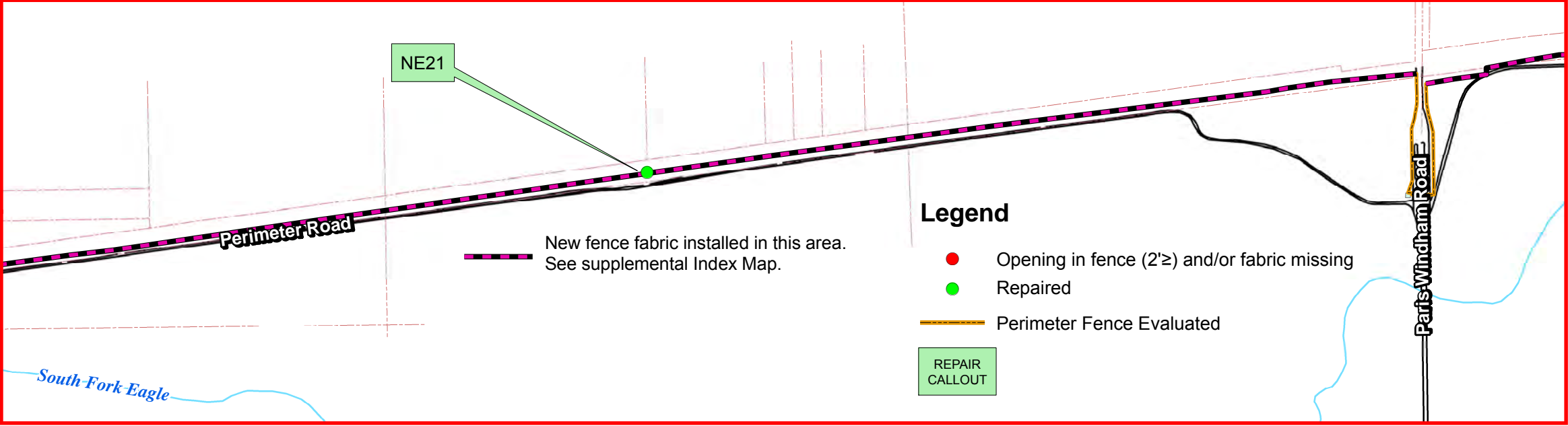


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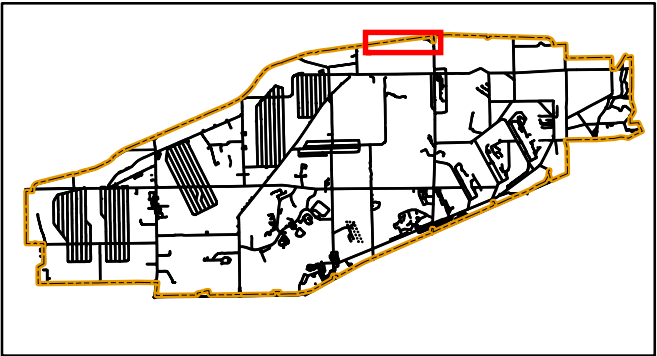
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE20

DETAIL SHEET FOR NE21



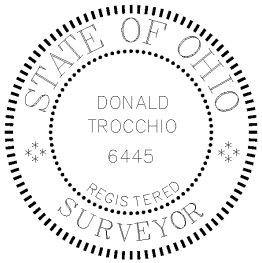
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

PHOTO NE21 repair 03/03/2014



PHOTO NE21 discovered 11/21/2013



Produced in April 2014 for:



**US Army Corps of
Engineers**

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Louisville District



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Plane Rectangular Grid, North Zone

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



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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE21

DETAIL SHEET FOR NE22



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

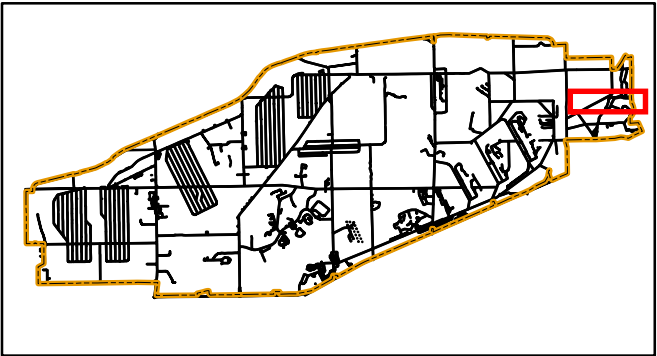
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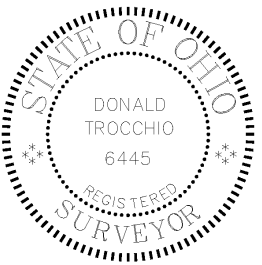
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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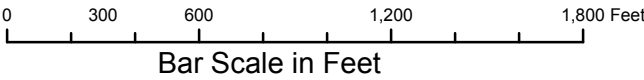
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Louisville, KY 40202

Louisville District



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

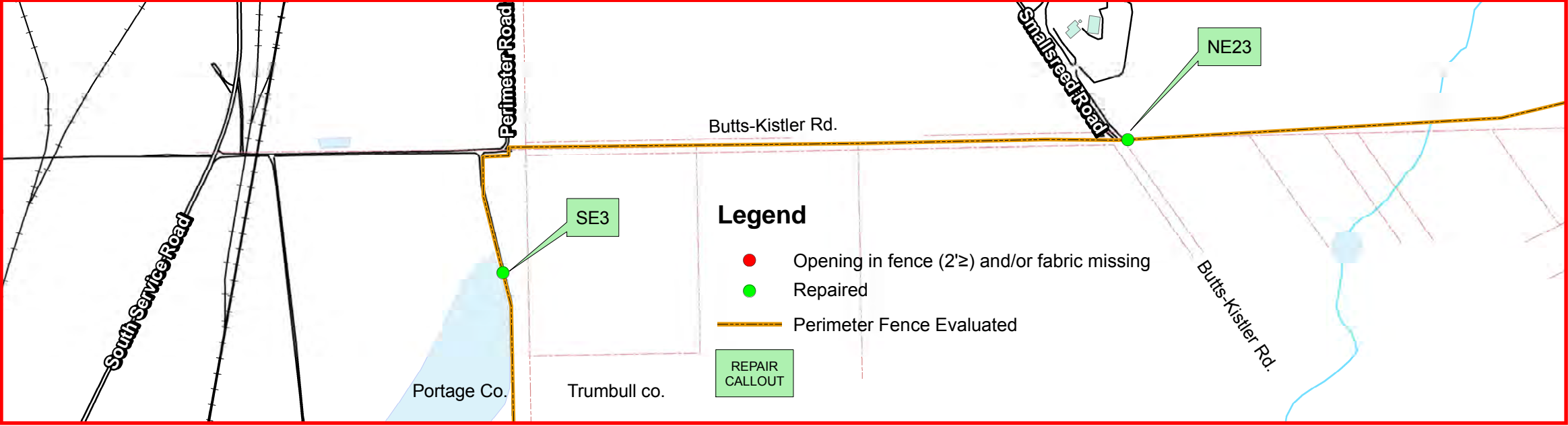


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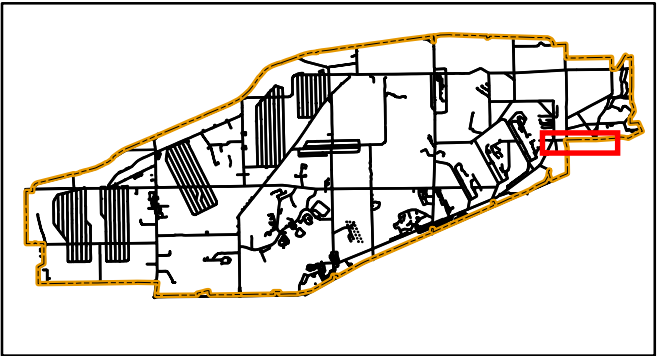
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE22

DETAIL SHEET FOR NE23



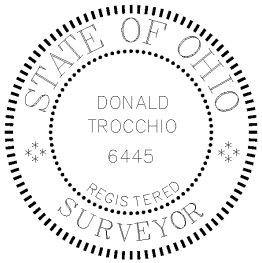
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

PHOTO NE23 repair 03/05/2014



PHOTO NE23 discovered 11/25/2013



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Plane Rectangular Grid, North Zone

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

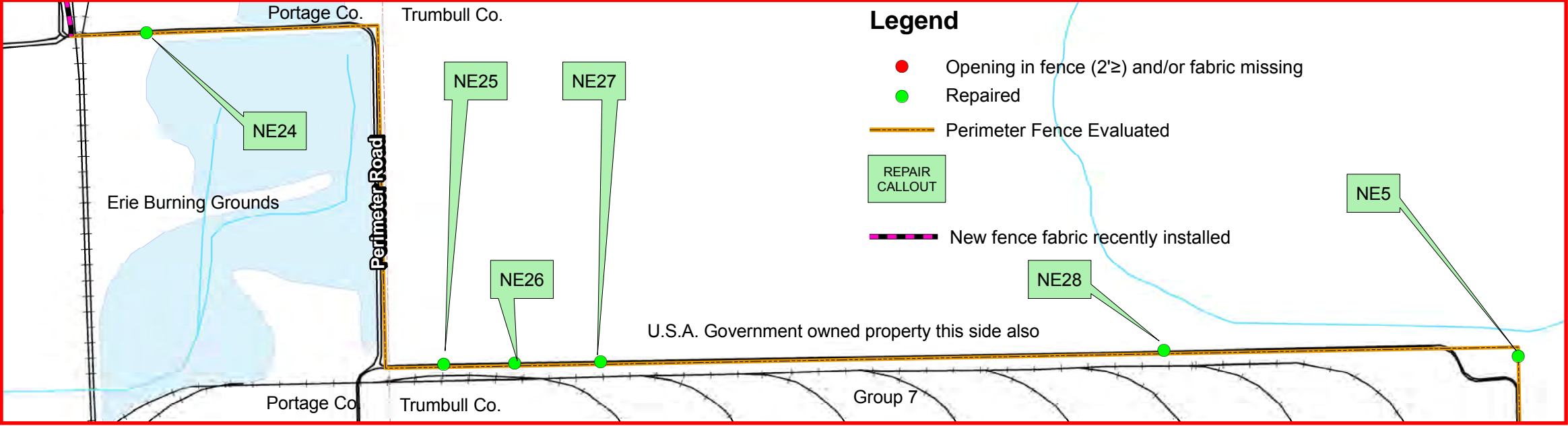


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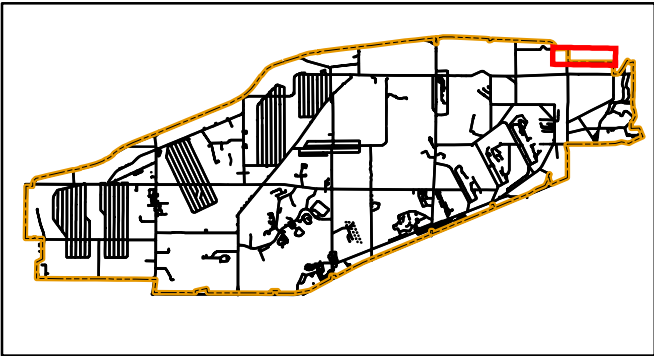
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE23

DETAIL SHEET FOR NE24



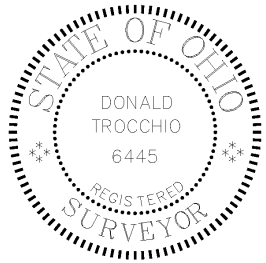
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LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

PHOTO NE24 repaired 04/17/2014



PHOTO NE24 discovered 03/03/2014



Produced in April 2014 for:



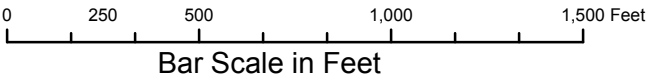
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

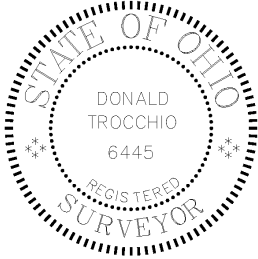
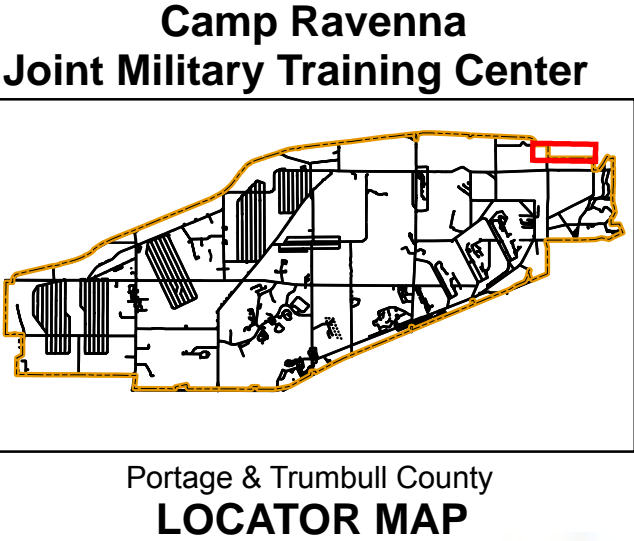
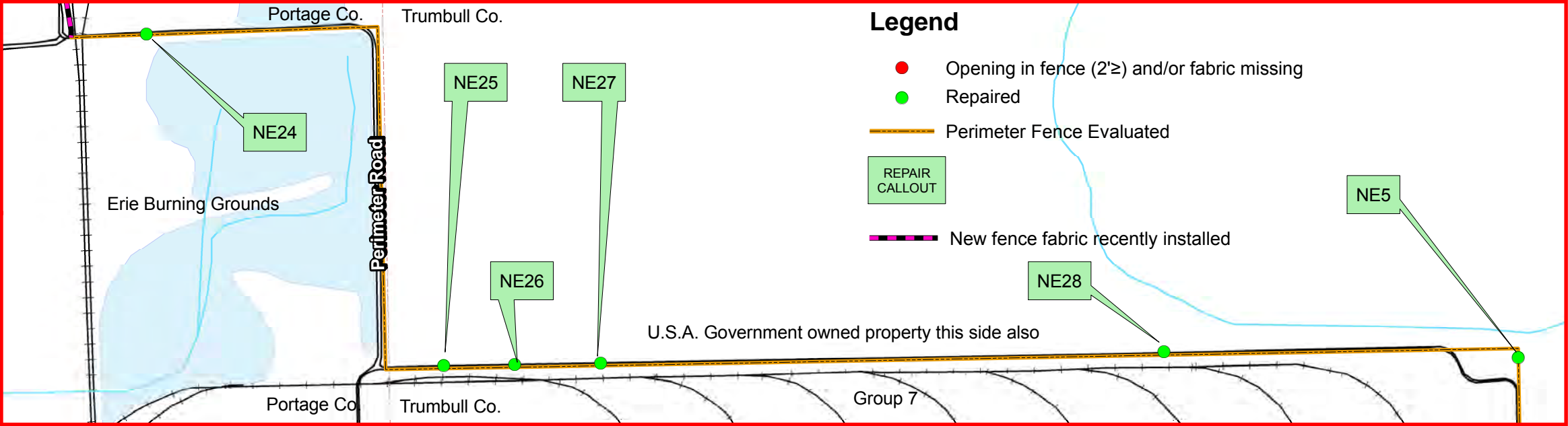


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DETAIL SHEET FOR NE24

DETAIL SHEET FOR NE25



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

PHOTO NE25 repaired 04/17/2014



PHOTO NE25 discovered 03/03/2014

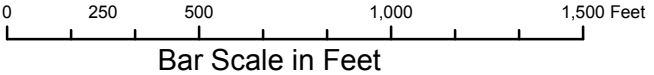


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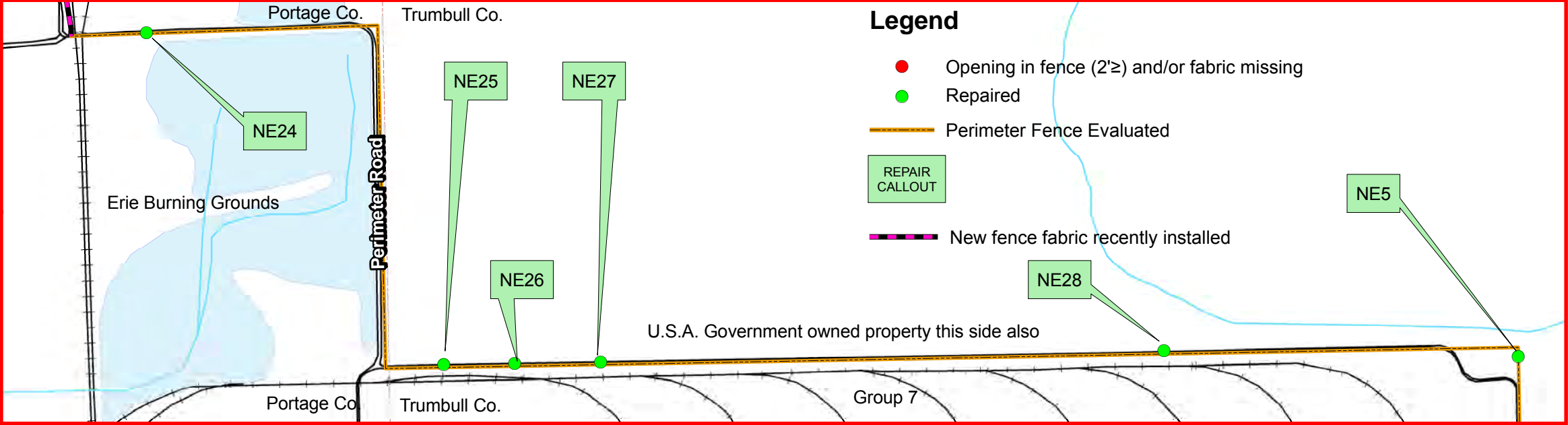
Louisville District



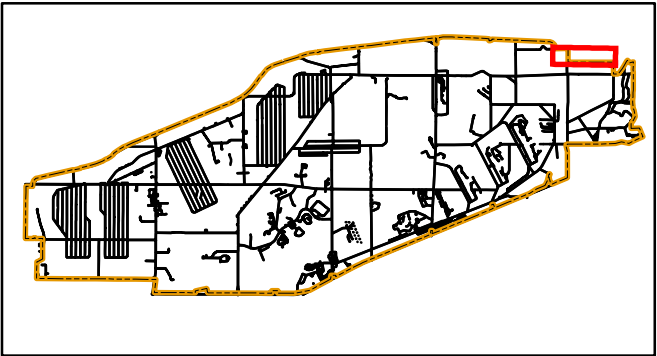
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DETAIL SHEET FOR NE25

DETAIL SHEET FOR NE26



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 NE26 repaired 04/17/2014



PHOTO NE26 discovered 03/03/2014



Produced in April 2014 for:



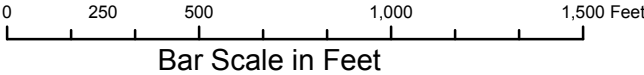
US Army Corps of Engineers

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Plane Rectangular Grid, North Zone

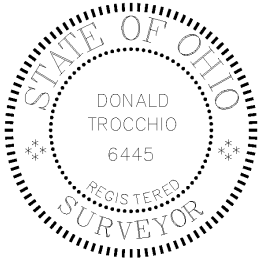
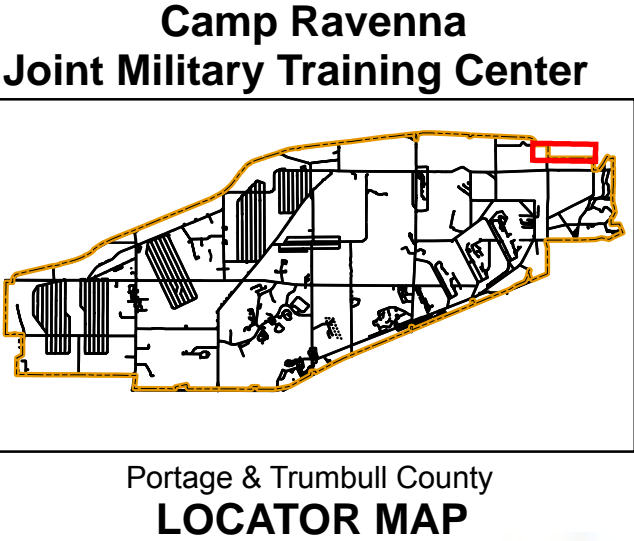
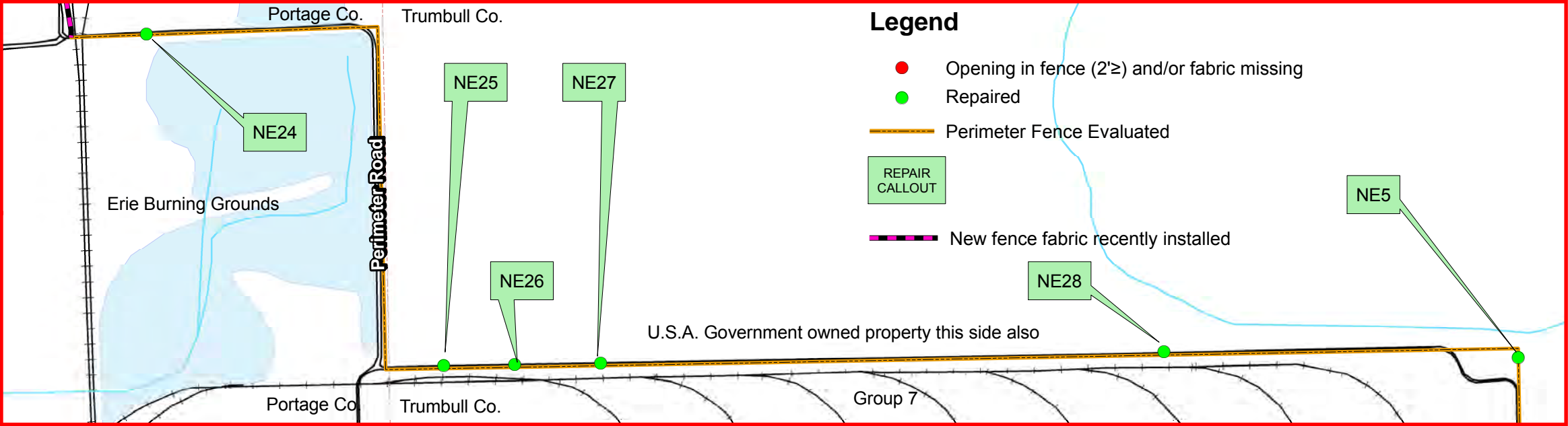


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DETAIL SHEET FOR NE26

DETAIL SHEET FOR NE27



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

PHOTO NE27 repaired 04/17/2014



PHOTO NE27 discovered 03/03/2014

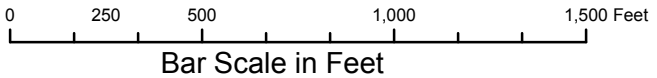


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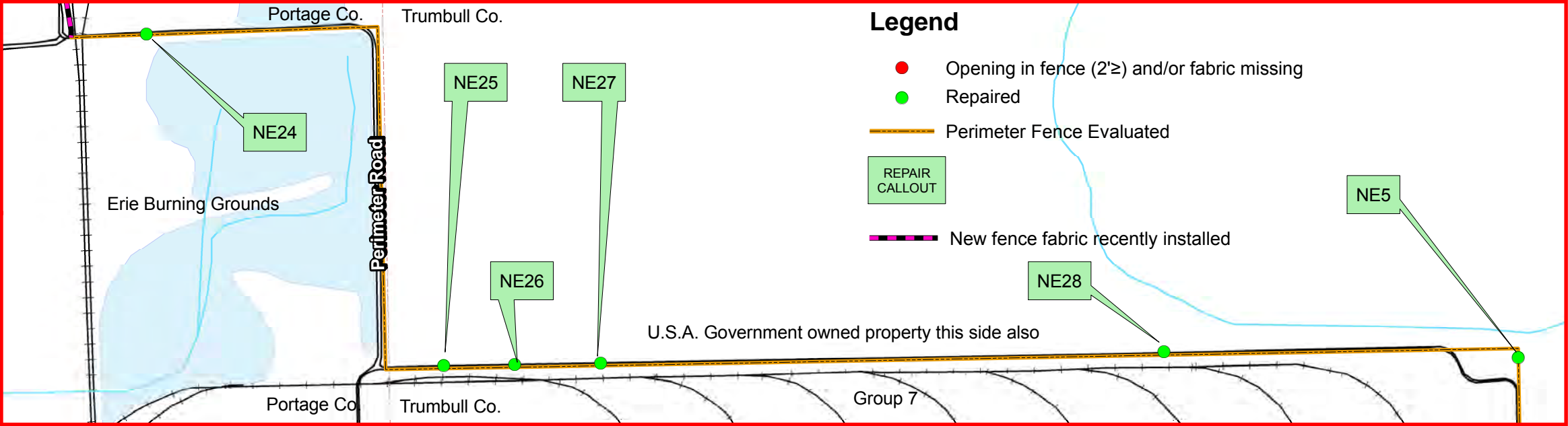
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DETAIL SHEET FOR NE27

DETAIL SHEET FOR NE28



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

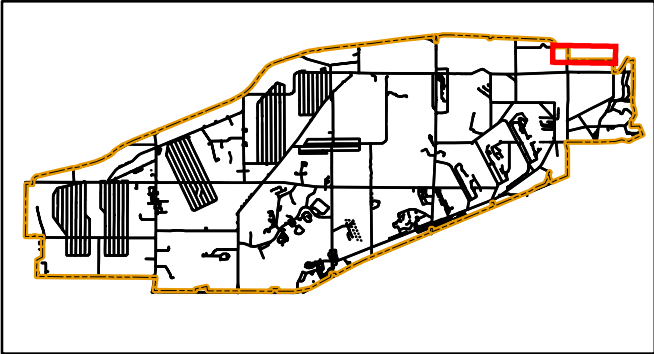
PHOTO NE28 repaired 04/17/2014



PHOTO NE28 discovered 03/03/2014



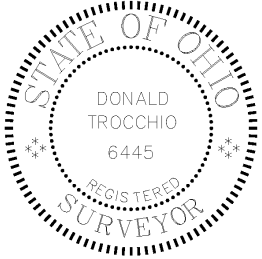
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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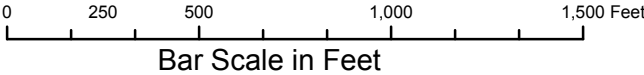
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Plane Rectangular Grid, North Zone

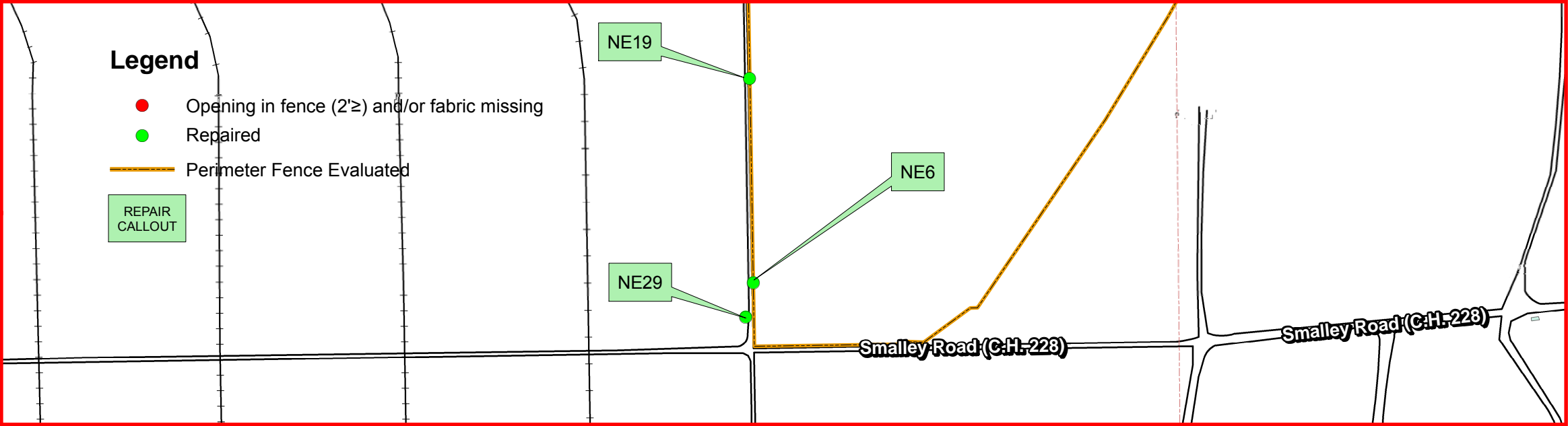


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DETAIL SHEET FOR NE28

DETAIL SHEET FOR NE29



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

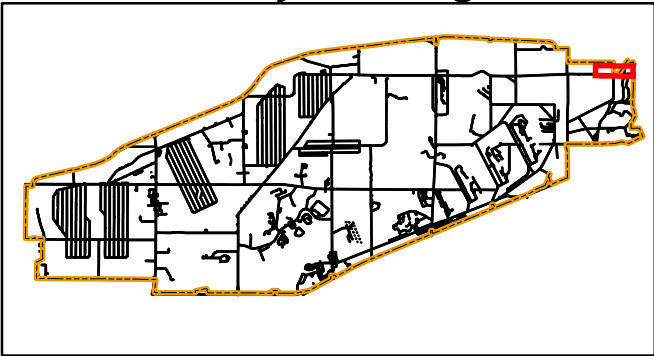
PHOTO NE29 repaired 04/17/2014



PHOTO NE29 discovered 03/05/2014



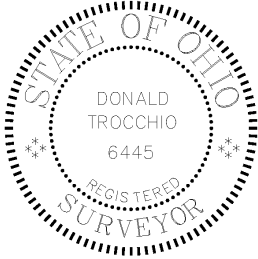
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0 150 300 600 900 Feet
Bar Scale in Feet



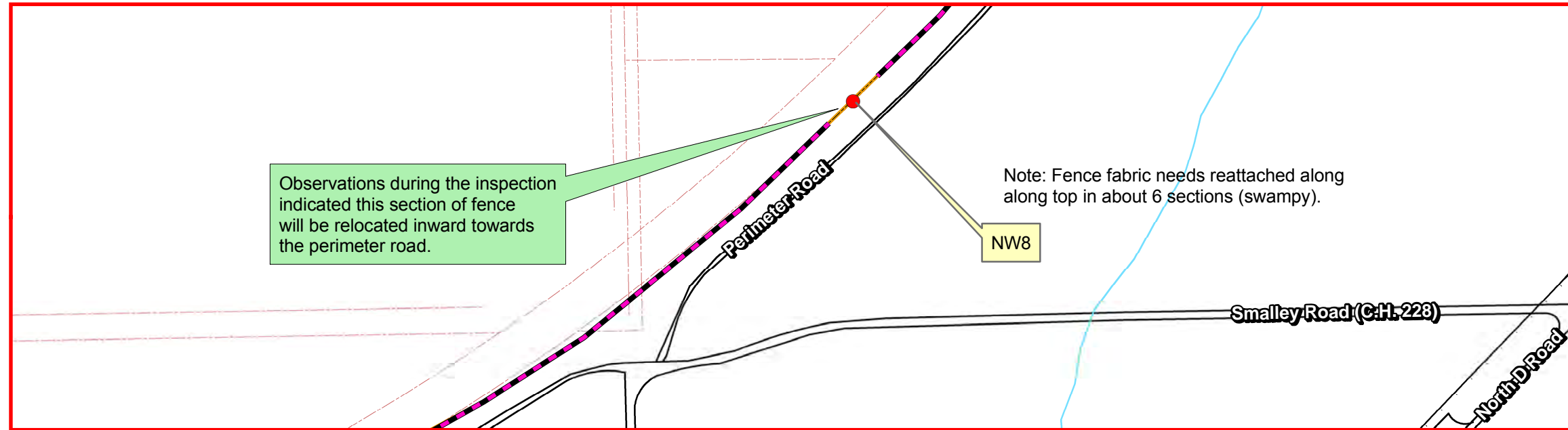
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DETAIL SHEET FOR NE29

