



June 18, 2024

Grant Phillips
Tower King
23434 Elliot Road
Defiance, OH 43512

Re: Phase I Environmental Site Assessment
LaPointe
344 West 1000 North
La Porte, Indiana 46350

Dear Mr. Phillips:

RESCOM Environmental Corp. has completed a Phase I Environmental Site Assessment for the above referenced property. This assessment was performed in conformance with the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21.

This assessment has revealed no evidence of recognized environmental conditions in connection with the Subject Property. It is the opinion of the Environmental Professional that no further inquiry is required.

This Phase I Environmental Site Assessment has been prepared for the exclusive use of Tower King. Thank you for the opportunity to provide this service and we look forward to working with you in the future. If you have any questions or comments, please call our office at (231) 409-2563.

Sincerely,

RESCOM Environmental Corp

A handwritten signature in blue ink, appearing to read "Aron Lee".

Aron Lee
Project Manager

A handwritten signature in blue ink, appearing to read "Anthony J. Notaro".

Anthony J. Notaro
Environmental Professional

RESCOM File: 24040094



**ASTM E 1527-21
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

LAPOINTE
344 WEST 1000 NORTH
LA PORTE, INDIANA 46350

Prepared for:

Tower King
23434 Elliot Road
Defiance, OH 43512

Prepared by:

RESCOM Environmental Corp
PO Box 361
Petoskey, Michigan 49770
(231) 409-2563
RESCOM ID: 24040094

Report Date:
June 18, 2024

Report Viability Date:
November 10, 2024

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INTRODUCTION

Executive Summary

The report of findings for the property located at 344 West 1000 North in La Porte, LaPorte County, Indiana is summarized as follows:

Findings

1. The Subject Property consists of undeveloped land located south of West 1000 North and east of North Wilhelm Road. Tower King is proposing to construct a 445' guyed telecommunications tower and fenced equipment compound within a 100' x 100' leased area on the property and utilize an access drive off West 1000 North.
2. RESCOM Environmental Corp. (RESCOM) completed a site visit on May 14, 2024. No visible evidence of recognized environmental conditions (RECs) was noted on the Subject Property at the time of the site visit.
3. The surrounding property uses are as follows: undeveloped land, wooded land, and a residential property (Parent Property) to the north followed by West 1000 North, wooded land, and a residential property with a undeveloped land, wooded land, and a pond beyond; undeveloped land and wooded land (Parent Property) to the east followed by a mixture of agricultural land and ponds with residential properties beyond; undeveloped land and wooded land (Parent Property) to the south with wooded land beyond, and undeveloped land and wooded land (Parent Property) to the west followed by a residential property, North Old Buffalo Road, and agricultural land with a mixture of agricultural land, wooded land, and residential properties beyond. No areas of environmental concerns were noted on the adjoining properties at the time of the site visit.
4. Based on historical information collected by RESCOM, the Subject Property appears to have been undeveloped land dating back to at least 1930. No other property uses or developments were identified through the historic research.
5. Interviews conducted with the Users, Owner/Occupants, and/or local agencies did not reveal evidence of environmental concerns, environmental deed restrictions or activity use limitations, or current or past usage of the Subject Property which would be indicative of RECs.
6. RESCOM retained the services of Environmental Risk Information Services (ERIS) to prepare a report of reasonably ascertainable environmental records from governmental databases for the property and surrounding properties within the approximate minimum search distances specified by the American Society for Testing and Materials (ASTM) and United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) standards. The regulatory review indicates that the Subject Property and adjoining properties are not listed as sites of environmental concern.

Two listings for two surrounding sites were listed in the database report. However, based on the type and regulatory status of the listings and the topographic gradient and/or distance with respect to the Subject Property, these listings are not considered listings of significant environmental concern to the Subject Property.

Recommendations

This assessment has revealed no evidence of recognized environmental conditions in connection with the Subject Property. It is the opinion of the Environmental Professional that no further inquiry is required.

Purpose and Scope

The purpose of the ESA is to identify Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs) and Historical Recognized Environmental Conditions (HRECs) and de minimis conditions as defined by ASTM E1527-21.

The term REC is defined as (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.

The term CREC is defined as “a recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).”

The term HREC is defined as “a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.”

The term de minimis condition is defined as “a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.”

The term Business Environmental Risk (BER) is defined as “a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.”

Limitations and Exceptions

The evaluations and conclusions presented in this report have been made to assist the client in making a reasonable assessment of risk with respect to the possible presence of environmental contamination and/or hazardous wastes at the Subject Property. The results of this assessment are intended only to serve as indicators of the potential for environmental impact on the Subject Property and its immediate vicinity. The results of this investigation do not guarantee a zero-level risk of environmental impact liability.

Our evaluations and conclusions are based on observations and interpretations of existing conditions, property history, currently available data, site usage, interviews with past and present tenants (when available) and the scope of work defined herein. The scope of this study did not include sampling and/or chemical analysis of soil and/or groundwater from the subject site. The potential for radon gas was not considered for this assessment. The results of this study cannot be used as a guarantee, warranty, or certification of the absence of any particular substance or condition, but rather, should be construed as a diligent review of available data within the time frame and scope of work established herein. RESCOM Environmental Corp shall not be responsible for inaccurate information and conclusions drawn from such inaccurate information, provided by the client, governmental agencies, third party contractors, interviewees, or other sources.

Reliance

This Phase I ESA has been prepared for the exclusive use of Tower King, its successors and/or assigns. This report, and the findings contained herein, shall not, in whole or part, be disseminated or conveyed to or used by any other party without the prior written consent of RESCOM. Any unauthorized party using or relying upon the Report shall be liable to RESCOM for equitable compensation and appropriate punitive damages and shall be responsible to reimburse RESCOM for and indemnify, defend, and hold RESCOM harmless from and against any and all costs, claims, liabilities, expenses, lost profits, and damages arising as a direct or indirect result of such unauthorized use or reliance.

Report Viability

According to Section 4.6 of ASTM E1527-21, this report is viable up to 180 days from the date that is the earliest of the following five tasks: the interview(s) of past and present owners and occupants; the recorded environmental cleanup lien search; the government record review; the visual inspection of the Subject Property and adjoining properties; and the declaration by the environmental professional responsible for the assessment or update.

Activity	Date
Date of Interview of Past and Present Owners and Occupants	-
Date of Recorded Environmental Cleanup Lien Search*	NA
Date of Government Record Review	6/7/2024
Date of Visual Inspection of Subject and Adjoining Properties	5/14/2024
Date of Environmental Professional Declaration	6/18/2024
Report Viability Date	11/10/2024

* Section 6.2.3.1 of ASTM E 1527-21 lists this as a responsibility of the Report User. RESCOM informed the User of this responsibility, and no information regarding environmental liens or AULs known to the User was reported to RESCOM.

SITE BACKGROUND

Site Location and Description

The Subject Property consists of undeveloped land located south of West 1000 North and east of North Wilhelm Road. Tower King is proposing to construct a 445' guyed telecommunications tower and fenced equipment compound within a 100' x 100' leased area on the property and utilize an access drive off West 1000 North.

Previous Environmental Site Assessments

No previous assessments were made available for RESCOM's review.

User Provided Information

The Users of this Phase I ESA have been identified as Tower King. Commonly known or reasonably ascertainable information was provided by the Users via a Site Overview (Site Plans), dated 4/3/2024, which is included in *Appendix A*. The Site Plans show the location of the proposed tower compound. No chain-of-title or information concerning environmental liens or activity and use limitations, specialized knowledge, and information concerning valuation reduction for environmental issues were provided by the Users. The Users' reason for performing the Phase I ESA is for due diligence purposes related to the construction of a proposed telecommunications tower compound.

Adjoining Properties

During the site visit, surrounding properties were viewed to determine usage and to identify any observable potential environmental concerns. The site inspection did not involve accessing the adjoining properties.

Adjoining property to the north: undeveloped land, wooded land, and a residential property (Parent Property) followed by West 1000 North, wooded land, and a residential property with undeveloped land, wooded land, and a pond beyond.

Adjoining property to the east: undeveloped land and wooded land (Parent Property) followed by a mixture of agricultural land and ponds with residential properties beyond.

Adjoining property to the south: undeveloped land and wooded land (Parent Property) with wooded land beyond.

Adjoining property to the west: undeveloped land and wooded land (Parent Property) followed by a residential property, North Old Buffalo Road, and agricultural land with a mixture of agricultural land, wooded land, and residential properties beyond.

No areas of environmental concerns were noted on the adjoining properties at the time of the site visit.

SITE HISTORY

A review of past land use was performed through a review of aerial photographs, topographic maps, and interviews. ASTM 1527-21 requires that all obvious property uses shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Historical resources were reviewed dating back to 1930, at which time the Subject Property was undeveloped land and therefore, the historical review is considered complete.

Aerial Photographs

RESCOM reviewed historical aerial photographs of the Subject Property and surrounding properties to assist in determining past uses of the Subject Property. The 1983 and earlier photographs can be viewed at historicaerials.com. Copies of 1993 and later photographs are provided in *Appendix B*.

Aerial Photographs, dated 1952, 1955, 1969, 1981, and 1988:

The Subject Property appears as undeveloped land. The Parent Property is occupied by a mixture of undeveloped land and wooded land with a residential property to the northeast. The surrounding properties appear to be a mixture of residential properties, agricultural land, and wooded land. A roadway is observed to the north.

Aerial Photographs, dated 1998, 2005, 2010, 2015, 2019, and 2024:

The Subject Property appears as undeveloped land. The Parent Property consists of undeveloped land and wooded land. Agricultural land is observed to the east.

Topographic Maps

RESCOM reviewed topographic maps to assist in determining past uses of the Subject Property. Copies of the maps are provided in *Appendix B*.

Topographic Maps, dated 1930, 1944, 1957, 1979, and 1983:

The Subject Property is colored in white, indicating undeveloped land. Adjoining and surrounding properties appear to be generally undeveloped land or wooded land. Roadways are observed in every direction. Buildings/houses are observed along the roadway to the north. Wetlands and ponds are observed to the north. Streams are observed in every direction.

Fire Insurance Maps

RESCOM attempted to review fire insurance maps for the Subject Property. No map coverage was found available for the area of the Subject Property.

Interview with Site Owner

The property owner was not interviewed during this assessment. The lack of owner interview information would result in a data gap, as defined in ASTM E1527-21. However, based on the other historic resources used to establish the site's history, which did not suggest the presence of RECs on the property, the lack of owner interview information does not result in a "significant" data gap.

Interview with Local Official

RESCOM attempted to contact the La Porte Fire Department on June 5, 2024, requesting any records or files pertaining to environmental responses at the Subject Property. As of the date of this report, RESCOM has not received a relative response. If any pertinent information is received after the date of this report, RESCOM will forward the information in an addendum to this report.

REGULATORY REVIEW

RESCOM retained the services of Environmental Risk Information Services (ERIS) to prepare a report of reasonably ascertainable environmental records from governmental databases for the property and surrounding properties within the approximate minimum search distances specified by the American Society for Testing and Materials (ASTM) and United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) standards.

ERIS Radius Review

The ERIS Database Search Report, provided in *Appendix C*, includes the standard environmental record sources required by ASTM and USEPA, supplemental environmental records sources, diagrams of sites identified within the approximate minimum search distances from the property, and a description of each database searched.

The regulatory review indicates that the Subject Property and adjoining properties are not listed as sites of environmental concern.

Two listings for two surrounding sites were listed in the database report. However, based on the type and regulatory status of the listings, and the topographic gradient and/or distance with respect to the Subject Property, these listings are not considered listings of significant environmental concern to the Subject Property.

ENVIRONMENTAL SETTING

RESCOM reviewed a topographic map and performed a site inspection to determine the physical setting of the property. This information is useful in determining how environmental concerns might affect the subsurface environment.

The topography of the Subject Property is slightly sloped to the southwest with a regional slope to the southwest. Observation of drainage patterns in the vicinity of the Subject Property identified a southwestern flow of water towards a wetland, which is located about 0.02 mile southwest of the Subject Property.

SITE RECONNAISSANCE

On March 21, 2024, RESCOM conducted a visual inspection of the Subject Property. The reconnaissance included a walk-through of the Subject Property to identify evidence of the presence of

contamination or other environmental concerns on the Subject Property. No visible signs of RECs were noted on the Subject Property at the time of the site visit. The photographs taken during the site reconnaissance are located in *Appendix D*.

Site Conditions

The following table summarizes the observed conditions identified on the Subject Property at the time of the site visit.

OBSERVED SITE CONDITIONS

OBSERVATION	NO	YES	LOCATION (IF YES)
Underground Storage Tanks	X		Not Applicable
Aboveground Storage Tanks	X		Not Applicable
Drainage Systems	X		Not Applicable
Drums and Open Containers	X		Not Applicable
Dumping or Filling Activities	X		Not Applicable
Floor Drains	X		Not Applicable
Hazardous Chemical Storage	X		Not Applicable
Petroleum Hydrocarbon Containers	X		Not Applicable
Materials Spills	X		Not Applicable
Monitor/Supply/Disposal Wells	X		Not Applicable
Odors	X		Not Applicable
Stained Pavement/Soil	X		Not Applicable
Electrical Transformers	X		Not Applicable
Pesticide Usage/Storage	X		Not Applicable
Pits/Ponds/Lagoons	X		Not Applicable
Pools of Liquid	X		Not Applicable
Roads/Trails with No Apparent Purpose	X		Not Applicable
Stressed Vegetation	X		Not Applicable
Toxic Substance Storage	X		Not Applicable
Unidentified Substance Containers	X		Not Applicable
Wastewater Generation	X		Not Applicable

Utilities

Utility connections were not reported at the Subject Property. No indication of a well or septic system was observed on the Subject Property.

CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-21 of the Subject Property referred to as La Pointe located at 344 West 1000 North in McFarland, LaPorte County, WI. Any exceptions to, or deletions from, this practice are described in the Limitations and Exceptions sections of this report. This assessment has not revealed

evidence of recognized environmental conditions in connection with the Subject Property. It is the opinion of the Environmental Professional that no further inquiry is required.

REFERENCES

The following resources were utilized in the preparation of this report: Aerial photographs as available from Google Earth; and topographic maps as available at USGS TopoView.

ENVIRONMENTAL PROFESSIONAL STATEMENT

This report was prepared by Aron Lee, RESCOM Environmental Scientist, under the direction of Anthony Notaro, RESCOM Senior Project Manager, who reviewed this report. Resumes for these individuals are included in Appendix E.

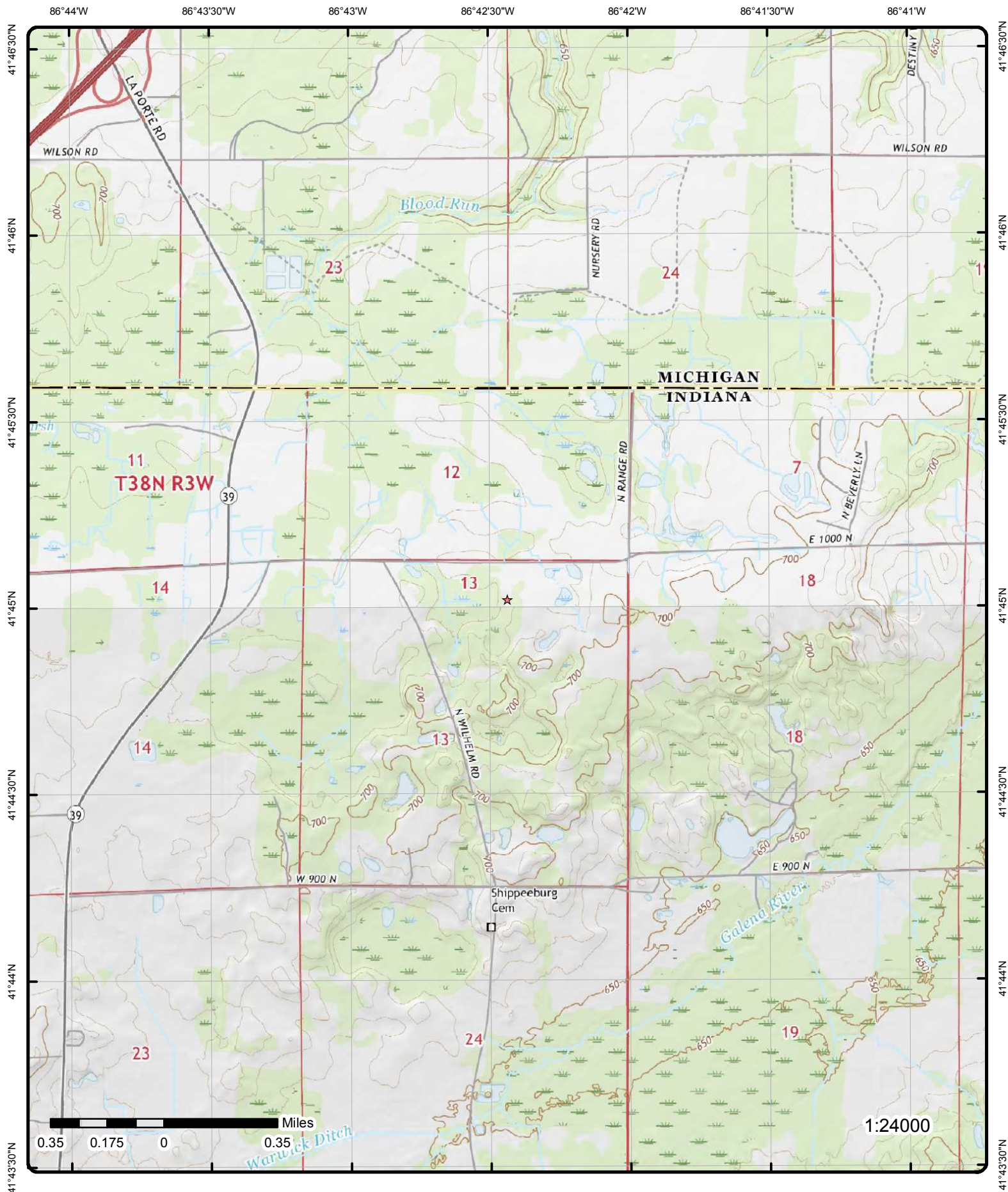
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Anthony J. Notaro
Environmental Professional

APPENDIX A

Property Location Map and Site Plan



Topographic Map

Year: 2019

Order Number: 24060400120

Address: 344 West 1000 North, IN

Quadrangle(s): Springville IN, New Buffalo East MI, IN

Source: USGS Topographic Map



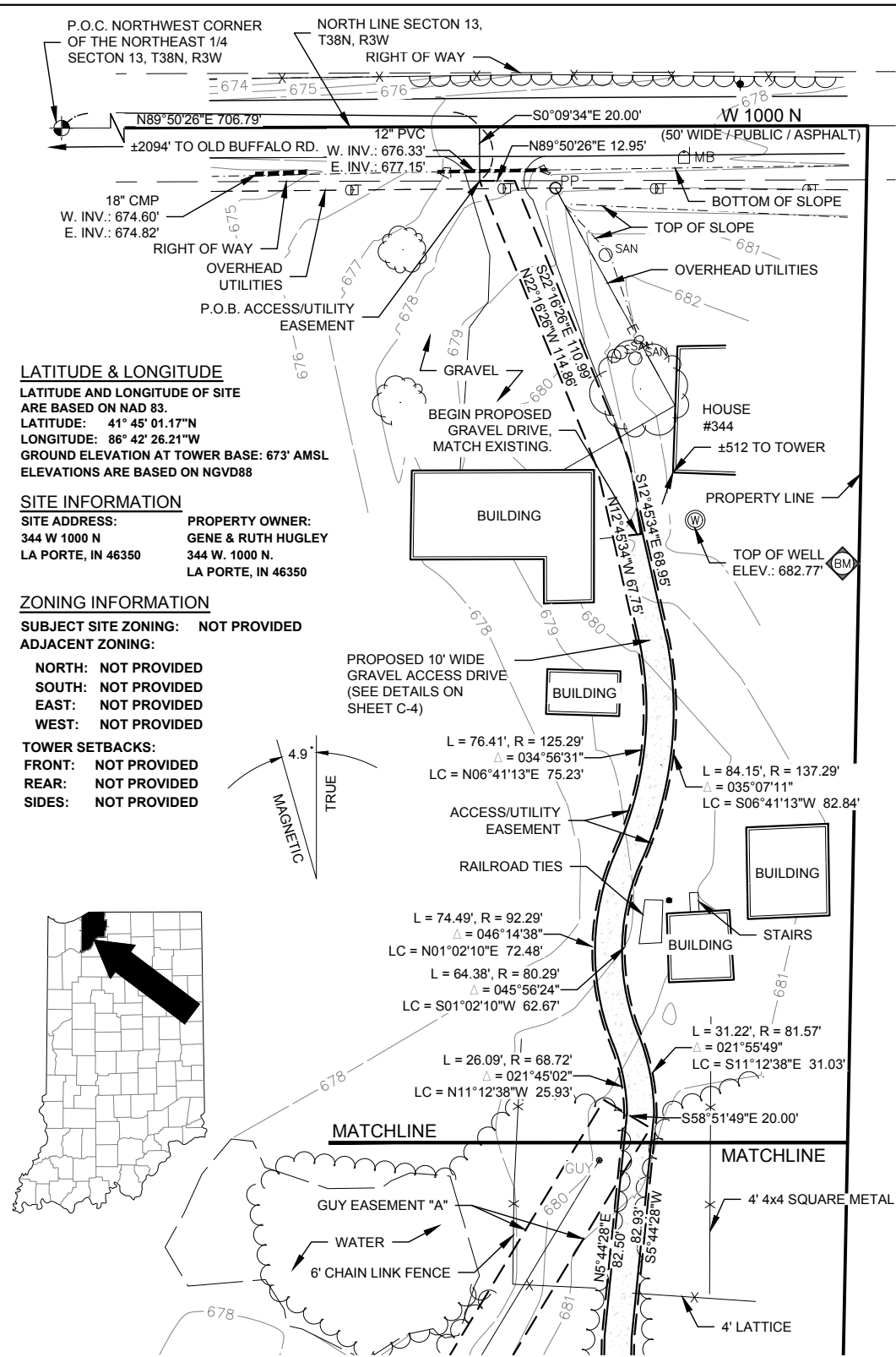
© ERIS Information Inc.