NW (Northwest) Quadrant

DETAIL SHEET FOR NW8



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

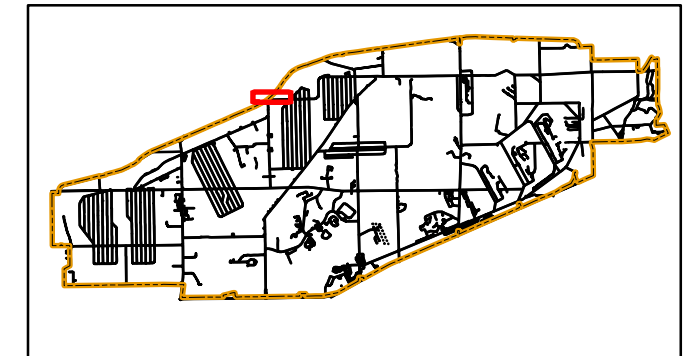
PHOTO NW8 discovered 07/16/2013

Legend

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



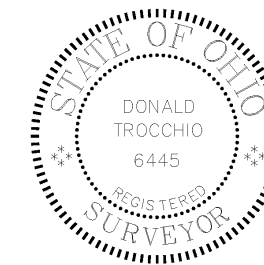
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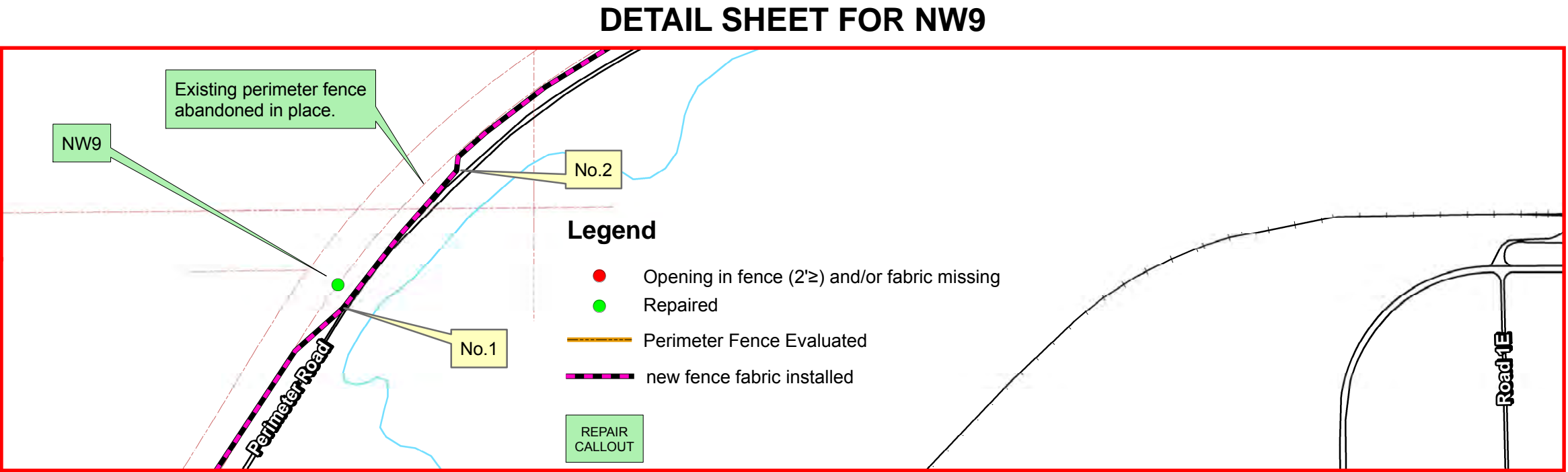
0 150 300 600 900 Feet
Bar Scale in Feet



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DETAIL SHEET FOR NW8



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

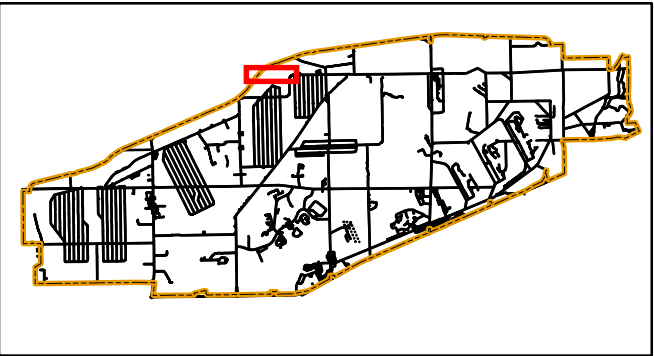
PHOTO No.2



PHOTO No.1



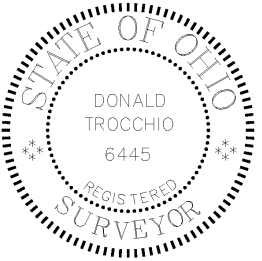
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Portage & Trumbull County **LOCATOR MAP**



Ohio Army National Guard



Produced in April 2014 for:



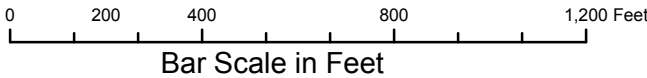
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Plane Rectangular Grid, North Zone



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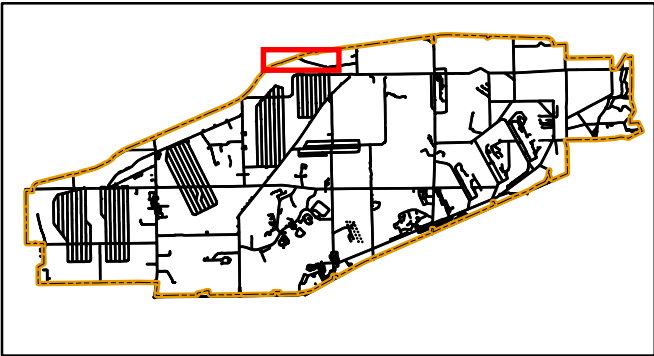
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW9

DETAIL SHEET FOR NW10



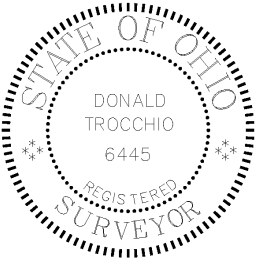
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LOCATOR MAP



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:



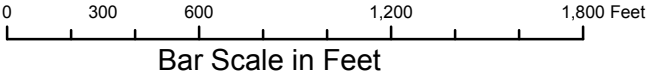
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Plane Rectangular Grid, North Zone



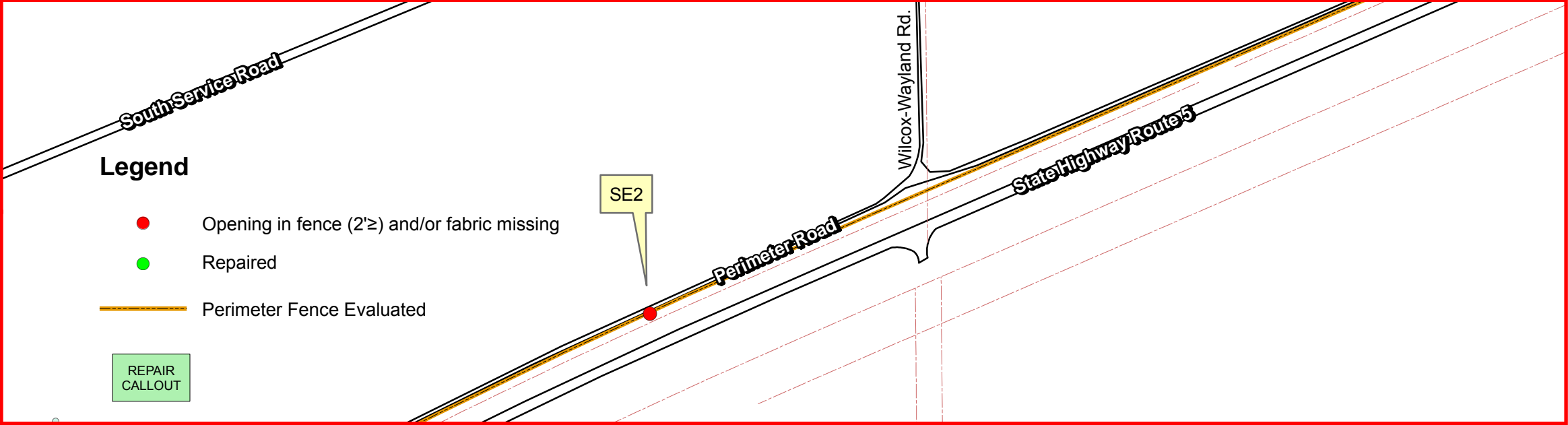
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DETAIL SHEET FOR NW10

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2

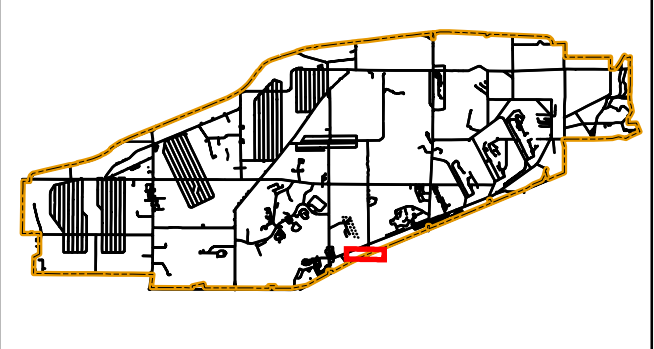


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



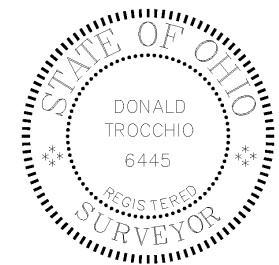
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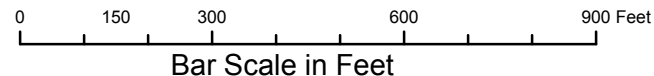
US Army Corps of Engineers

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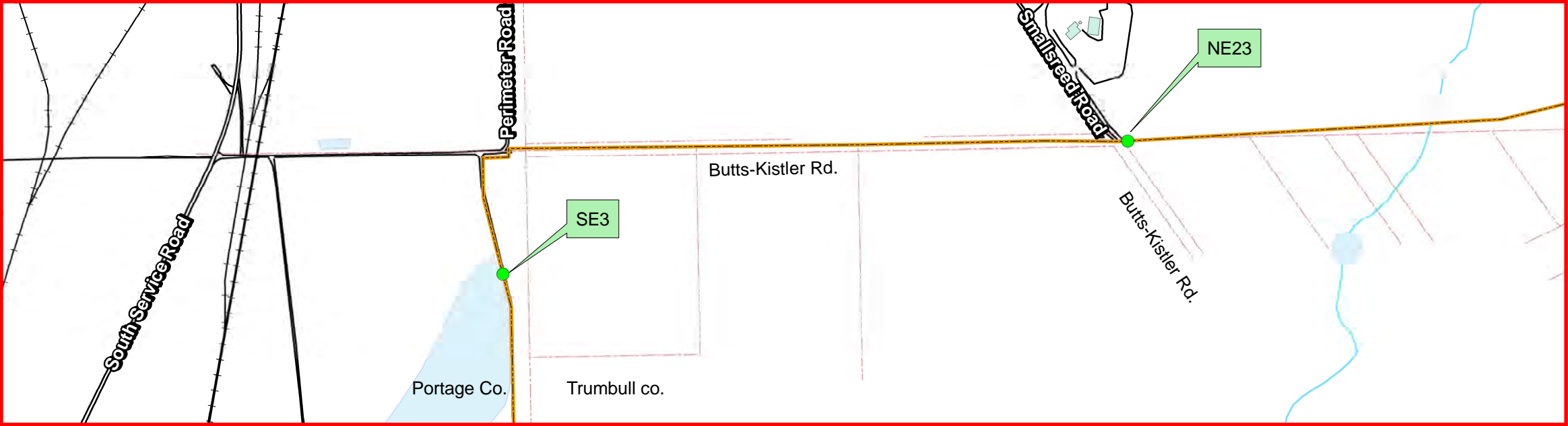
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



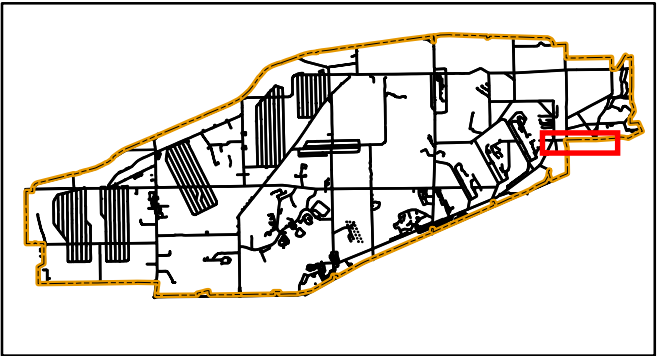
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DETAIL SHEET FOR SE2

DETAIL SHEET FOR SE3



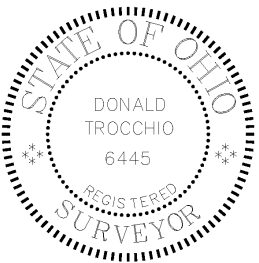
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Ohio Army National Guard



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:



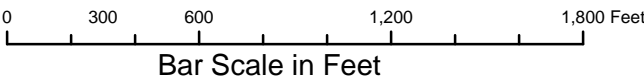
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Louisville District



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

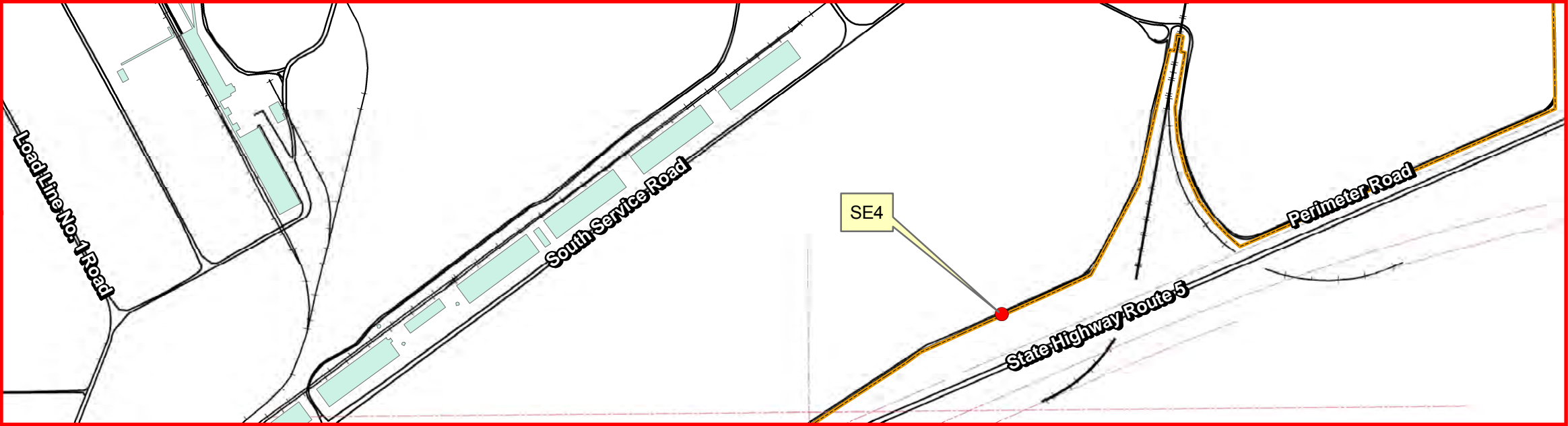


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DETAIL SHEET FOR SE3

DETAIL SHEET FOR SE4



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

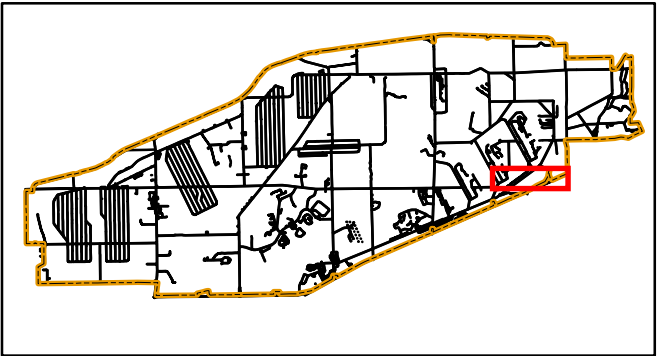
PHOTO SE4 discovered 02/27/2014

Legend

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



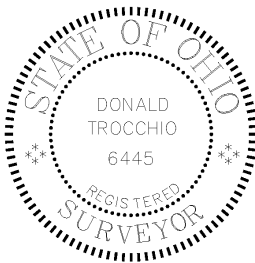
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

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

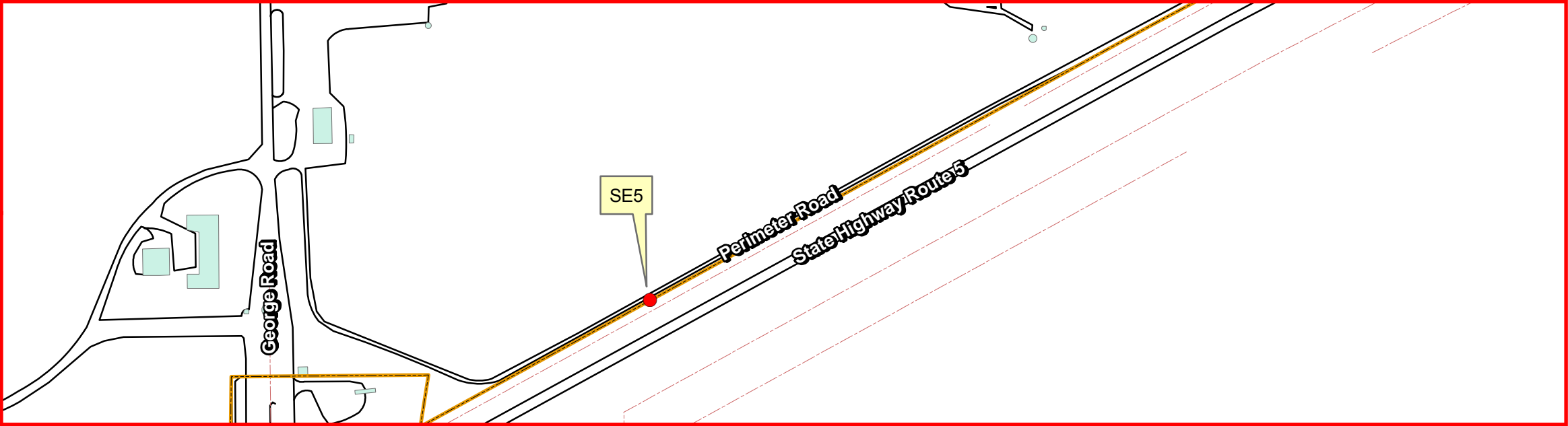


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DETAIL SHEET FOR SE4

DETAIL SHEET FOR SE5



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

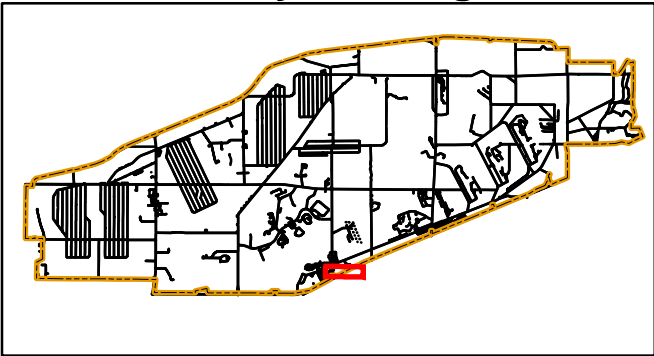
Legend

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

PHOTO SE5 discovered 04/22/2014



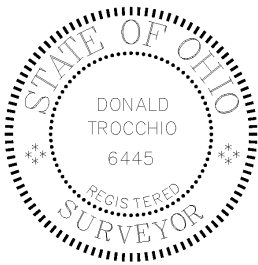
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LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



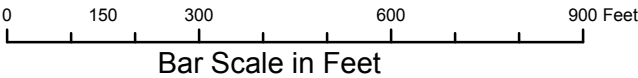
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Plane Rectangular Grid, North Zone



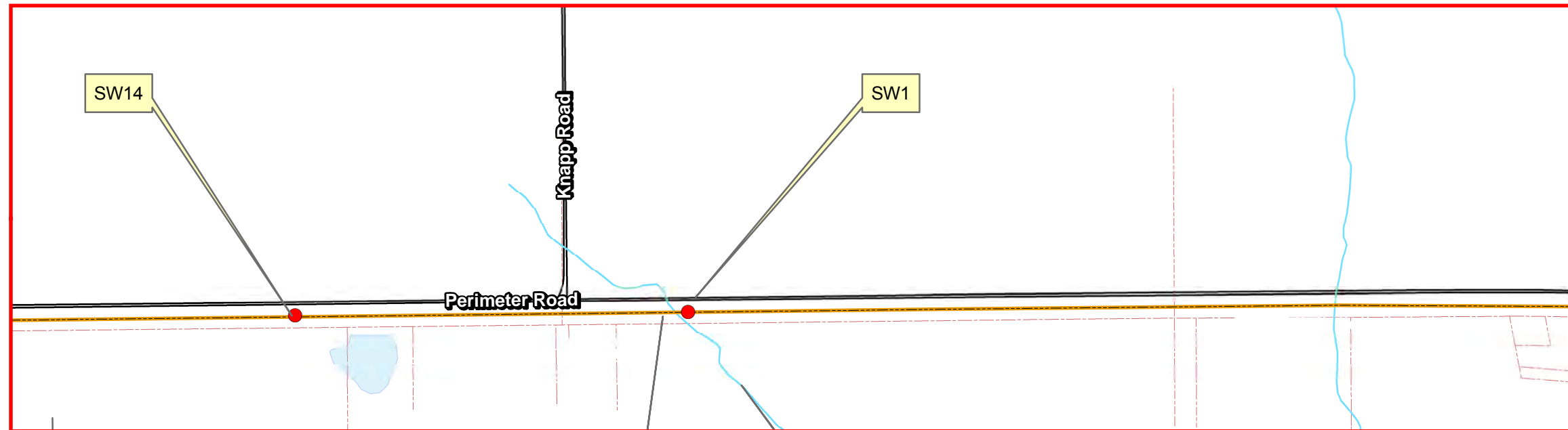
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DETAIL SHEET FOR SE5

SW (Southwest) Quadrant

DETAIL SHEET FOR SW1



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

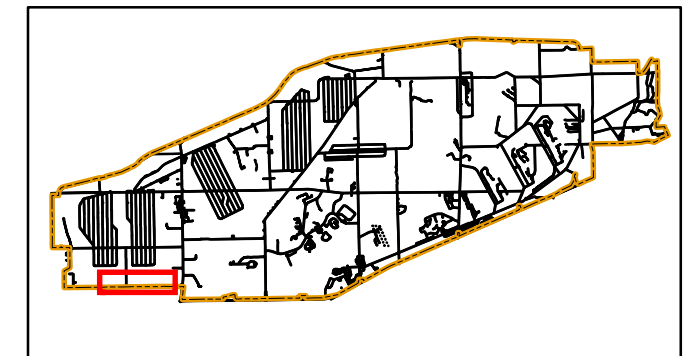
PHOTO SW1 discovered 02/07/2013

Legend

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



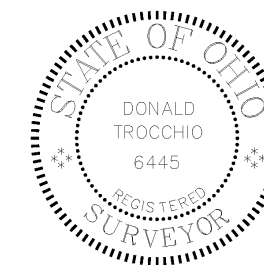
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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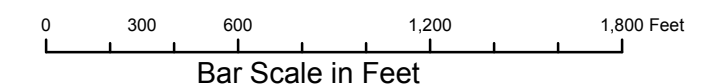
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

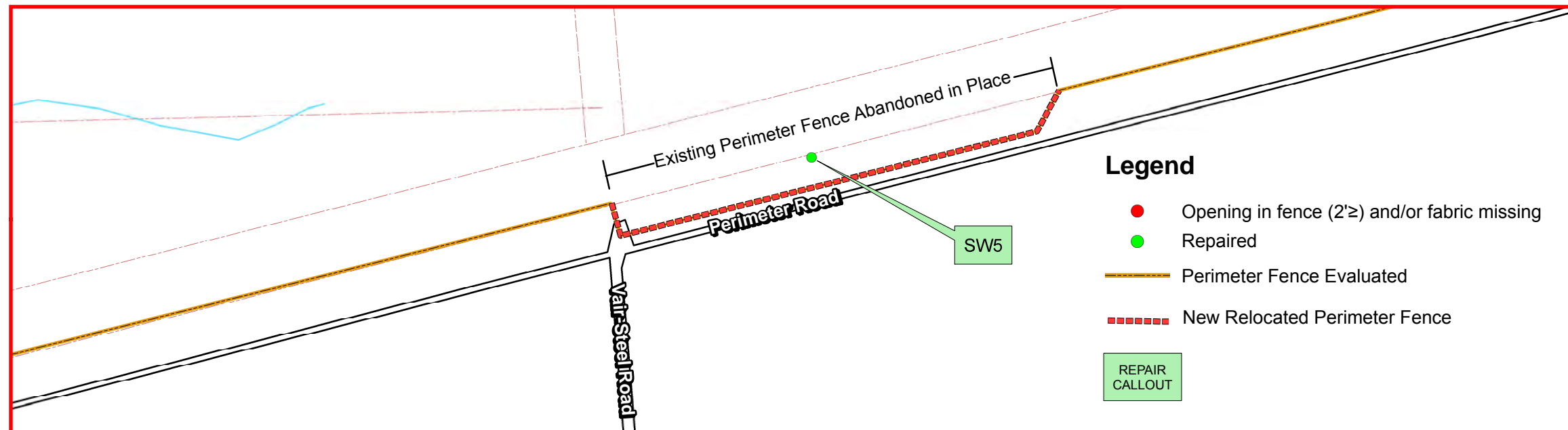


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DETAIL SHEET FOR SW1

DETAIL SHEET FOR SW5



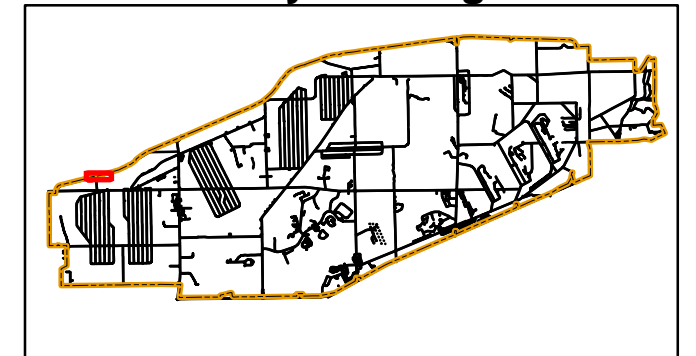
LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2014 PERIMETER FENCE INSPECTION

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

PHOTO SW5 discovered 02/12/2013



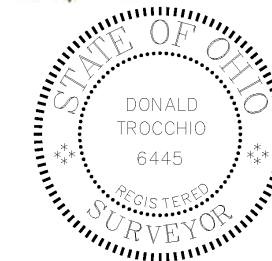
Camp Ravenna Joint Military Training Center



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

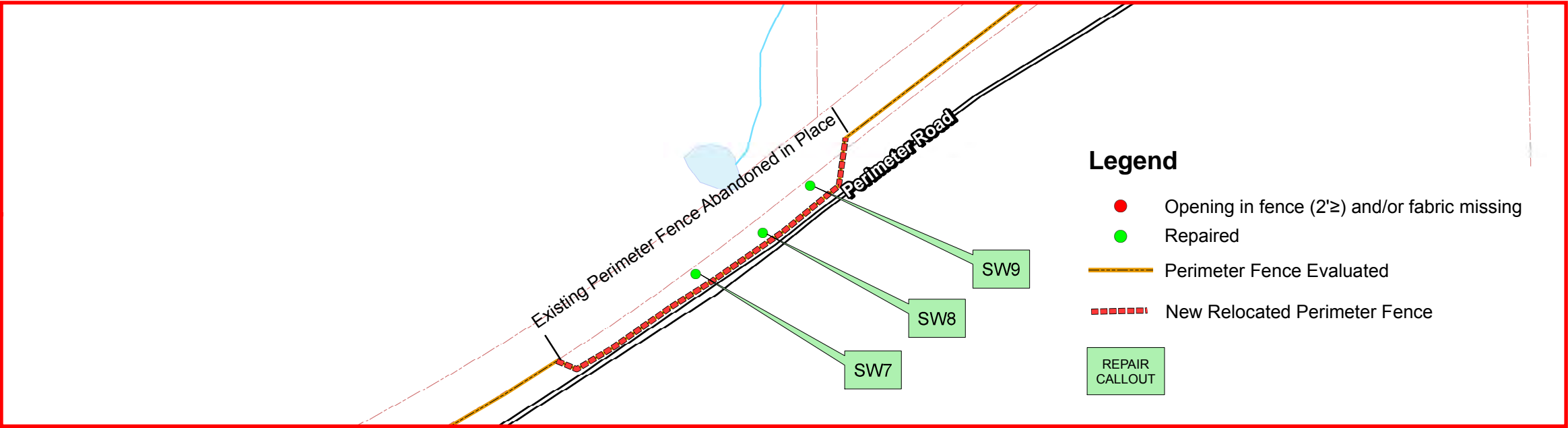
0 100 200 400 600 Feet
Bar Scale in Feet



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 SW5

DETAIL SHEET FOR SW7, SW8 and SW9



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

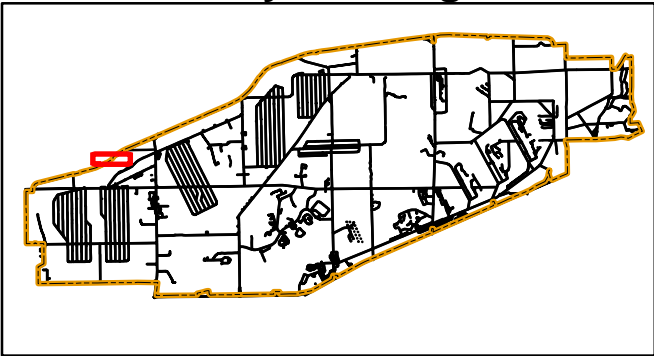
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE
dated 11/19/2013