NOTE:
FOR SITES WHERE A CRANE IS NECESSARY, THE CONTRACTOR SHALL CONFIRM AN UNOBSTRUCTED ROUTE FOR THE CRANE FROM PUBLIC ROAD TO TOWER SITE PRIOR TO CONSTRUCTION. NO AERIAL OBSTRUCTIONS UNDER FIFTEEN FEET ABOVE GRADE, INCLUDING AERIAL UTILITY LINES, ARE ALLOWED ALONG SAID CRANE ROUTE.



La Pointe

DRAWING INDEX		CIVIL ENGINEER LANDTECH PROFESSIONAL SURVEYING AND ENGINEERING 1275 MCGREGOR WAY GRAWN, MI 49637 P.O. BOX 193 PHONE: (231) 943-0050	SURVEYOR LANDTECH PROFESSIONAL SURVEYING AND ENGINEERING 1275 MCGREGOR WAY GRAWN, MI 49637 P.O. BOX 193 PHONE: (231) 943-0050	PROJECT INFORMATION																																									
T-1 S-1 S-2 C-1 C-3 C-4 E-1 E-2 E-3 E-4 E-5	TITLE SHEET SURVEY PLAN ENLARGED SITE PLAN TOWER ELEVATION & DETAILS ICE BRIDGE & FENCE DETAILS GENERAL NOTES ELECTRICAL NOTES & DETAILS SINGLE LINE DIAGRAM & DETAILS GROUNDING DETAILS GROUNDING DETAILS GROUNDING NOTES & DETAILS		DIRECTIONS TO SITE: DEPART LA PORTE MUNICIPAL AIRPORT [2341 S STATE ROAD 39, LA PORTE IN 46350, UNITED STATES,TURN ON IN-39 [S STATE ROAD 39] (NORTH) 1.0 MI KEEP STRAIGHT ONTO IN-39 [LONGWOOD DR] 1.0 MI BEAR RIGHT (NORTH-EAST) ONTO IN-2 [IN-39] 1.3 MI TURN LEFT (NORTH) ONTO US-35 [IN-39] 1.9 MI TURN RIGHT (NORTH) ONTO IN-39 [N STATE ROAD 39] 8.6 MI TURN RIGHT (EAST) ONTO W COUNTY ROAD 1000 N [W 1000 N] SITE IS ON THE SOUTH SIDE OF W COUNTY ROAD 1000 N [W 1000 N]		<u>SCOPE OF WORK:</u> UNMANNED TELECOMMUNICATIONS FACILITY <u>TYPE OF CONSTRUCTION</u> PROJECT TYPE: PROPOSED 445' GUY TOWER <u>SITE ADDRESS:</u> 344 W. 1000 N La Porte, IN 46350 <u>TOWER INFORMATION:</u> (LATITUDE & LONGITUDE BASED ON NAD1983) LATITUDE: 41° 45' 01.17"N LONGITUDE: 86° 42' 26.21"W GROUND ELEVATION AT TOWER BASE: 673' AMSL PROPOSED RAD CENTER HEIGHT: 435' AGL. <u>SQUARE FOOTAGE:</u> PROPOSED LEASE AREA: 10,000 SQ. FT. <u>PROPERTY OWNERS:</u> GENE & RUTH HUGLEY 344 W 1000 N La Porte, IN 46350 <u>PARCEL NUMBER (TAX I.D.):</u> 46-02-13-200-009.000-062 <u>OCCUPANT LOAD:</u> UNOCCUPIED <u>PARKING REQUIREMENTS:</u> ADDITIONAL PARKING REQUIRED: NONE EXISTING PARKING MODIFICATIONS: NONE REQUIRED																																								
	 VICINITY MAP NOT TO SCALE																																												
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					TOWER KING 23434 ELLIOTT ROAD, DEFIANCE, OH 43512 PH: (419) 782-8591	LaPointe W. 1000 N. LaPorte, IN 46350		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td>04/03/24</td><td colspan="2">ISSUED FOR REVIEW</td><td>RJH</td><td>MM</td></tr><tr><td>NO.</td><td>DATE</td><td colspan="2">REVISIONS</td><td>BY</td><td>CHK</td></tr><tr><td colspan="2">SCALE: AS SHOWN</td><td colspan="2">DESIGNED BY: MM</td><td colspan="2">DRAWN BY: RJH</td></tr></table>																					0	04/03/24	ISSUED FOR REVIEW		RJH	MM	NO.	DATE	REVISIONS		BY	CHK	SCALE: AS SHOWN		DESIGNED BY: MM		DRAWN BY: RJH
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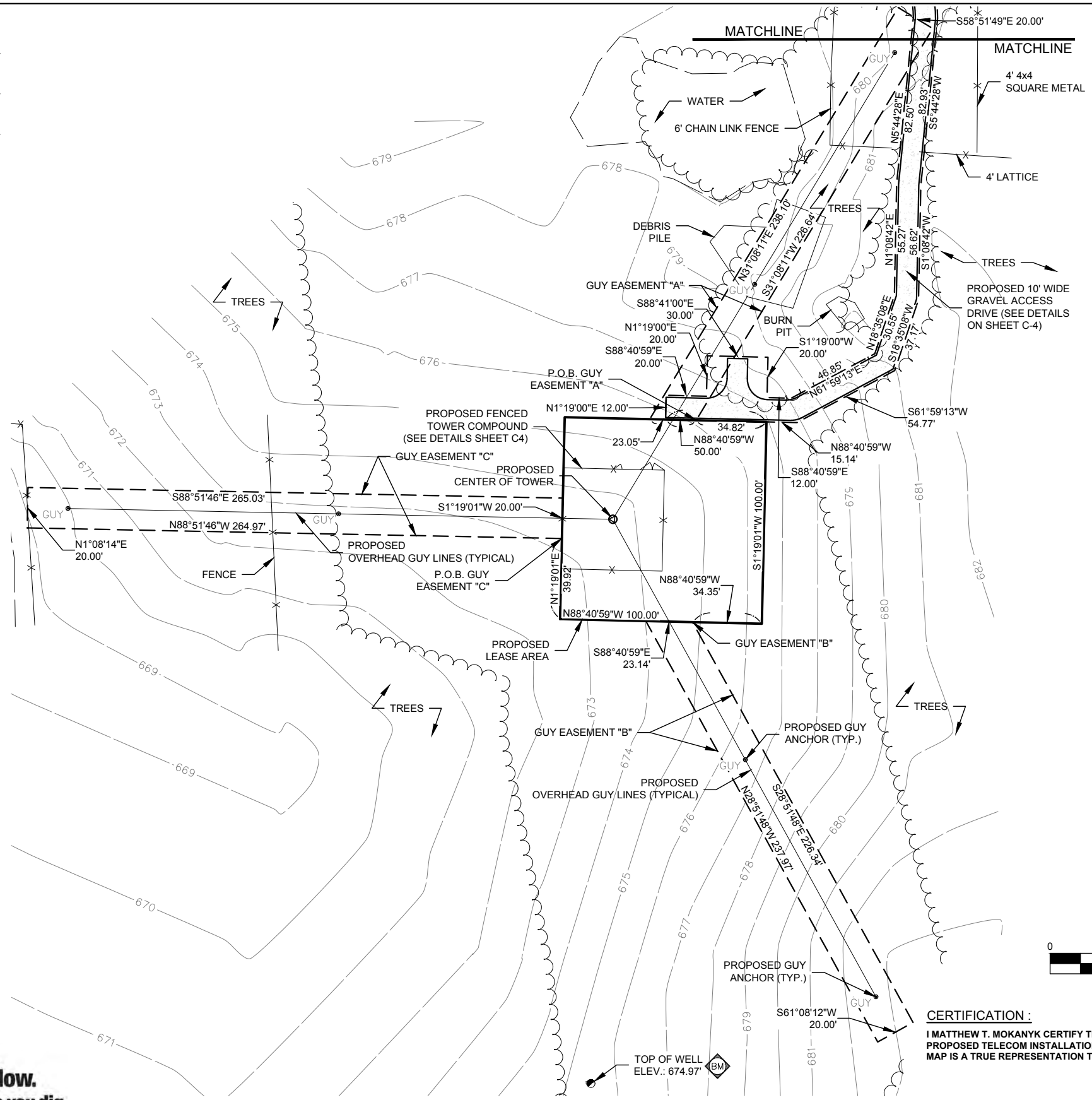
LATITUDE & LONGITUDE
LATITUDE AND LONGITUDE OF SITE
ARE BASED ON NAD 83.
LATITUDE: 41° 45' 01.17"N
LONGITUDE: 86° 42' 26.21"W
GROUND ELEVATION AT TOWER BASE: 673' AMSL
ELEVATIONS ARE BASED ON NGVD88

SITE INFORMATION
SITE ADDRESS:
344 W 1000 N
LA PORTE, IN 46350
PROPERTY OWNER:
GENE & RUTH HUGLEY
344 W. 1000 N.
LA PORTE, IN 46350

ZONING INFORMATION
SUBJECT SITE ZONING: NOT PROVIDED
ADJACENT ZONING:
NORTH: NOT PROVIDED
SOUTH: NOT PROVIDED
EAST: NOT PROVIDED
WEST: NOT PROVIDED
TOWER SETBACKS:
FRONT: NOT PROVIDED
REAR: NOT PROVIDED
SIDES: NOT PROVIDED



- GENERAL NOTES**
- NO PROPOSED MUNICIPAL SEWER OR WATER UTILITIES ARE REQUIRED FOR THIS SITE.
 - FINISH GRADE WILL MATCH EXISTING CONTOUR.
 - THERE WILL BE NO CHANGE IN DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
 - NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
 - NO HAZARDOUS MATERIALS WILL BE USED, PROCESSED OR STORED AT THE SITE.
 - TOWER LIGHTING SHALL CONFORM TO FAA STANDARDS AS REQUIRED.
 - ALL WORK SHALL CONFORM TO FAA & FCC REGULATIONS.
 - THIS IS NOT AN 865 IAC RULE 12 SURVEY.



- LEGEND**
- IRON FOUND
 - IRON SET
 - ▲ P.K. NAIL FOUND
 - ▲ P.K. NAIL SET
 - ⊙ GPS MONUMENT
 - ⊙ MONUMENT BOX FOUND
 - ⊙ MONUMENT FOUND
 - ⊙ MONUMENT SET
 - (R) RECORD
 - (M) MEASURED
 - ^{STS} STORM MANHOLE
 - ⊕ CATCH BASIN
 - ⊕ SQUARE CATCH BASIN
 - ^{SNS} SANITARY MANHOLE
 - ⊕ SANITARY CLEAN-OUT
 - ⊕ MONITOR WELL
 - TELCO. MANHOLE
 - PP POWER POLE
 - GUY GUY
 - ⊕ LIGHT POLE
 - ⊕ ELECTRIC TRANSFORMER
 - EM ELECTRIC METER
 - EHV ELECTRIC HANDHOLE
 - WV WATER VALVE
 - GM GAS METER
 - GAS GAS MARKER
 - GV GAS VALVE
 - TP TELEPHONE PEDESTAL
 - SP SIGN POST
 - FL FENCE LINE
 - BM BENCHMARK
 - POST

ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.



SURVEY PLAN

SCALE: 1"=200'



CERTIFICATION:
I MATTHEW T. MOKANYK CERTIFY THAT I HAVE SURVEYED AND MARKED THE PROPOSED TELECOM INSTALLATION AND EXISTING FEATURES AND THAT THIS MAP IS A TRUE REPRESENTATION THEREOF.

Matthew T. Mokanyk, P.S., P.E.
Indiana P.S. No. LS20100015

04/05/24
Date

BEARING BASIS: INDIANA STATE PLANE COORDINATES, WEST ZONE. NAD 83.

LANDTECH
PROFESSIONAL SURVEYING & ENGINEERING
AL, AR, AZ, CO, FL, GA, IL, IA, IN, KS, KY, MI, MN, MO, NE, NC, ND, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, VA, WV, WI
231-943-0050 ph 231-943-0051 fax 877-520-LAND toll free
www.landtechps.com www.towersurveyors.com

TOWER KING

TOWER KING
23434 ELLIOTT ROAD,
DEFIANCE, OH 43512
PH: (419) 782-8591

LaPointe
W. 1000 N.
LaPorte, IN 46350

0	04/03/24	ISSUED FOR REVIEW	RJH	MM	MM
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

SHEET S-1

SURVEY PLAN

DRAWING NUMBER

24359002

GENERAL NOTES

1. NO PROPOSED MUNICIPAL SEWER OR WATER UTILITIES ARE REQUIRED FOR THIS SITE. FINISH GRADE WILL MATCH EXISTING CONTOURS.
2. THERE WILL BE NO CHANGE IN DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION. NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
3. NO HAZARDOUS MATERIALS WILL BE USED, PROCESSED OR STORED AT THE SITE.
4. ALL WORK SHALL CONFORM TO FAA & FCC REGULATIONS.
5. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE DEEMED UNNECESSARY FOR THIS PROJECT DUE TO THE LIMITED SCOPE OF EARTH DISRUPTION IN CONJUNCTION WITH EROSION CONTROL CHARACTERISTICS OF THE EXISTING SURFACE VEGETATION COVERAGE.
6. THIS IS NOT AN 865 IAC RULE 12 SURVEY.

PARENT PARCEL DESCRIPTION (as provided)

65-02-13-200-009 PCE ON W SD OF N 3/4 W 1/2 NE 1/4 EX 11.12 A S13 T38 R3. 30.201 A.

TOWER KING LEASE AREA DESCRIPTION

PART OF THE NORTHEAST 1/4 OF SECTION 13, TOWN 38 NORTH, RANGE 3 WEST, SPRINGFIELD TOWNSHIP, LaPORTE COUNTY, INDIANA, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE NORTH 89°50'26" EAST ALONG THE NORTH LINE OF SAID SECTION 13 A DISTANCE OF 706.79 FEET; THENCE SOUTH 00°09'34" EAST A DISTANCE OF 20.00 FEET TO THE SOUTH RIGHT OF WAY OF W. 1000 N. (50'WIDE/PUBLIC); THENCE NORTH 89°50'26" EAST ALONG SAID RIGHT OF WAY A DISTANCE OF 12.95 FEET; THENCE THENCE SOUTH 22°16'26" EAST A DISTANCE OF 110.99 FEET; THENCE SOUTH 12°45'34" EAST A DISTANCE OF 68.95 FEET; THENCE SOUTHERLY 84.15 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 137.29 FEET, A CENTRAL ANGLE OF 35°07'11", AND CHORD BEARING SOUTH 06°41'13" WEST 82.84 FEET; THENCE SOUTHERLY 64.38 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 80.29 FEET, A CENTRAL ANGLE OF 45°56'24", AND CHORD BEARING SOUTH 01°02'10" WEST 62.67 FEET; THENCE SOUTHERLY 31.22 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 81.57 FEET, A CENTRAL ANGLE OF 21°55'49", AND CHORD BEARING SOUTH 11°12'38" EAST 31.03 FEET; THENCE SOUTH 05°44'28" WEST A DISTANCE OF 82.93 FEET; THENCE SOUTH 01°08'42" WEST A DISTANCE OF 56.62 FEET; THENCE SOUTH 18°35'08" WEST A DISTANCE OF 37.17 FEET; THENCE SOUTH 61°59'13" WEST A DISTANCE OF 54.77 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 15.14 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 01°19'01" WEST A DISTANCE OF 100.00 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 100.00 FEET; THENCE NORTH 01°19'01" EAST A DISTANCE OF 100.00 FEET; THENCE SOUTH 88°40'59" EAST A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING. CONTAINING 10,000 SQUARE FEET OR 0.230 ACRES.

TOWER KING ACCESS/UTILITY EASEMENT DESCRIPTION

A THIRTY (30) FOOT WIDE EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF UTILITIES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 13, TOWN 38 NORTH, RANGE 3 WEST, SPRINGFIELD TOWNSHIP, LAPORTE COUNTY, INDIANA, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE NORTH 89°50'26" EAST ALONG THE NORTH LINE OF SAID SECTION 13 A DISTANCE OF 706.79 FEET; THENCE SOUTH 00°09'34" EAST A DISTANCE OF 20.00 FEET TO THE SOUTH RIGHT OF WAY OF W. 1000 N. (50'WIDE/PUBLIC) AND THE POINT OF BEGINNING; THENCE NORTH 89°50'26" EAST ALONG SAID RIGHT OF WAY A DISTANCE OF 12.95 FEET; THENCE THENCE SOUTH 22°16'26" EAST A DISTANCE OF 110.99 FEET; THENCE SOUTH 12°45'34" EAST A DISTANCE OF 68.95 FEET; THENCE SOUTHERLY 84.15 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 137.29 FEET, A CENTRAL ANGLE OF 35°07'11", AND CHORD BEARING SOUTH 06°41'13" WEST 82.84 FEET; THENCE SOUTHERLY 64.38 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 80.29 FEET, A CENTRAL ANGLE OF 45°56'24", AND CHORD BEARING SOUTH 01°02'10" WEST 62.67 FEET; THENCE SOUTHERLY 31.22 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 81.57 FEET, A CENTRAL ANGLE OF 21°55'49", AND CHORD BEARING SOUTH 11°12'38" EAST 31.03 FEET; THENCE SOUTH 05°44'28" WEST A DISTANCE OF 82.93 FEET; THENCE SOUTH 01°08'42" WEST A DISTANCE OF 56.62 FEET; THENCE SOUTH 18°35'08" WEST A DISTANCE OF 37.17 FEET; THENCE SOUTH 61°59'13" WEST A DISTANCE OF 54.77 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 15.14 FEET TO THE NORTHEAST CORNER OF A LEASE AREA; THENCE CONTINUING NORTH 88°40'59" WEST ALONG THE NORTH LINE OF SAID LEASE AREA A DISTANCE OF 50.00 FEET; THENCE NORTH 01°19'00" EAST A DISTANCE OF 12.00 FEET; THENCE SOUTH 88°40'59" EAST A DISTANCE OF 20.00 FEET; THENCE NORTH 01°19'00" EAST A DISTANCE OF 20.00 FEET; THENCE SOUTH 88°41'00" EAST A DISTANCE OF 30.00 FEET; THENCE SOUTH 01°19'00" WEST A DISTANCE OF 20.00 FEET; SOUTH 88°40'59" WEST A DISTANCE OF 12.00 FEET; THENCE NORTH 61°59'13" EAST A DISTANCE OF 46.85 FEET; THENCE NORTH 18°35'08" EAST A DISTANCE OF 30.55 FEET; THENCE NORTH 01°08'42" EAST A DISTANCE OF 55.27 FEET; THENCE NORTH 05°44'28" EAST A DISTANCE OF 82.50 FEET; THENCE NORTHERLY 26.09 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 68.72 FEET, A CENTRAL ANGLE OF 21°45'02", AND CHORD BEARING NORTH 11°12'38" WEST 25.93 FEET; THENCE NORTHERLY 74.49 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 92.29 FEET, A CENTRAL ANGLE OF 46°14'38", AND CHORD BEARING NORTH 01°02'10" EAST 72.48 FEET; THENCE NORTHERLY 76.41 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 125.29 FEET, A CENTRAL ANGLE OF 34°56'31", AND CHORD BEARING NORTH 06°41'13" EAST 75.23 FEET; THENCE NORTH 12°45'34" WEST A DISTANCE OF 67.75 FEET; THENCE NORTH 22°16'26" WEST A DISTANCE OF 114.86 FEET TO THE POINT OF BEGINNING.

TOWER KING GUY WIRE EASEMENT "A" DESCRIPTION

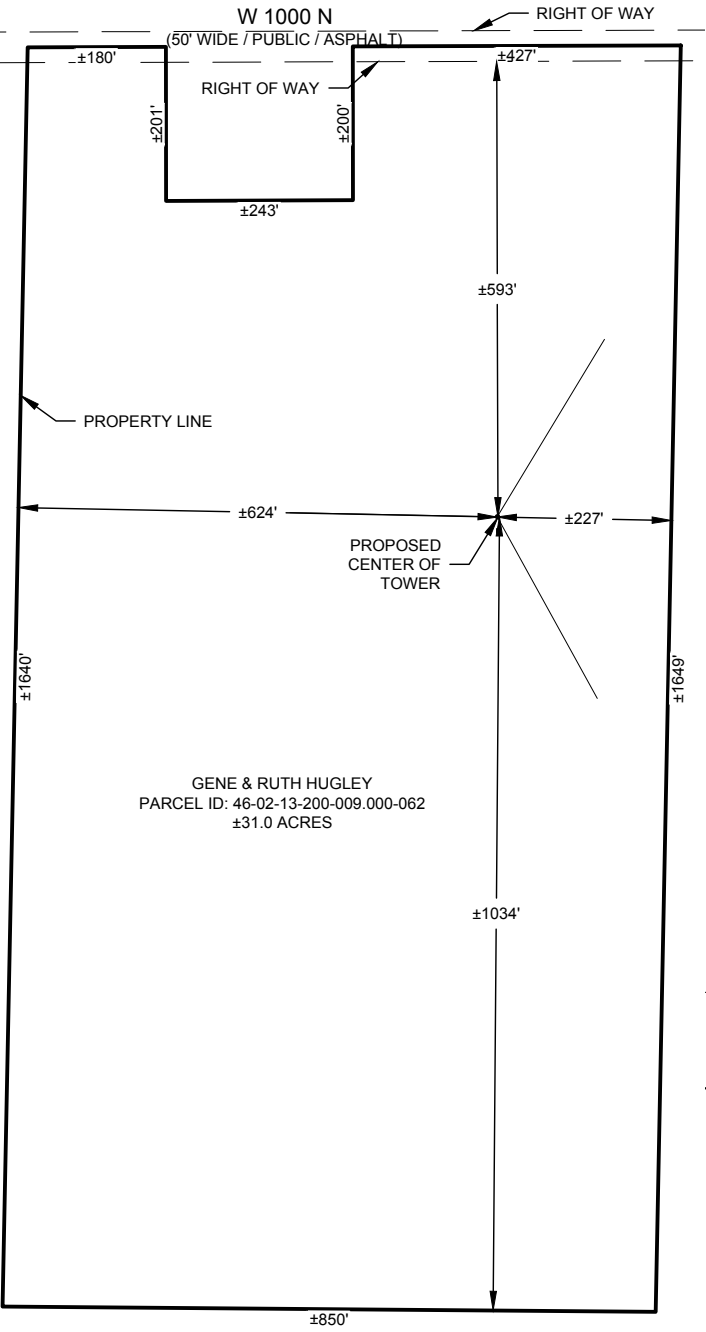
AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF GUY LINES AND ASSOCIATED APPURTENANCES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 13, TOWN 38 NORTH, RANGE 3 WEST, SPRINGFIELD TOWNSHIP, LaPORTE COUNTY, INDIANA, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE NORTH 89°50'26" EAST ALONG THE NORTH LINE OF SAID SECTION 13 A DISTANCE OF 706.79 FEET; THENCE SOUTH 00°09'34" EAST A DISTANCE OF 20.00 FEET TO THE SOUTH RIGHT OF WAY OF W. 1000 N. (50'WIDE/PUBLIC); THENCE NORTH 89°50'26" EAST ALONG SAID RIGHT OF WAY A DISTANCE OF 12.95 FEET; THENCE THENCE SOUTH 22°16'26" EAST A DISTANCE OF 110.99 FEET; THENCE SOUTH 12°45'34" EAST A DISTANCE OF 68.95 FEET; THENCE SOUTHERLY 84.15 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 137.29 FEET, A CENTRAL ANGLE OF 35°07'11", AND CHORD BEARING SOUTH 06°41'13" WEST 82.84 FEET; THENCE SOUTHERLY 64.38 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 80.29 FEET, A CENTRAL ANGLE OF 45°56'24", AND CHORD BEARING SOUTH 01°02'10" WEST 62.67 FEET; THENCE SOUTHERLY 31.22 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 81.57 FEET, A CENTRAL ANGLE OF 21°55'49", AND CHORD BEARING SOUTH 11°12'38" EAST 31.03 FEET; THENCE SOUTH 05°44'28" WEST A DISTANCE OF 82.93 FEET; THENCE SOUTH 01°08'42" WEST A DISTANCE OF 56.62 FEET; THENCE SOUTH 18°35'08" WEST A DISTANCE OF 37.17 FEET; THENCE SOUTH 61°59'13" WEST A DISTANCE OF 54.77 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 15.14 FEET TO THE NORTHEAST CORNER OF A LEASE AREA; THENCE CONTINUING NORTH 88°40'59" WEST A DISTANCE OF 34.82 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 88°40'59" WEST ALONG SAID NORTH LINE A DISTANCE OF 23.05 FEET; THENCE NORTH 31°08'11" EAST A DISTANCE OF 238.10 FEET; THENCE SOUTH 58°51'49" EAST A DISTANCE OF 20.00 FEET; THENCE SOUTH 31°08'11" WEST A DISTANCE OF 226.64 FEET TO THE POINT OF BEGINNING.

TOWER KING GUY WIRE EASEMENT "B" DESCRIPTION

AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF GUY LINES AND ASSOCIATED APPURTENANCES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 13, TOWN 38 NORTH, RANGE 3 WEST, SPRINGFIELD TOWNSHIP, LaPORTE COUNTY, INDIANA, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE NORTH 89°50'26" EAST ALONG THE NORTH LINE OF SAID SECTION 13 A DISTANCE OF 706.79 FEET; THENCE SOUTH 00°09'34" EAST A DISTANCE OF 20.00 FEET TO THE SOUTH RIGHT OF WAY OF W. 1000 N. (50'WIDE/PUBLIC); THENCE NORTH 89°50'26" EAST ALONG SAID RIGHT OF WAY A DISTANCE OF 12.95 FEET; THENCE THENCE SOUTH 22°16'26" EAST A DISTANCE OF 110.99 FEET; THENCE SOUTH 12°45'34" EAST A DISTANCE OF 68.95 FEET; THENCE SOUTHERLY 84.15 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 137.29 FEET, A CENTRAL ANGLE OF 35°07'11", AND CHORD BEARING SOUTH 06°41'13" WEST 82.84 FEET; THENCE SOUTHERLY 64.38 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 80.29 FEET, A CENTRAL ANGLE OF 45°56'24", AND CHORD BEARING SOUTH 01°02'10" WEST 62.67 FEET; THENCE SOUTHERLY 31.22 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 81.57 FEET, A CENTRAL ANGLE OF 21°55'49", AND CHORD BEARING SOUTH 11°12'38" EAST 31.03 FEET; THENCE SOUTH 05°44'28" WEST A DISTANCE OF 82.93 FEET; THENCE SOUTH 01°08'42" WEST A DISTANCE OF 56.62 FEET; THENCE SOUTH 18°35'08" WEST A DISTANCE OF 37.17 FEET; THENCE SOUTH 61°59'13" WEST A DISTANCE OF 54.77 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 15.14 FEET TO THE NORTHEAST CORNER OF A LEASE AREA; THENCE SOUTH 01°19'01" WEST ALONG THE EAST LINE OF SAID LEASE A DISTANCE OF 100.00 FEET TO THE SOUTHEAST CORNER OF SAID LEASE AREA; THENCE NORTH 88°40'59" WEST ALONG THE SOUTH LINE OF SAID LEASE AREA A DISTANCE OF 34.35 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 28°51'48" WEST A DISTANCE OF 226.34 FEET; THENCE SOUTH 61°08'12" WEST A DISTANCE OF 20.00 FEET; THENCE NORTH 28°51'48" WEST A DISTANCE OF 237.97 FEET TO SAID SOUTH LINE; THENCE SOUTH 88°40'59" EASTALONG SAID LINE A DISTANCE OF 23.14 FEET TO THE POINT OF BEGINNING.

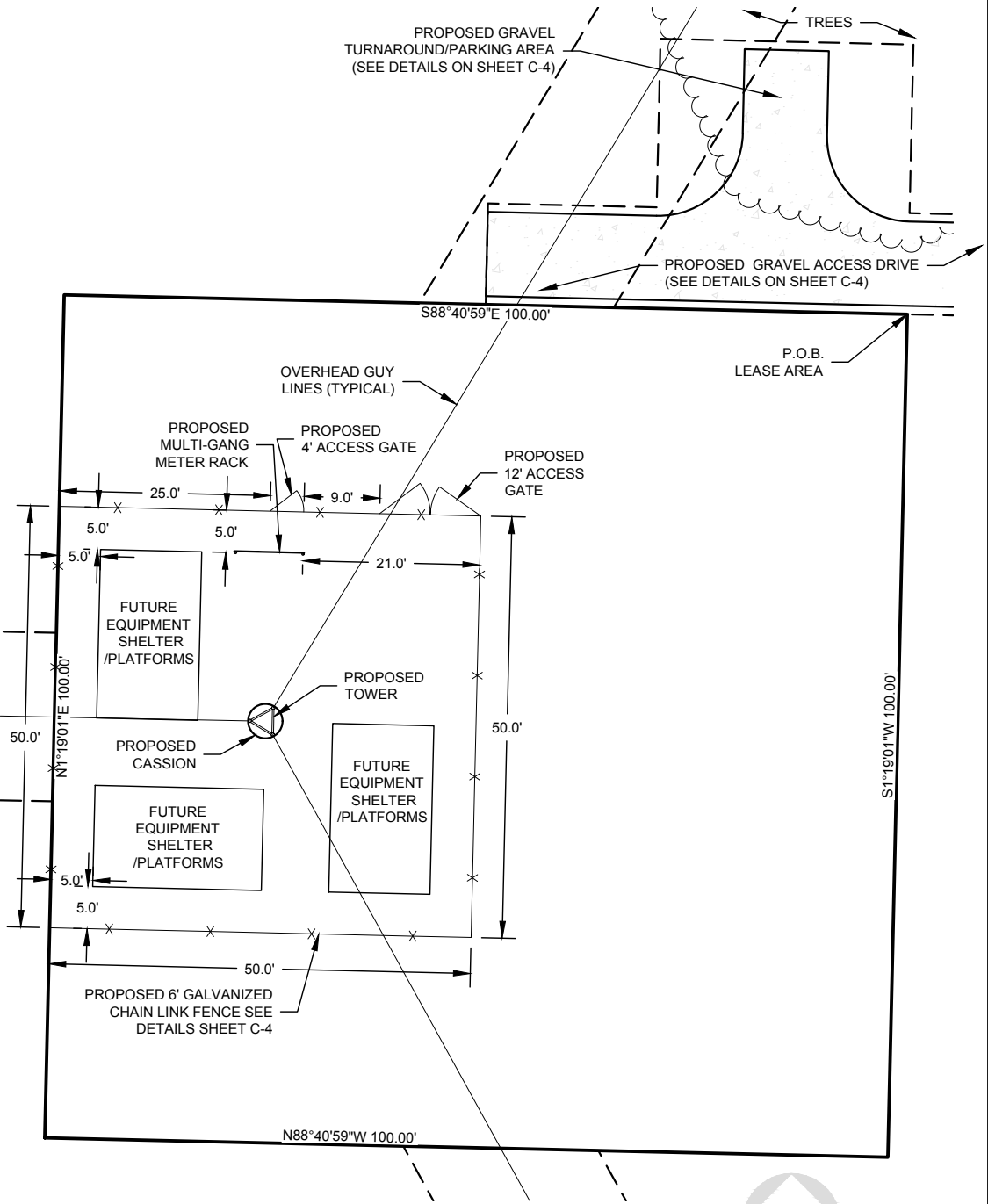
TOWER KING GUY WIRE EASEMENT "C" DESCRIPTION

AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF GUY LINES AND ASSOCIATED APPURTENANCES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 13, TOWN 38 NORTH, RANGE 3 WEST, SPRINGFIELD TOWNSHIP, LaPORTE COUNTY, INDIANA, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE NORTH 89°50'26" EAST ALONG THE NORTH LINE OF SAID SECTION 13 A DISTANCE OF 706.79 FEET; THENCE SOUTH 00°09'34" EAST A DISTANCE OF 20.00 FEET TO THE SOUTH RIGHT OF WAY OF W. 1000 N. (50'WIDE/PUBLIC); THENCE NORTH 89°50'26" EAST ALONG SAID RIGHT OF WAY A DISTANCE OF 12.95 FEET; THENCE THENCE SOUTH 22°16'26" EAST A DISTANCE OF 110.99 FEET; THENCE SOUTH 12°45'34" EAST A DISTANCE OF 68.95 FEET; THENCE SOUTHERLY 84.15 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 137.29 FEET, A CENTRAL ANGLE OF 35°07'11", AND CHORD BEARING SOUTH 06°41'13" WEST 82.84 FEET; THENCE SOUTHERLY 64.38 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 80.29 FEET, A CENTRAL ANGLE OF 45°56'24", AND CHORD BEARING SOUTH 01°02'10" WEST 62.67 FEET; THENCE SOUTHERLY 31.22 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 81.57 FEET, A CENTRAL ANGLE OF 21°55'49", AND CHORD BEARING SOUTH 11°12'38" EAST 31.03 FEET; THENCE SOUTH 05°44'28" WEST A DISTANCE OF 82.93 FEET; THENCE SOUTH 01°08'42" WEST A DISTANCE OF 56.62 FEET; THENCE SOUTH 18°35'08" WEST A DISTANCE OF 37.17 FEET; THENCE SOUTH 61°59'13" WEST A DISTANCE OF 54.77 FEET; THENCE NORTH 88°40'59" WEST A DISTANCE OF 15.14 FEET TO THE NORTHEAST CORNER OF A LEASE AREA; THENCE SOUTH 01°19'01" WEST ALONG THE EAST LINE OF SAID LEASE A DISTANCE OF 100.00 FEET TO THE SOUTHEAST CORNER OF SAID LEASE AREA; THENCE NORTH 88°40'59" WEST ALONG THE SOUTH LINE OF SAID LEASE AREA A DISTANCE OF 100.00 FEET TO THE SOUTHWEST CORNER OF SAID LEASE AREA; THENCE NORTH 01°19'01" EAST ALONG THE WEST LINE OF SAID LEASE AREA A DISTANCE OF 39.92 FEET TO THE POINT OF BEGINNING; THENCE NORTH 88°51'46" WEST A DISTANCE OF 264.97 FEET; THENCE NORTH 01°08'14" EAST A DISTANCE OF 20.00 FEET; THENCE SOUTH 88°51'46" EAST A DISTANCE OF 265.03 FEET TO THE WEST LINE OF SAID LEASE AREA; THENCE SOUTH 01°19'01" WEST ALONG SAID WEST LINE A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING.



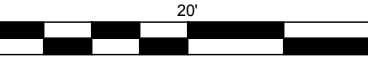
PARENT PARCEL DETAIL

SCALE: 1"=250'



ENLARGED SITE PLAN

SCALE: 1"=20'



NOTE:
ACTUAL EQUIPMENT SIZE, TYPE
AND LOCATION WITHIN COMPOUND
WILL VARY PER CARRIER.



TOWER KING
23434 ELLIOTT ROAD,
DEFIANCE, OH 43512
PH: (419) 782-8591

LaPointe

W. 1000 N.
LaPorte, IN 46350

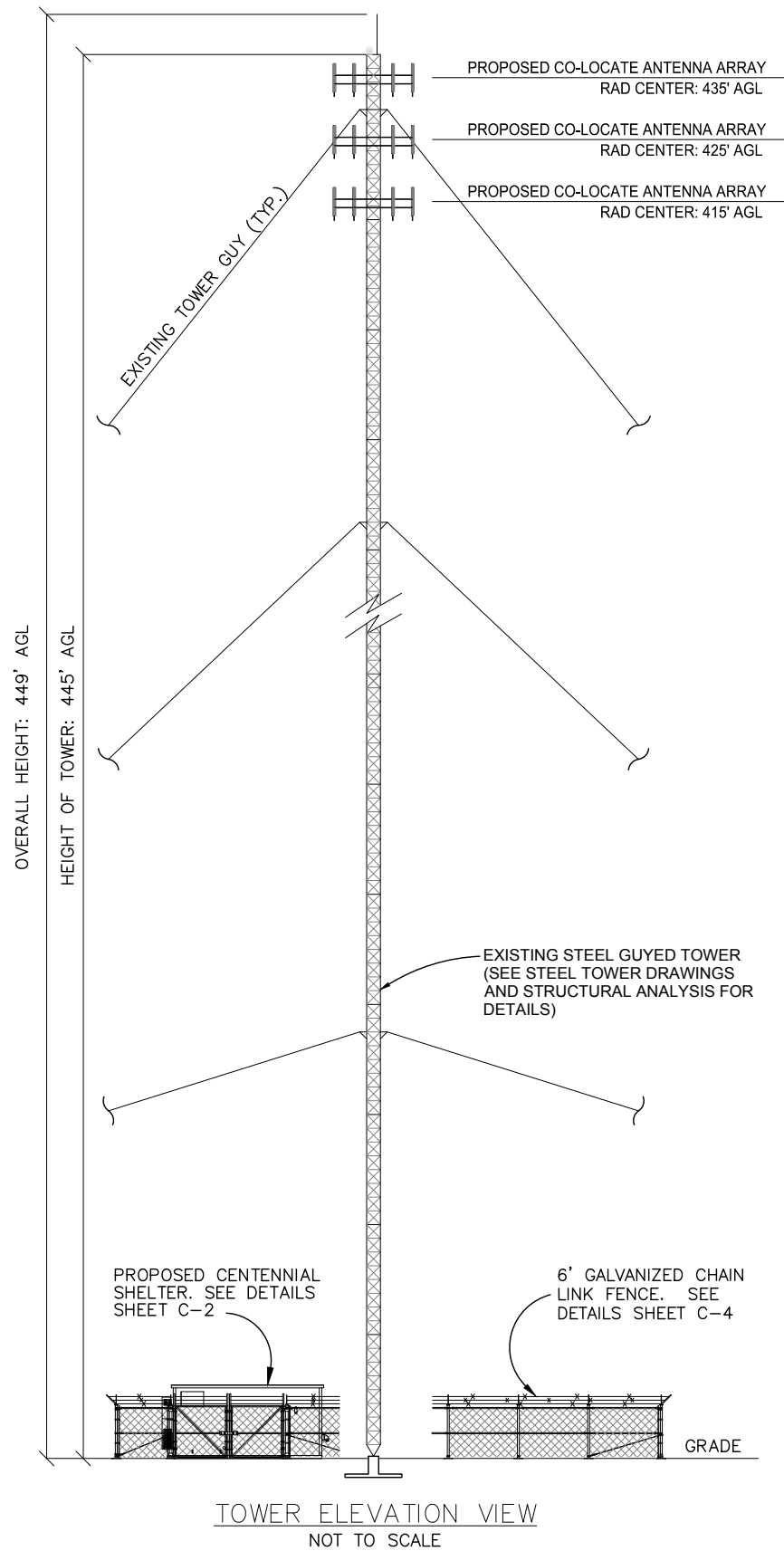
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

SHEET S-2

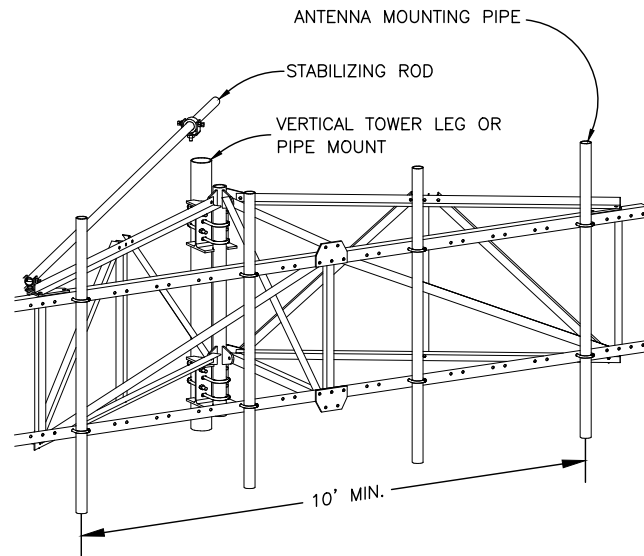
ENLARGED SITE PLAN

DRAWING NUMBER

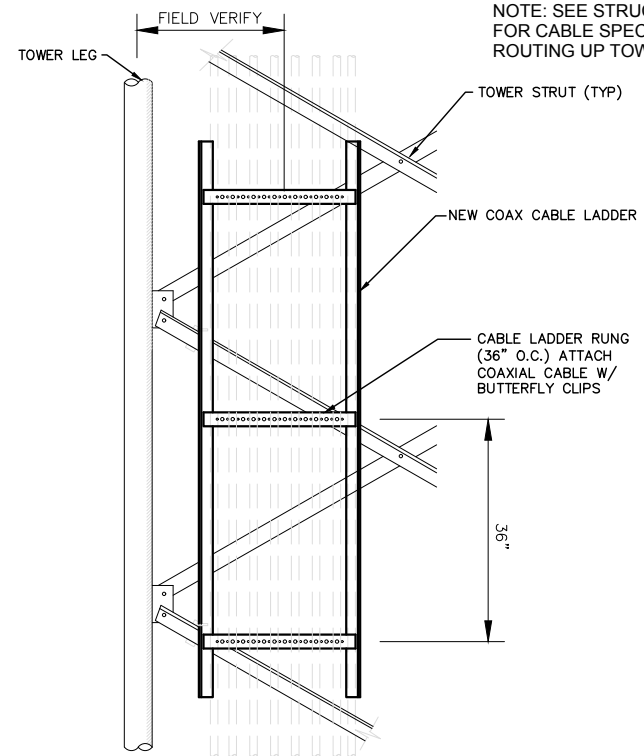
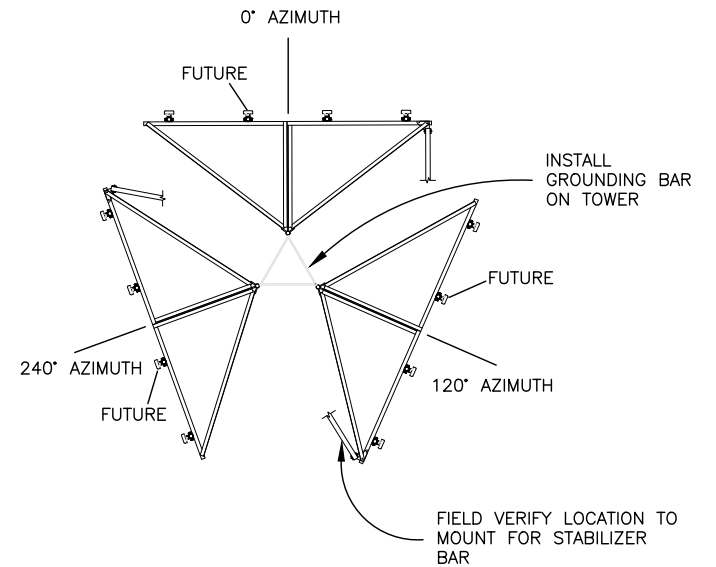
24359002



NOTE: SEE MOUNT ANALYSIS
FOR MOUNT SPECIFICATIONS
AND MAX. LOAD RATINGS.