PHOTO SW7 discovered 02/12/2013



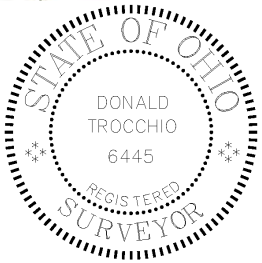
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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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

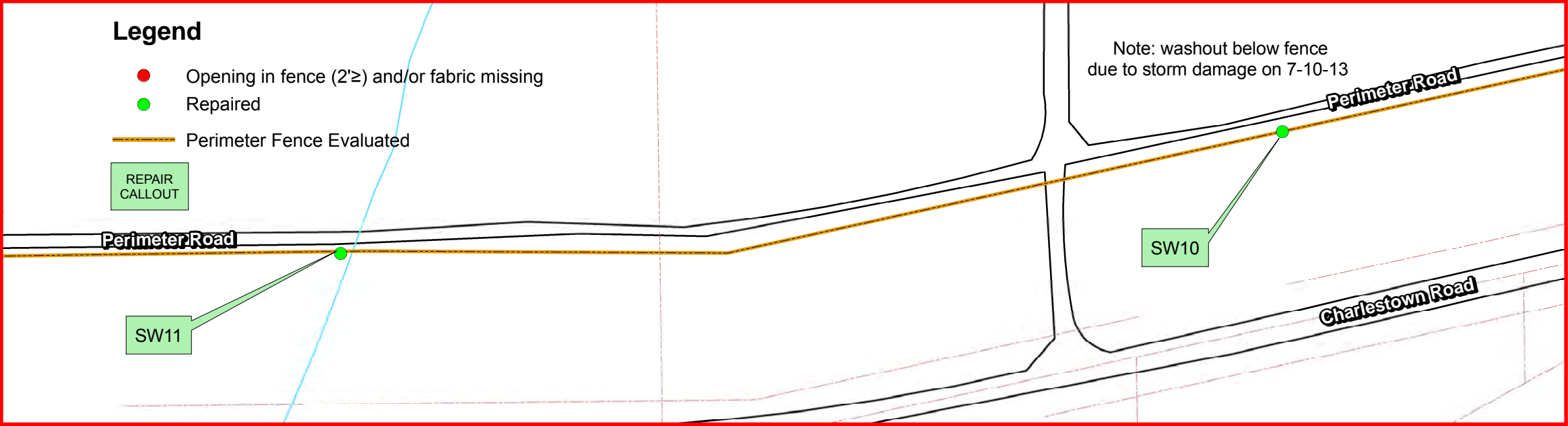


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don.trocchio@us.army.mil

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DETAIL SHEET FOR SW7, SW8, SW9

DETAIL SHEET FOR SW10



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

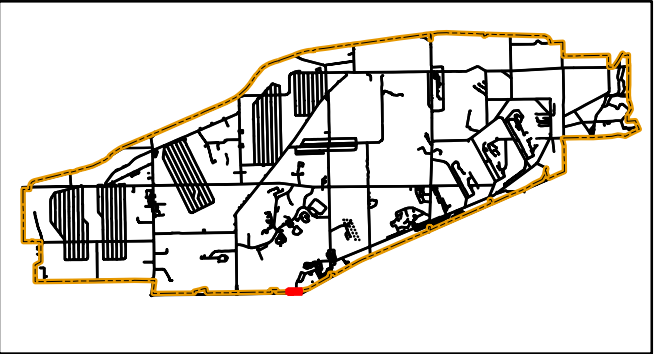
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



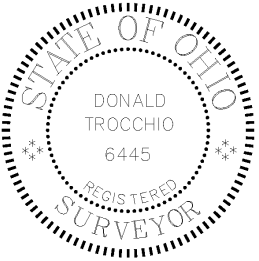
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



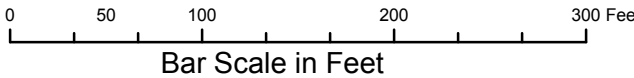
**US Army Corps of
Engineers**

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Louisville District



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

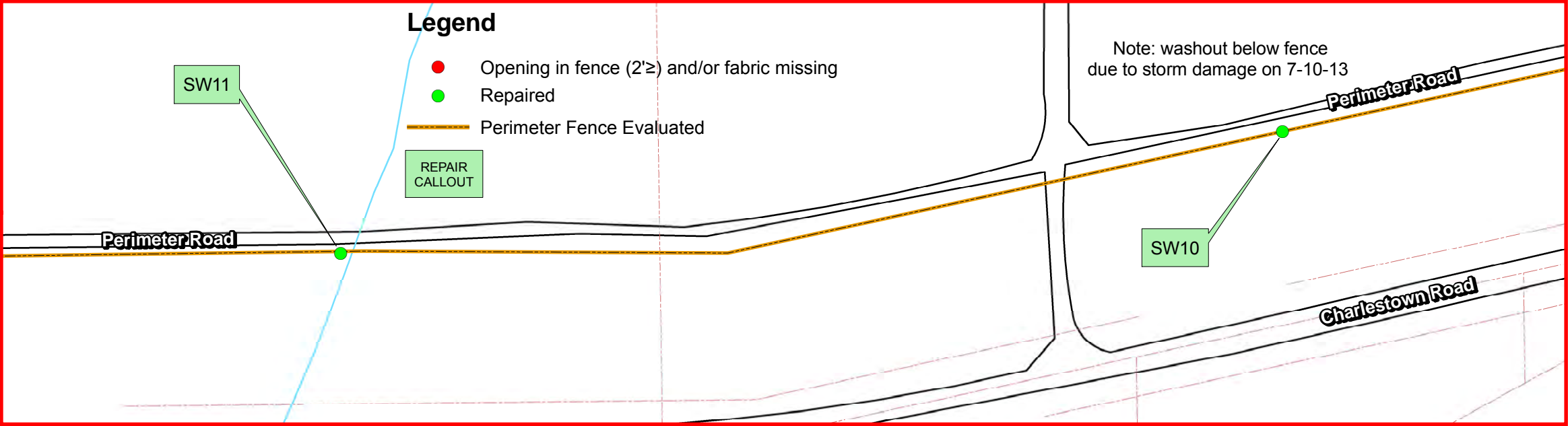


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DETAIL SHEET FOR SW10

DETAIL SHEET FOR SW11



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

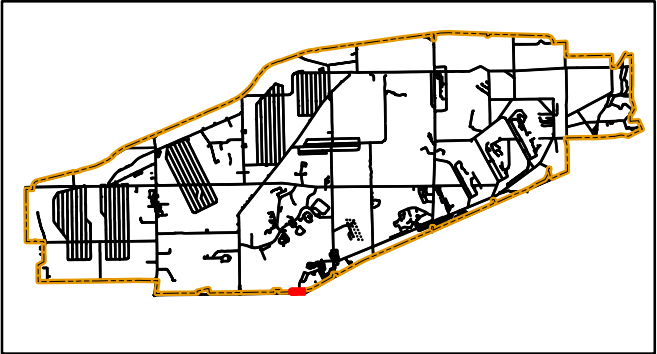
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PHOTO SW11 discovered 07/15/2013



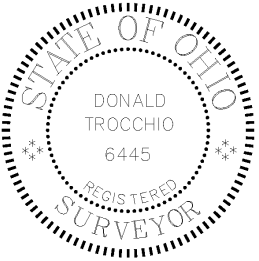
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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Louisville District



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

0 50 100 200 300 Feet
Bar Scale in Feet

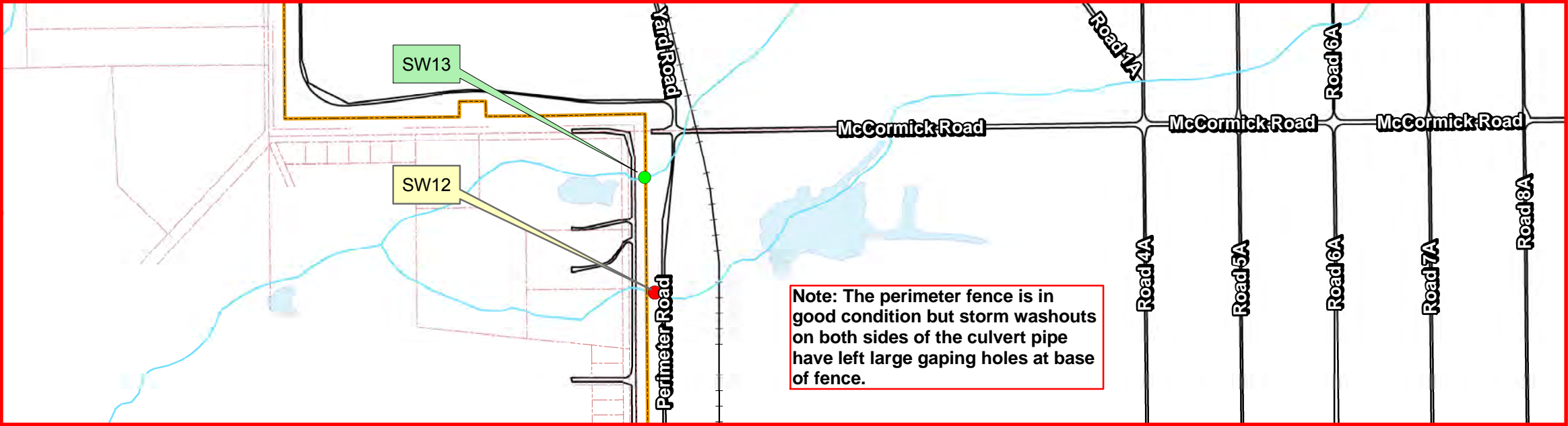


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don.trocchio@us.army.mil

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DETAIL SHEET FOR SW11

DETAIL SHEET FOR SW12



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

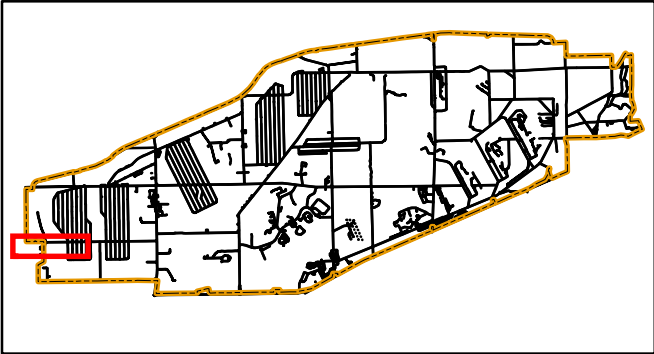
PHOTO SW12 discovered 11/18/2013

Legend

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



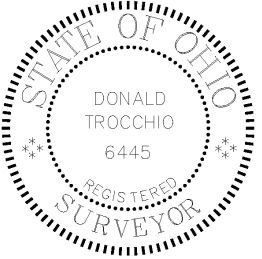
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



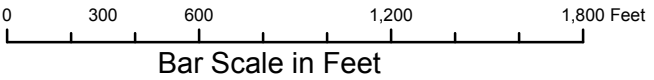
US Army Corps of Engineers

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Louisville District



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

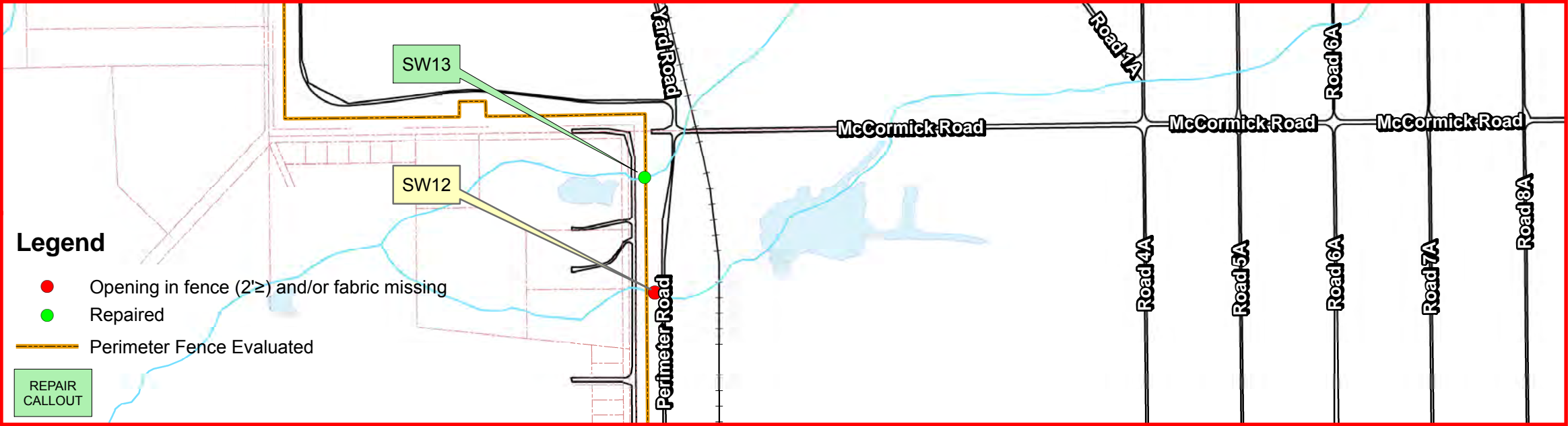


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW13



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

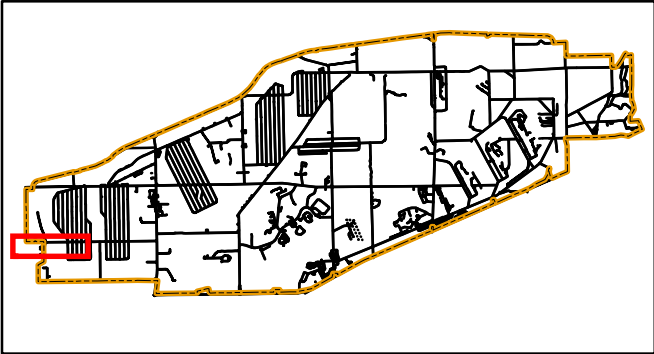
PHOTO SW13 repair 02/24/2014



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:



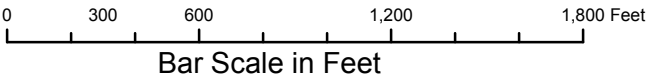
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
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Louisville District



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

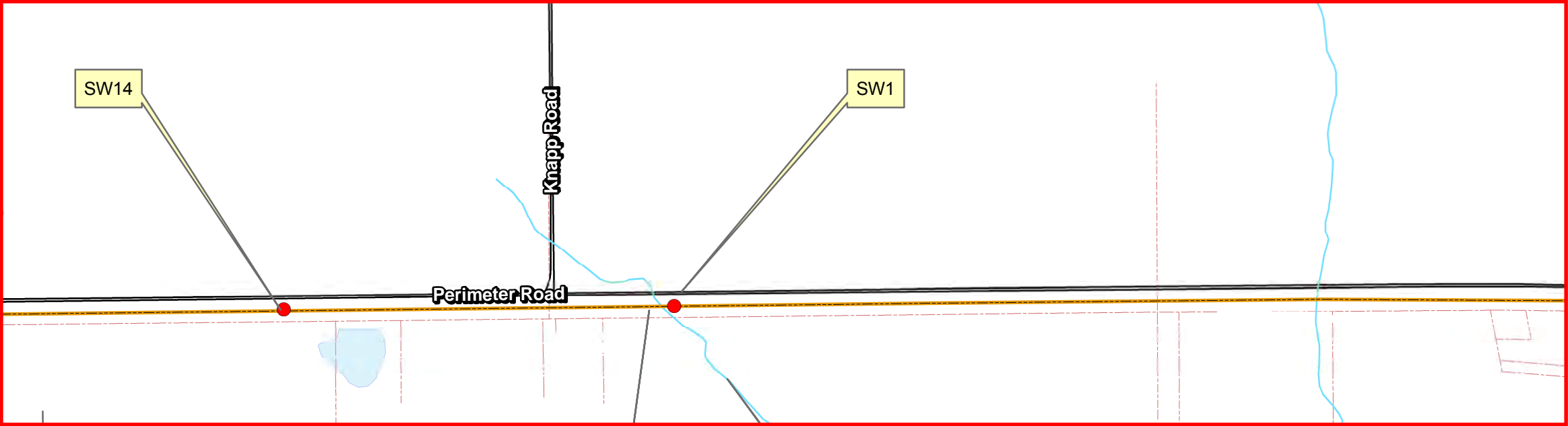


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW13

DETAIL SHEET FOR SW14



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

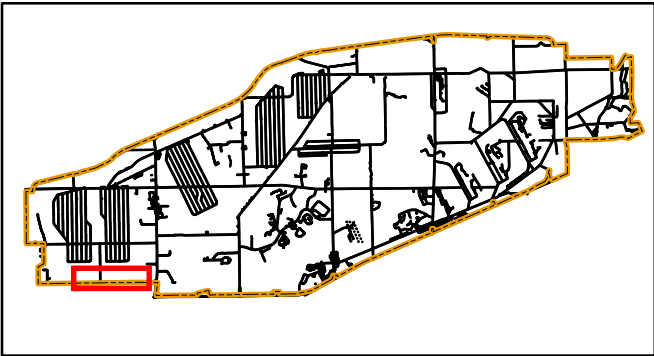
PHOTO SW14 discovered 04/14/2014

Legend

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



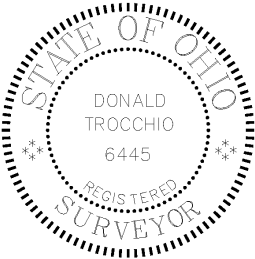
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



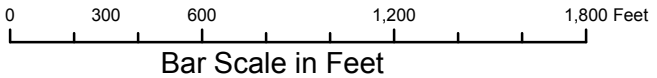
US Army Corps of Engineers

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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

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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**

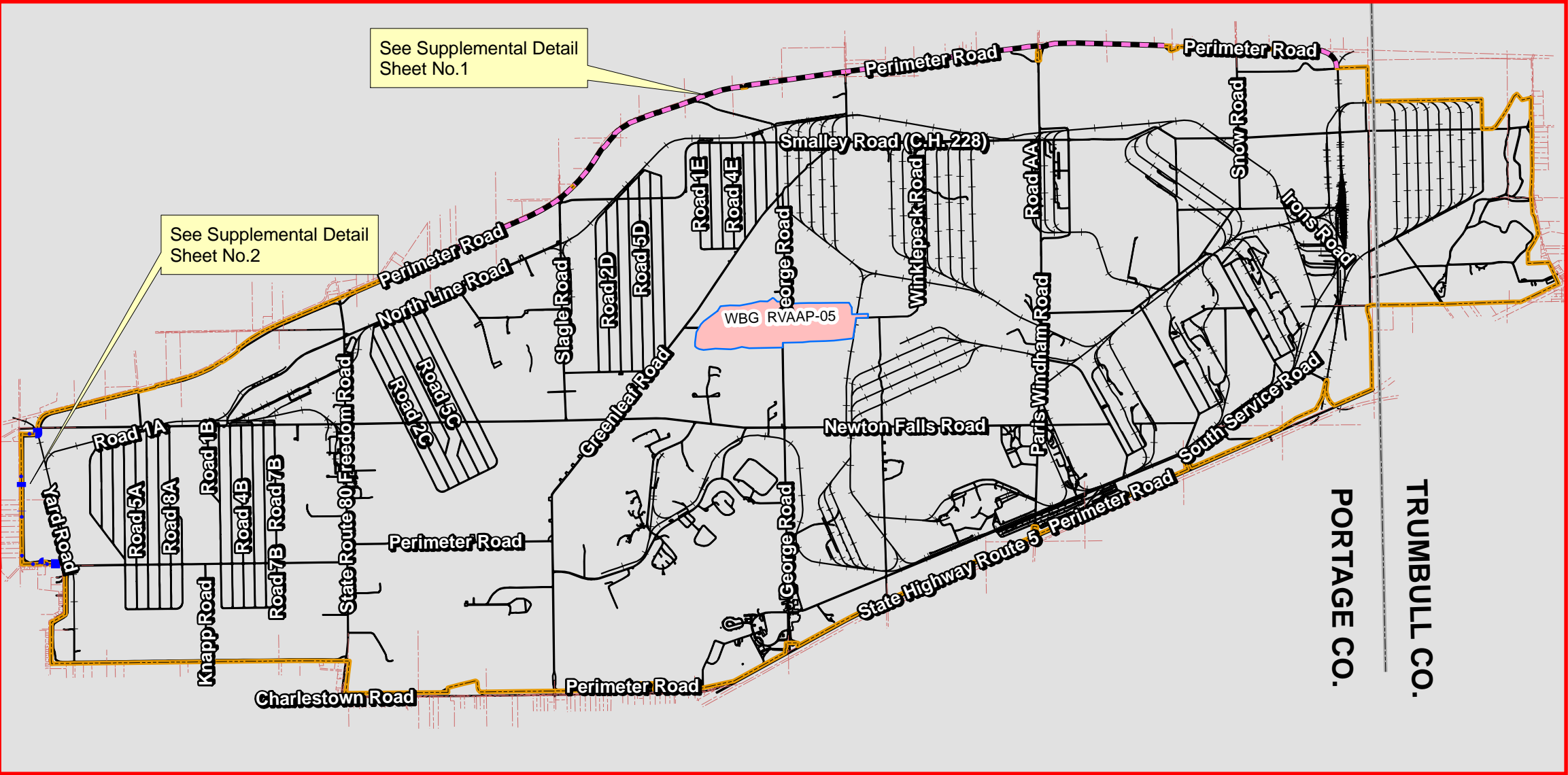
ATTACHMENT 2

Supplemental Index Map No. 1

Supplemental Detail Sheets

Camp Ravenna Fence Repair Log

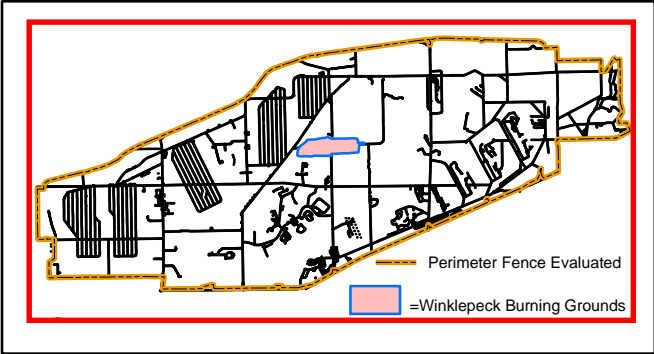
Supplemental Index Map No. 1
Supplemental Detail Sheets



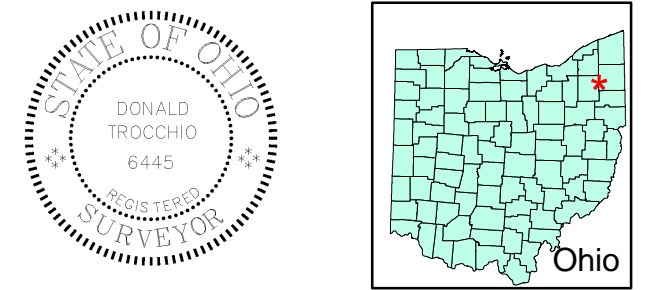
SUPPLEMENTAL INDEX MAP NO. 1 TO FACILITY PERIMETER FENCE INSPECTION
THIS MAP DEPICTS REPAIRS AND IMPROVEMENTS ALONG THE PERIMETER FENCE THAT ARE IN PROGRESS

- 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)


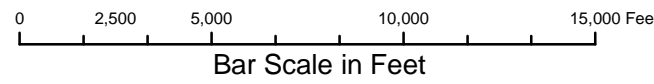
**Camp Ravenna
Joint Military Training Center**



Portage & Trumbull County
LOCATOR MAP
Ohio Army National Guard



Produced in April 2014 for:
 **US Army Corps of Engineers**
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

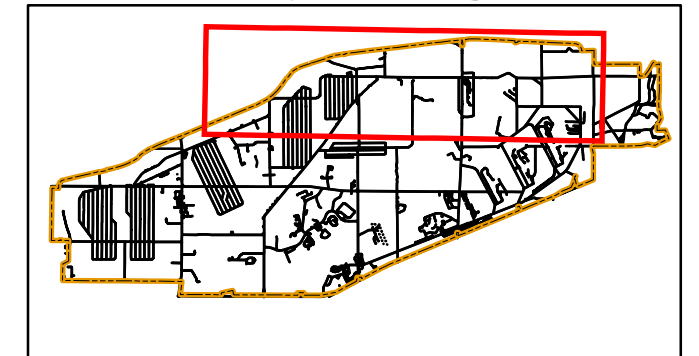
Louisville District
 Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone


 **VISTA SCIENCES CORPORATION**
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)

SUPPLEMENTAL DETAIL SHEET NO.1



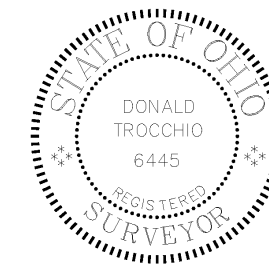
Camp Ravenna Joint Military Training Center



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:



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Louisville District



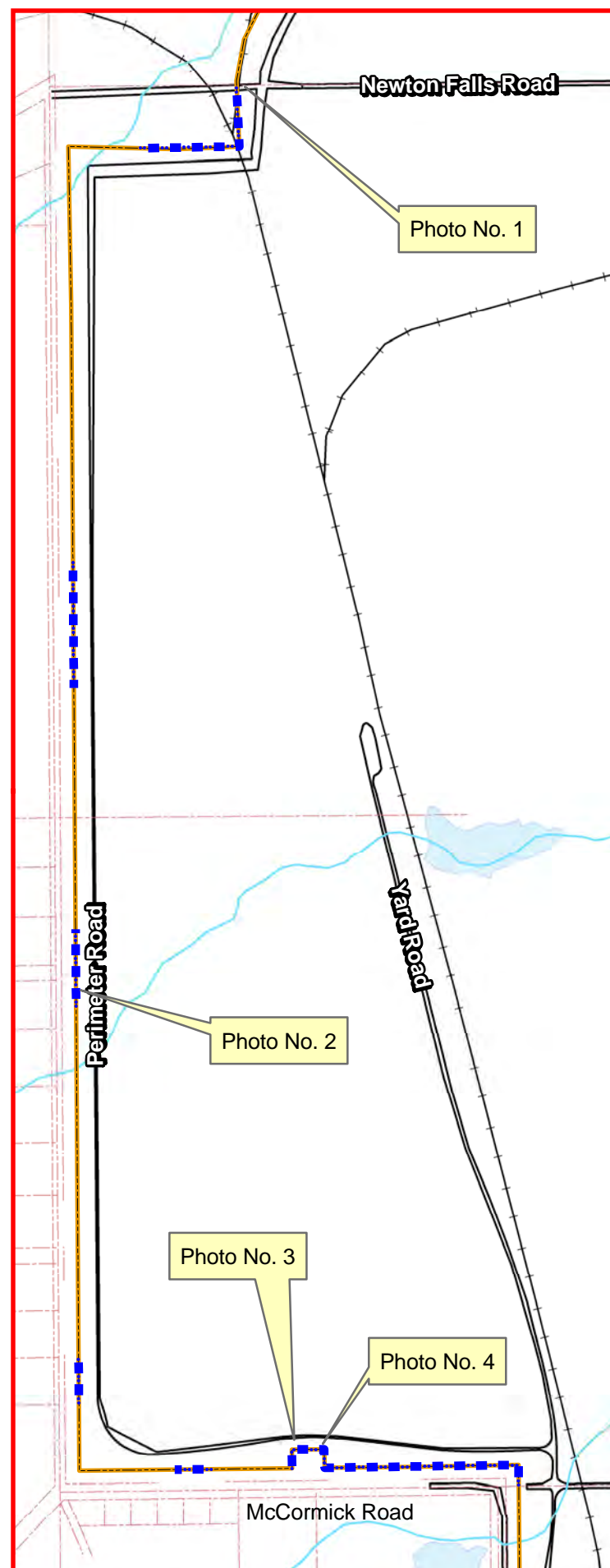
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

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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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

3rd QUARTER FY2014

PHOTO NO.1 02/25/2014



PHOTO NO.3 02/25/2014



PHOTO No.2 03/03/2014

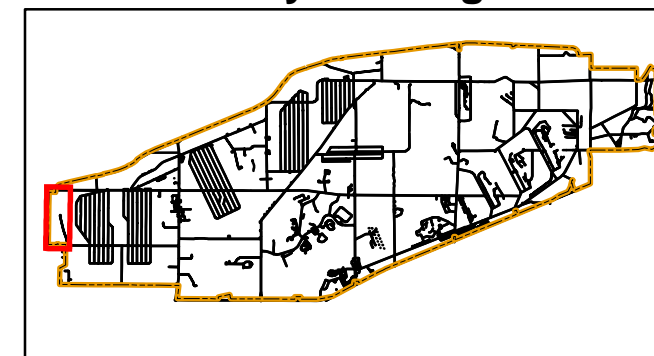


PHOTO NO.4 02/25/2014

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

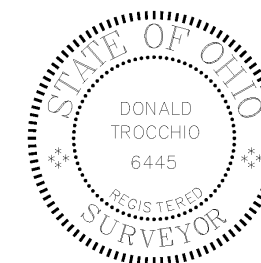
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



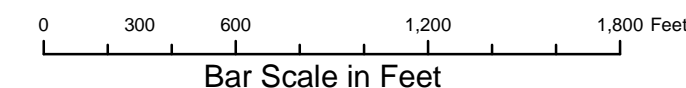
US Army Corps of Engineers

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Louisville District



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



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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

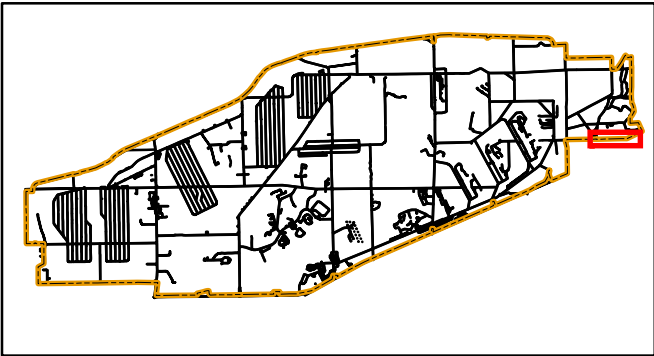
Legend

— Perimeter Fence Evaluated

Typical Existing Signage



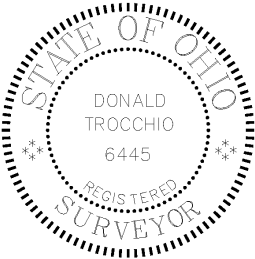
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in April 2014 for:



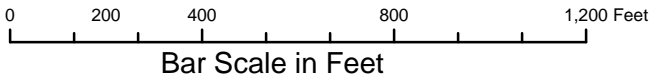
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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Camp Ravenna Fence Repair Log

[illegible][illegible]

Appendix F

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

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 3rd and 4th 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 4th 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.