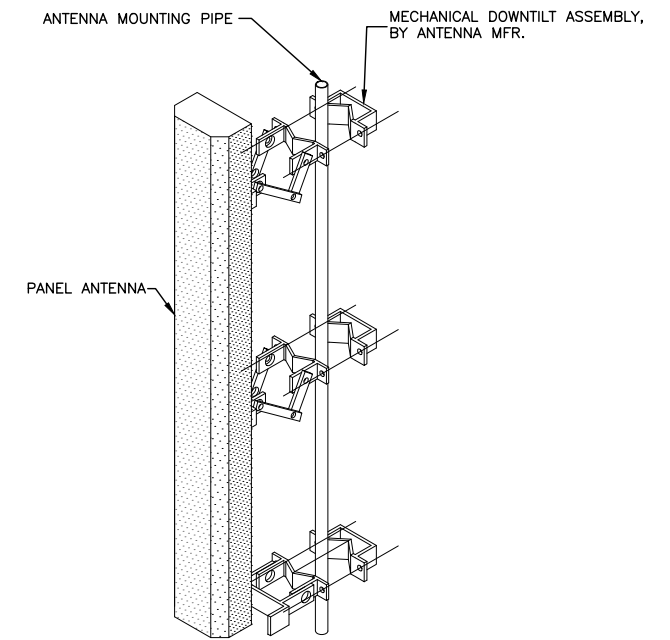


NOTE: SEE MOUNT ANALYSIS FOR
PROPOSED APPURTENANCE
SPECIFICATIONS AND LOCATIONS.



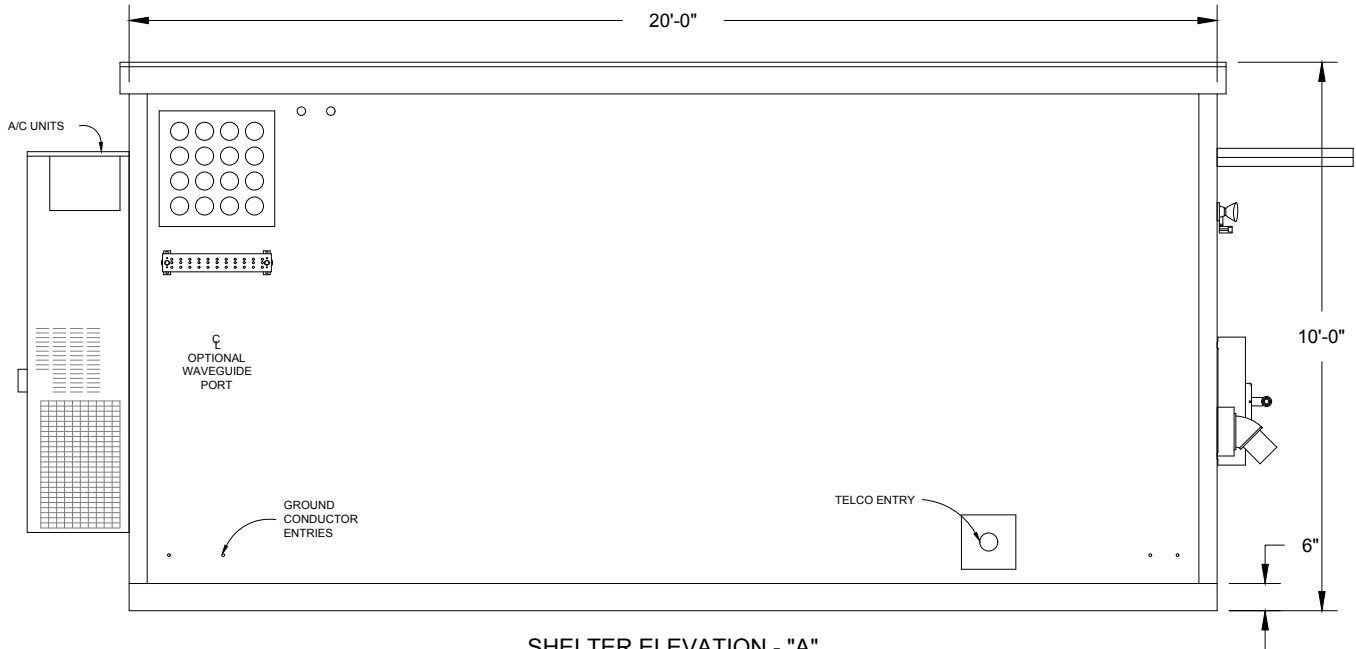
NOTE: SEE STRUCTURAL ANALYSIS
FOR CABLE SPECIFICATIONS AND
ROUTING UP TOWER

NOTE: SEE MOUNT ANALYSIS FOR
PROPOSED ANTENNA QUANTITY,
SIZE AND LOCATIONS.

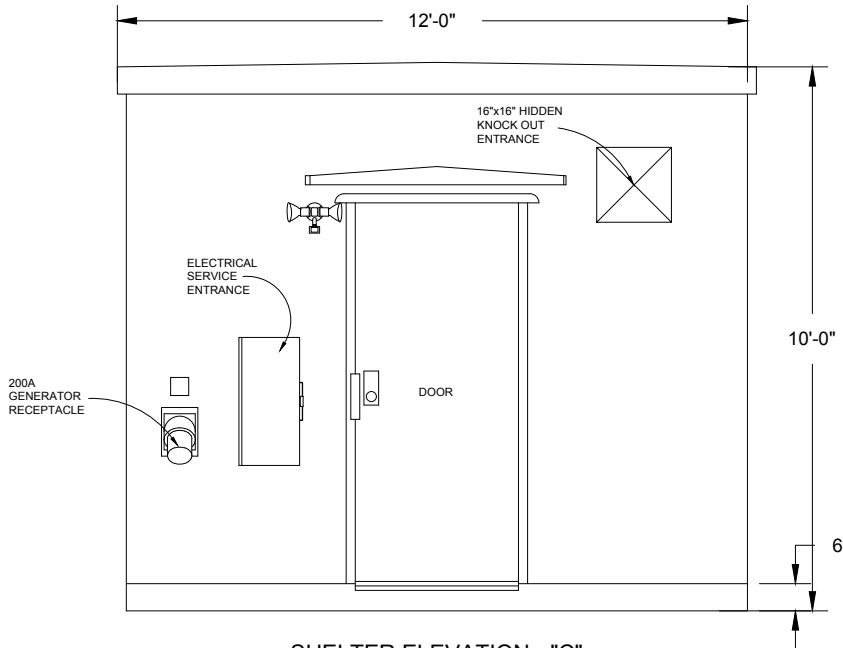
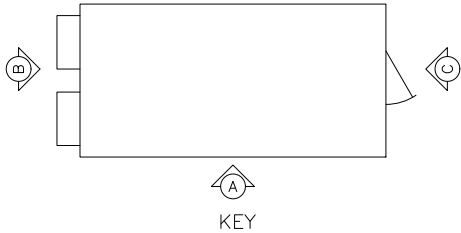


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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

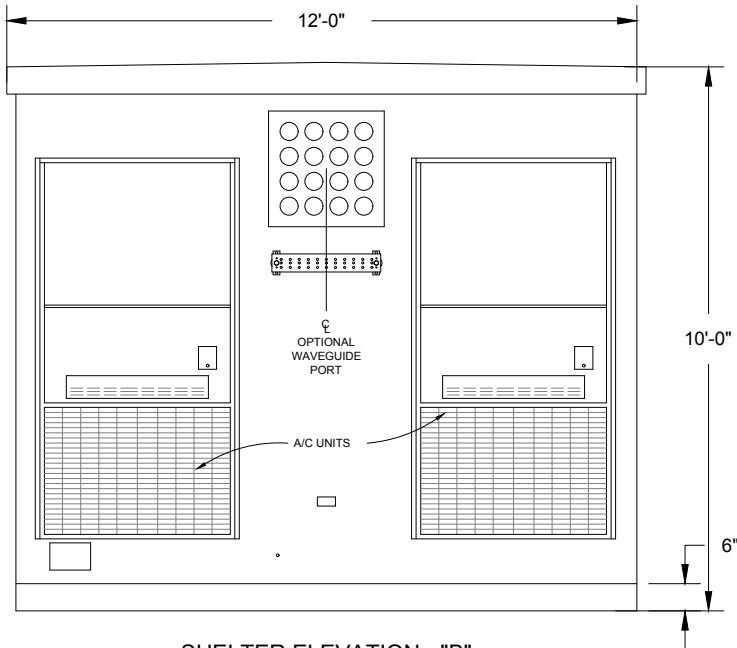
NOTE: SHELTER AND PLATFORM SHOWN ARE TYPICAL OF COMMUNICATION EQUIPMENT INSTALLATIONS AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. INDIVIDUAL EQUIPMENT PROVIDED BY CARRIERS MAY VARY FROM THESE DRAWINGS. DESIGN OF SUCH EQUIPMENT INSTALLATIONS AND THEIR FOUNDATIONS ARE BY OTHERS.



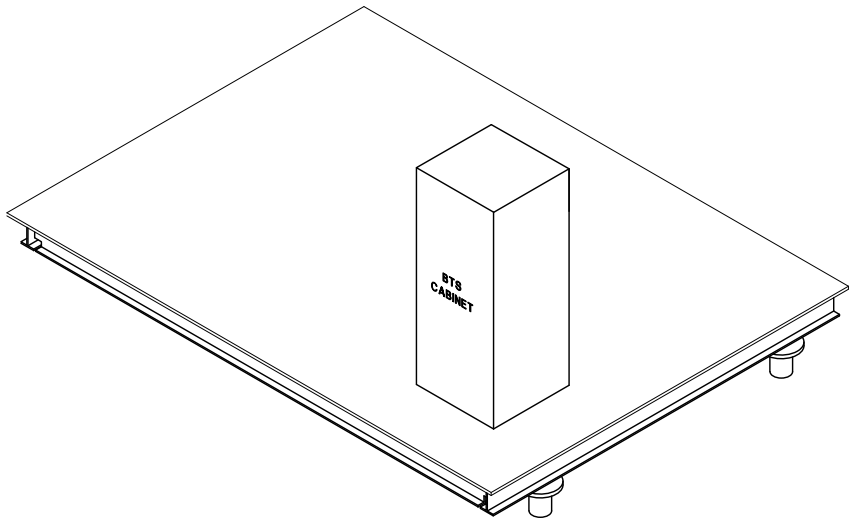
SHELTER ELEVATION - "A"
NOT TO SCALE



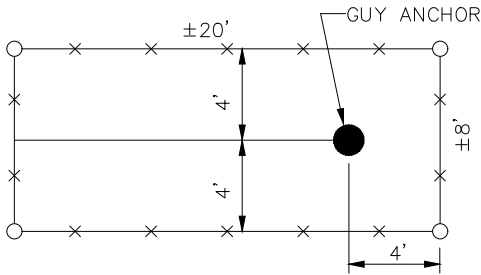
SHELTER ELEVATION - "C"
NOT TO SCALE



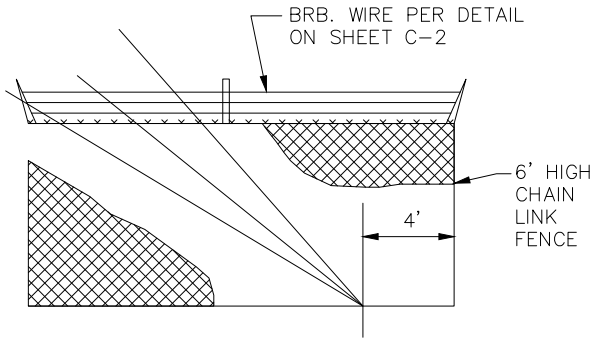
SHELTER ELEVATION - "B"
NOT TO SCALE



TYPICAL EQUIPMENT PLATFORM
NOT TO SCALE



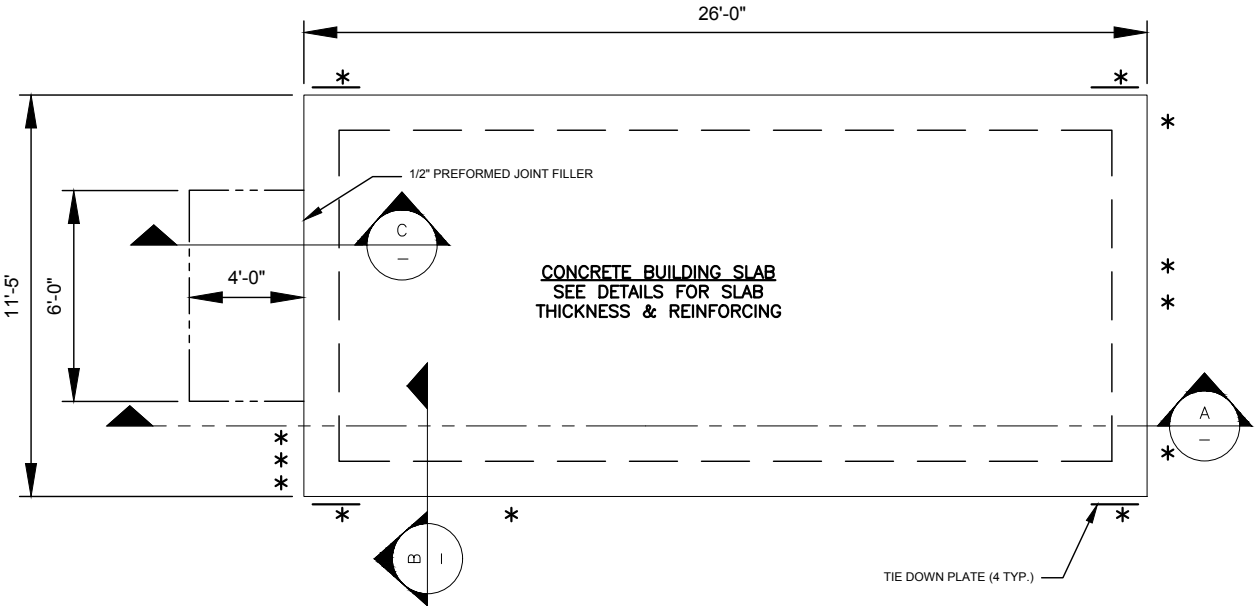
PLAN VIEW



PROFILE

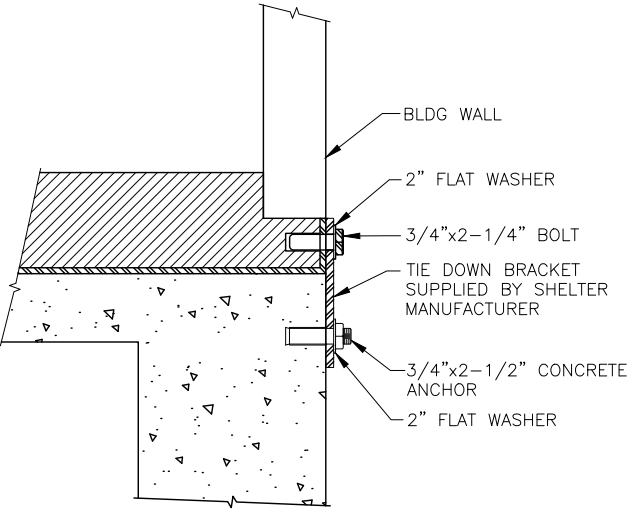
TYPICAL GUY ANCHOR ENCLOSURE
NOT TO SCALE

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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		



SHELTER FOUNDATION PLAN
NOT TO SCALE

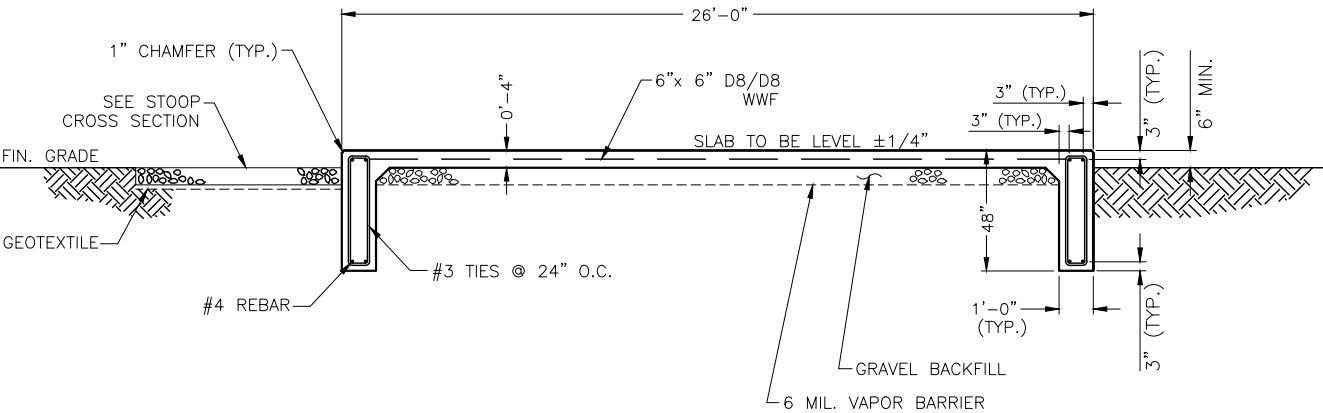
NOTE:
* #2 GROUND PIG TAIL LOCATIONS
SEE GROUNDING PLAN



BLDG/FND ATTACHMENT DETAIL B-B
NOT TO SCALE

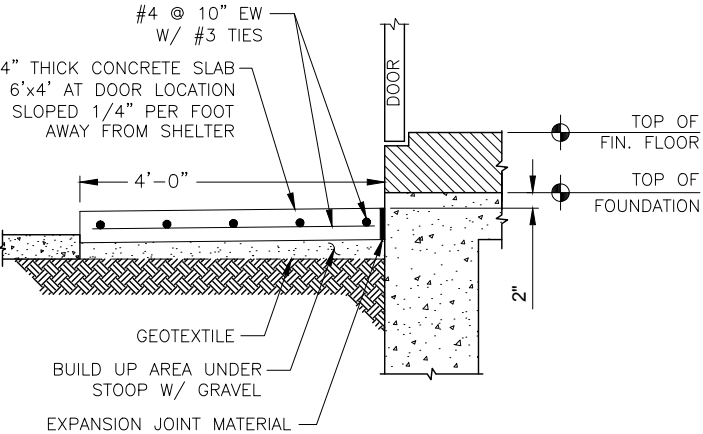
FOUNDATION GENERAL NOTES:

1. THE SITE SHALL BE STRIPPED OF ALL VEGETATION PRIOR TO FILL OR CONSTRUCTION OF THE FOUNDATION PAD.
2. ALL FILL SAND SHALL BE 0-15 P.I. WITH A COMPACTION TEST RUN ON EACH 6" LIFT - COMPACTED TO 90% MODIFIED PROCTOR.
3. ANY SOFT AREAS (TREE STUMP HOLES, ETC.) SHALL BE CUT OUT AND RECOMPACTED TO SAID PROCTOR.
4. THE SUBCONTRACTOR SHALL KEEP THE SITE SO IT WILL HAVE POSITIVE DRAINAGE AT ALL TIMES.
5. ALL EXCAVATIONS SHALL BE FREE OF WATER BEFORE POURING CONCRETE.
6. MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF IN ALL FOUNDATION AND SLAB AREAS.



BLDG/FND ATTACHMENT SECTION A-A
NOT TO SCALE

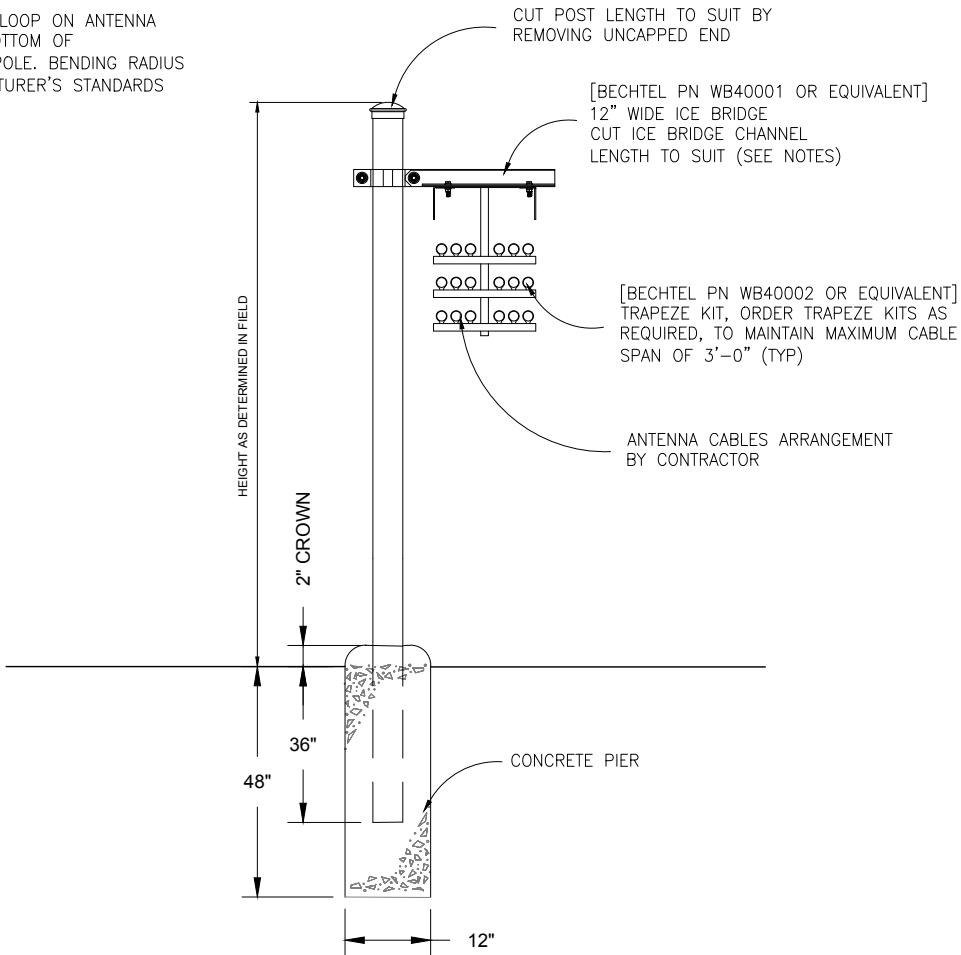
- NOTES:
1. CONCRETE FINISH TO BE CLASS A TOLERANCE.
 2. TEST FOR 3000 PSI AT 7, 14, & 28 DAYS PER POUR BY INDEPENDENT LAB.
 3. ALL CONCRETE TO BE SIX SACK MIX.
 4. PERFORM CONCRETE SLUMP TEST (4" MAX). NO WATER TO BE ADDED TO CONCRETE MIX AFTER 4" SLUMP HAS BEEN ESTABLISHED.