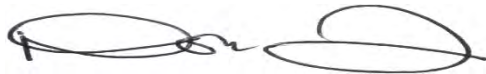
Attachment 2 also shows fence repairs that have been contracted and began in October 2013 and February 2014. Supplemental Detail Sheet No. 1 (Attachment 2) shows a large section of fence (posts and fabric) that was replaced on the northern perimeter from the Trumbull/Portage County line west to just 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

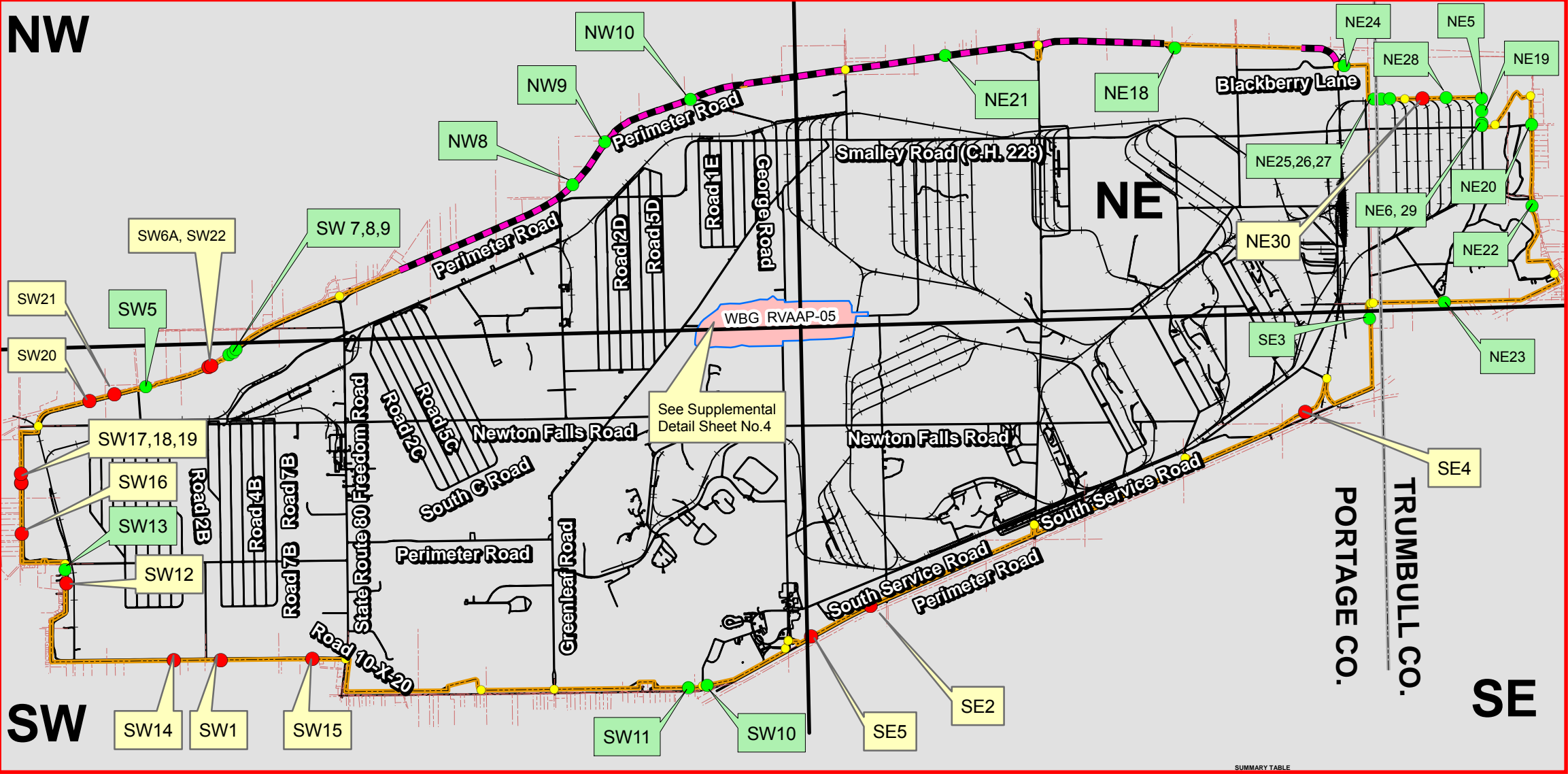


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

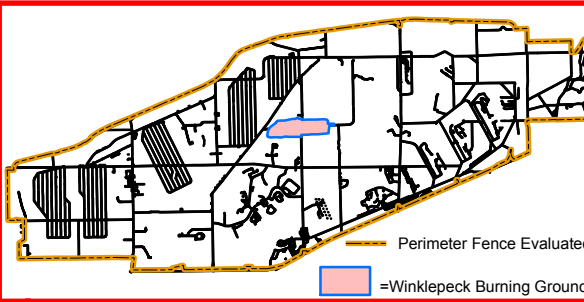
- Legend**
- Opening in fence (2'≥) and/or fabric missing/damaged (16 locations)
 - Repaired (25 locations)
 - Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
 - New fence fabric installed to date (about 6.3 miles)
See also Supplemental 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	Eastings	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	2330074		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	2386074	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	2372897	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							

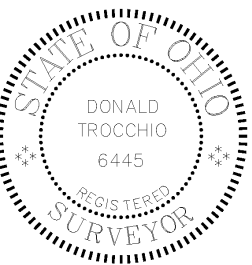
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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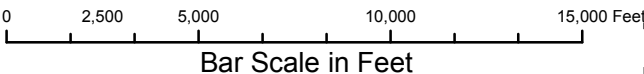
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Louisville District



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Plane Rectangular Grid, North Zone



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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 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
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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
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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

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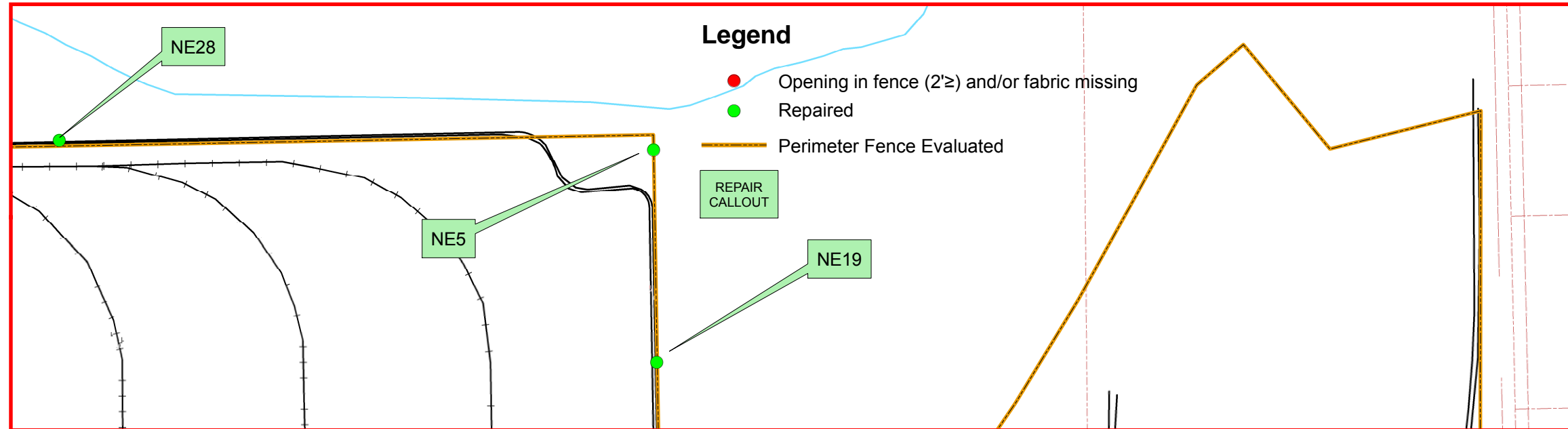
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REPAIRED 3RD QTR

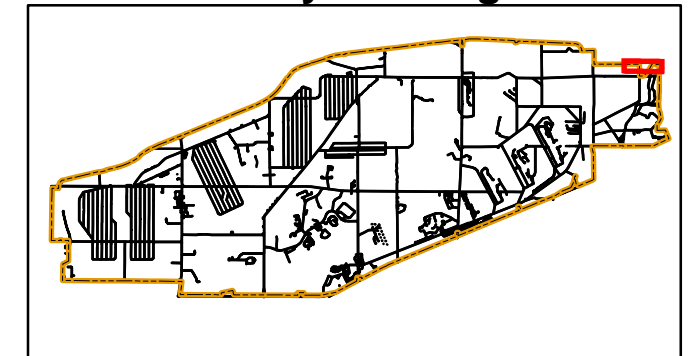
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NE (Northeast) Quadrant

DETAIL SHEET FOR NE5



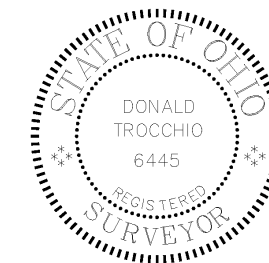
Camp Ravenna Joint Military Training Center



Portage & Trumbull County **LOCATOR MAP**



Ohio Army National Guard



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

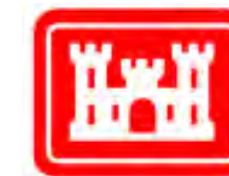
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PHOTO NE5 discovered 02/13/2013



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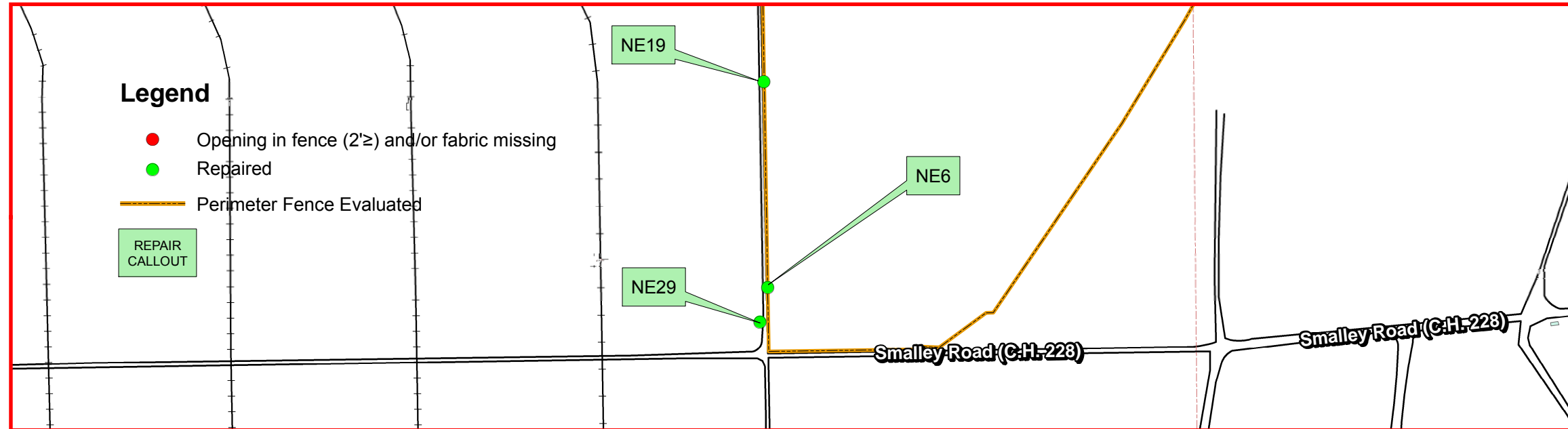
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Bar Scale in Feet



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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE5

DETAIL SHEET FOR NE6



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

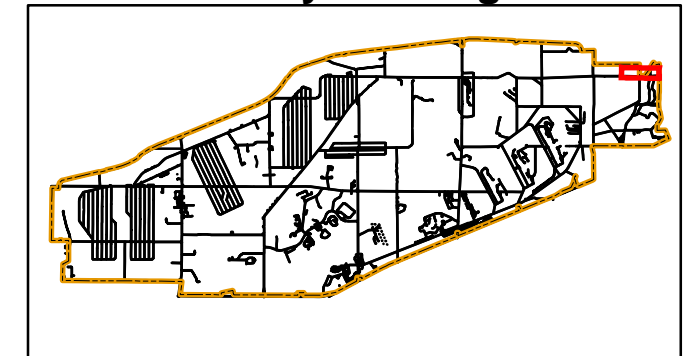
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PHOTO NE6 discovered 03/03/2014



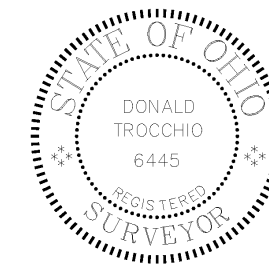
Camp Ravenna Joint Military Training Center



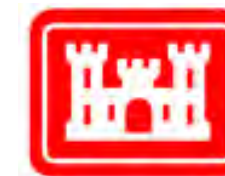
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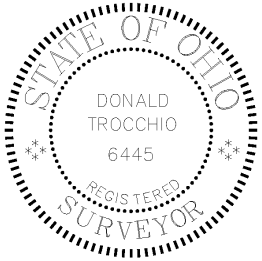
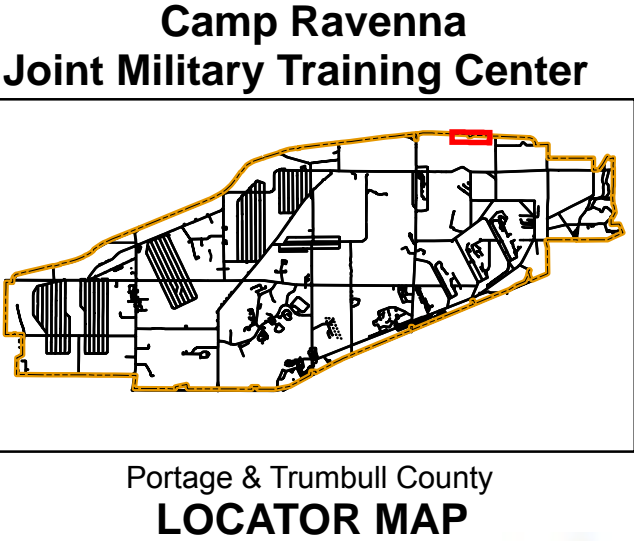
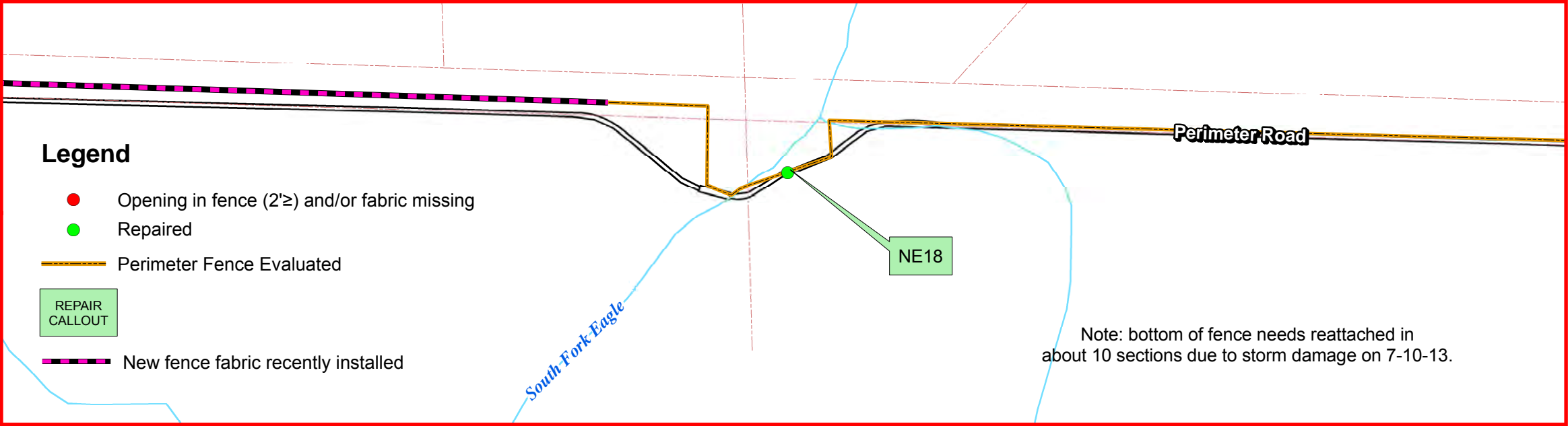
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Bar Scale in Feet



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DETAIL SHEET FOR NE6

DETAIL SHEET FOR NE18



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

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PHOTO NE18 discovered 07/17/2013



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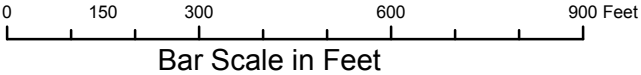


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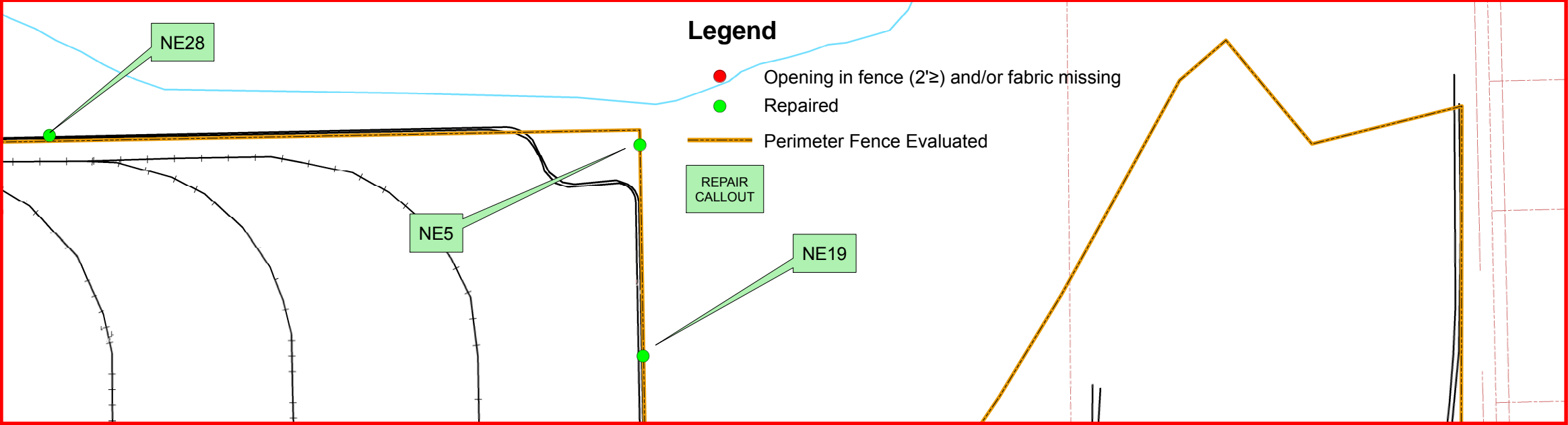
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Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NE18

DETAIL SHEET FOR NE19



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

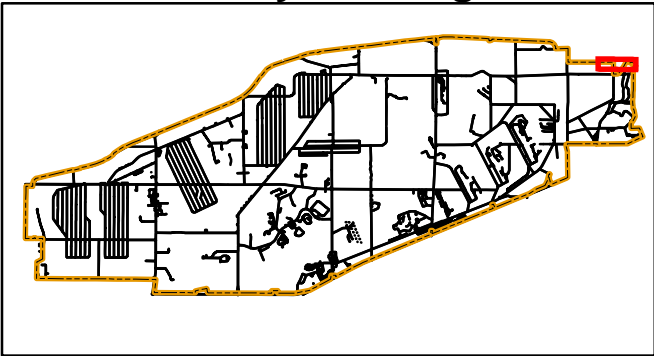
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PHOTO NE19 discovered 07/17/2013



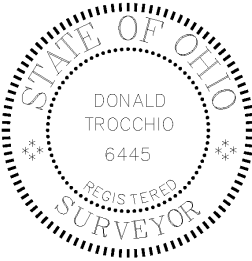
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



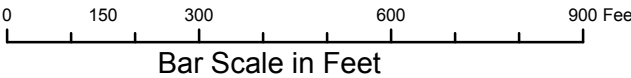
US Army Corps of Engineers

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Projection Datum is NAD83, Ohio State
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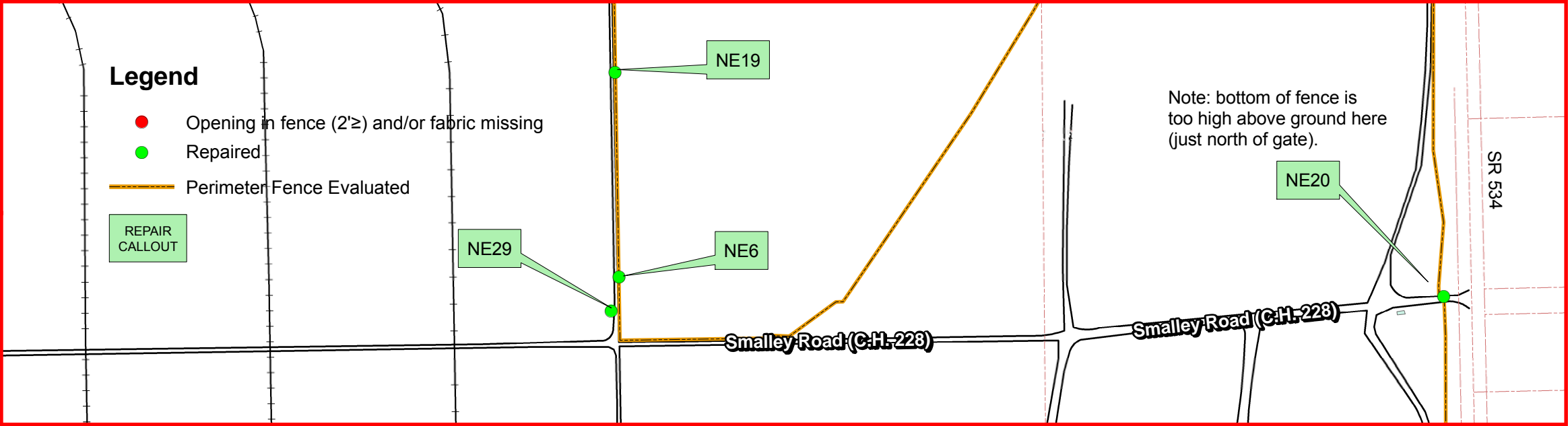


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE19

DETAIL SHEET FOR NE20



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

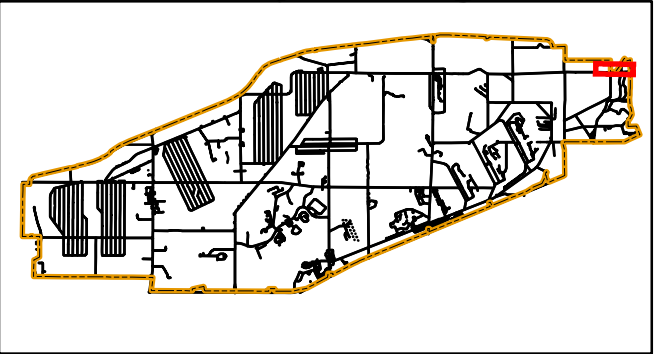
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PHOTO NE20 discovered 07/18/2013



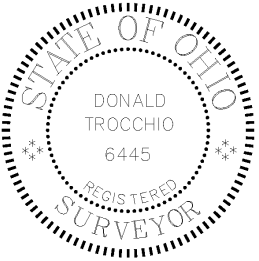
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



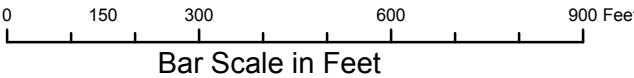
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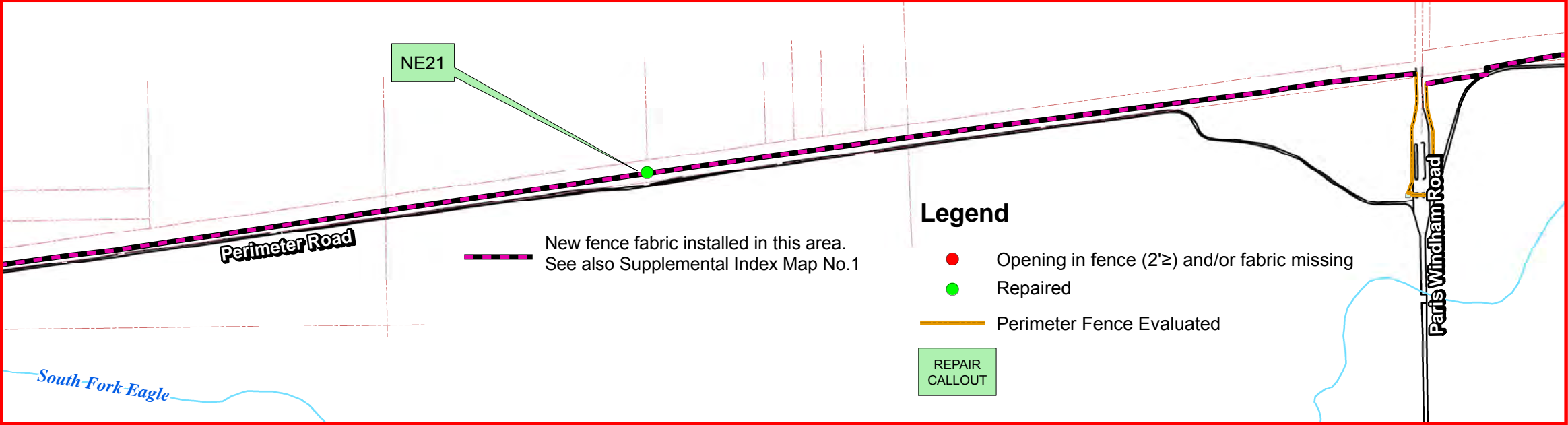


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE20

DETAIL SHEET FOR NE21



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

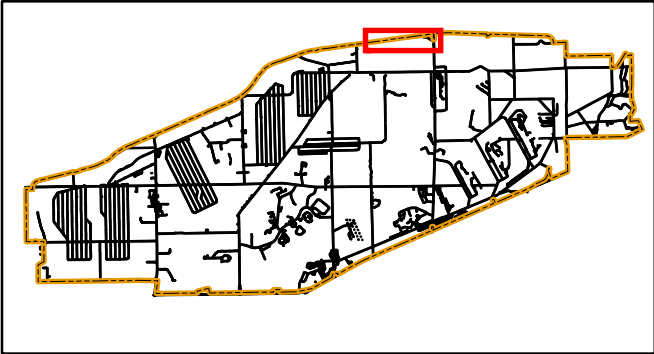
PHOTO NE21 repair 03/03/2014



PHOTO NE21 discovered 11/21/2013



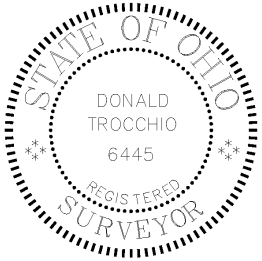
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



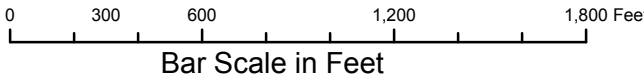
**US Army Corps of
Engineers**

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 NE21

DETAIL SHEET FOR NE22



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

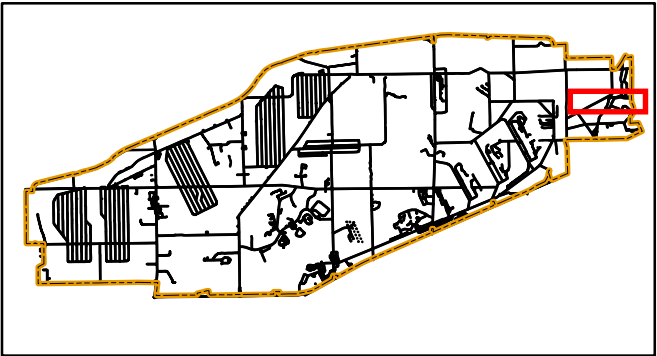
PHOTO NE22 repaired 04/17/2014



PHOTO NE22 discovered 11/25/2013



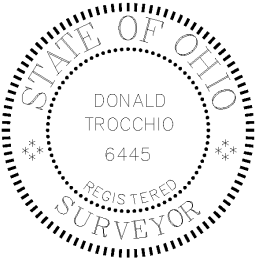
Camp Ravenna
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



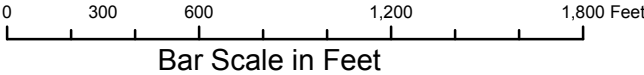
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

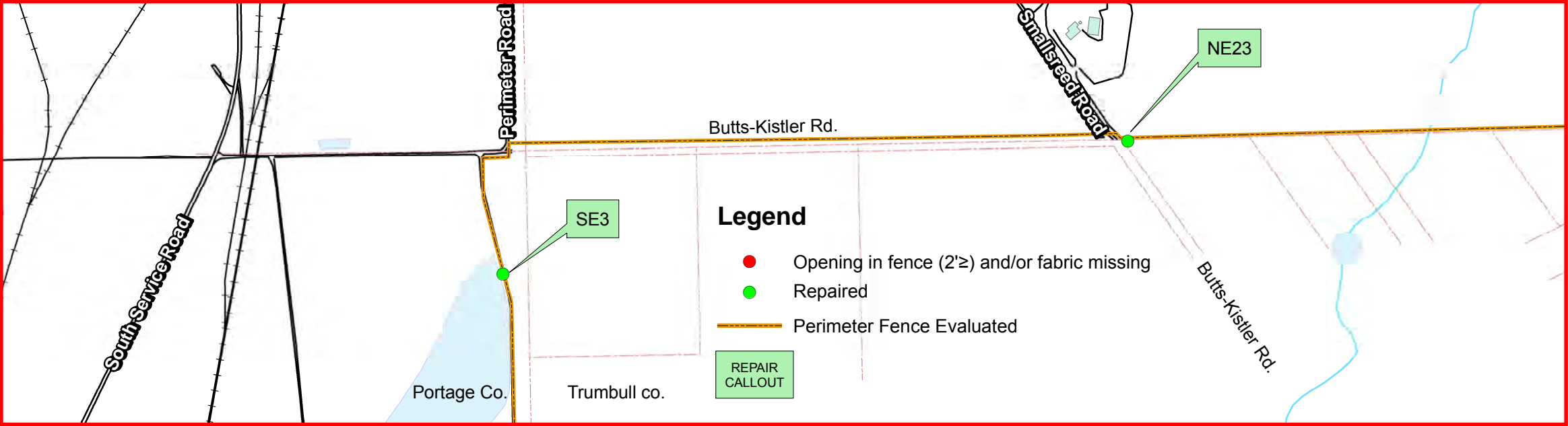


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DETAIL SHEET FOR NE22

DETAIL SHEET FOR NE23



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

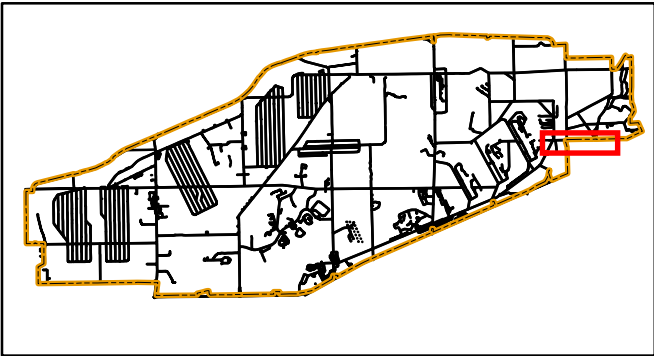
PHOTO NE23 repair 03/05/2014



PHOTO NE23 discovered 11/25/2013



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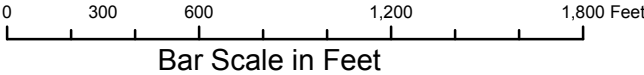
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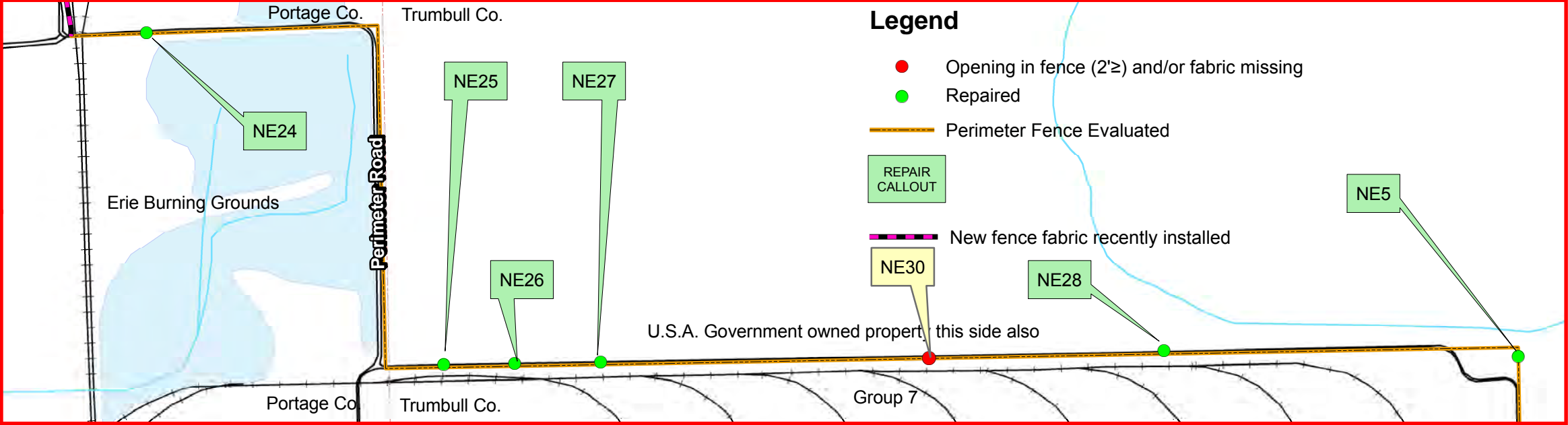