STOOP DETAIL C-C
NOT TO SCALE

0	04/03/24	ISSUED FOR REVIEW	RJH	MM	MM
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

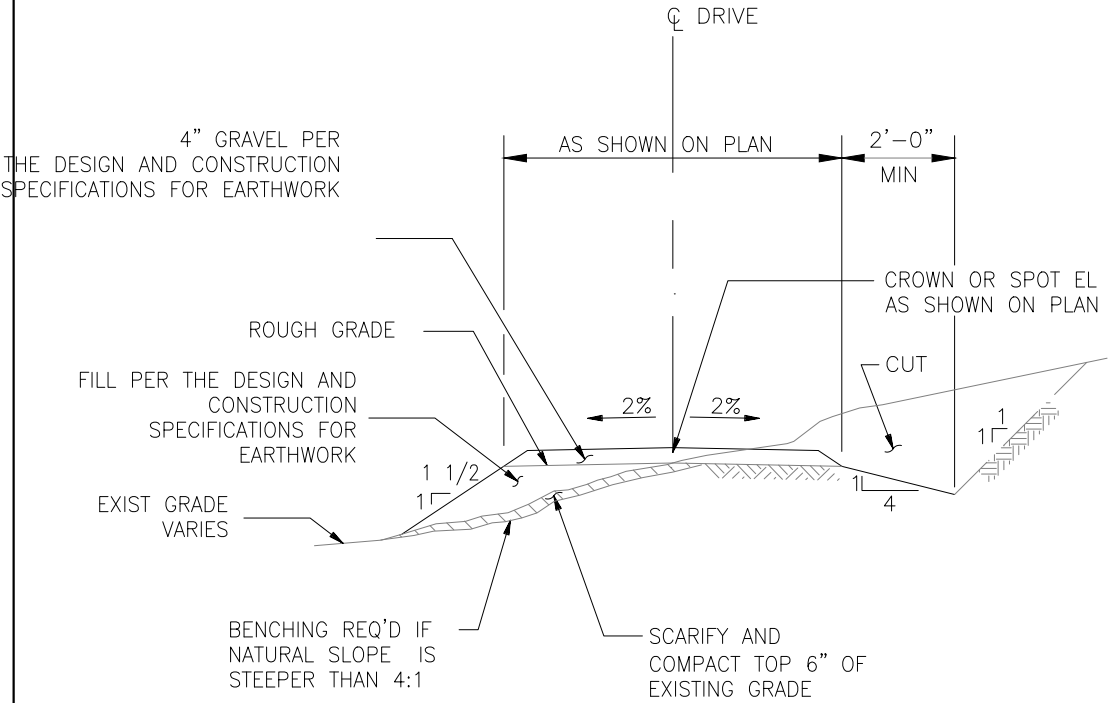
* INSTALL DRIP LOOP ON ANTENNA CABLES AT BOTTOM OF TOWER/MONOPOLE. BENDING RADIUS PER MANUFACTURER'S STANDARDS



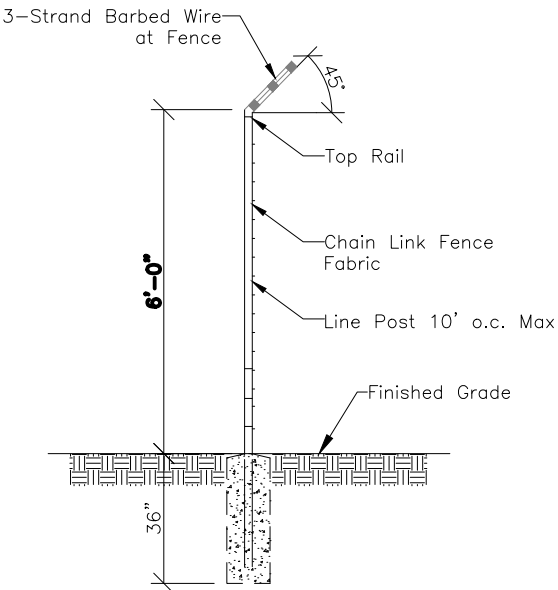
BECHTEL SC:	ROHN PN:	MTS PN:
WB40001		WB-K110-B
WB40002		WB-T12-3

- NOTES:
1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 9 FEET FOR 10 FEET BRIDGE CHANNEL.
 2. WHEN USING COMPONENTS FOR SPLICING BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
 3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILIVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
 4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
 5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
 6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
 7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.

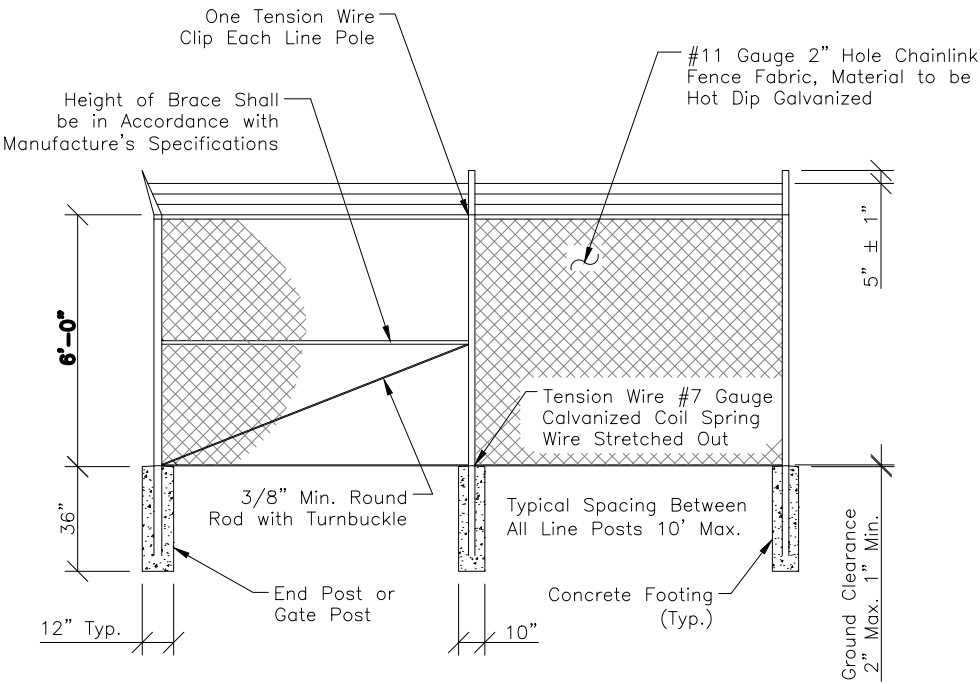
TYPICAL ICE BRIDGE DETAIL
NOT TO SCALE



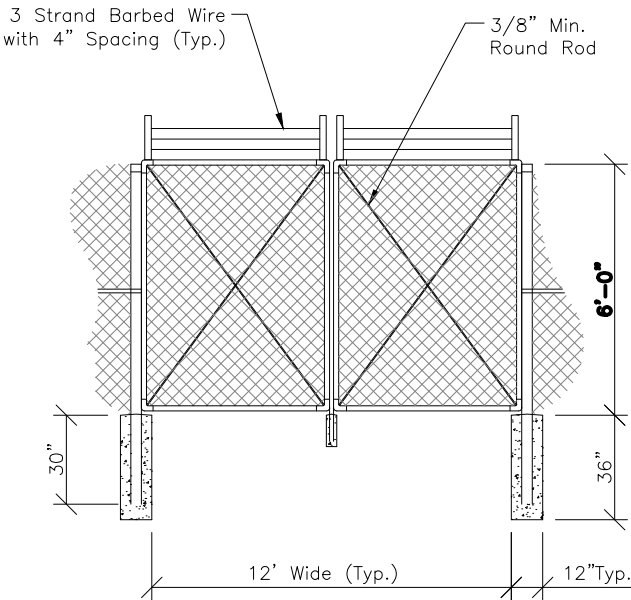
TYPICAL GRAVEL DRIVE
NOT TO SCALE



FENCE / BARBED WIRE ARM DETAIL
NOT TO SCALE



TYPICAL FENCE ELEVATION DETAIL
NOT TO SCALE



NOTE:
FENCING ELEVATIONS ARE ONLY EXAMPLES.
FOLLOW CONSTRUCTION CONTRACT.

TYPICAL SWING GATE DETAIL
NOT TO SCALE

SITE WORK GENERAL NOTES: 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION. 3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS. 4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES. 6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. 7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE. 8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS. 9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT. 10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. 11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS. 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL. <td colspan="2"> CONCRETE AND REINFORCING STEEL NOTES: 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. 2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. 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ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.

4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.

5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.

7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).

8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.

9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.

13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).

14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.

21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES (cont.)

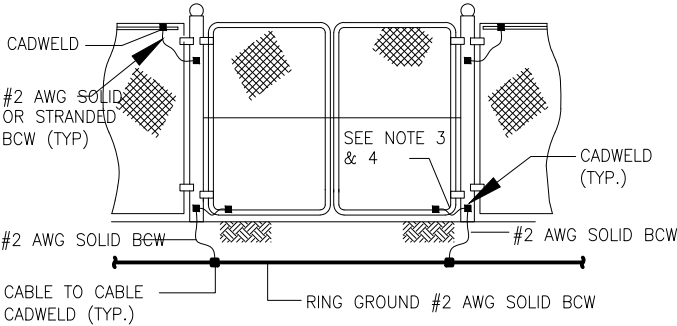
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

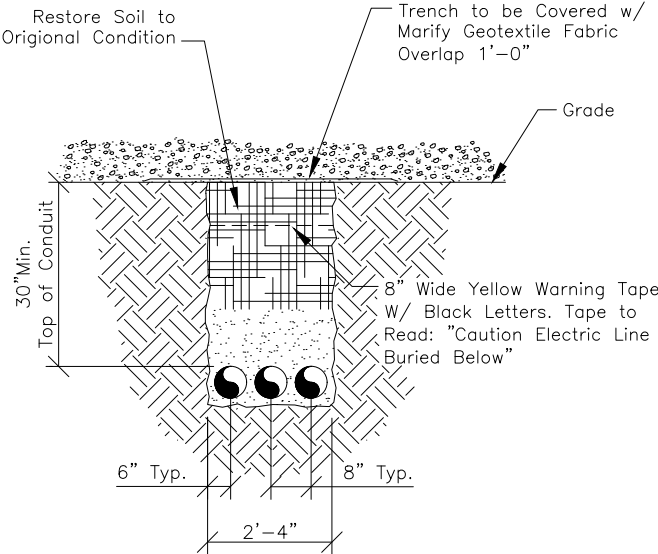
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



NOTES:

1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
2. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING
3. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

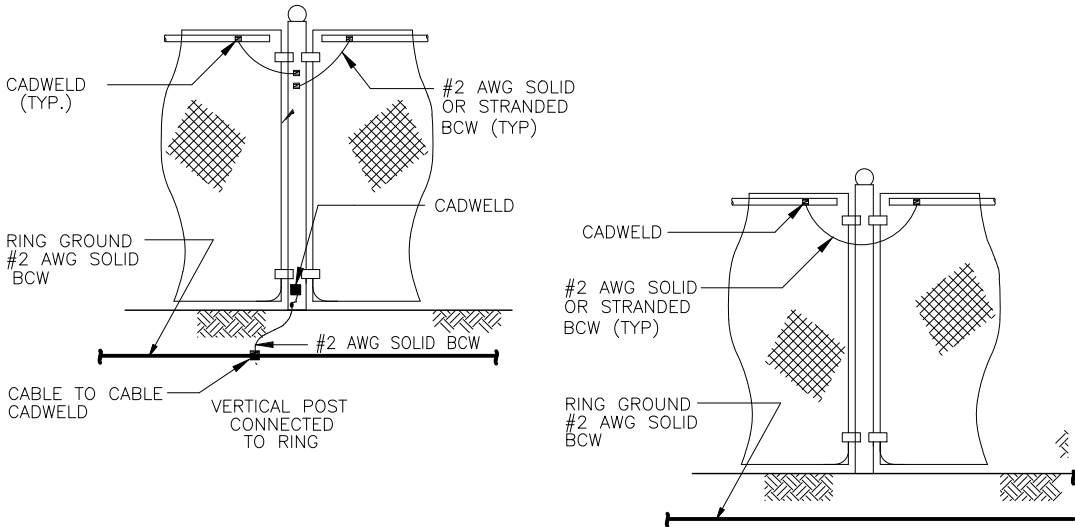
FENCE GATE GROUNDING DETAIL
NOT TO SCALE



TYPICAL TRENCH DETAIL
NOT TO SCALE

NOTE:

1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.
2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
3. BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING

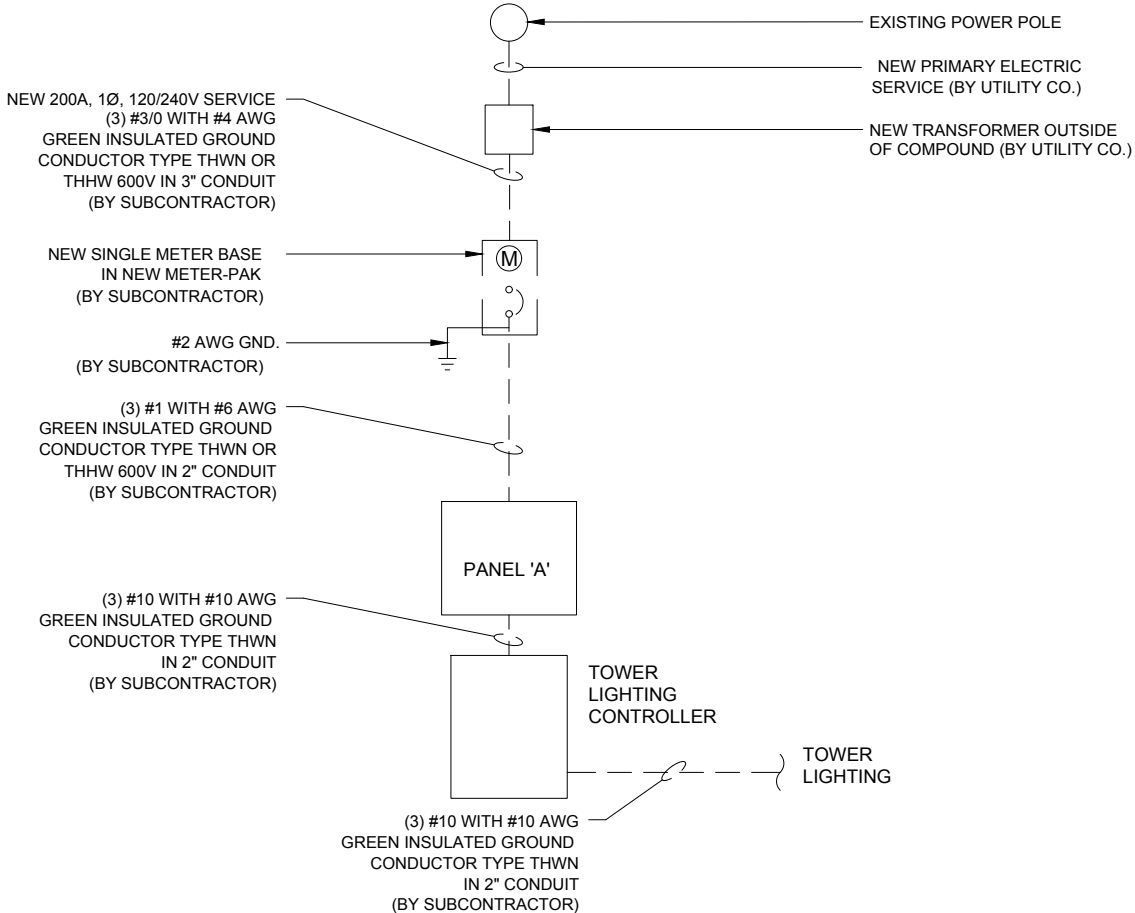


FENCE GROUNDING DETAIL
NOT TO SCALE

0	04/03/24	ISSUED FOR REVIEW	RJH	MM	MM
NO.	DATE	REVISIONS	BY	CHK	APPD
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

ELECTRICAL NOTES:

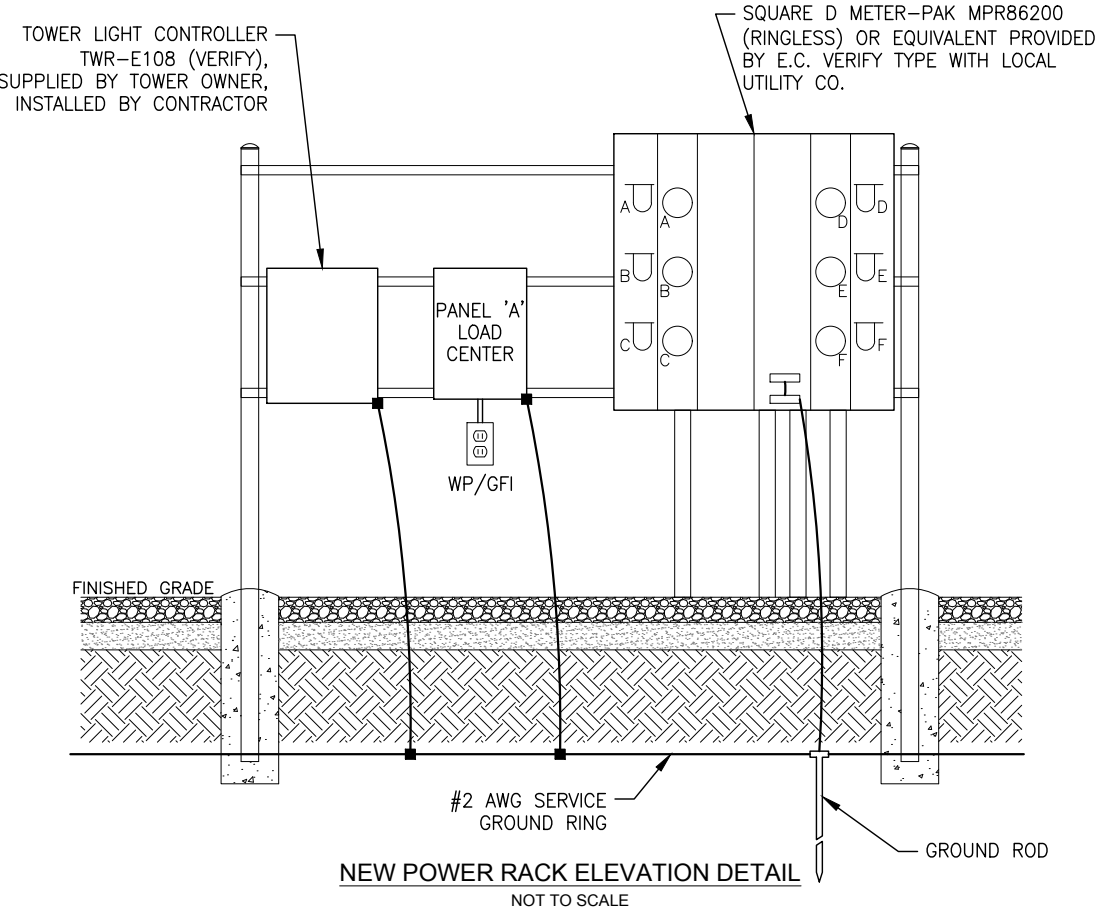
1. SUBCONTRACTOR SHALL PROVIDE 200AMP, SINGLE PHASE, 120/240 VAC, 60HZ SERVICE FOR SITE.
2. SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
4. SUBCONTRACTOR SHALL INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
5. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
6. CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
7. SUBCONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL IS SERVICE ENTRANCE EQUIPMENT.



100 AMP SINGLE LINE DIAGRAM
NOT TO SCALE

PANEL 'A' SCHEDULE											
POS.	SERVING	BREAKER	WIRE SIZE AND TYPE	LOAD		POS.	SERVING	BREAKER	WIRE SIZE AND TYPE	LOAD	
				A	B					A	B
1	TOWER LIGHTING CONTROLLER	30A/2P	2-#10 / #10 GND, 2" C.		2400	2	EQUIP. RACK RECEPT.	15A/1P	2-#10 / #10 GND, 3/4" C.	180	
3						4					
5	TELCO BOX RECEPT.	15A/1P	2-#10 / #10 GND, 3/4" C.	180		6					
7						8					
9						10					
11	BLANK					12					
TOTAL				360	2400						
TOTAL AMPS				11.5							

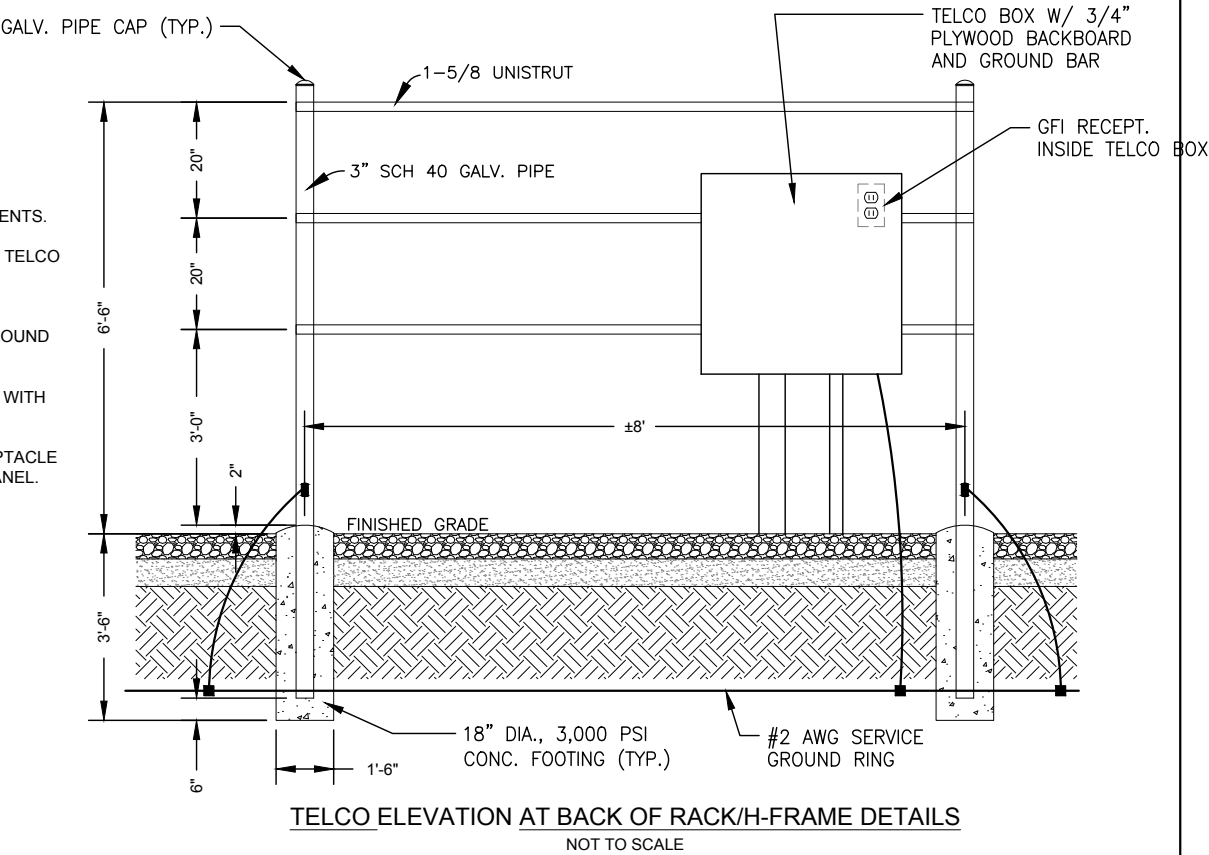
1. FROM TAP BOX: THE TWO (2) FOUR-INCH (4") CONDUIT WILL RETURN TO THE LOCATION DETERMINED BY "DETROIT EDISON" AND EXTEND OUT OF THE FINISHED GRADE 12" AND 36" RESPECTIVELY (SEE DETAIL). BOTH CONDUITS SHALL BE INSTALLED WITH PULL-STRINGS AND WATERPROOF CAPS.
2. CABINET AND CONDUCTORS FURNISHED & INSTALLED BY CUSTOMER. 350 KCMIL SERVICE CONDUCTORS FURNISHED & INSTALLED BY UTILITY.
3. EQUIPMENT ASSEMBLY DRAWINGS AND RISER DIAGRAMS MUST BE SUBMITTED TO A UTILITY PLANNER FOR ACCEPTANCE PRIOR TO INSTALLATION.
4. CABINETS AND CONDUITS SHOWN SHALL CONTAIN ONLY UNMETERED LINE CONDUCTORS. CABINET SHALL BE SEALABLE WITH ACCEPTABLE SEALING HASP.
5. TRANSMISSION TOWER SERVICES WILL UTILIZE A STANDARD 200 AMP SERVICE W/ CONTINUOUS CONDUIT TO THE SOURCE.
6. SUBSTATION CELLULAR SERVICES WILL BE A SINGLE 200-AMP SERVICE OR BUILT TO THIS SPECIFICATION. NO SERVICE SHALL BE TAKEN OUT OF THE SUBSTATION HOUSE SERVICE.
7. ALL CONDUIT AND NIPPLE ENTRIES TO CABINET AND METER BOXES WILL BE MADE WITH WEATHERPROOF HUBS, CONNECTORS OR LOCKNUTS LISTED FOR THE APPLICATIONS. NON-METALLIC BUSHINGS.
8. FOR INACCESSIBLE LOCATIONS CONSULT WITH METER ENGINEERING FOR POSSIBLE ERT METER INSTALLATION.
9. ONLY ONE SERVICE ALLOWED PER LUG. ALL GROUNDING AND BONDING MUST COMPLY WITH NEC 250 REQUIRED.

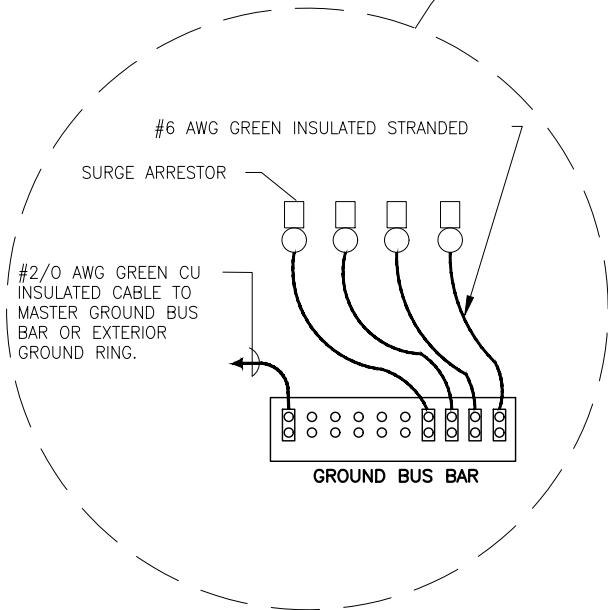
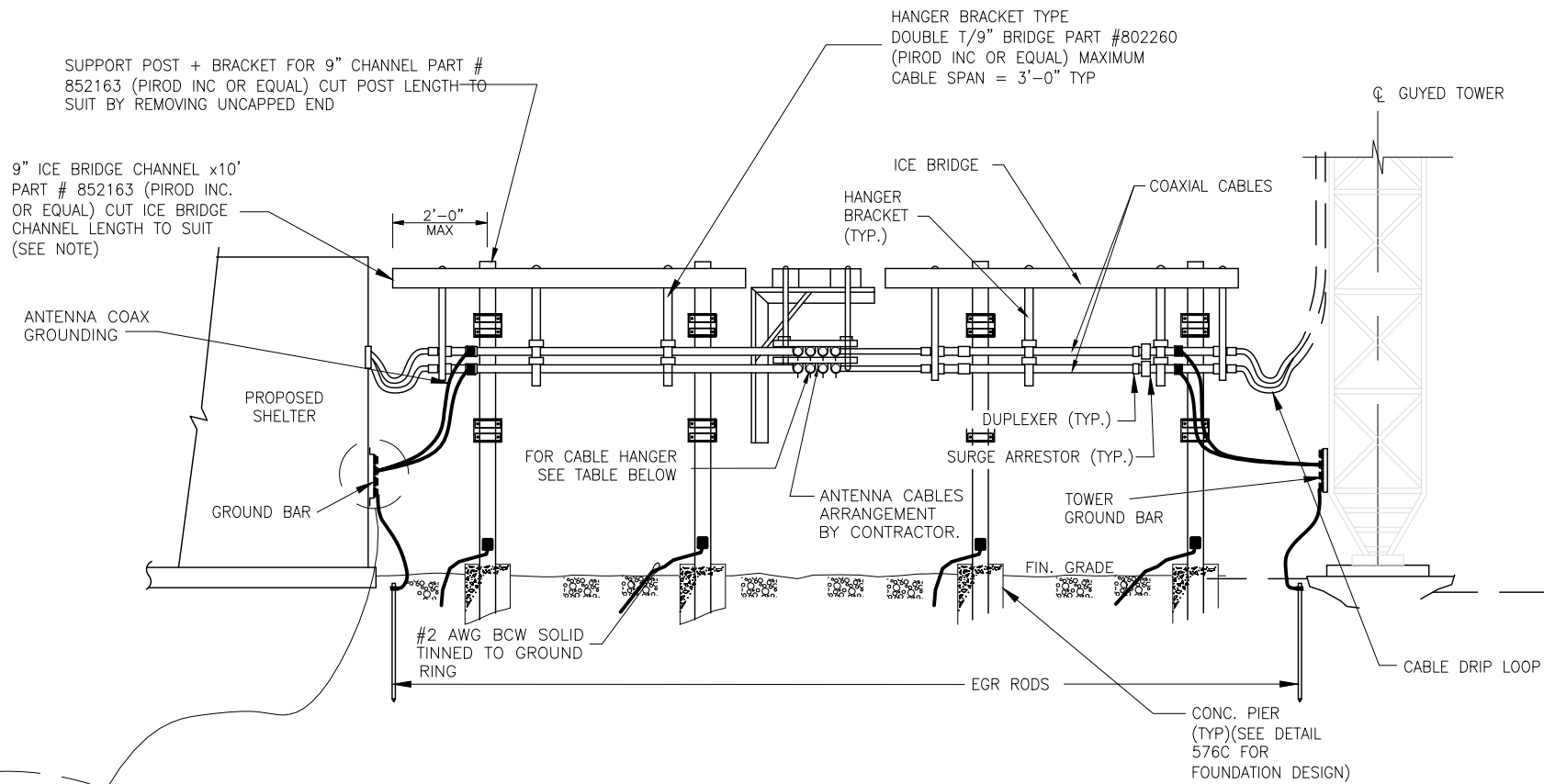


- NOTES:
1. COORDINATE WITH LOCAL TELCO UTILITY PRIOR TO PROCURING AND INSTALLATION OF BOX AND COMPONENTS.
2. ALL MATERIAL SHALL MEET REQUIREMENTS OF LOCAL TELCO UTILITY.
3. ITEM #4 SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. BOND SURGE PROTECTION UNIT TO GROUND BAR WITH #6 AWG INSULATED WIRE.
4. COORDINATE SIZE, TYPE AND QUANTITY OF ITEM(S) #5 WITH LOCAL UTILITY.
- INSTALL ITEM #6 ONLY IF REQUIRED BY UTILITY. RECEPTACLE POWERED FROM SPARE BREAKER IN DISTRIBUTION PANEL.

MATERIAL LIST:

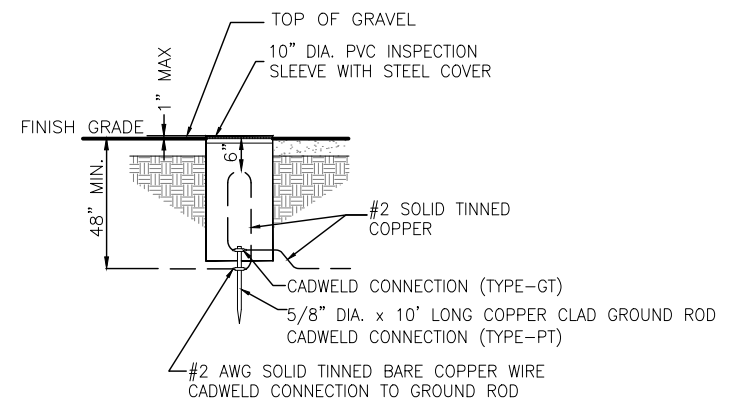
① 36" X 36" X 10" NEMA 3R ENCLOSURE (HOFFMAN A36R3610HCR OR SIMILAR)



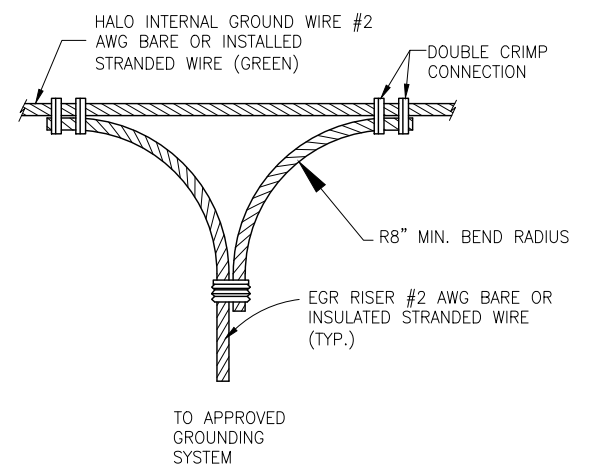


NOMINAL CABLE SIZE	CABLE TYPE NUMBER	CABLE HANGER TYPE NUMBER	MANUF. MIN. BEND RADIUS	MAX NO. OF CABLES/CND
1/2"	LDF4-50A	206706-1	5"	9
1/2"	FSJ4-50B	206706-1	1.25"	9
7/8"	LDF5-50A	206706-2	10"	3
1 1/4"	LDF6-50	206706-3	15"	1
1 5/8"	LDF7-50A	206706-4	20"	1

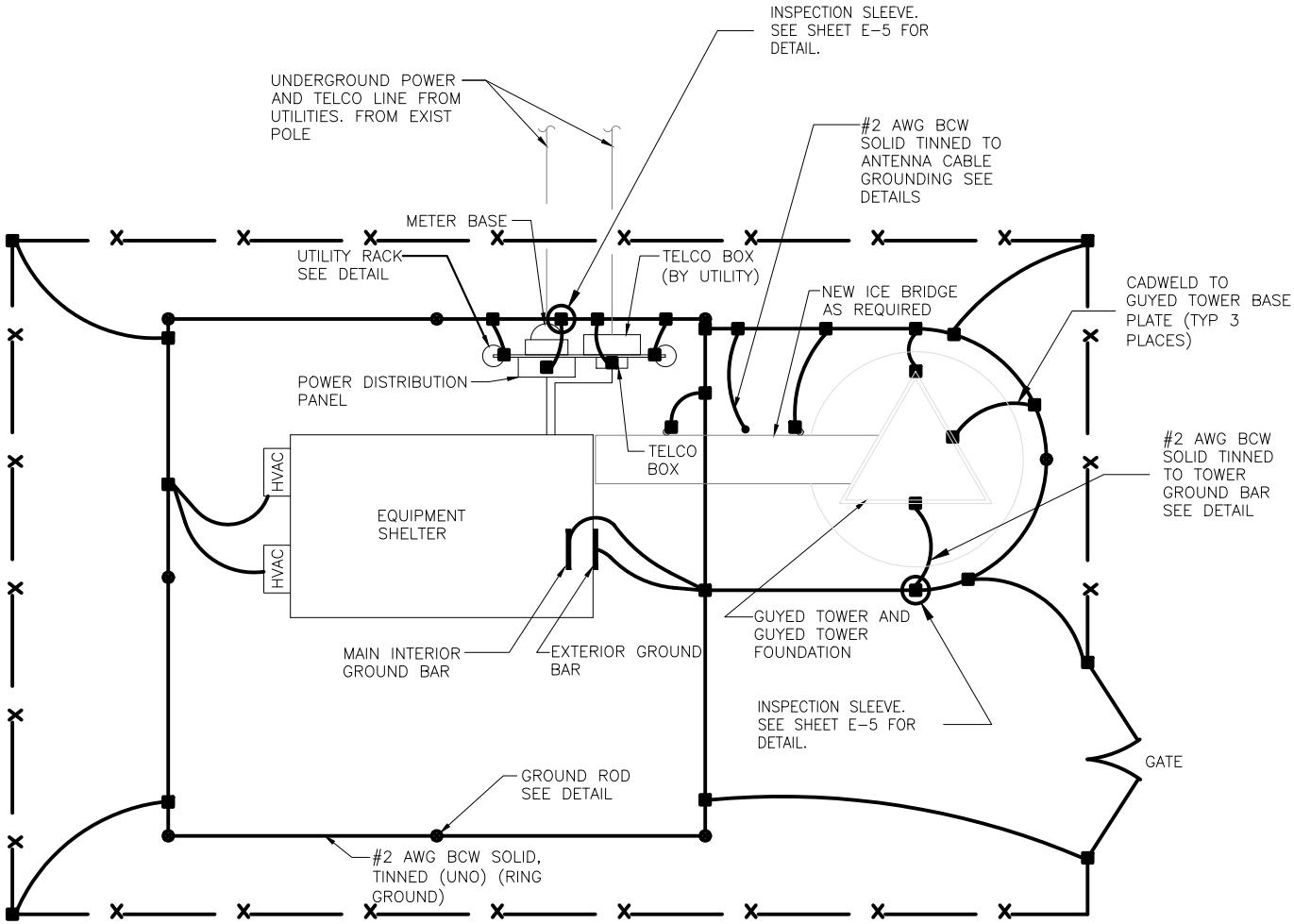
ICE BRIDGE W/ SHELTER DETAIL
NOT TO SCALE



INSPECTION SLEEVE DETAIL
NOT TO SCALE



HALO NON-DIRECTIONAL GROUND
RING SPLICE DETAIL
NOT TO SCALE

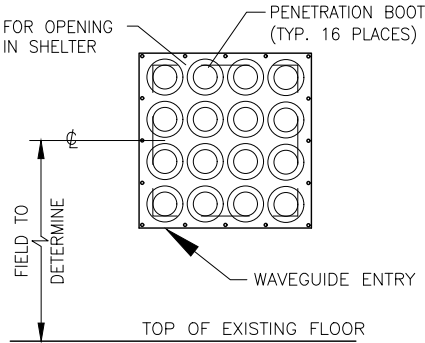


NOTE:
THIS GROUNDING PLAN IS TYPICAL. SEE
SHEET S-2 FOR ACTUAL EQUIPMENT
LAYOUT.

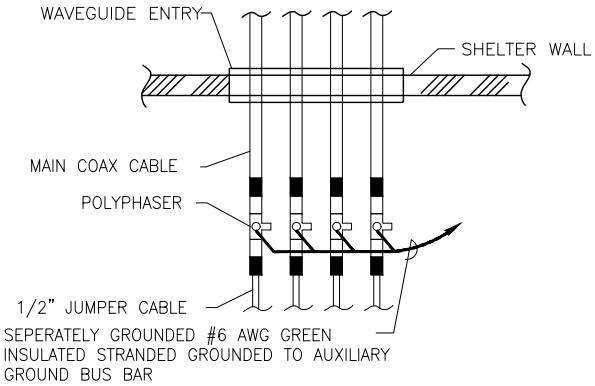
TYPICAL MONOPOLE SITE GROUNDING PLAN
NOT TO SCALE

GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. INSTALL GROUND RODS FOR THE NEW GROUND RING. SEPARATION BETWEEN GROUND RODS SHOULD NOT BE LESS THAN THE LENGTH OF THE RODS NOR BE MORE THAN ONE AND ONE-HALF TIMES THE LENGTH OF THE RODS. CONNECT THE NEW RING TO EXISTING GROUND RING IN AT LEAST TWO SEPARATE PLACES.

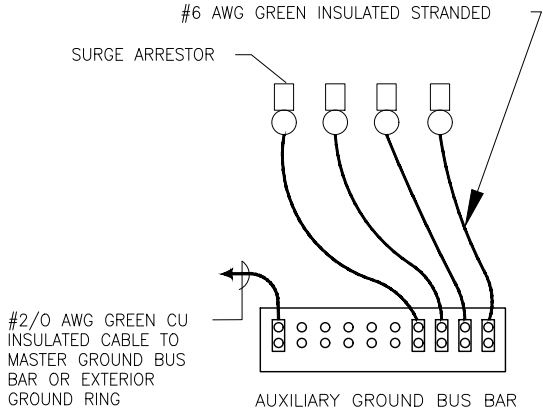


ELEVATION



PLAN

POLYPHASER GROUNDING INSIDE SHELTER
NOT TO SCALE



0	04/03/24	ISSUED FOR REVIEW	RJH	MM	MM
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: MM	DRAWN BY: RJH		