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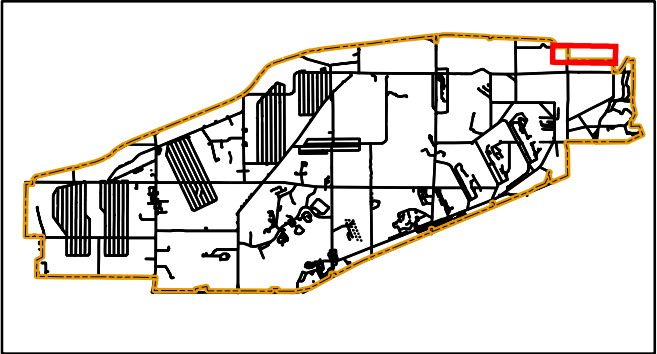
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE23

DETAIL SHEET FOR NE24



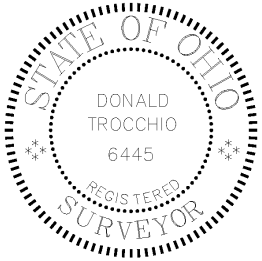
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

PHOTO NE24 repaired 04/17/2014



PHOTO NE24 discovered 03/03/2014



Produced in July 2014 for:



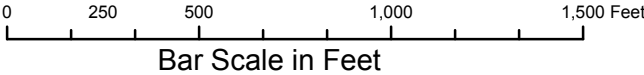
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Louisville District



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

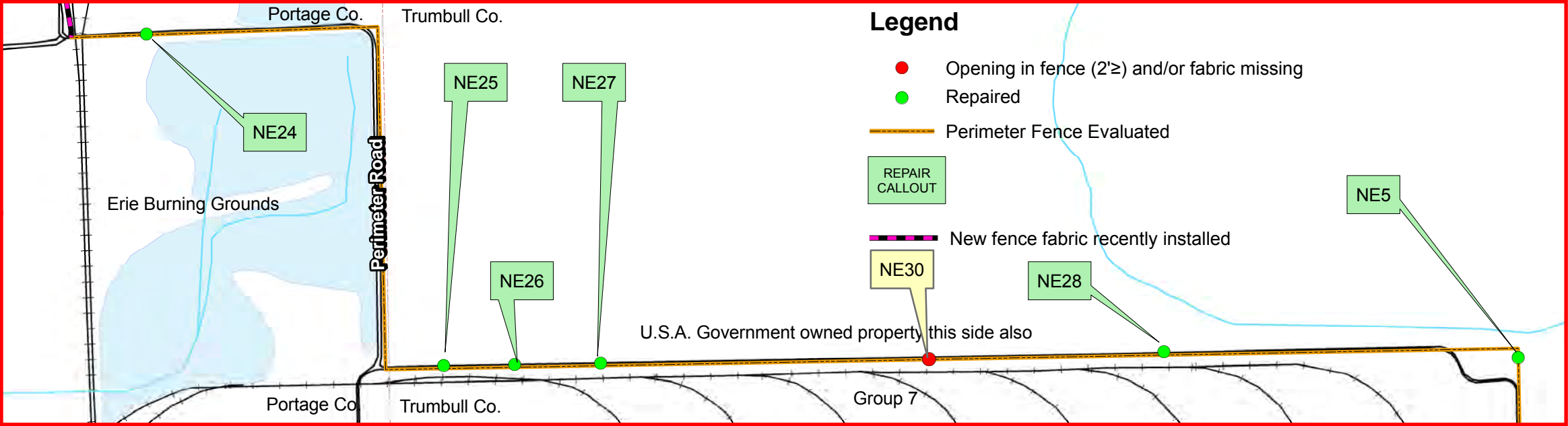


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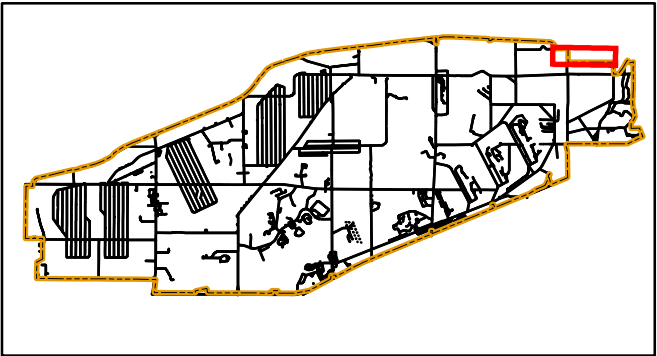
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE24

DETAIL SHEET FOR NE25



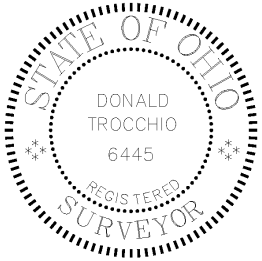
Camp Ravenna
Joint Military Training Center



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



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

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

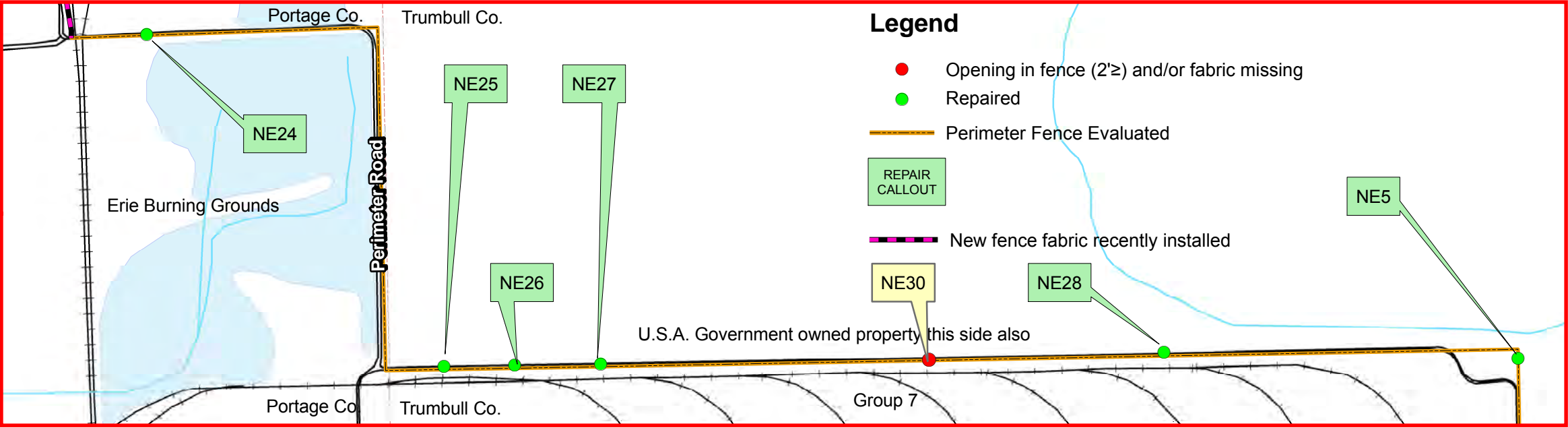


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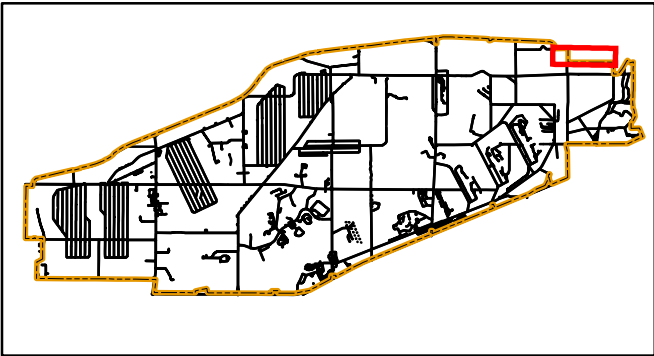
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE25

DETAIL SHEET FOR NE26



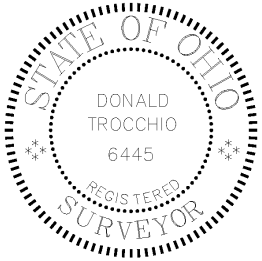
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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

PHOTO NE26 repaired 04/17/2014



PHOTO NE26 discovered 03/03/2014



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

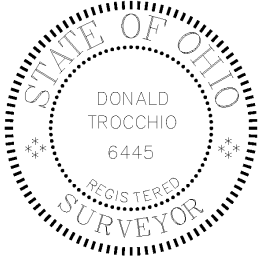
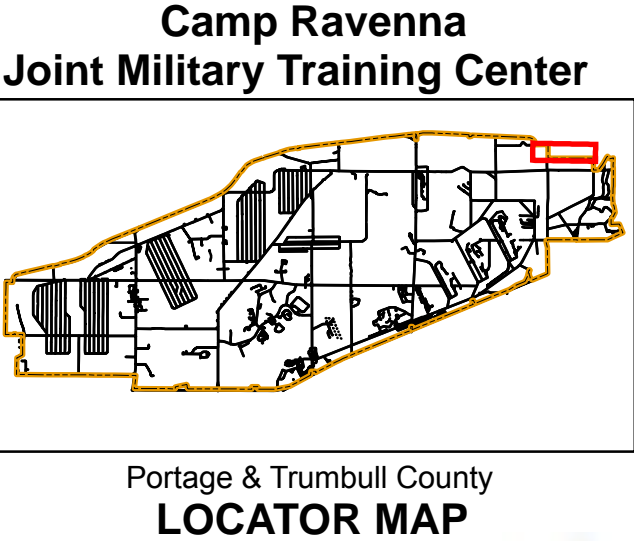
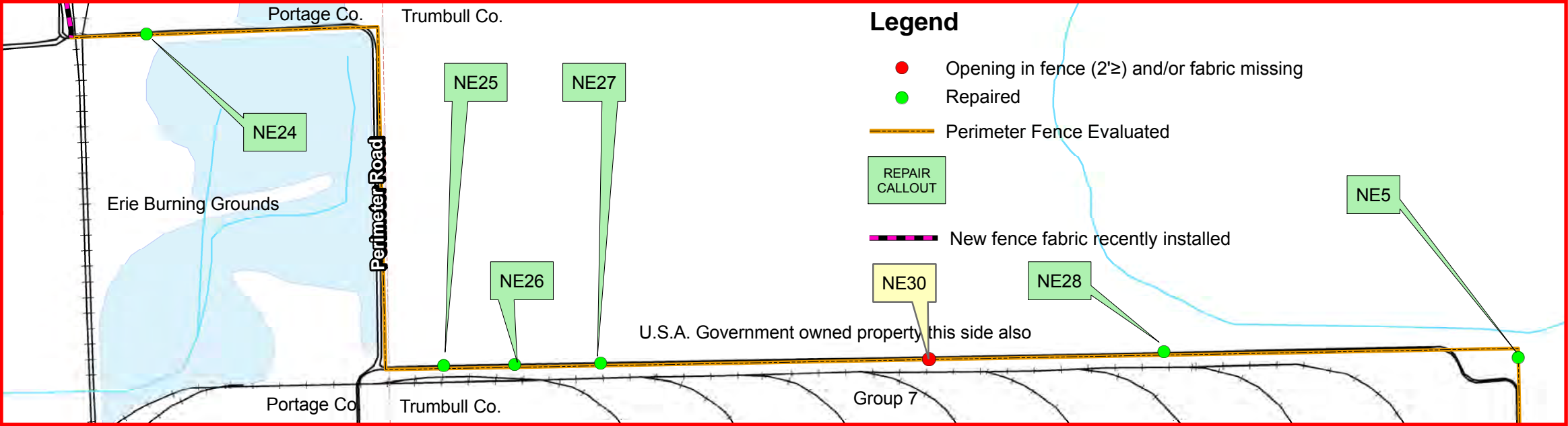


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DETAIL SHEET FOR NE26

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:

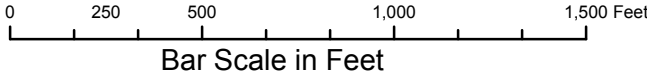


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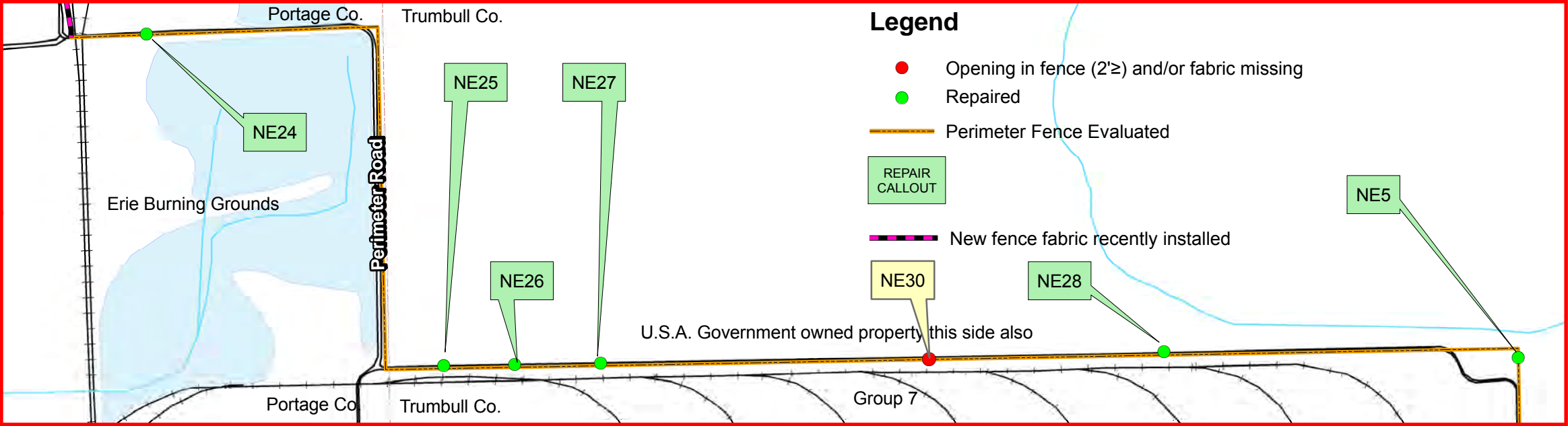
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



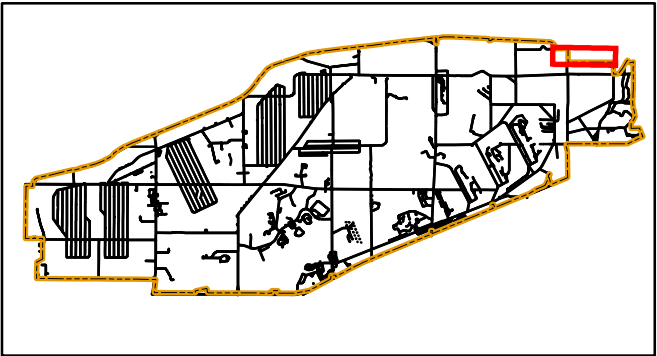
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE27

DETAIL SHEET FOR NE28



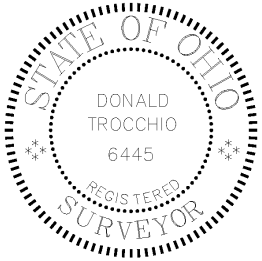
Camp Ravenna
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Portage & Trumbull County
LOCATOR MAP



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



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

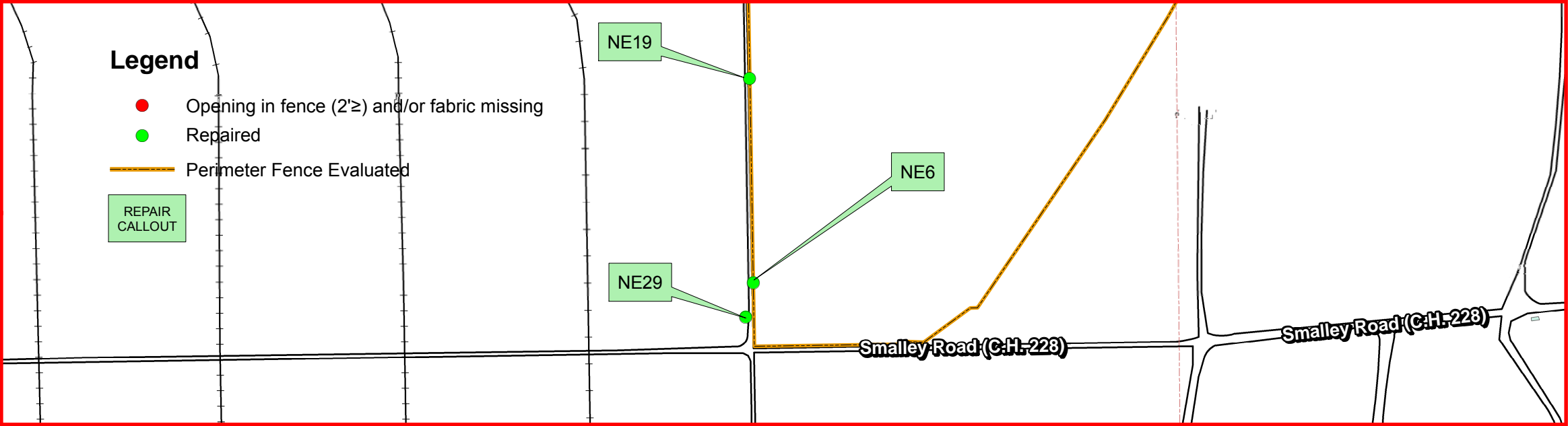


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE28

DETAIL SHEET FOR NE29



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

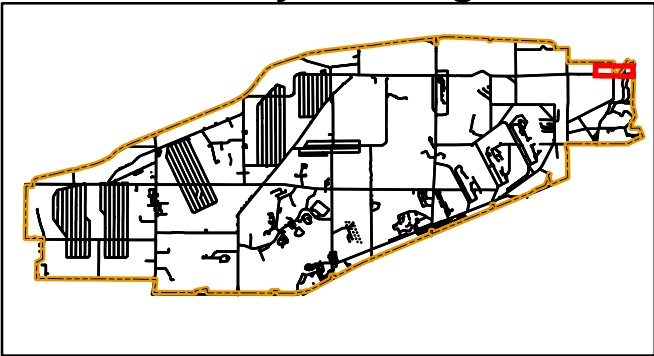
PHOTO NE29 repaired 04/17/2014



PHOTO NE29 discovered 03/05/2014



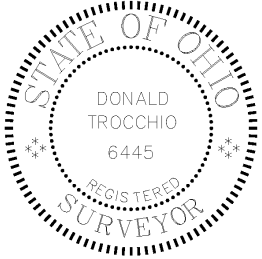
Camp Ravenna
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:

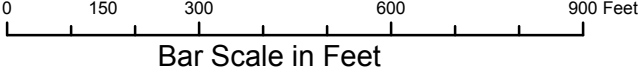


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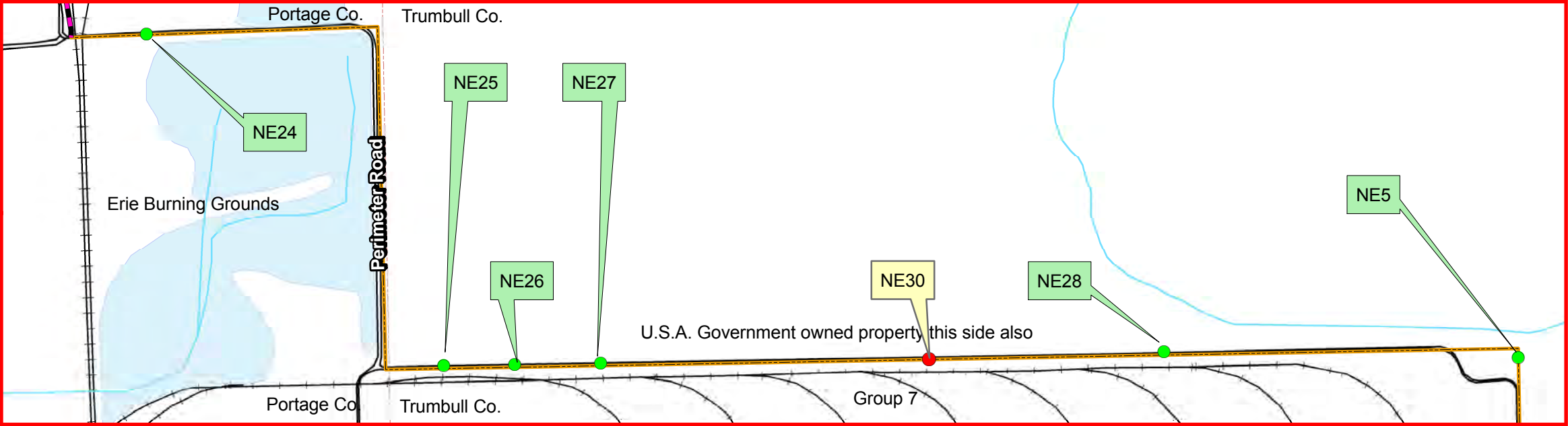
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE29

DETAIL SHEET FOR NE30



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

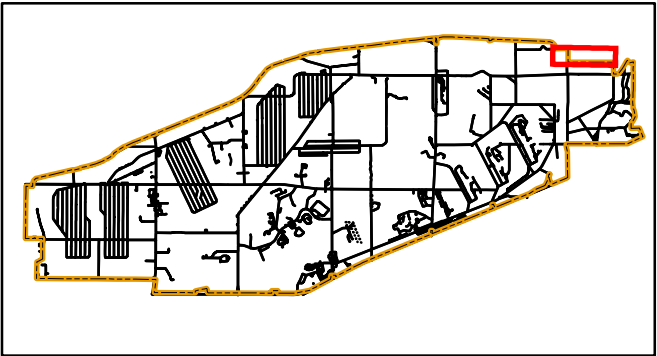
PHOTO NE30 discovered 07/21/2014

Legend

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



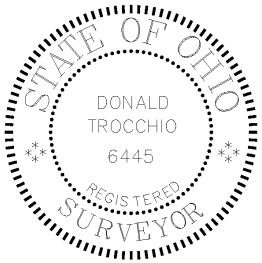
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



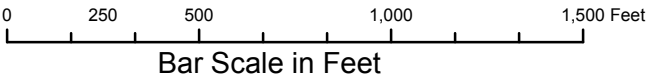
US Army Corps of Engineers

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Louisville District



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



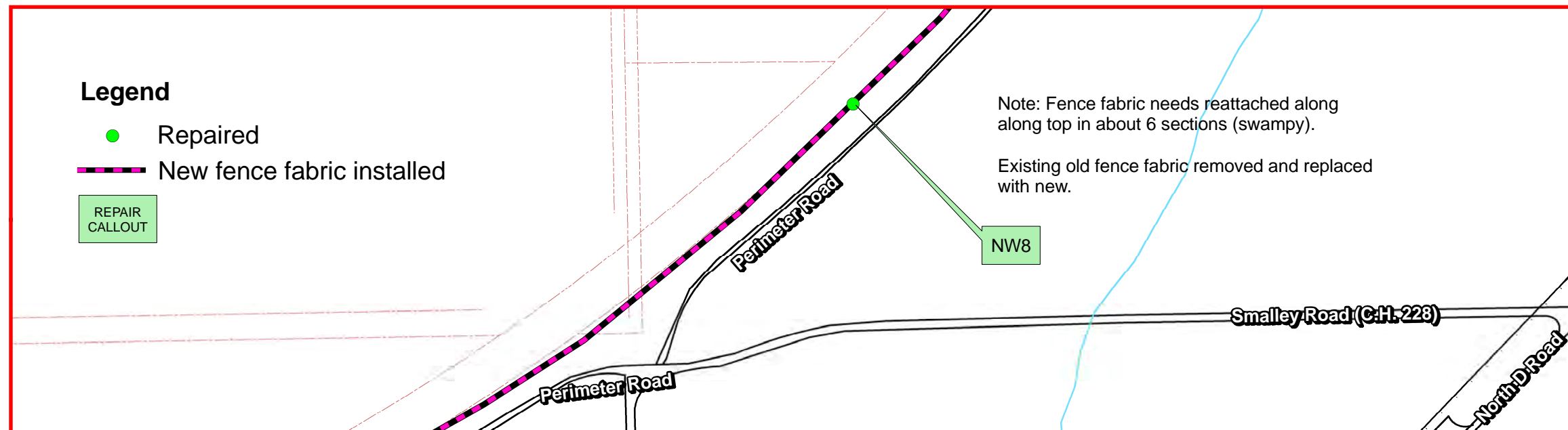
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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE30

NW (Northwest) Quadrant

DETAIL SHEET FOR NW8



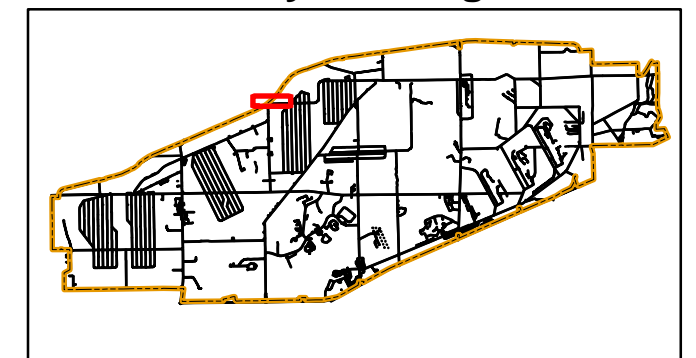
LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

Repair PHOTO NW8 dated 07/16/2014

PHOTO NW8 discovered 07/16/2013



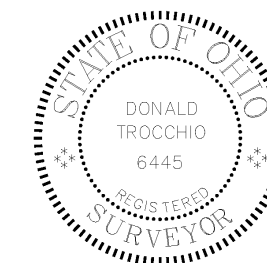
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LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



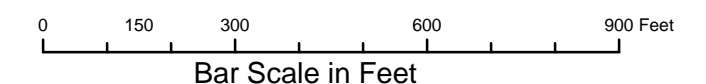
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Louisville District



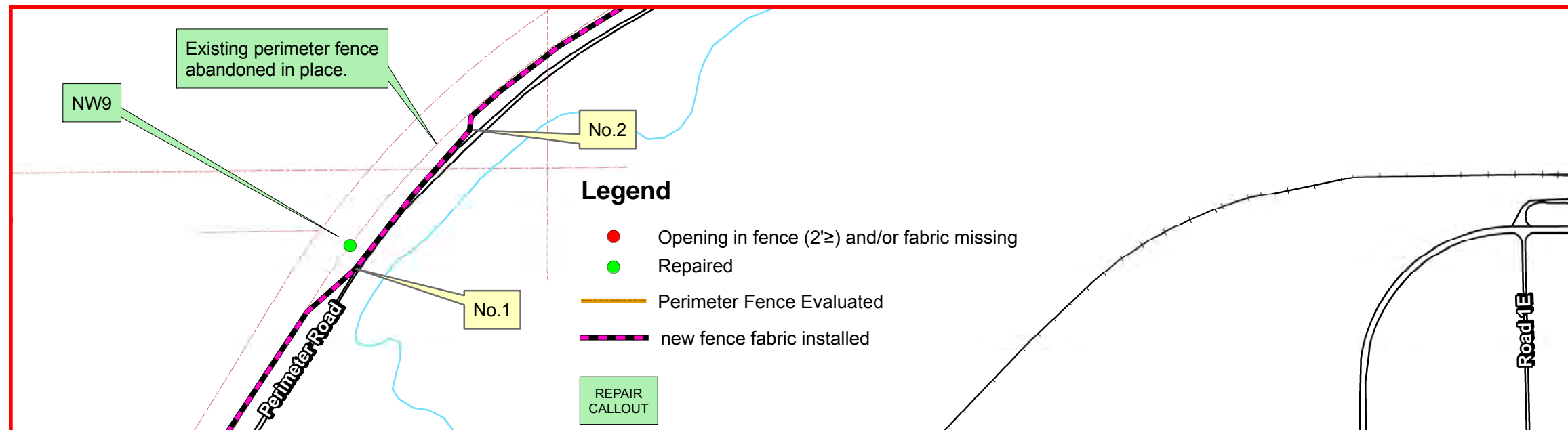
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NW8

DETAIL SHEET FOR NW9



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

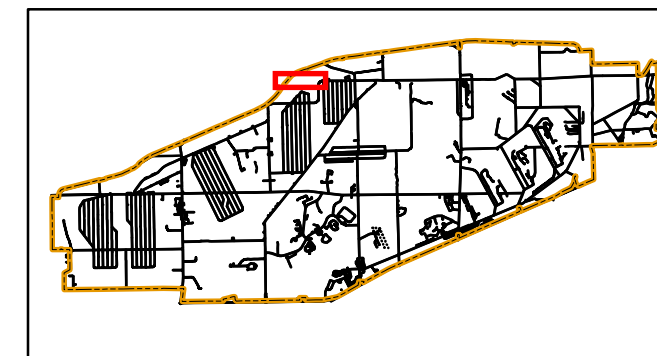
PHOTO No.2 dated April 15, 2014



PHOTO No.1 dated April 15, 2014



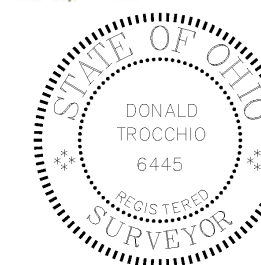
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Produced in July 2014 for:



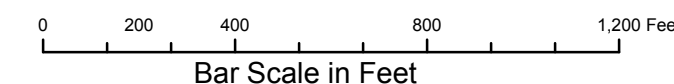
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Plane Rectangular Grid, North Zone



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DETAIL SHEET FOR NW9

DETAIL SHEET FOR NW10



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

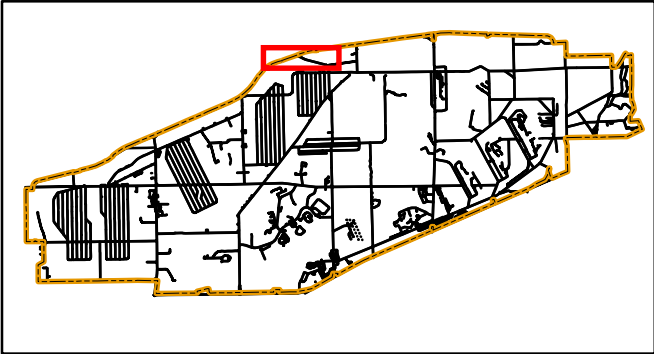
PHOTO NW10 repair 02/26/2014



PHOTO NW10 discovered 11/21/2013



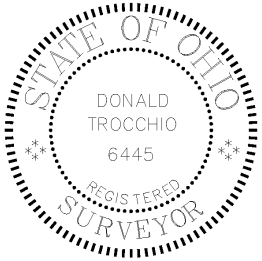
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



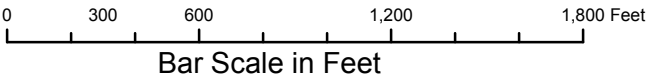
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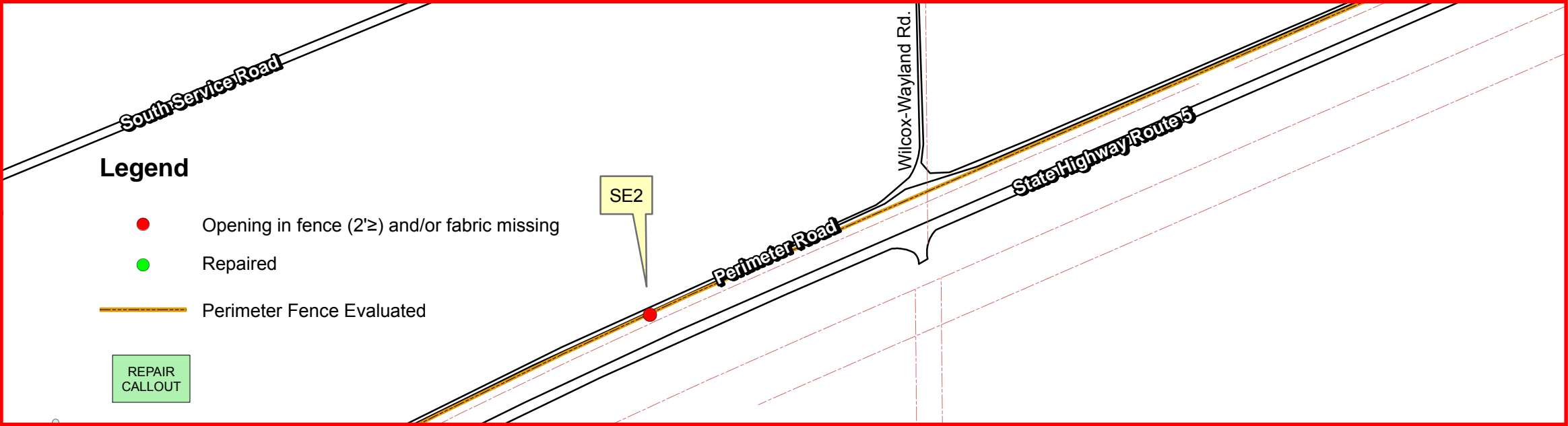
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DETAIL SHEET FOR NW10

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2

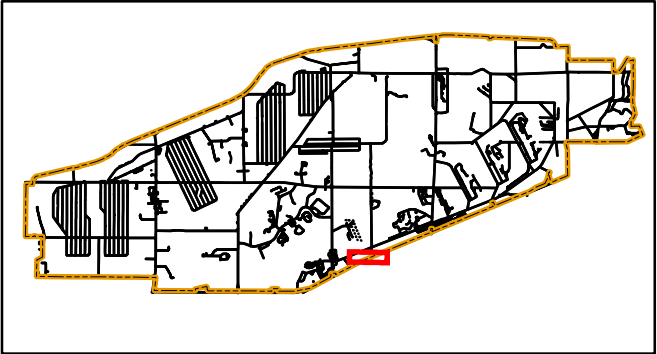


LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014
PERIMETER FENCE INSPECTION

PHOTO SE2 discovered 07/18/2013



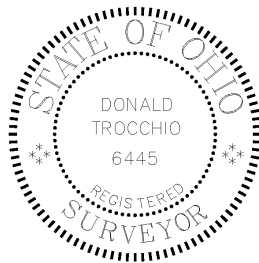
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LOCATOR MAP



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Produced in July 2014 for:



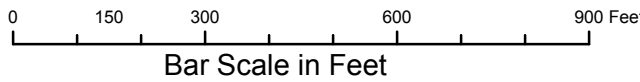
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Projection Datum is NAD83, Ohio State
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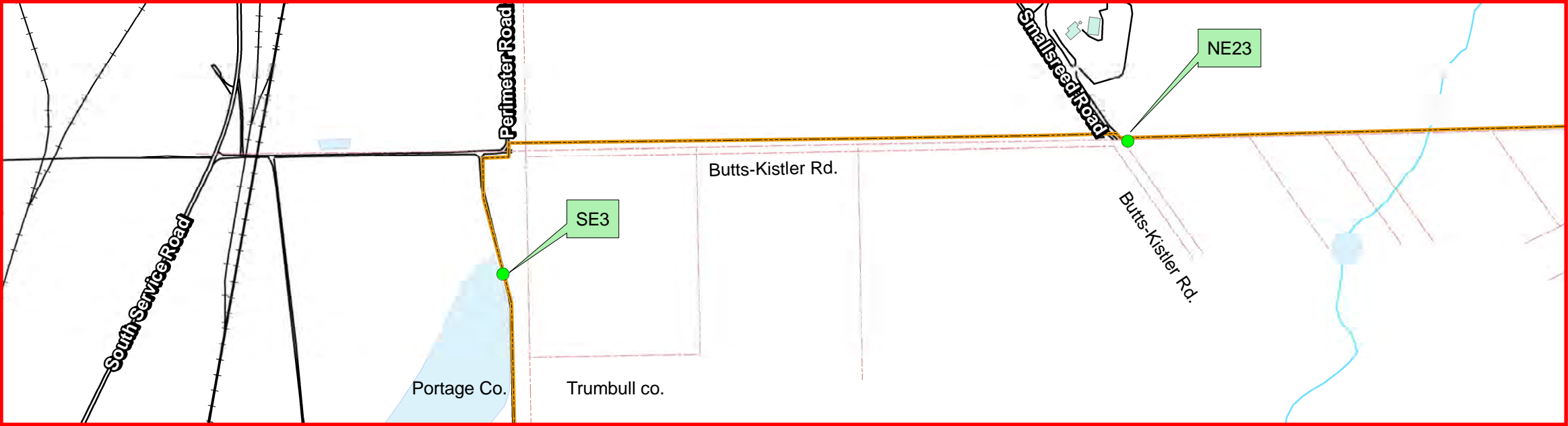


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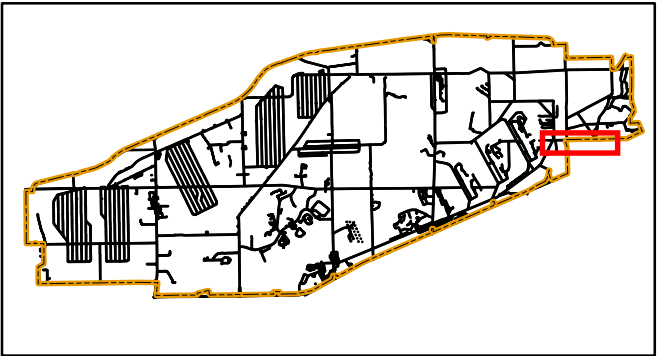
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE2

DETAIL SHEET FOR SE3



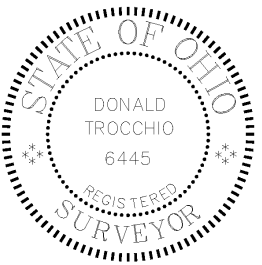
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LOCATOR MAP



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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:



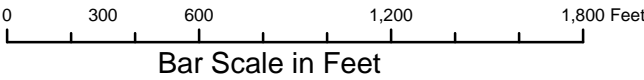
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

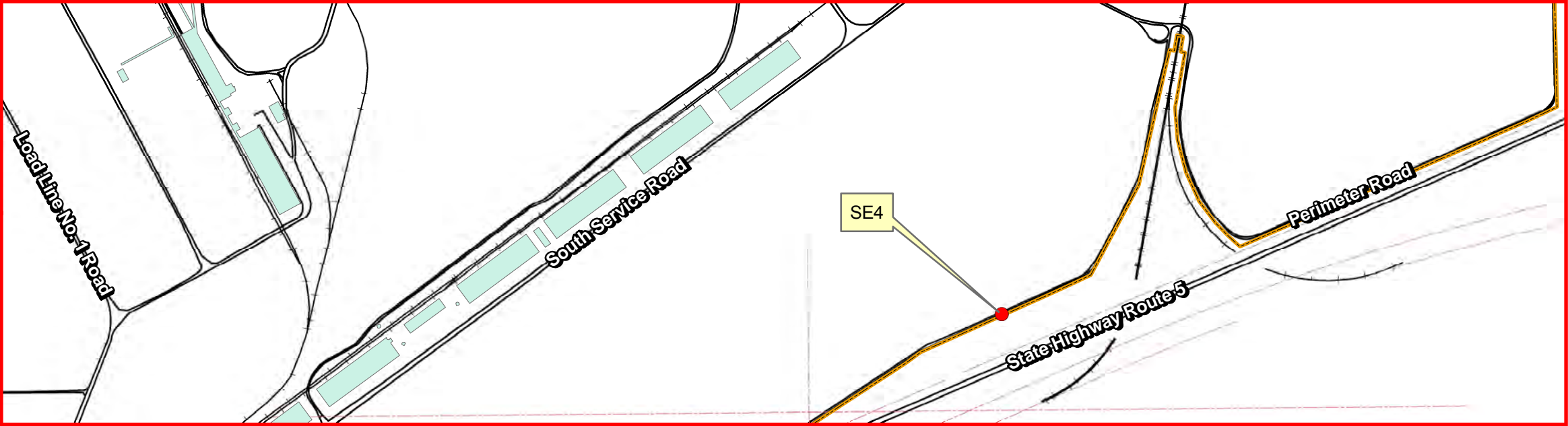


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DETAIL SHEET FOR SE3

DETAIL SHEET FOR SE4

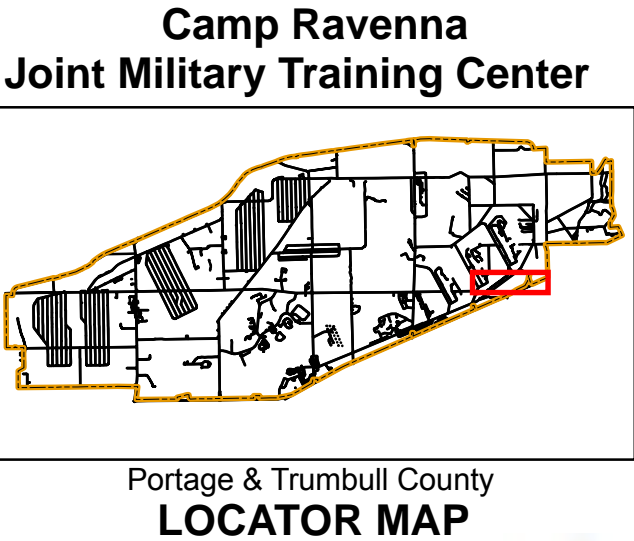


LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014
PERIMETER FENCE INSPECTION

PHOTO SE4 discovered 02/27/2014

Legend

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



Produced in July 2014 for:

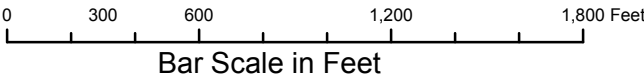


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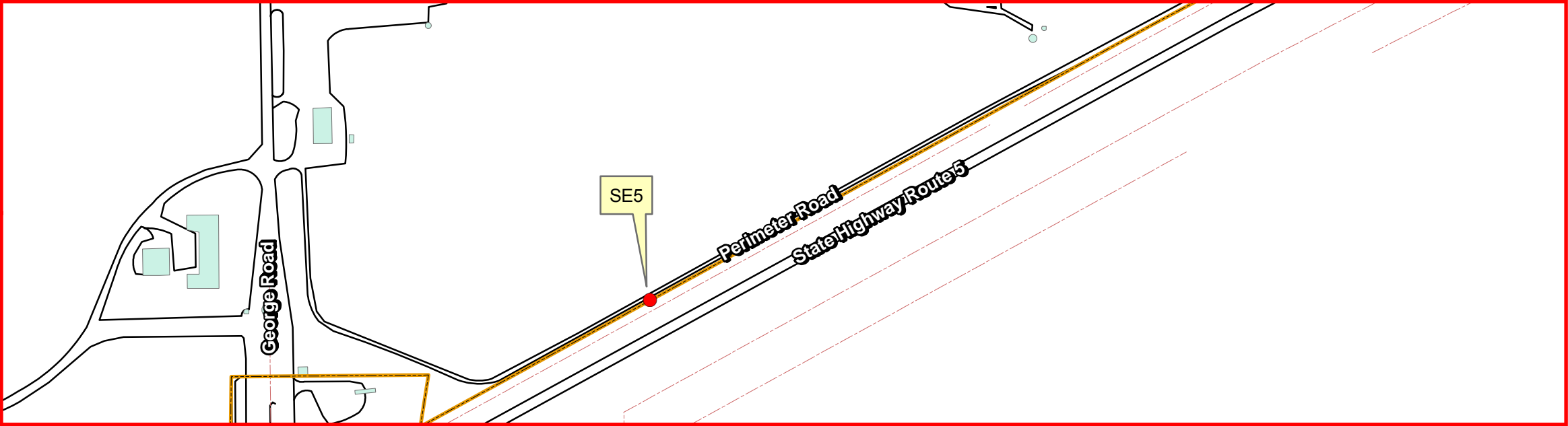
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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1438 State Route 534 SW
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 4th QUARTER FY2014
PERIMETER FENCE INSPECTION

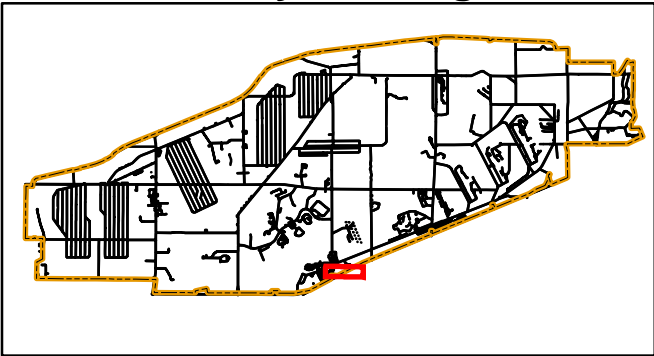
Legend

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

PHOTO SE5 discovered 04/22/2014



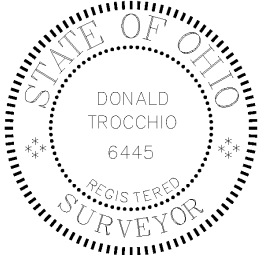
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



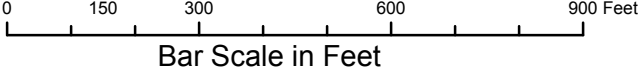
US Army Corps of
Engineers

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Louisville District



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



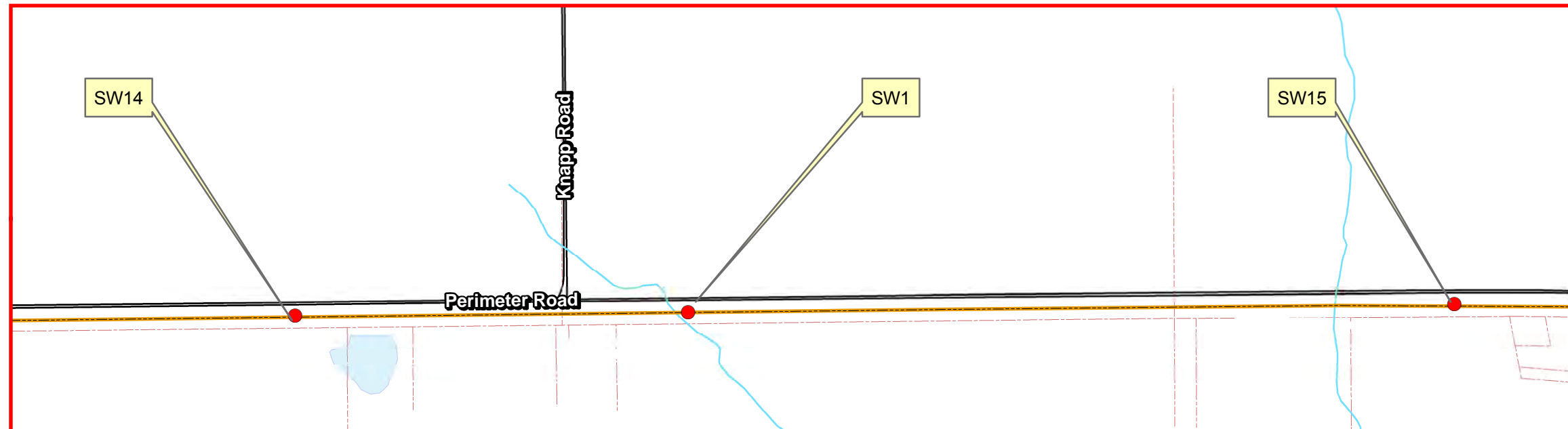
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DETAIL SHEET FOR SE5

SW (Southwest) Quadrant

DETAIL SHEET FOR SW1



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

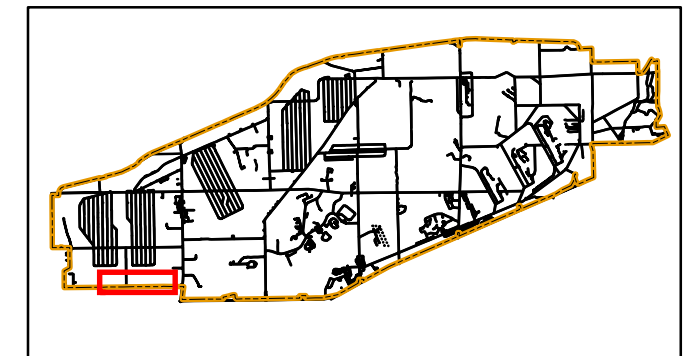
PHOTO SW1 discovered 02/07/2013

Legend

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



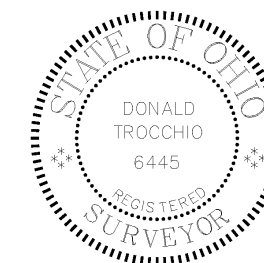
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



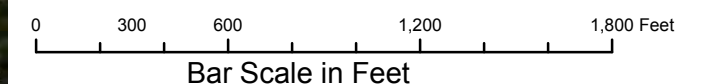
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

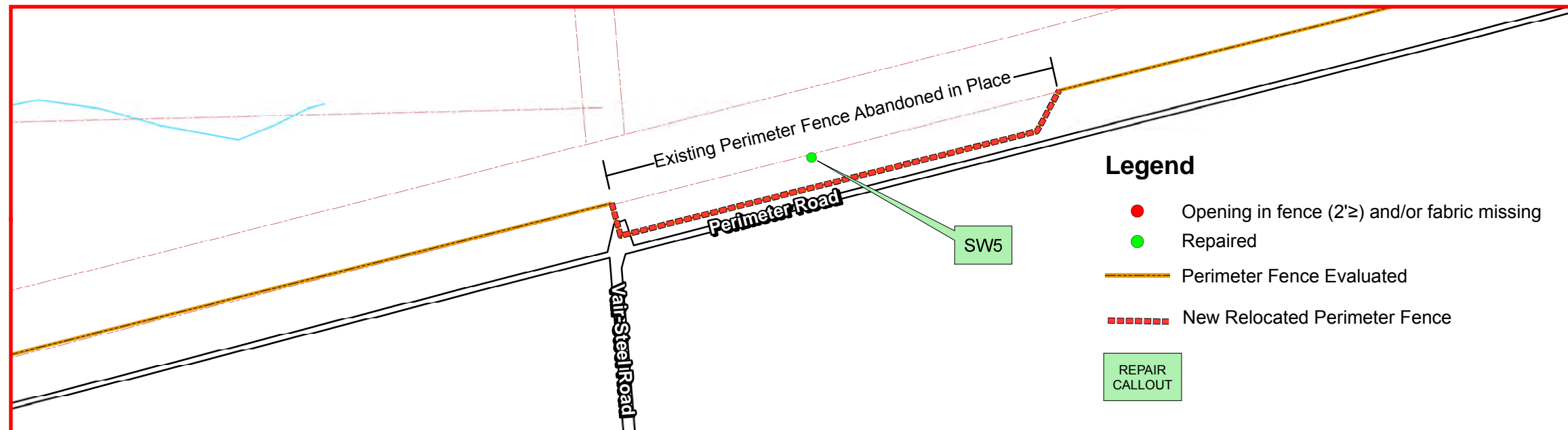


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DETAIL SHEET FOR SW1

DETAIL SHEET FOR SW5



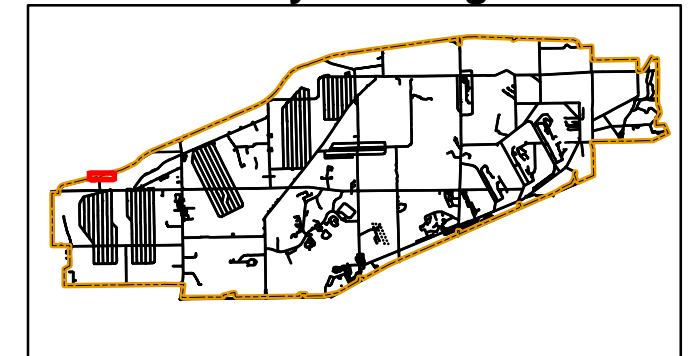
LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2014 PERIMETER FENCE INSPECTION

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

PHOTO SW5 discovered 02/12/2013



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Ohio Army National Guard



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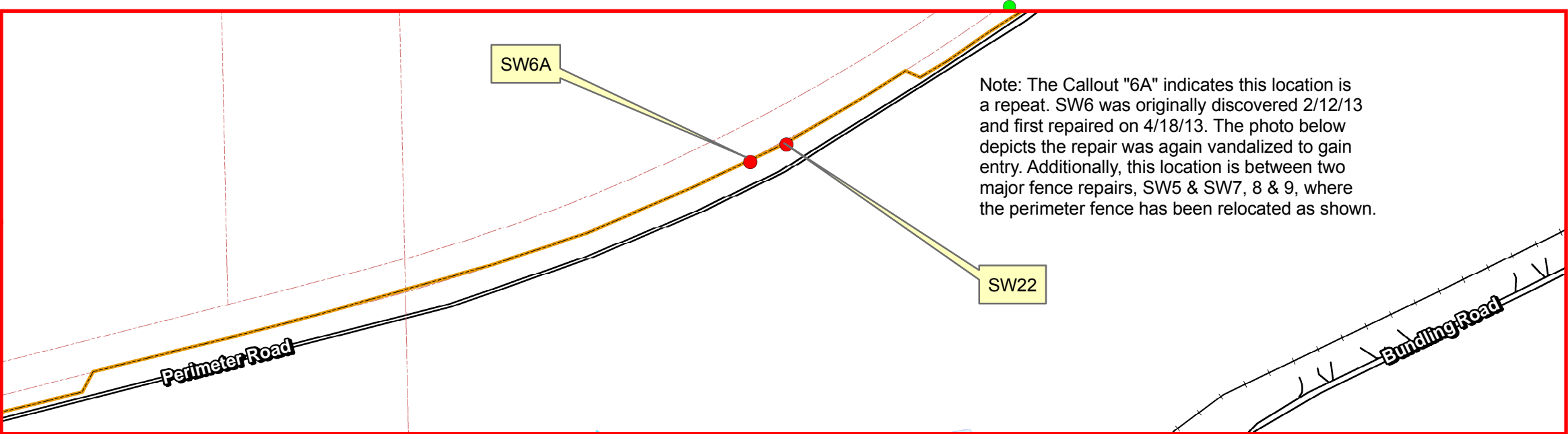
0 100 200 400 600 Feet
Bar Scale in Feet



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DETAIL SHEET FOR SW5

DETAIL SHEET FOR SW6A



Note: The Callout "6A" indicates this location is a repeat. SW6 was originally discovered 2/12/13 and first repaired on 4/18/13. The photo below depicts the repair was again vandalized to gain entry. Additionally, this location is between two major fence repairs, SW5 & SW7, 8 & 9, where the perimeter fence has been relocated as shown.

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

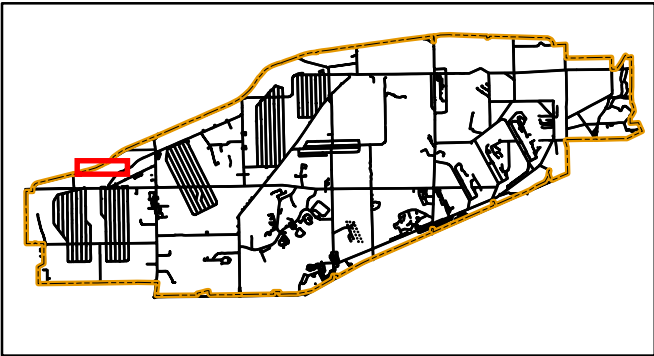
PHOTO SW6A discovered 07/16/2014

Legend

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



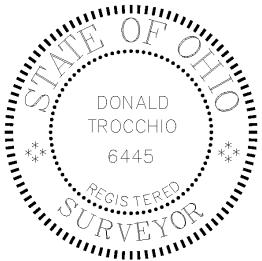
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



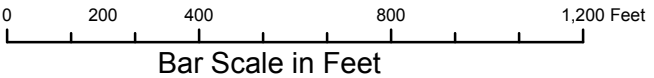
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Louisville District



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

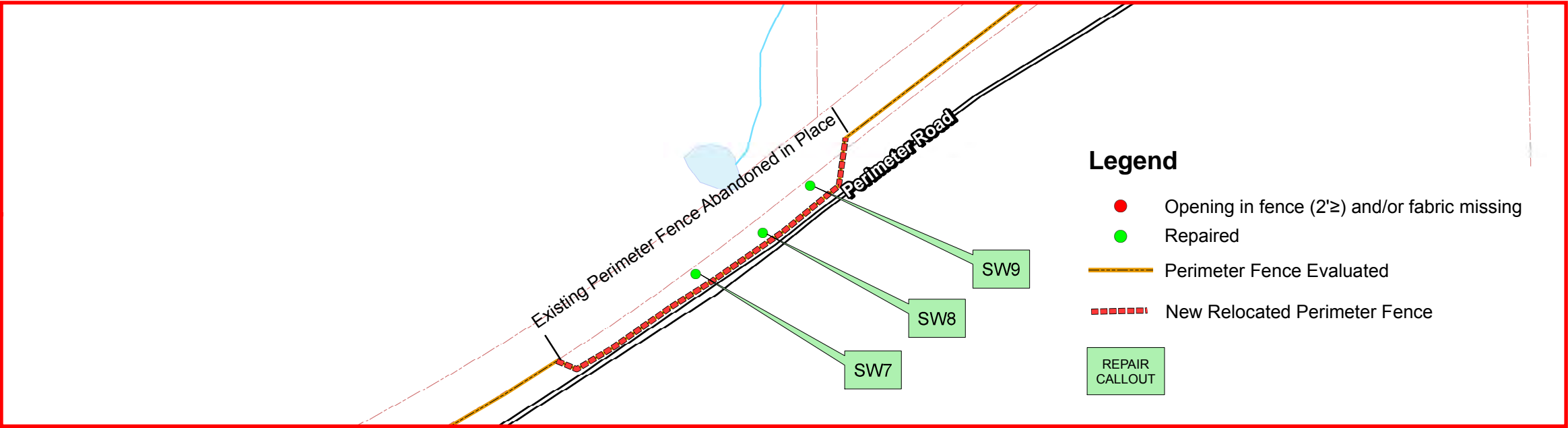


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DETAIL SHEET FOR SW6A

DETAIL SHEET FOR SW7, SW8 and SW9



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

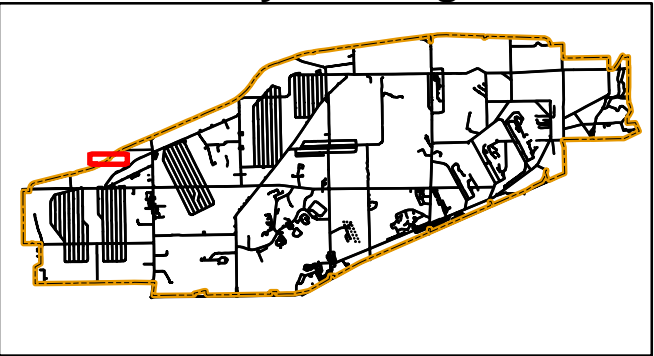
REPAIR PHOTO SW7 DEPICTING NEW RELOCATED FENCE
dated 11/19/2013



PHOTO SW7 discovered 02/12/2013



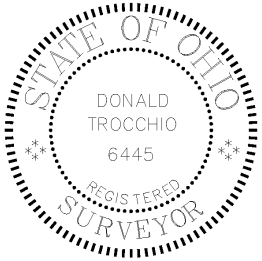
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0 150 300 600 900 Feet
Bar Scale in Feet

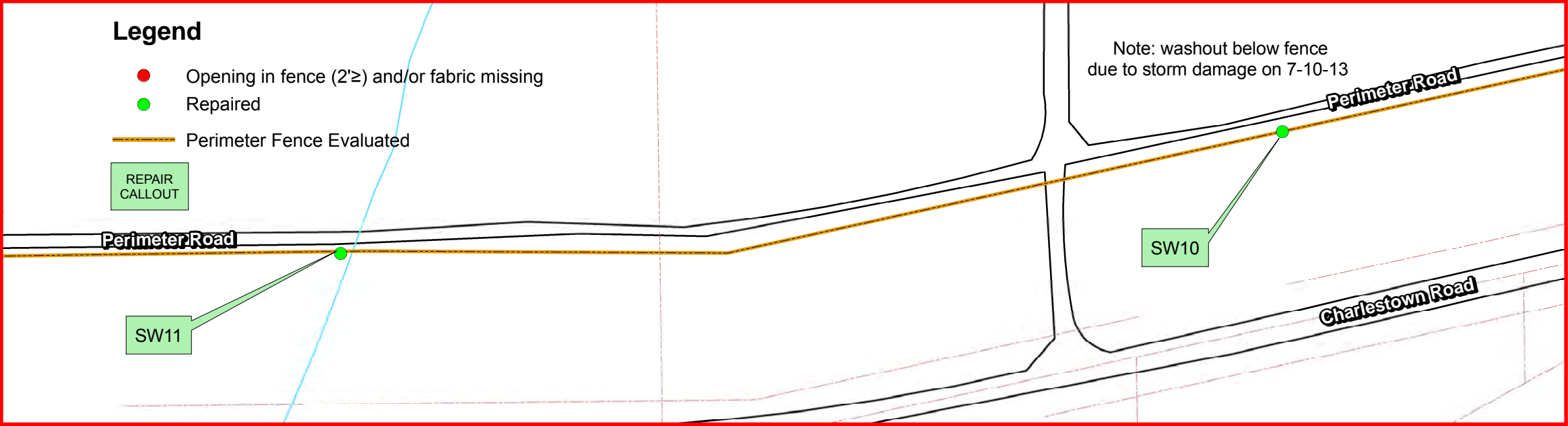


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DETAIL SHEET FOR SW7, SW8, SW9

DETAIL SHEET FOR SW10



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

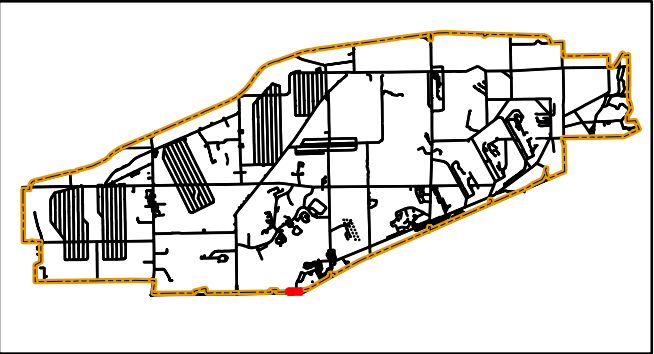
PHOTO SW10 repair 02/24/2014



PHOTO SW10 discovered 07/15/2013



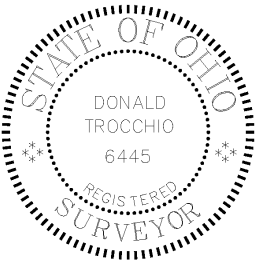
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



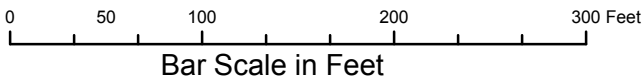
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Plane Rectangular Grid, North Zone

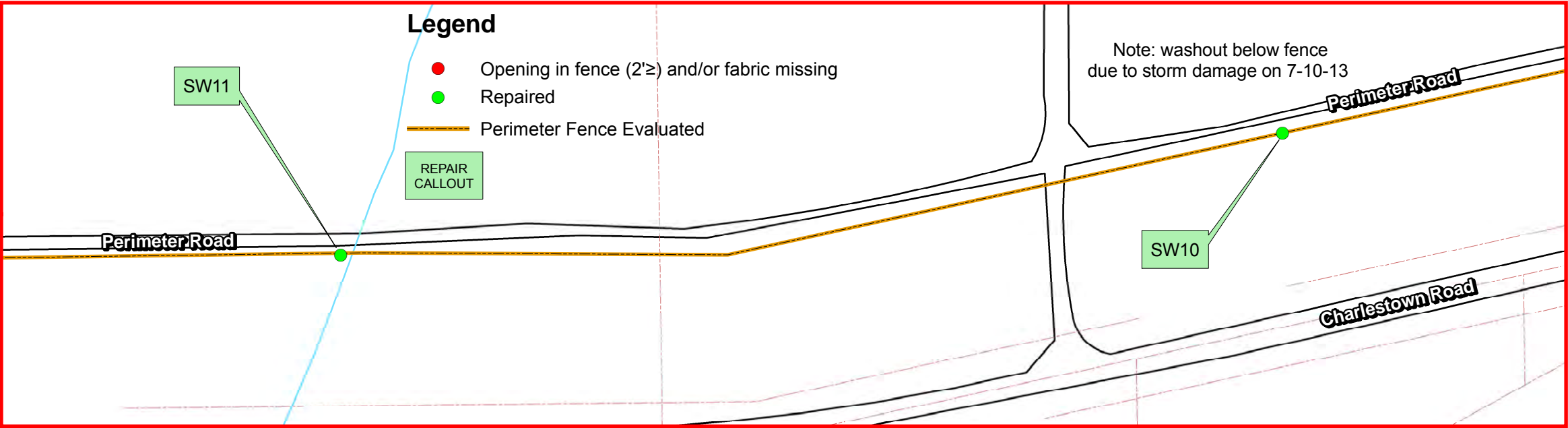


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DETAIL SHEET FOR SW10

DETAIL SHEET FOR SW11



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

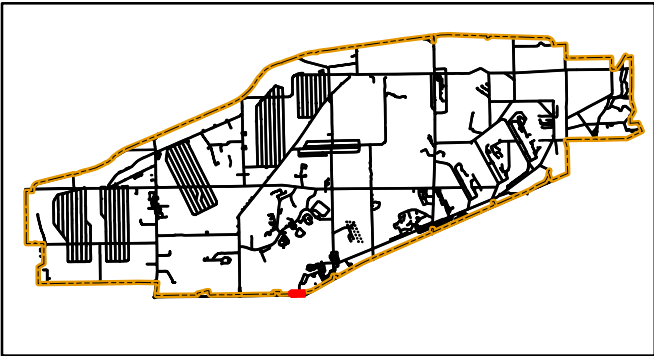
PHOTO SW11 repair 02/24/2014



PHOTO SW11 discovered 07/15/2013



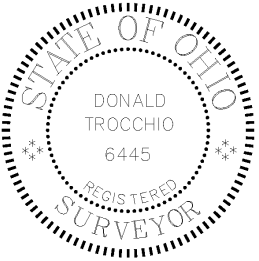
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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Louisville District



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

0 50 100 200 300 Feet
Bar Scale in Feet

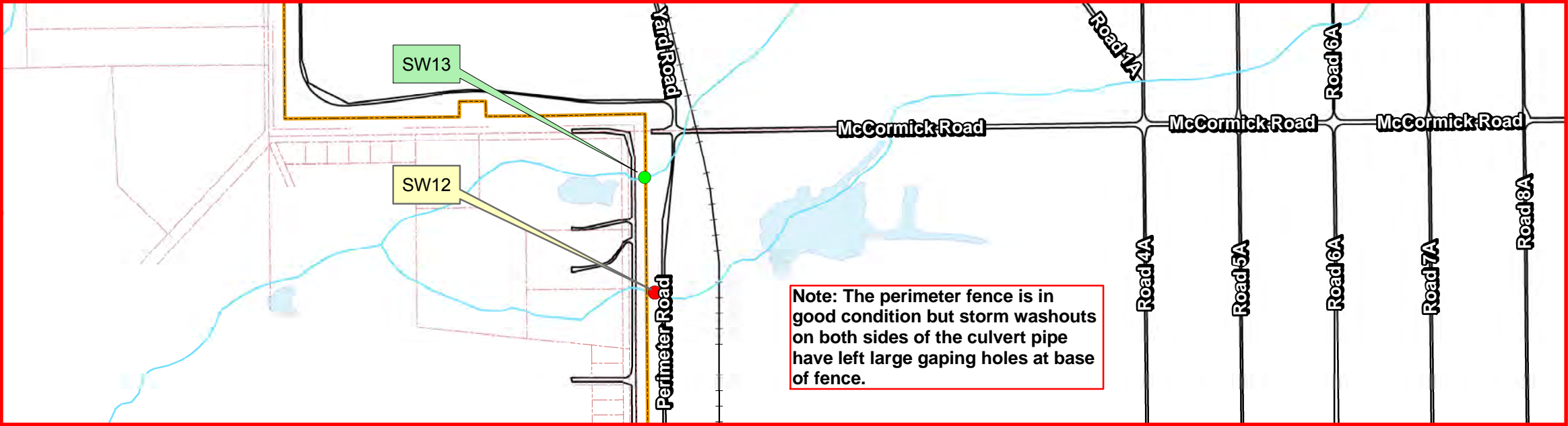


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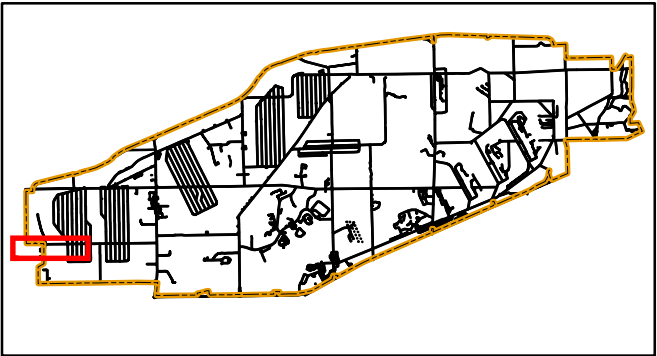
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW11

DETAIL SHEET FOR SW12



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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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Louisville District



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

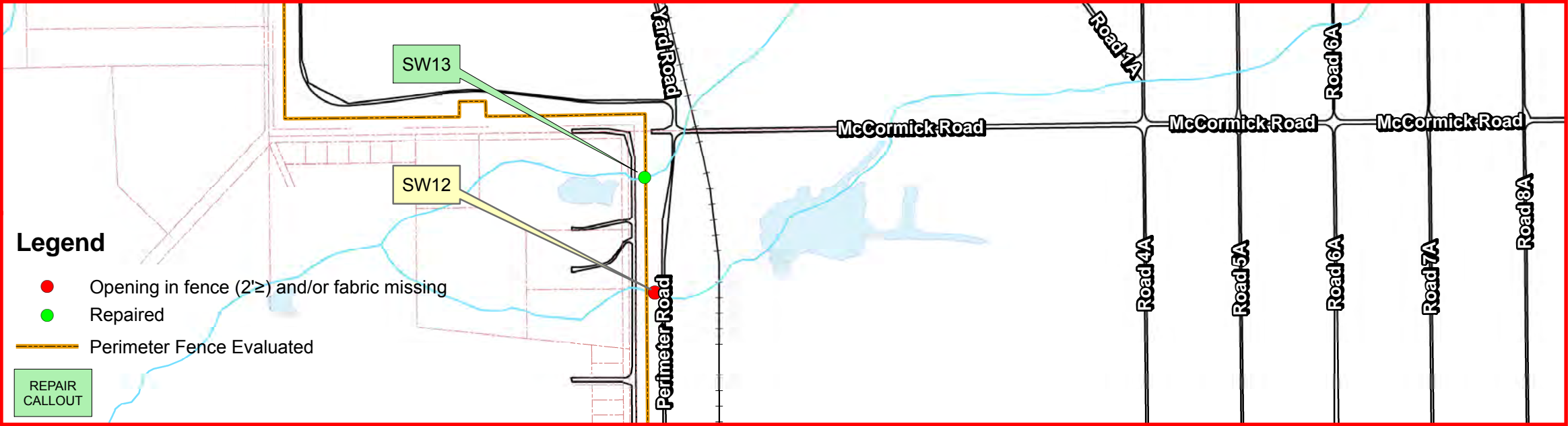


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DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW13



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

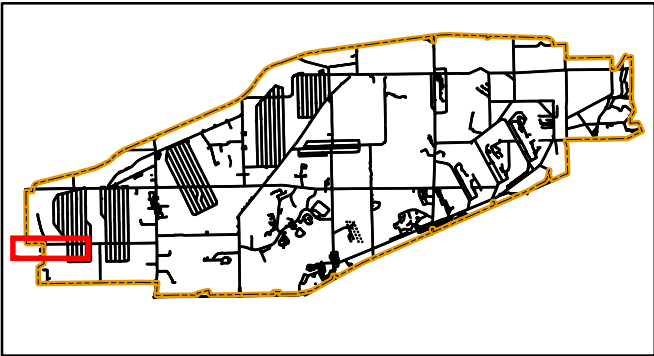
PHOTO SW13 repair 02/24/2014



PHOTO SW13 discovered 11/18/2013



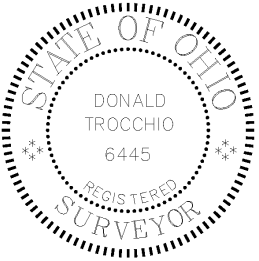
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



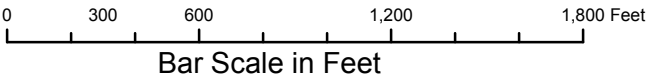
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
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Louisville District



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

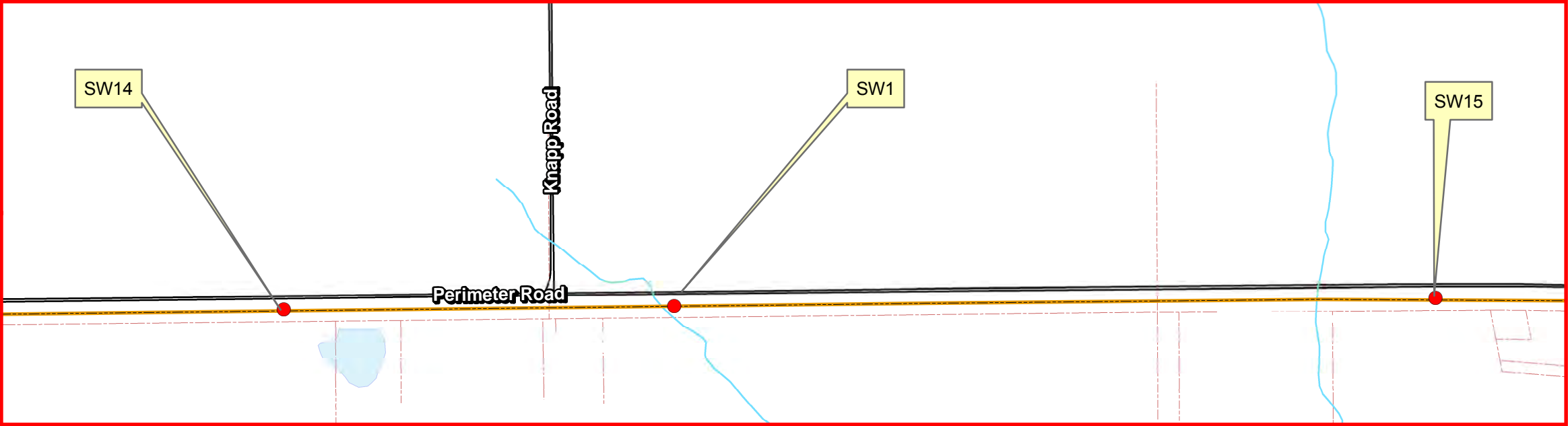


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW13

DETAIL SHEET FOR SW14



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

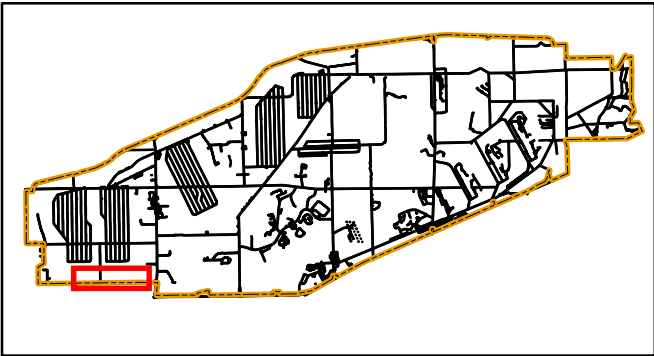
PHOTO SW14 discovered 04/14/2014

Legend

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



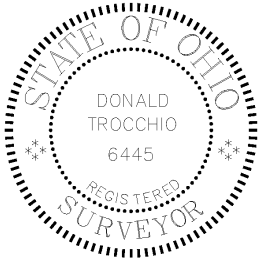
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



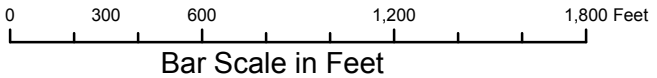
**US Army Corps of
Engineers**

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Louisville District



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

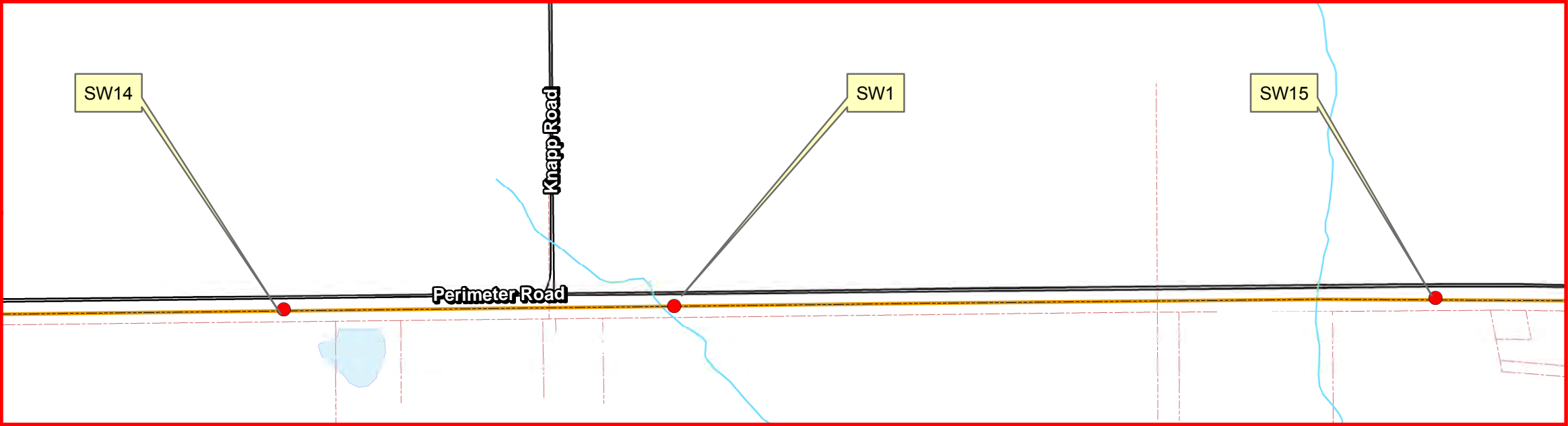


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DETAIL SHEET FOR SW14

DETAIL SHEET FOR SW15



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

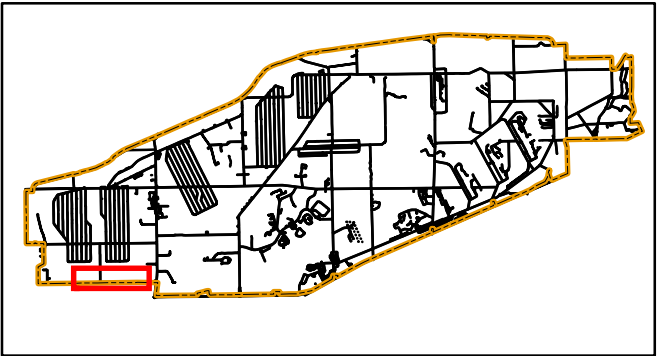
PHOTO SW15 discovered 07/15/2014

Legend

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



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Portage & Trumbull County
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Ohio Army National Guard



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

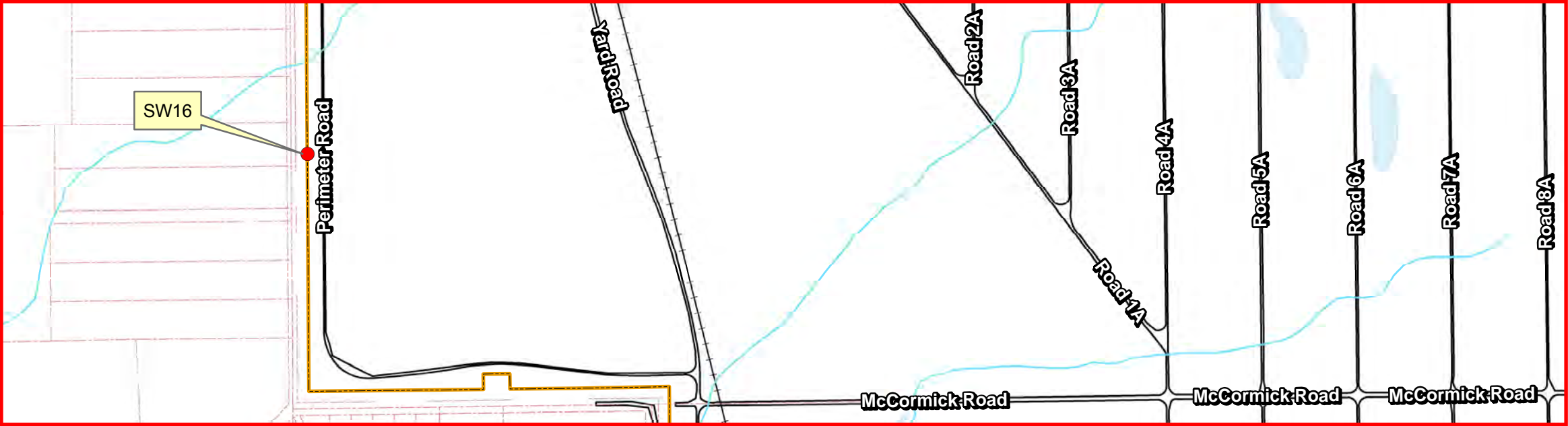


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DETAIL SHEET FOR SW15

DETAIL SHEET FOR SW16



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

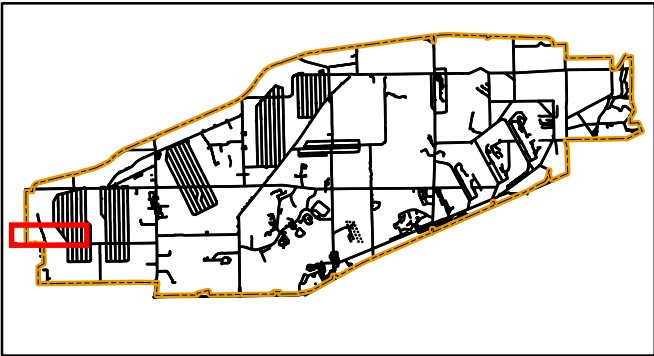
PHOTO SW16 discovered 07/15/2014

Legend

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



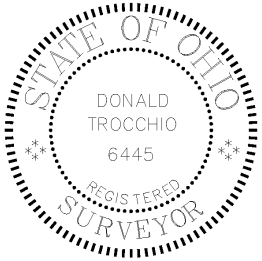
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



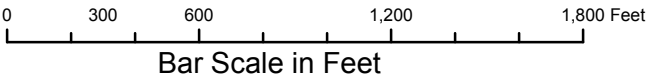
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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

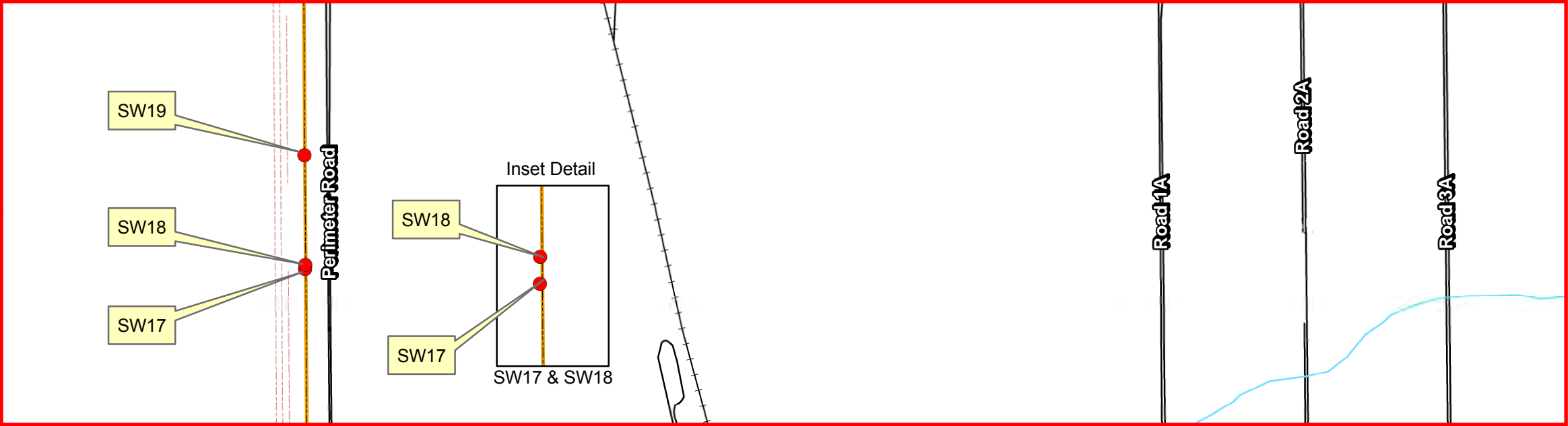


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DETAIL SHEET FOR SW16

DETAIL SHEET FOR SW17



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

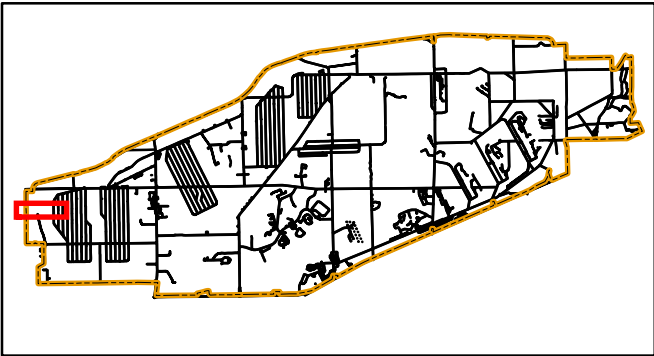
PHOTO SW17 discovered 07/15/2014

Legend

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



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Portage & Trumbull County
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Ohio Army National Guard



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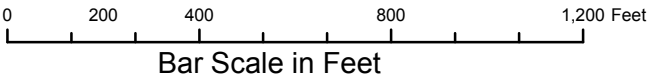
US Army Corps of Engineers

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

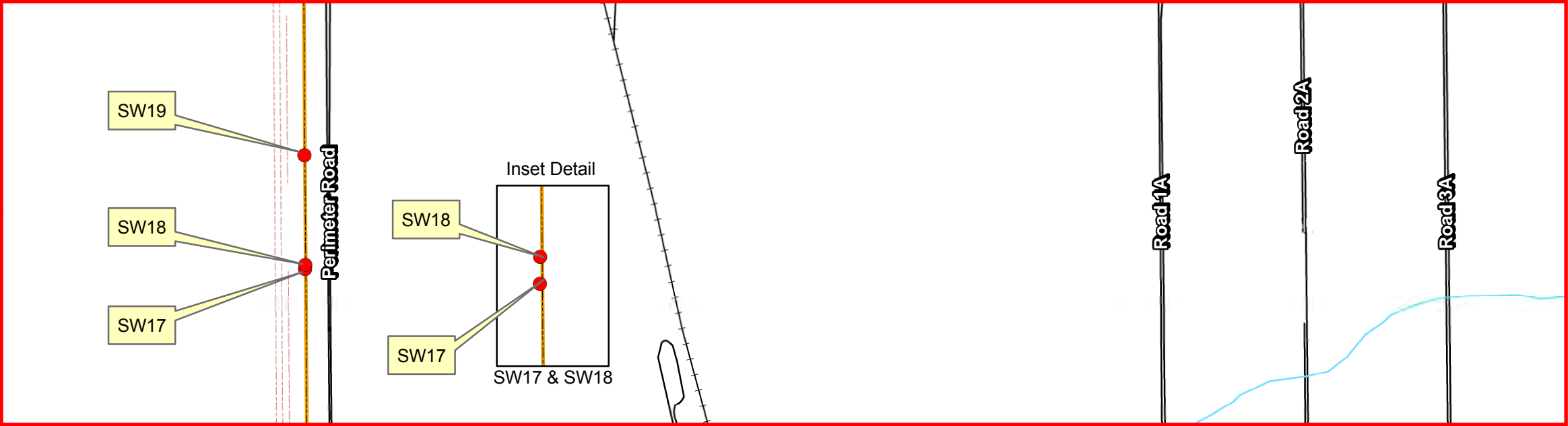


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DETAIL SHEET FOR SW17

DETAIL SHEET FOR SW18



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

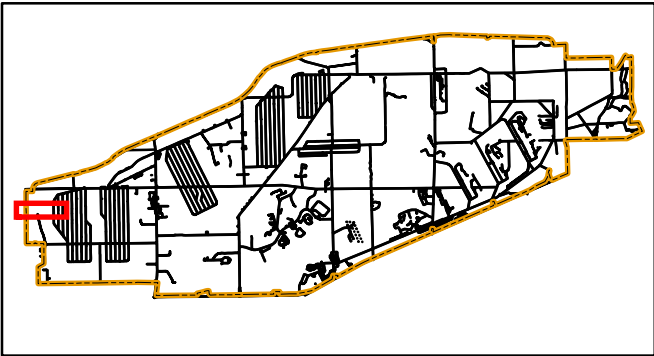
PHOTO SW18 discovered 07/15/2014

Legend

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



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Ohio Army National Guard



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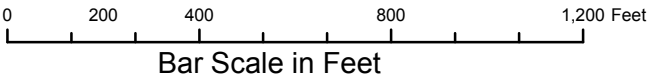
US Army Corps of Engineers

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

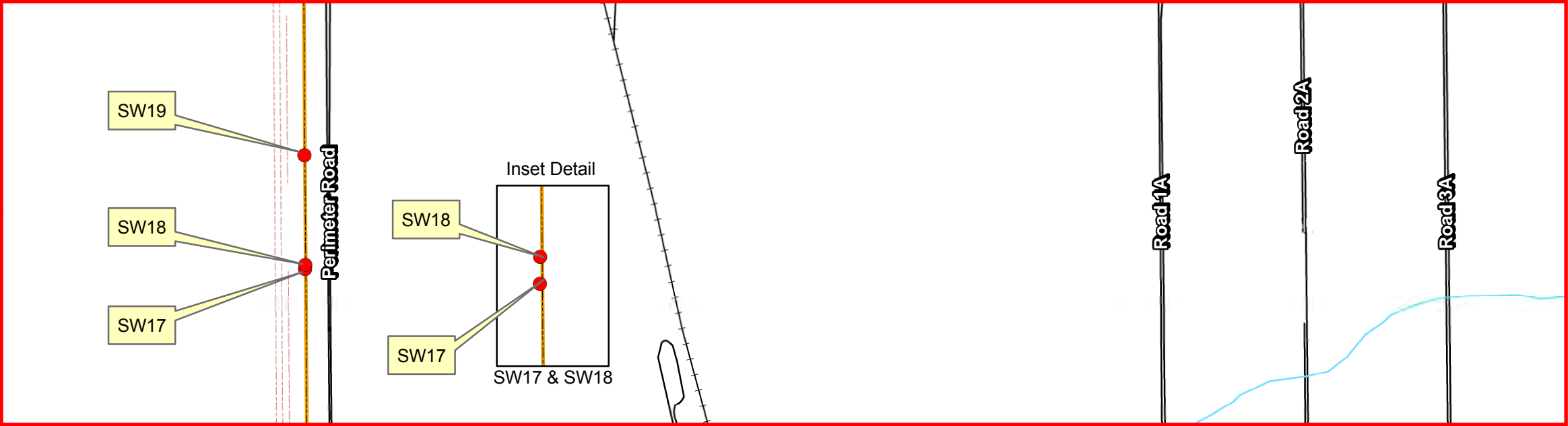


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DETAIL SHEET FOR SW18

DETAIL SHEET FOR SW19



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

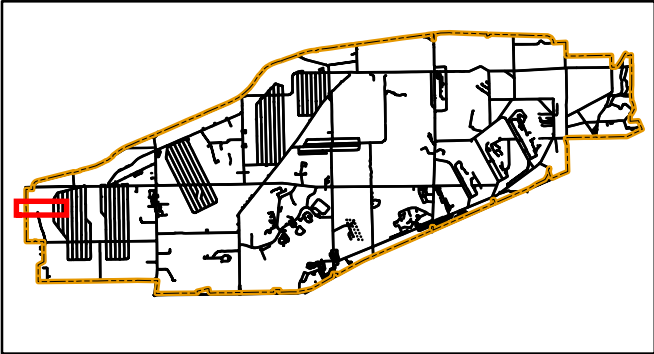
PHOTO SW19 discovered 07/15/2014

Legend

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



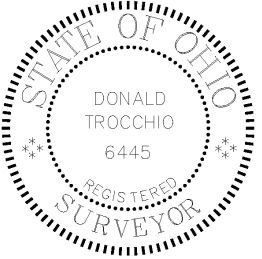
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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