APPENDIX B

Aerial Photographs, Topographic Maps

1998 Aerial

LaPointe

Google Earth

Image U.S. Geological Survey

2005 Aerial

LaPointe

Google Earth

Image USDA/FPAC/GEO

2010 Aerial

LaPointe

Google Earth

Image USDA/FPAC/GEO

2015 Aerial

LaPointe

Google Earth

2019 Aerial

LaPointe

Google Earth

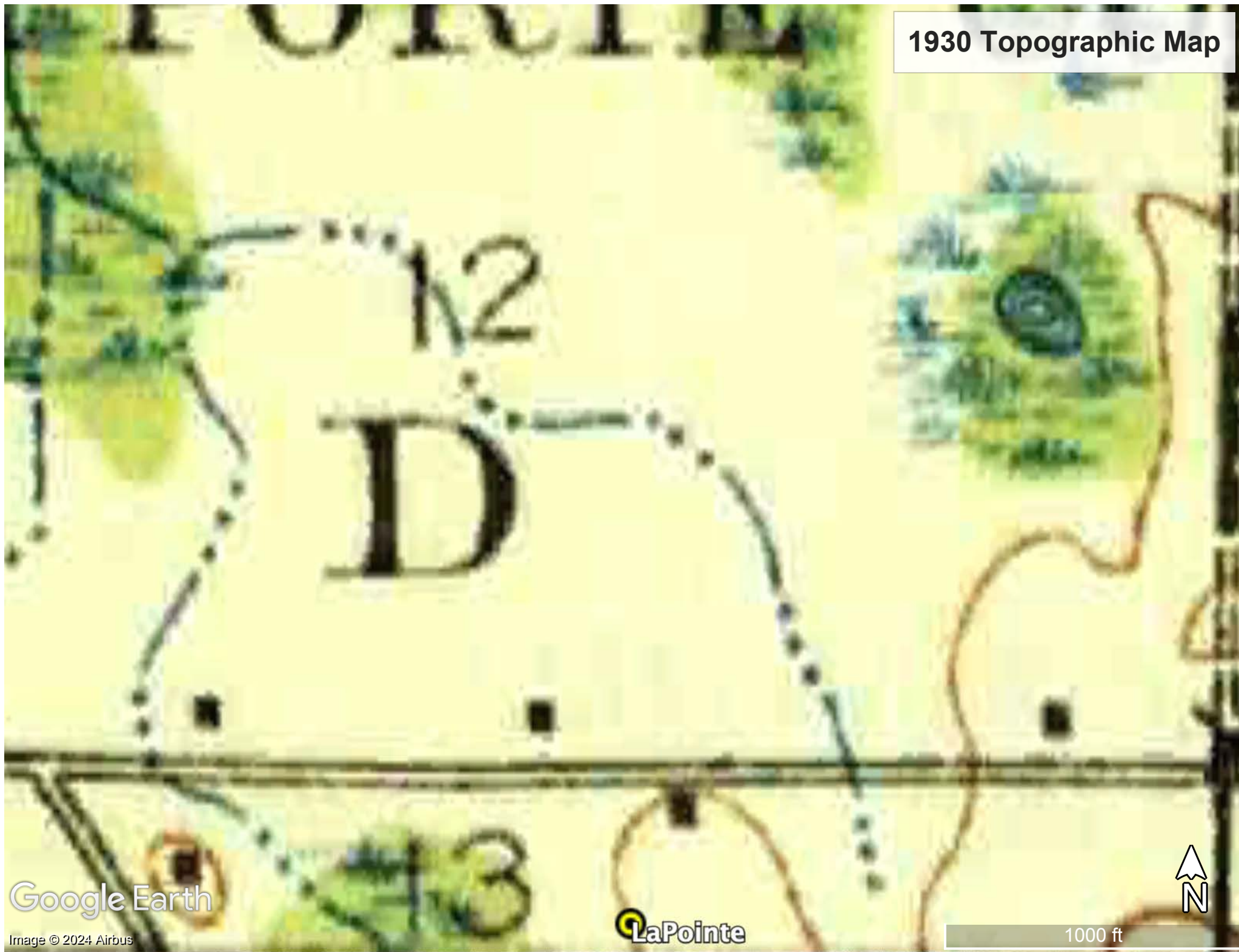
2024 Aerial

LaPointe

Google Earth

Image © 2024 Airbus

1930 Topographic Map



Google Earth

Image © 2024 Airbus

LaPointe

1000 ft

1944 Topographic Map

BERRIEN
LA PORTE

Google Earth

Image © 2024 Airbus

LaPointe



1000 ft

1957 Topographic Map



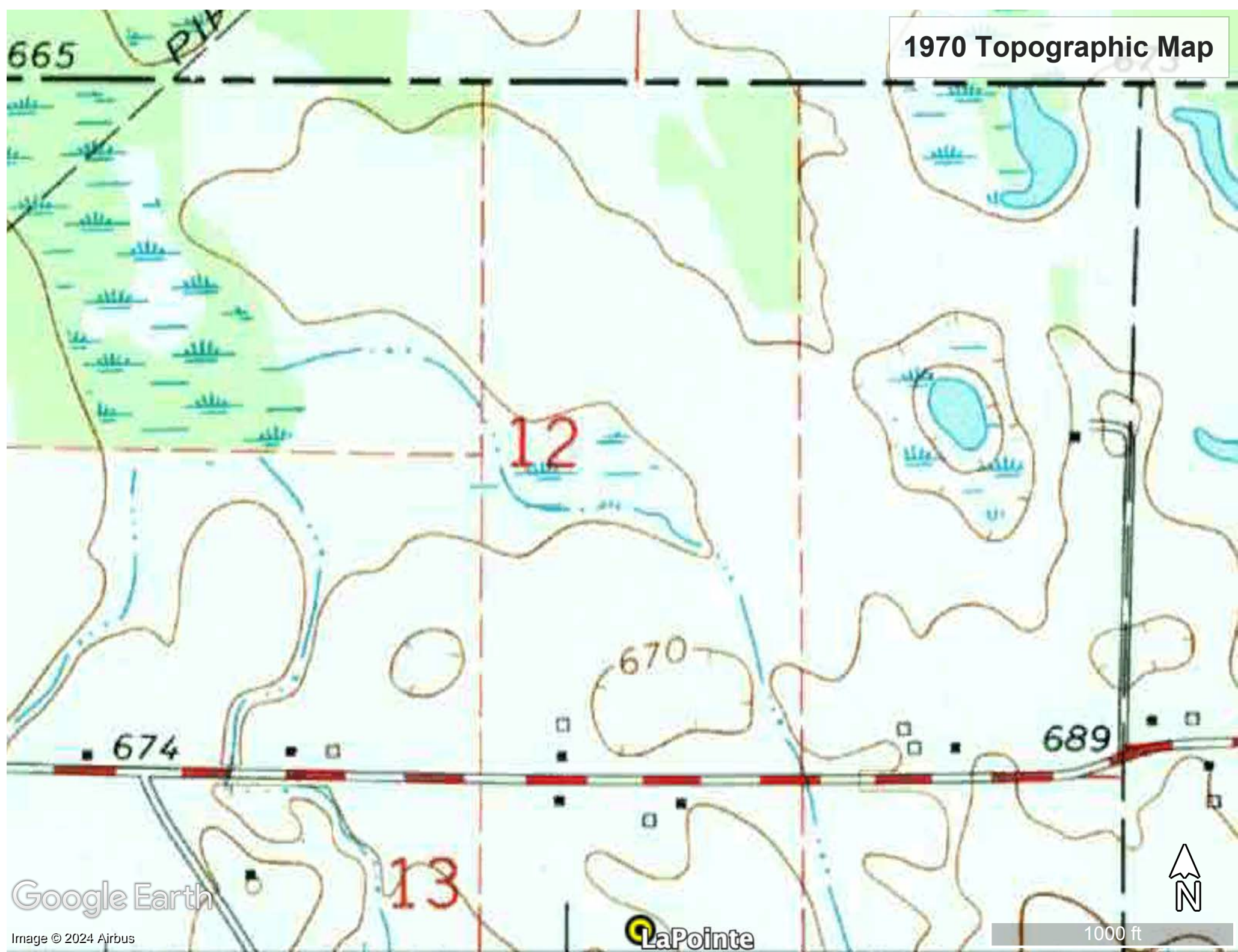
Google Earth

Image © 2024 Airbus



1 mi

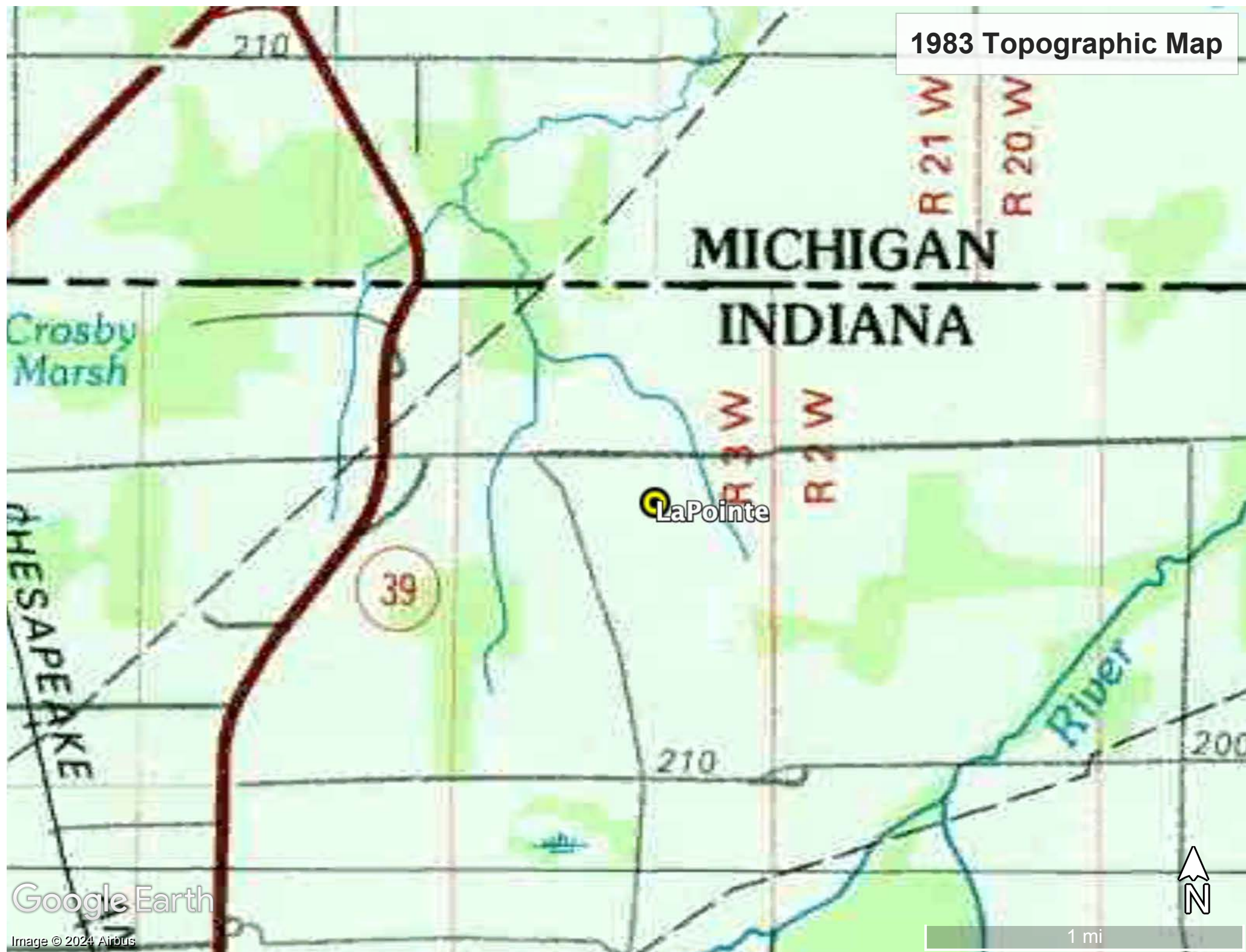
1970 Topographic Map



Google Earth

Image © 2024 Airbus

1983 Topographic Map



APPENDIX C

ERIS Database Search Report



DATABASE REPORT

Project Property:	<i>LaPointe 344 West 1000 North La Porte IN 46350</i>
Project No:	<i>24040094</i>
Report Type:	<i>Database Report</i>
Order No:	<i>24060400120</i>
Requested by:	<i>RESCOM Environmental Corp.</i>
Date Completed:	<i>June 7, 2024</i>

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property: *LaPointe
344 West 1000 North La Porte IN 46350*

Project No: *24040094*

Coordinates:

Latitude:	<i>41.750325</i>
Longitude:	<i>-86.707281</i>
UTM Northing:	<i>4,622,097.10</i>
UTM Easting:	<i>524,336.84</i>
UTM Zone:	<i>16T</i>

Elevation: *672 FT*

Order Information:

Order No: *24060400120*

Date Requested: *June 4, 2024*

Requested by: *RESCOM Environmental Corp.*

Report Type: *Database Report*

Historicals/Products:

ERIS Xplorer [*ERIS Xplorer*](#)

Excel Add-On *Excel Add-On*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Standard Environmental Records</u>								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Y	1	0	0	0	0	0	0

State

SHWS	Y	1	0	0	0	0	0	0
SUPERFUND	Y	1	0	0	0	0	0	0
SCP	Y	0.5	0	0	0	0	-	0
MGP	Y	1	0	0	0	0	0	0
SWF	Y	0.5	0	0	0	0	-	0
LANDFILLS	Y	0.5	0	0	0	0	-	0
OLD LF	Y	0.5	0	0	0	0	-	0
WASTE	Y	0.5	0	0	0	0	-	0
SWF VFC	Y	0.5	0	0	0	0	-	0
WASTE TIRE	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	0	0	-	0
LUST VFC	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
UST VFC	Y	0.25	0	0	0	-	-	0
DTNK	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
AUL	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0

Tribal

INDIAN LST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County

No County standard environmental record sources available for this State.

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Additional Environmental Records</u>								
Federal								
PFAS GHG	Y	0.5	0	0	0	0	-	0
OSC RESPONSE	Y	0.125	0	0	-	-	-	0
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0

State

SPILLS	Y	0.125	0	0	-	-	-	0
HIS SPILLS	Y	0.125	0	0	-	-	-	0
HAZ WASTE SITES	Y	1	0	0	0	0	2	2
TSDF	Y	0.5	0	0	0	0	-	0
INDUSTRIAL WASTE	Y	0.25	0	0	0	-	-	0
VFC FACILITIES	Y	0.25	0	0	0	-	-	0
CDL	Y	0.125	0	0	-	-	-	0
CLEANED CDL	Y	0.125	0	0	-	-	-	0
FEEDLOTS	Y	0.5	0	0	0	0	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
CHEM	Y	0.25	0	0	0	-	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Total:	0	0	0	0	2	2
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* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>1</u>	HAZ WASTE SITES	SERVICE 1 MARINE	10553 N SR 39 LA PORTE IN 46350	WNW	0.98 / 5,181.55	0	<u>16</u>
<u>2</u>	HAZ WASTE SITES	SPEEDWAY 8324	10555 N SR 39 LA PORTE IN 46350	WNW	0.98 / 5,186.36	-1	<u>16</u>

Executive Summary: Summary by Data Source

Non Standard

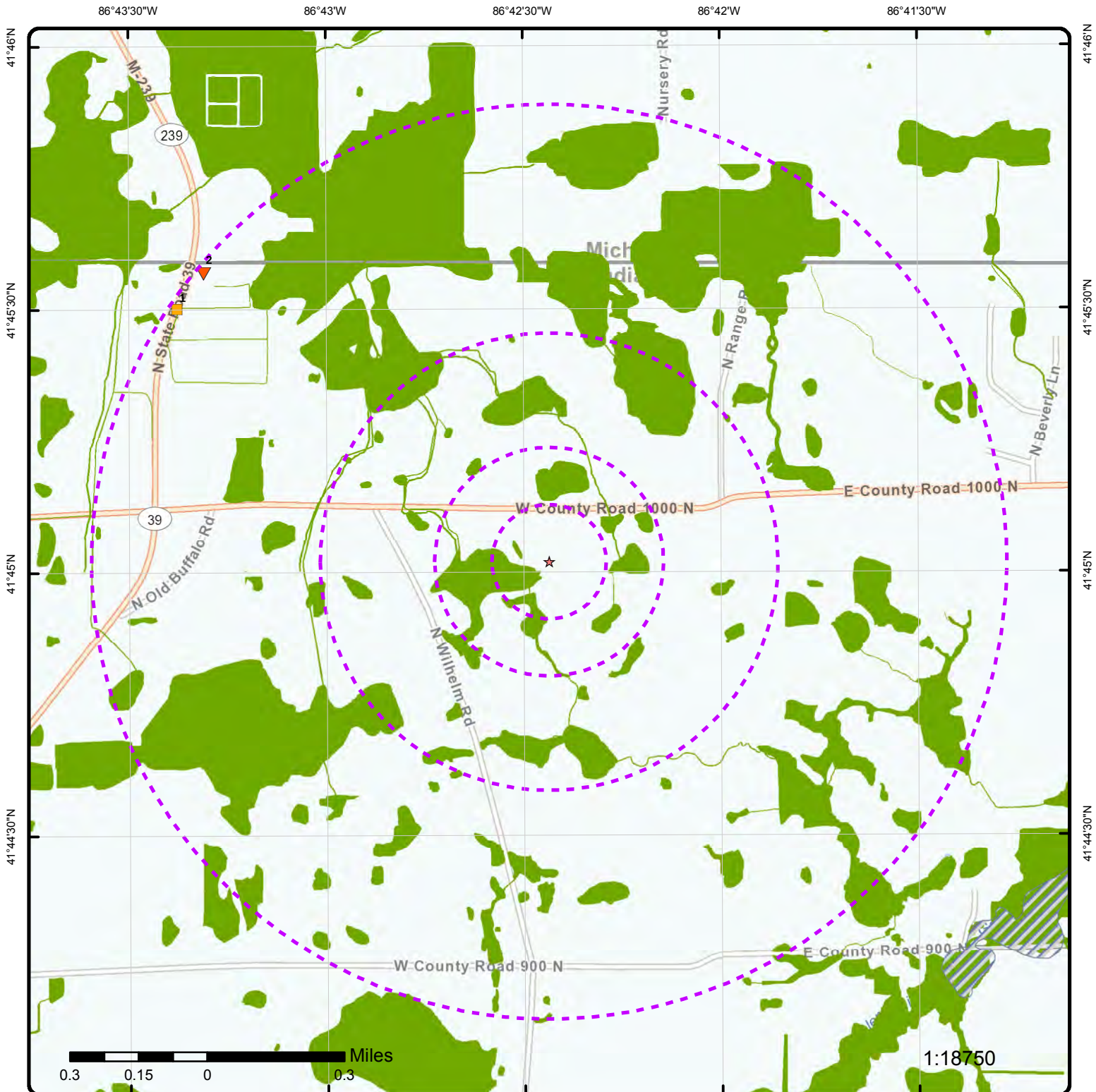
State

HAZ WASTE SITES - Hazardous Waste Sites

A search of the HAZ WASTE SITES database, dated Jul 31, 2022 has found that there are 2 HAZ WASTE SITES site(s) within approximately 1.00miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SERVICE 1 MARINE	10553 N SR 39 LA PORTE IN 46350	WNW	0.98 / 5,181.55	<u>1</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SPEEDWAY 8324	10555 N SR 39 LA PORTE IN 46350	WNW	0.98 / 5,186.36	<u>2</u>