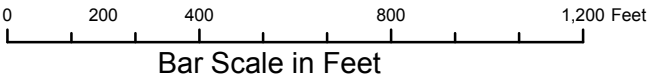
US Army Corps of Engineers

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

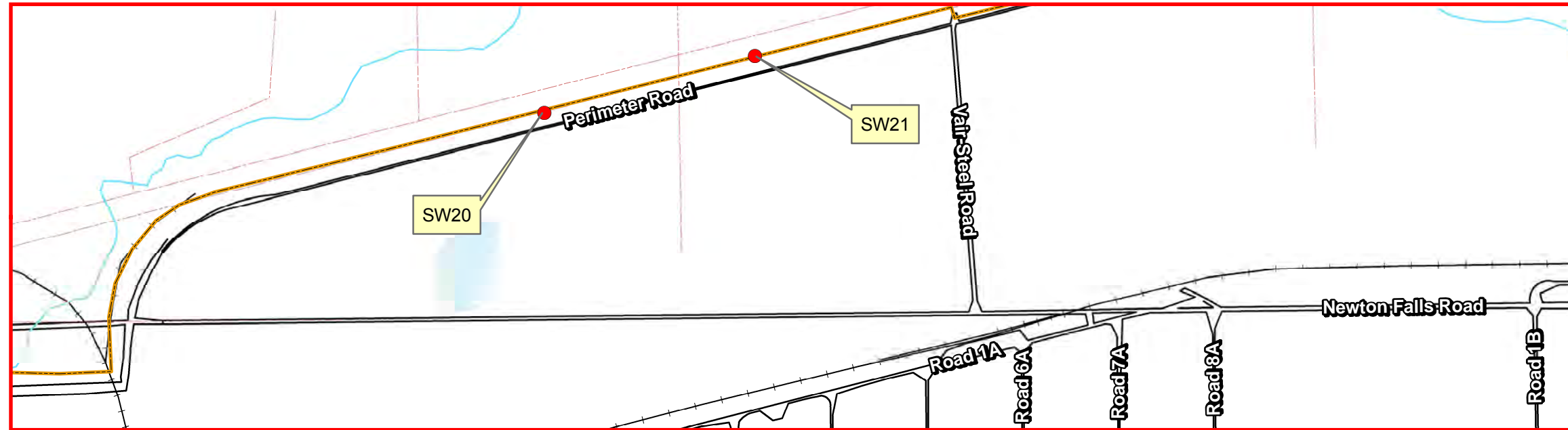


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DETAIL SHEET FOR SW19

DETAIL SHEET FOR SW20



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

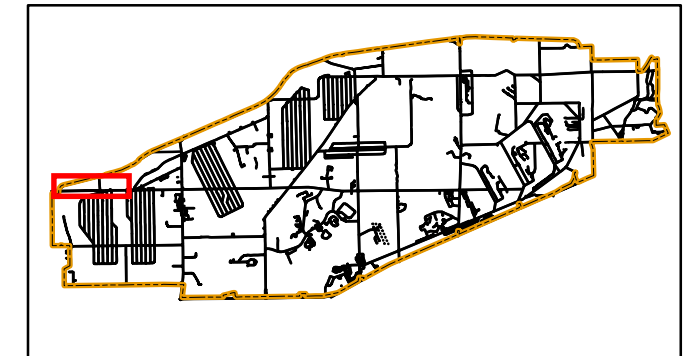
PHOTO SW20 discovered 07/15/2014

Legend

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



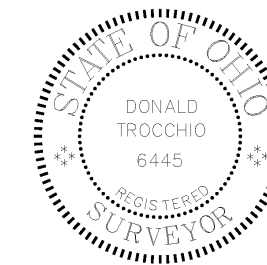
Camp Ravenna Joint Military Training Center



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

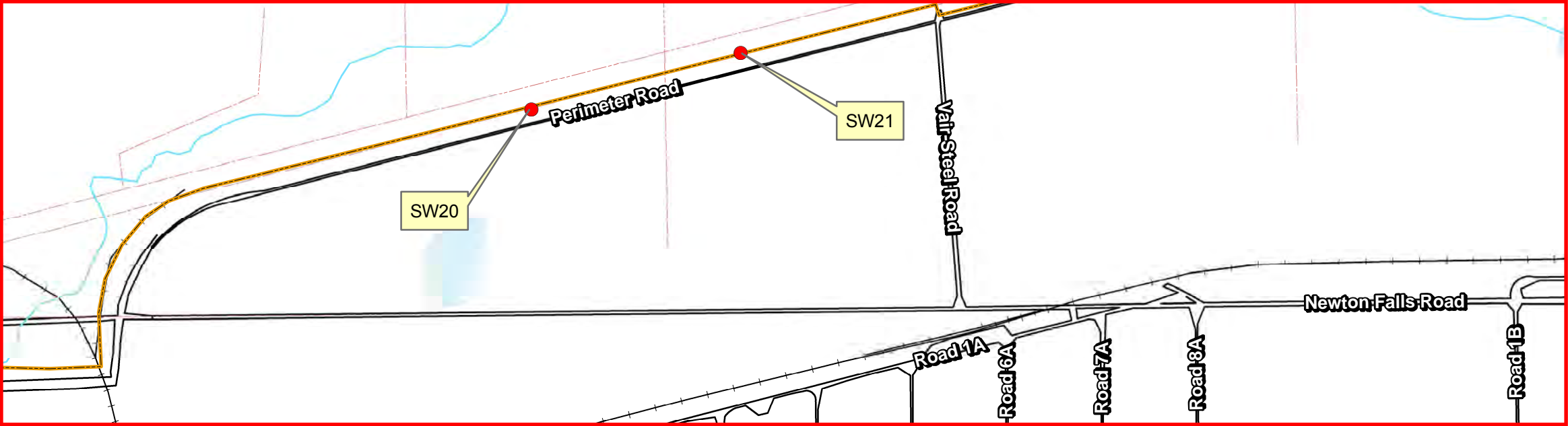
0 300 600 1,200 1,800 Feet
Bar Scale in Feet



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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

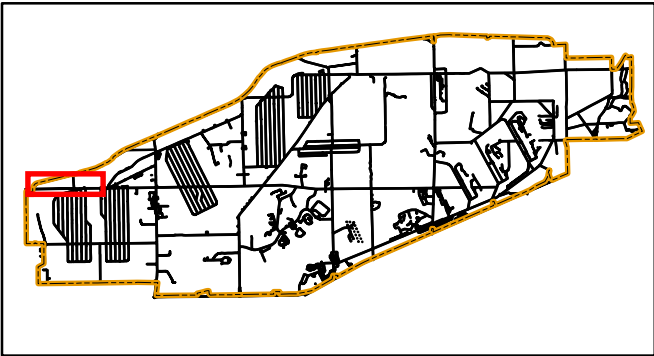
PHOTO SW21 discovered 07/15/2014

Legend

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



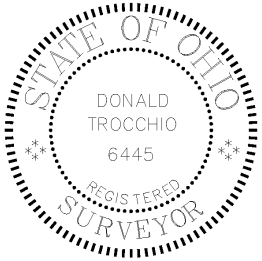
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



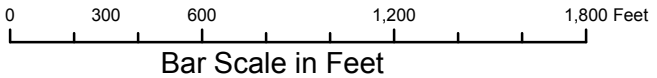
**US Army Corps of
Engineers**

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Louisville District



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

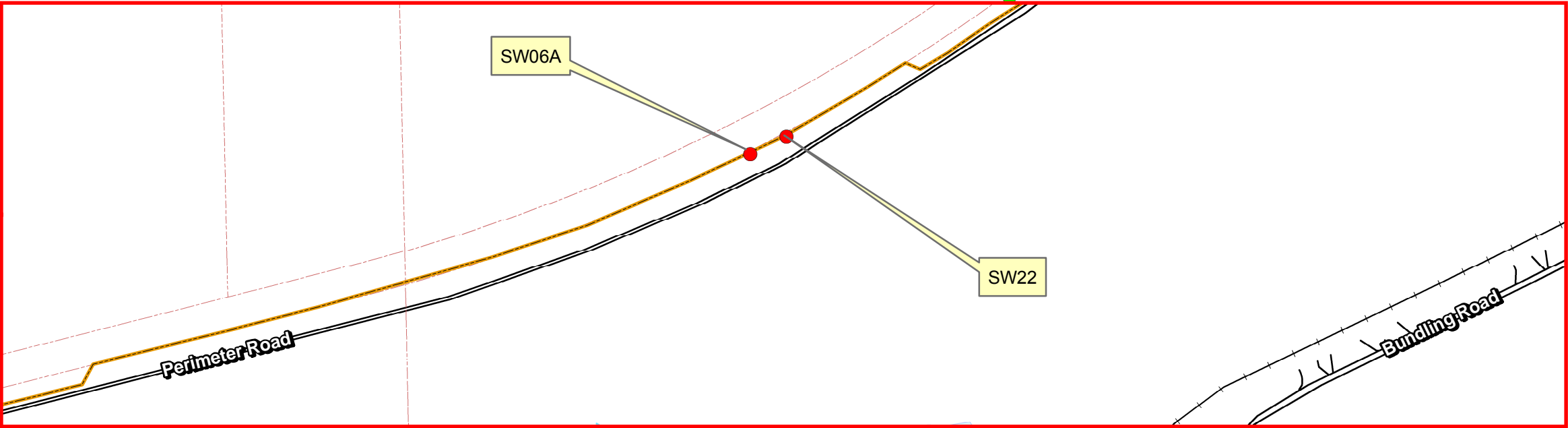


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DETAIL SHEET FOR SW21

DETAIL SHEET FOR SW22



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

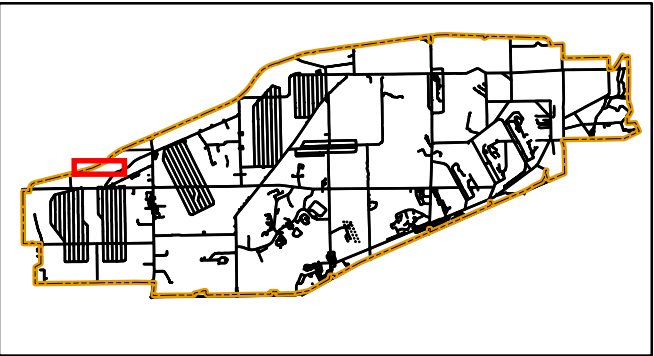
PHOTO SW22 discovered 07/16/2014

Legend

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



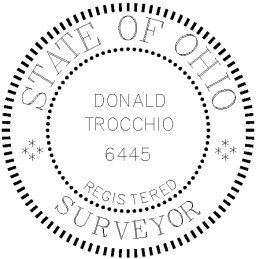
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



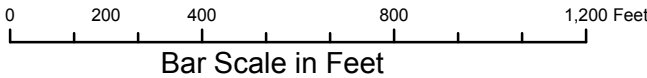
**US Army Corps of
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Louisville District



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



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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

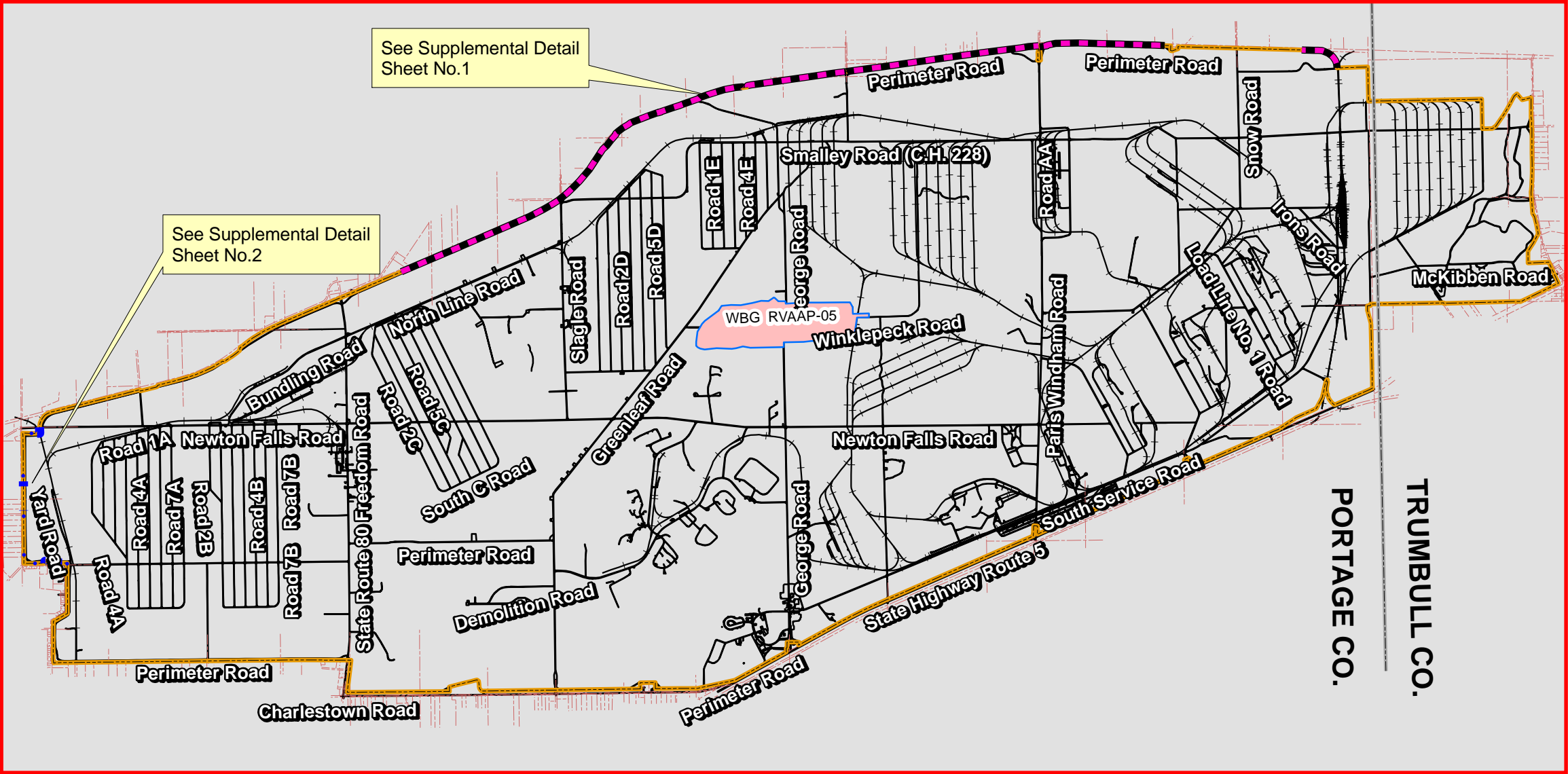
Supplemental Index Map No. 1

Supplemental Detail Sheets

Camp Ravenna Fence Repair Log

Supplemental Index Map No. 1
Supplemental Detail Sheets

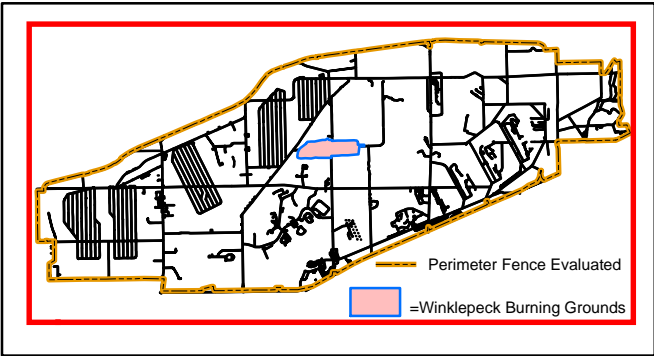
WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 4th Qtr. FY 2014



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)

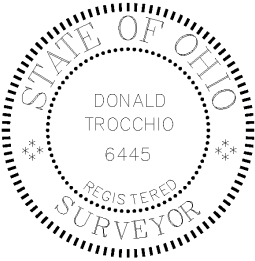
**Camp Ravenna
Joint Military Training Center**



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:

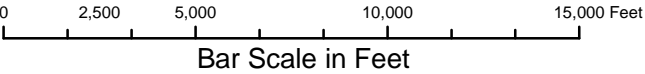


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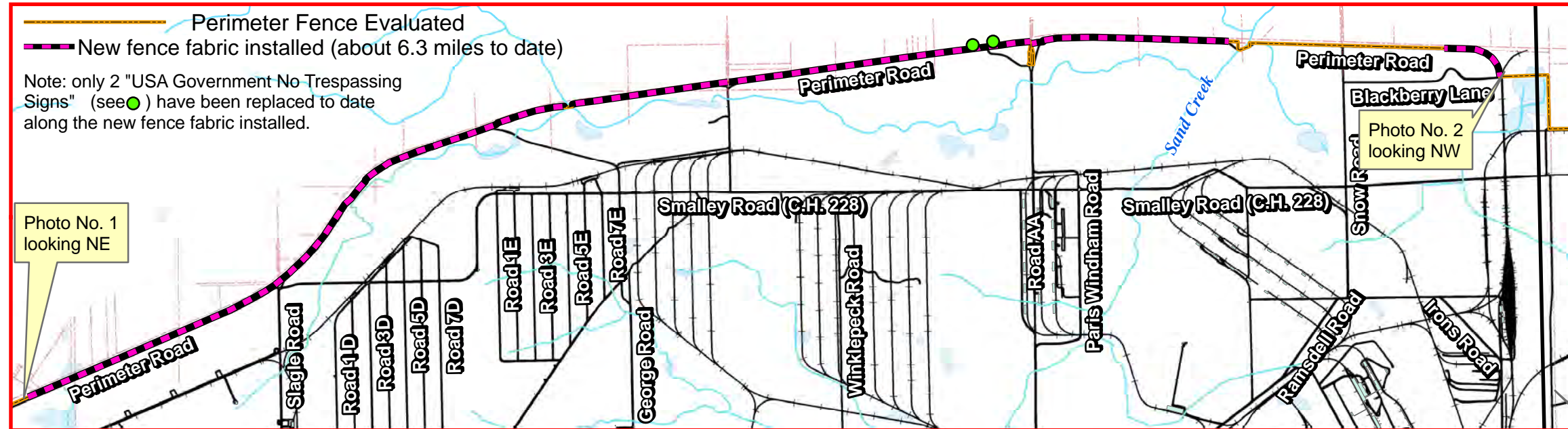
Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone



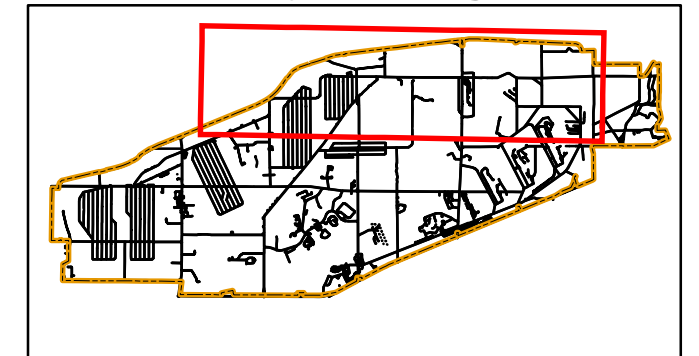
Camp Ravenna JMTC
1438 State Route 534 SW
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don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL INDEX MAP NO.1

SUPPLEMENTAL DETAIL SHEET NO.1



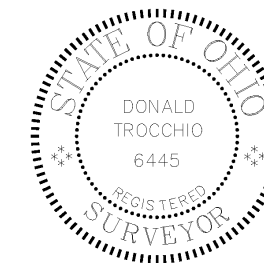
Camp Ravenna Joint Military Training Center



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:

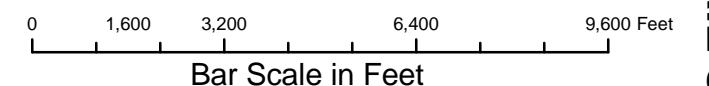


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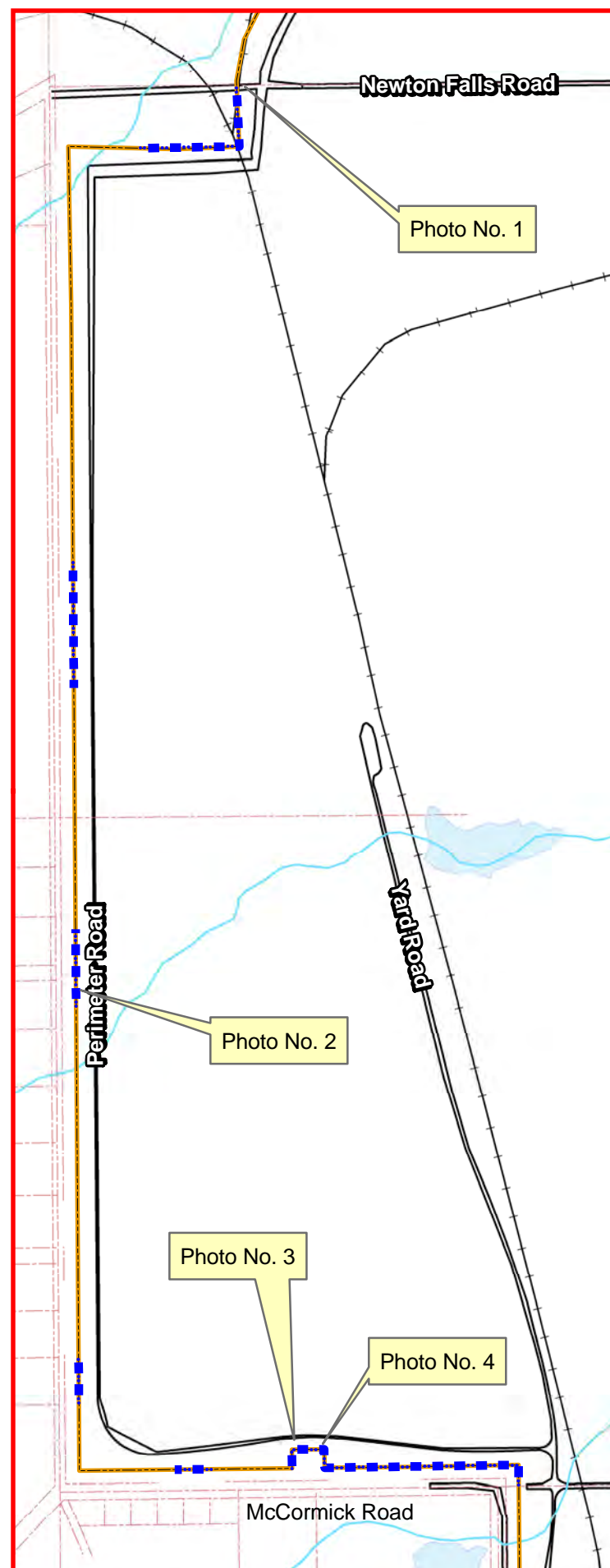


Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



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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

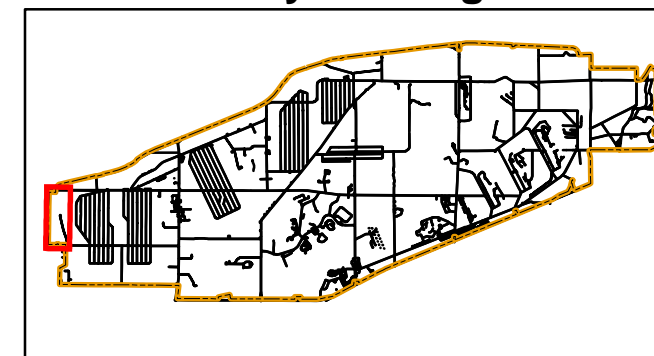


PHOTO NO.4 02/25/2014

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

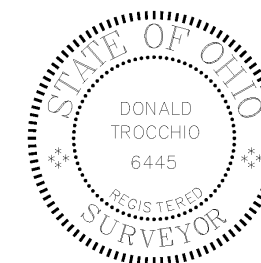
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in July 2014 for:



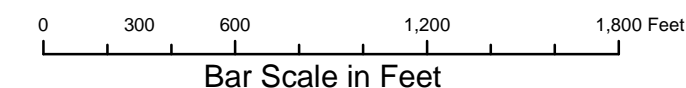
US Army Corps of Engineers

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Louisville District



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



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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

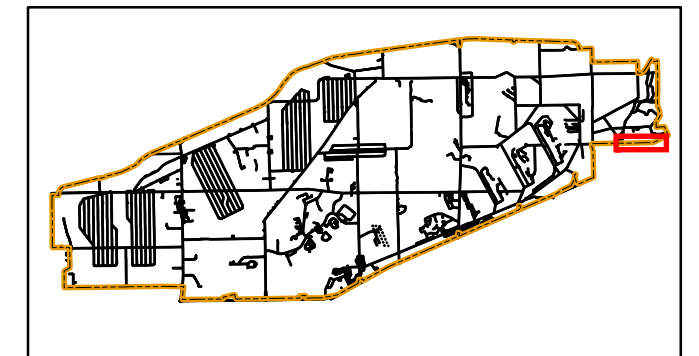
Legend

— Perimeter Fence Evaluated

Typical Existing Signage



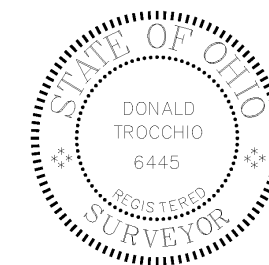
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Portage & Trumbull County
LOCATOR MAP



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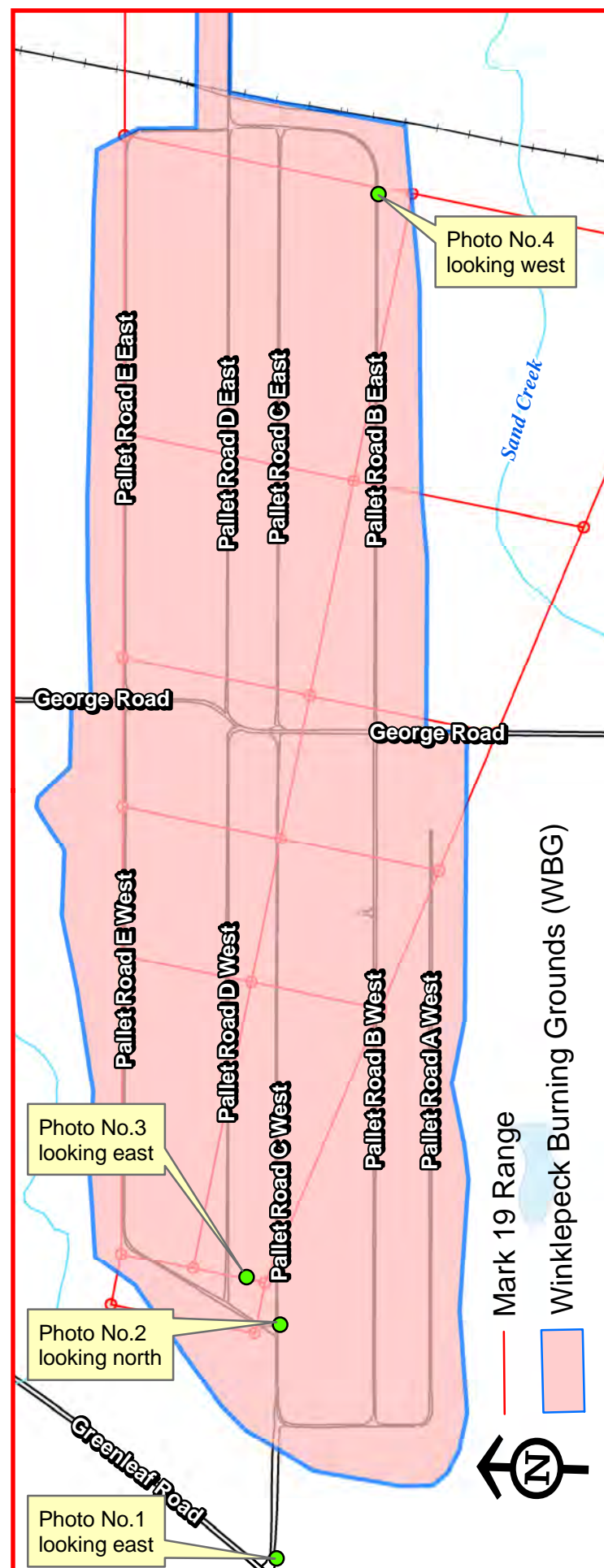
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 200 400 800 1,200 Feet
Bar Scale in Feet



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SUPPLEMENTAL DETAIL SHEET NO.3



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



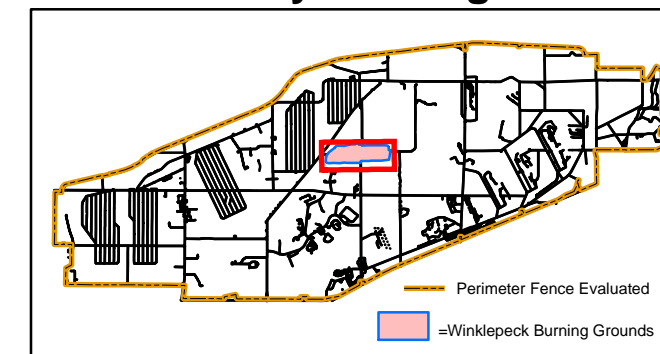
PHOTO No.1 07/23/2014



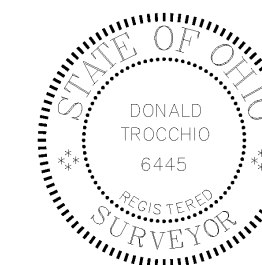
PHOTO NO.3 07/23/2014

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:

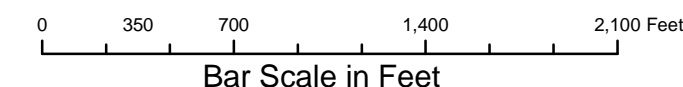


US Army Corps of Engineers

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SUPPLEMENTAL DETAIL SHEET NO.4

Camp Ravenna Fence Repair Log