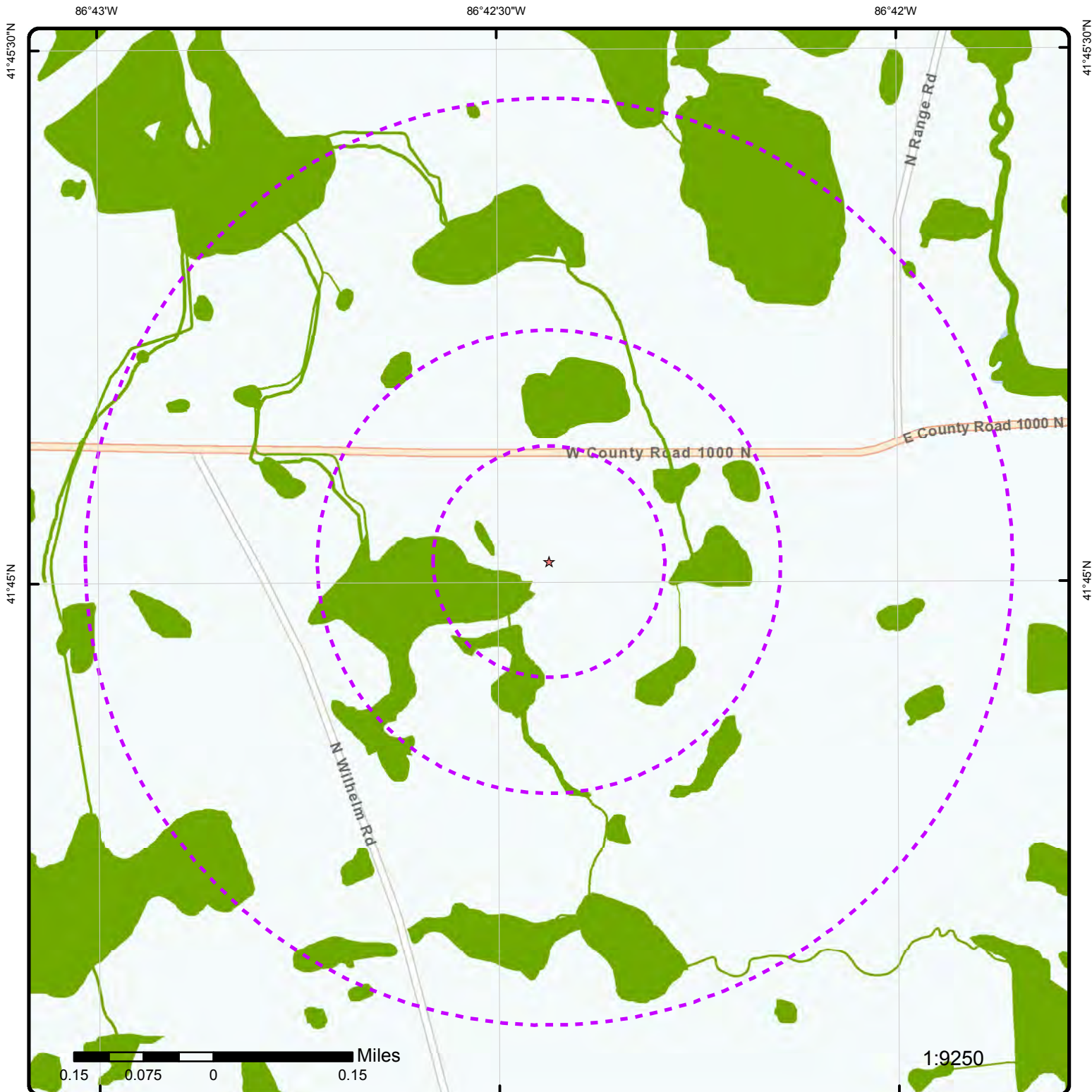


Map: 1.0 Mile Radius

Order Number: 24060400120

Address: 344 West 1000 North, La Porte, IN





Map: 0.5 Mile Radius

Order Number: 24060400120

Address: 344 West 1000 North, La Porte, IN



★ Project Property

--- Buffer Outline

▲ Sites with Higher Elevation

■ Sites with Same Elevation

▼ Sites with Lower Elevation

○ Sites with Unknown Elevation

▭ Areas with Higher Elevation

▭ Areas with Same Elevation

▭ Areas with Lower Elevation

▭ Areas with Unknown Elevation

▬ Freeways; Highways

▬ Traffic Circle; Ramp

▬ Major & Minor Arterial

▬ Traffic Circle; Ramp

▬ Local Road

▬ Rail

▬ State

▬ Country

▭ National Wetland

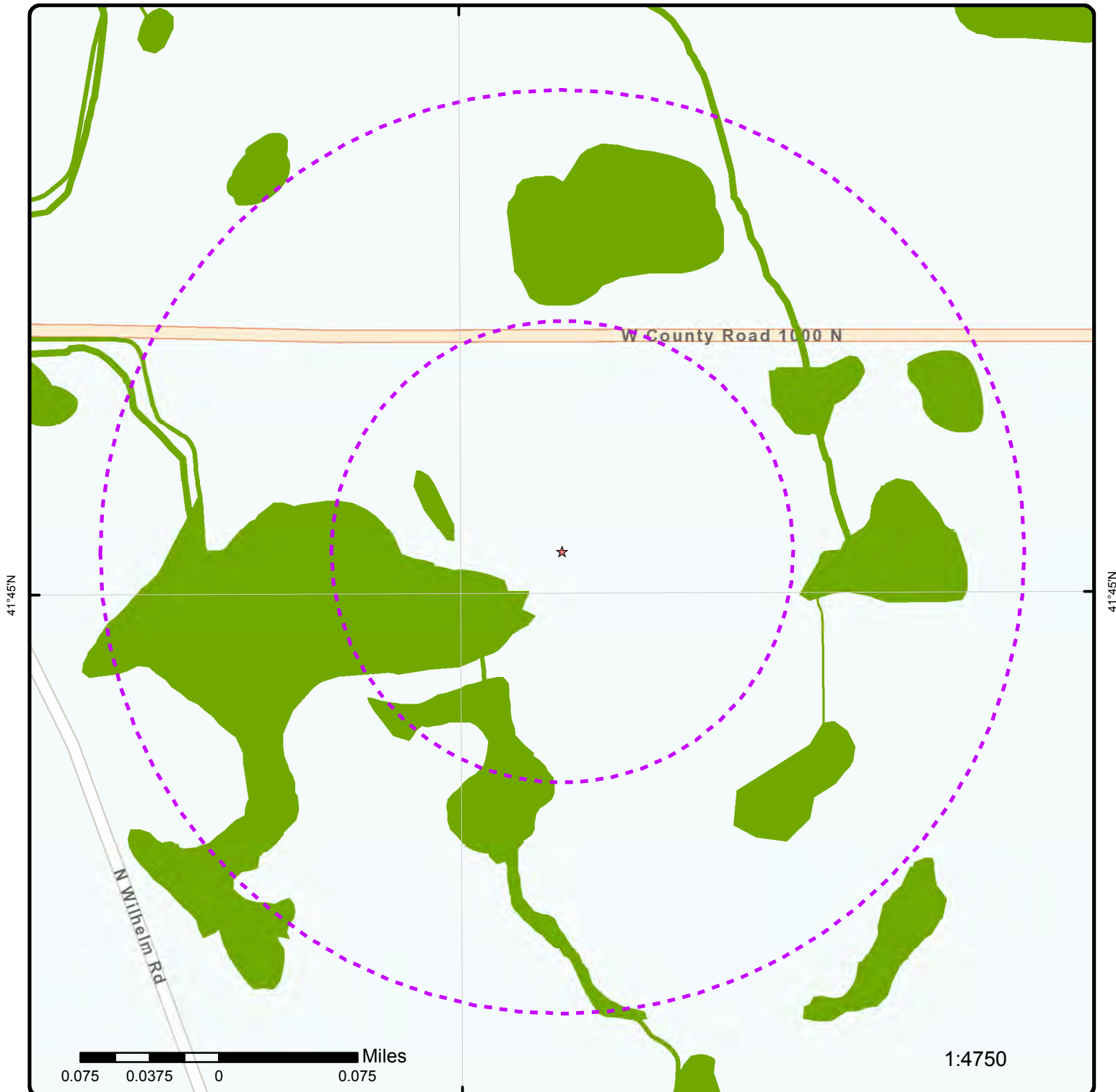
▭ Indian Reserve Land

▭ 100 Year Flood Zone

▭ 500 Year Flood Zone

▭ FWS Special Designation Areas

▭ National Priorities List (Active, Delisted, Proposed, Institutional Control)



Map: 0.25 Mile Radius

Order Number: 24060400120

Address: 344 West 1000 North, La Porte, IN



★ Project Property

Red Outline Buffer Outline

▲ Sites with Higher Elevation

■ Sites with Same Elevation

▼ Sites with Lower Elevation

○ Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

Indian Reserve Land

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)

86°43'W

86°42'30"W

86°42'W

41°45'30"N

41°45'30"N

41°45'N

41°45'N

41°44'30"N

41°44'30"N

0.1 0.05 0 0.1 Miles

1:10000

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Aerial Year: 2023

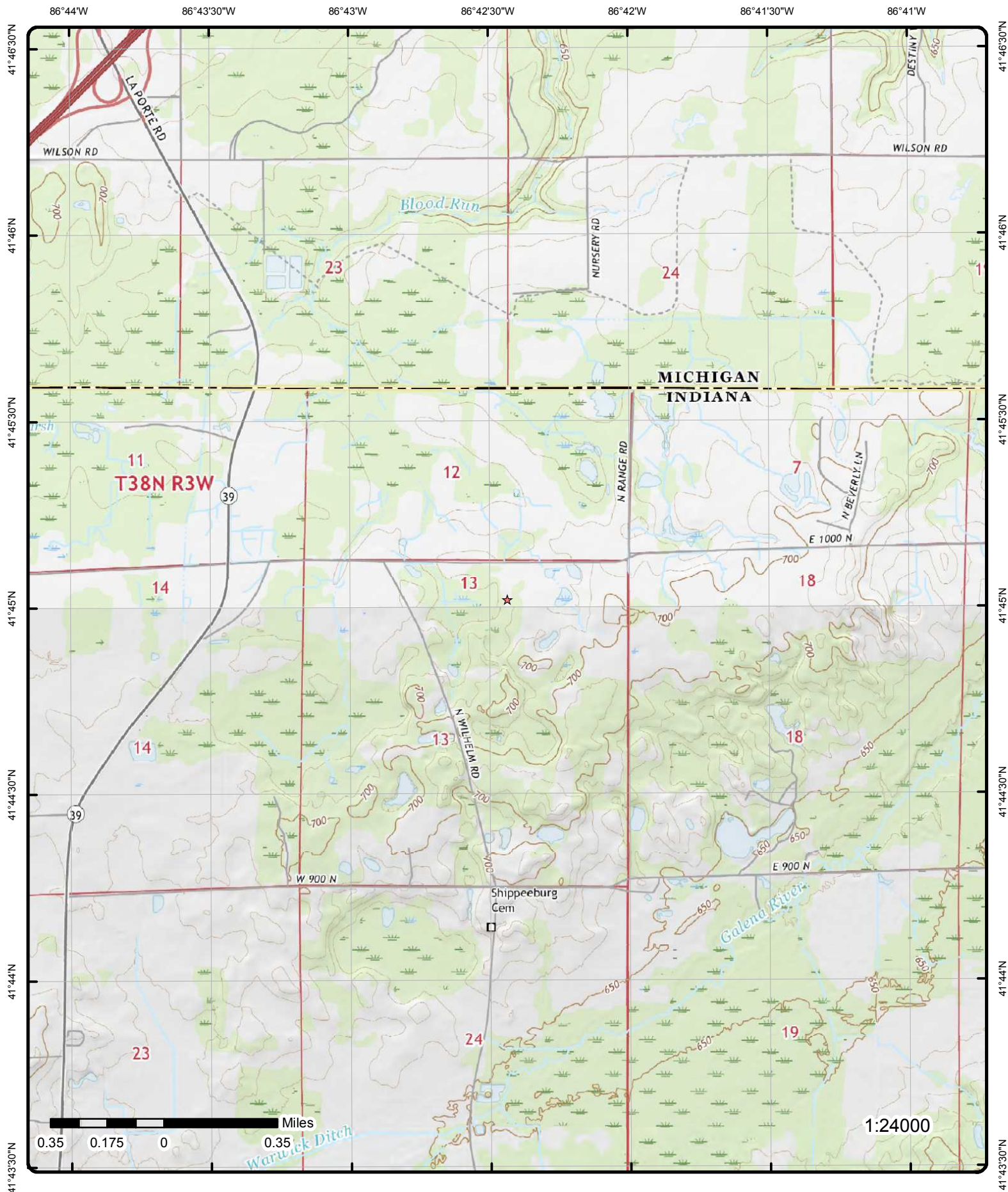
Order Number: 24060400120

Address: 344 West 1000 North, La Porte, IN



© ERIS Information Inc.

Source: ESRI World Imagery



Topographic Map

Year: 2019

Order Number: 24060400120

Address: 344 West 1000 North, IN

Quadrangle(s): Springville IN, New Buffalo East MI,IN

Source: USGS Topographic Map



© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mil/ft)	Elev/Diff (ft)	Site	DB
1	1 of 1	WNW	0.98 / 5,181.55	671.45 / 0	SERVICE 1 MARINE 10553 N SR 39 LA PORTE IN 46350	HAZ WASTE SITES
AI ID:		37120				
Program:		HW Site				
County:		LA PORTE				
Note:		Documents related to facilities in Indiana can be searched on the IDEM Virtual File Cabinet Virtual File Cabinet: https://vfc.idem.in.gov/DocumentSearch.aspx				
Document Details						
Doc No:		46659139		Size:	739 K	
Document Type:		OLQ Field Inspections		Date:	08/30/2002	
Program:		HW Site				
Doc Link:		https://ecm.idem.in.gov/cs/idcplg?IdcService=GET_FILE&dID=3187223&dDocName=46659139&Rendition=web&allowInterrupt=1&noSaveAs=1				
Info Link:		https://vfc.idem.in.gov/DocumentDetail.aspx?dID=3187223				
2	1 of 1	WNW	0.98 / 5,186.36	670.39 / -1	SPEEDWAY 8324 10555 N SR 39 LA PORTE IN 46350	HAZ WASTE SITES
AI ID:		13738				
Program:		ELTF; HW Site; LUST; UST				
County:		LA PORTE				
Note:		Documents related to facilities in Indiana can be searched on the IDEM Virtual File Cabinet Virtual File Cabinet: https://vfc.idem.in.gov/DocumentSearch.aspx				
Document Details						
Doc No:		33073711		Size:	41 K	
Document Type:		OLQ Authorization		Date:	08/28/2008	
Program:		HW Site				
Doc Link:		https://ecm.idem.in.gov/cs/idcplg?IdcService=GET_FILE&dID=3020673&dDocName=33073711&Rendition=web&allowInterrupt=1&noSaveAs=1				
Info Link:		https://vfc.idem.in.gov/DocumentDetail.aspx?dID=3020673				
Document Details						
Doc No:		56371338		Size:	42 K	
Document Type:		OLQ Authorization		Date:	03/22/2010	
Program:		HW Site				
Doc Link:		https://ecm.idem.in.gov/cs/idcplg?IdcService=GET_FILE&dID=3888713&dDocName=56371338&Rendition=web&allowInterrupt=1&noSaveAs=1				
Info Link:		https://vfc.idem.in.gov/DocumentDetail.aspx?dID=3888713				
Document Details						
Doc No:		28853767		Size:	293 K	
Document Type:		OLQ Authorization		Date:	03/03/2008	
Program:		HW Site				
Doc Link:		https://ecm.idem.in.gov/cs/idcplg?IdcService=GET_FILE&dID=3406849&dDocName=28853767&Rendition=web&allowInterrupt=1&noSaveAs=1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Info Link: <https://vfc.idem.in.gov/DocumentDetail.aspx?dID=3406849>

Document Details

Doc No:	19177161	Size:	80 K
Document Type:	OLQ Field Inspections	Date:	06/15/2006
Program:	HW Site		
Doc Link:	https://ecm.idem.in.gov/cs/ldcplg? ldcService=GET_FILE&dID=2668208&dDocName=19177161&Rendition=web&allowInterrupt=1&noSaveAs=1		
Info Link:	https://vfc.idem.in.gov/DocumentDetail.aspx?dID=2668208		

Document Details

Doc No:	33056323	Size:	36 K
Document Type:	OLQ Authorization	Date:	08/28/2008
Program:	HW Site		
Doc Link:	https://ecm.idem.in.gov/cs/ldcplg? ldcService=GET_FILE&dID=2964158&dDocName=33056323&Rendition=web&allowInterrupt=1&noSaveAs=1		
Info Link:	https://vfc.idem.in.gov/DocumentDetail.aspx?dID=2964158		

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
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No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List:

[NPL](#)

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

National Priority List - Proposed:

[PROPOSED NPL](#)

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

Deleted NPL:

[DELETED NPL](#)

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Apr 22, 2024

SEMS List 8R Active Site Inventory:

[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool.

Government Publication Date: Mar 27, 2024

Inventory of Open Dumps, June 1985:

[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Mar 27, 2024

Comprehensive Environmental Response, Compensation and Liability Information System -

[CERCLIS](#)

CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

[RCRA CORRACTS](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Apr 8, 2024

RCRA non-CORRACTS TSD Facilities:

[RCRA TSD](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Apr 8, 2024

RCRA Generator List:[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Apr 8, 2024

RCRA Small Quantity Generators List:[RCRA SQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Apr 8, 2024

RCRA Very Small Quantity Generators List:[RCRA VSQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Apr 8, 2024

RCRA Non-Generators:[RCRA NON GEN](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Apr 8, 2024

RCRA Sites with Controls:[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Apr 8, 2024

Federal Engineering Controls-ECs:[FED ENG](#)

List of Engineering controls (ECs) made available by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 22, 2024

Federal Institutional Controls-ICs:[FED INST](#)

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 22, 2024

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Apr 22, 2024

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Feb 20, 2024

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Feb 7, 2024

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Jan 9, 2024

Delisted Facility Response Plans:

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Jan 9, 2024

Historical Gas Stations:

HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Feb 28, 2024

Petroleum Product and Crude Oil Rail Terminals:

BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from the Federal Communications Commission Data hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Sep 22, 2023

LIEN on Property:

SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Mar 27, 2024

Superfund Decision Documents:

SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Mar 27, 2024

Formerly Utilized Sites Remedial Action Program:

DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

State Hazardous Waste Sites:

SHWS

A list of Hazardous Waste Response Sites scored using the Indiana Scoring Model (ISM). State hazardous waste site records are the states' equivalent to Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). These sites may or may not already be listed on the federal CERCLIS list. CERCLIS contains data on potentially hazardous waste sites that have been reported to the US Environmental Protection Agency (EPA) by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This list made available by Department of Environmental Management. This database is state equivalent CERCLIS.

Government Publication Date: Dec 7, 2000

State Superfund Sites:

SUPERFUND

This list of Superfund Program site locations is made available by the Indiana Department of Environmental Management, Office of Land Quality (IDEM, OLQ). According to the IDEM, their Superfund program works with the U.S. Environmental Protection Agency to clean up sites contaminated with hazardous waste that may require complex investigations, significant cleanup actions, and long-term attention. The program involves a multi-phase process that begins with an assessment to determine if contamination is present that may impact a community. Sites that are determined to be a problem are placed on the National Priorities List (NPL). Some sites have been delisted from the NPL but are still subject to review and maintenance. This database is state equivalent CERCLIS.

State Cleanup Sites:

SCP

This list of State Cleanup Program (SCP) sites is provided by the Indiana Department of Environmental Management, Office of Land Quality (IDEM, OLQ). The SCP manages sites that are contaminated with hazardous substances or petroleum, but are not included on the National Priorities List of the federal Superfund program, after which it is modeled. It follows aspects of the National Oil and Hazardous Substances Pollution Contingency Plan, 40 Code of Federal Regulations, Part 300, as well as the Remediation Closure Guide. The Program manages remediation projects at sites such as dry cleaning facilities, manufacturing facilities, petroleum refineries, petroleum storage terminals, abandoned landfills, unregulated underground storage tank sites, and other industrial sites. Regardless of the extent of oversight provided by the SCP, responsible parties are required to perform the necessary site characterization and remedial activities.

Government Publication Date: Feb 14, 2024

Remediation Manufactured Gas Plants:

MGP

A list of former Manufactured Gas Plants made available by the Indiana Department of Environmental Management, Office of Land Quality. There are at least 74 known former MGPs in Indiana. From the 1850's through the 1940's, numerous toxic by-products (such as tars and purifier wastes) were often stored in subsurface structures or disposed of in the dump areas at MGP sites. Significant amounts of contamination usually occurred at these sites due to the nature of gas production.

Government Publication Date: Aug 1, 2023

Indiana Permitted Solid Waste Facilities:

SWF

Statewide list of active and inactive solid waste facilities permitted by Indiana Department of Environmental Management (IDEM). This list made available by Department of Environmental Management.

Government Publication Date: Dec 12, 2023

Landfill Sites:

LANDFILLS

List of landfill sites made available by the Indiana Geological Survey (IGS) - from the Indiana Department of Environmental Management (IDEM), Office of Land Quality. Includes open dump sites, approved landfills, and permitted landfills.

Government Publication Date: Apr 11, 2024

Old Landfills:

OLD LF

List includes solid and industrial waste landfills that are finished with their post-closure care, and older landfills that were never permitted. Post-closure care requires submittal of documentation to Indiana Department of Environmental (IDEM), maintenance of the cover, and methane and ground water monitoring, where applicable. Landfills that are finished with post-closure care: no longer submit information; IDEM inspects them less frequently; and they disappear off the Permit Manager's list.

Government Publication Date: Apr 30, 2010

Waste Disposal, Storage, and Handling:

WASTE

List of waste site locations for the disposal, storage, and handling of solid and hazardous waste in Indiana recorded by the Indiana Department of Environmental Management, Office of Land Quality (IDEM, OLQ). Types of waste sites include constructions/demolition waste, composting of CFO waste, clean fill, municipal, non-municipal, open dumps, restricted waste, surface impoundments, sanitary landfills, incinerators, material recovery, medical waste, recycling, and waste transfer stations.

Government Publication Date: Oct 19, 2018

Solid Waste Facilities from IDEM Virtual File Cabinet (VFC):

SWF VFC

List of facilities from the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) that have an associated Solid Waste document.

Government Publication Date: Jul 31, 2022

Waste Tire Sites:

WASTE TIRE

This is a state wide listing of waste tire facilities provided by the Indiana Department of Environmental Management (IDEM).

Government Publication Date: Dec 12, 2023

Leaking Underground Storage Tanks:

LUST

List of Leaking Underground Storage Tank (LUST) sites in the Indiana Department of Environmental Management (IDEM) database. Includes suspected, active, and no-further-action release sites from regulated and non-regulated tanks, as well as sites from the IDEM Virtual File Cabinet (VFC) with associated LUST program documents.

Government Publication Date: Apr 1, 2024

LUST Facilities from IDEM Virtual File Cabinet (VFC):

LUST VFC

List of facilities from the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) that have an associated Leaking Underground Storage Tank (LUST) document accessible through the Virtual File Cabinet (VFC).

Government Publication Date: Jul 31, 2022

Delisted Leaking Storage Tanks:

DELISTED LST

This database contains a list of closed leaking storage tank sites that were removed from the Indiana Department of Environmental Management (IDEM) database and the IDEM Virtual File Cabinet (VFC) database.

Government Publication Date: Apr 1, 2024

Underground Storage Tanks (UST):

UST

A list of Underground Storage Tanks (UST) in Indiana registered by the Indiana Department of Environmental Management (IDEM). The UST Program is responsible for assuring that all regulated underground storage tanks meet the US Environmental Protection Agency (EPA) and Indiana's requirements for release detection, spill prevention and corrosion protection, and to ensure that tanks not meeting those requirements are properly closed or upgraded. This listing includes sites from IDEM's Virtual File Cabinet (VFC) with UST Program documents, as well as "Red-Tag" USTs that are currently out of compliance to prohibit fuel deliveries.

Government Publication Date: Apr 1, 2024

Underground Storage Tank Facilities from IDEM Virtual File Cabinet (VFC):

UST VFC

List of facilities from the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) that have an associated Underground Storage Tank (UST) document.

Government Publication Date: Jul 31, 2022

Delisted Storage Tanks:

DTNK

This database contains a list of closed storage tank sites that were removed from the Indiana Department of Environmental Management (IDEM) database and the IDEM Virtual File Cabinet (VFC) database.

Government Publication Date: Apr 1, 2024

Aboveground Storage Tanks:

AST

List of Aboveground Storage Tanks made available by Indiana's Department of Homeland Security (DHS).

Government Publication Date: Mar 13, 2020

Activity and Use Limitations:

AUL

List of sites recorded by the Indiana Department of Environmental Management, Office of Land Quality (IDEM OLQ) where the Risk Integrated System of Closure (RISC) guidelines allowed for a risk-based closure with some type of land use restrictions or institutional controls after remediation. This listing includes sites on the IDEM's Institutional Controls Registry, which consists of environmental restrictive covenants approved by IDEM as well as Solid Waste sites that require a deed notice under Article 10 of Title 329 of the Indiana Administrative Code (IAC), as well as Remediation Institutional Controls sites from the IndianaMap GIS dataset.

Government Publication Date: May 2, 2024

Voluntary Remediation Agreement:

VCP

This database contains Voluntary Remediation Program site locations in Indiana. The data is provided by the Indiana Department of Environmental Management (IDEM). According to the IDEM, this program encourages environmental cleanups; facilitates the redevelopment, sale, and reuse of commercial and industrial properties; and reduces the risks that contaminants pose to human health and the environment. The VRP provides a process for property owners, operators, potential purchasers, and third parties to voluntarily address property that is or may be contaminated. Participants are typically current or past property owners, current or past lessees, and prospective purchasers. Local units of government with property obtained by default or with an interest in property development may also participate.

Government Publication Date: Feb 14, 2024

Brownfields Site List:

BROWNFIELDS

List of sites at which the Indiana Brownfields Program has considered or provided financial, legal, or technical assistance, and sites with associated Brownfields documents. The Indiana Brownfields Program is administered by the Indiana Finance Authority (IFA). Indiana defines a brownfield as: a parcel of real estate that is abandoned or inactive, or may not be operated at its appropriate use; and on which expansion, redevelopment, or reuse is complicated, due to the presence or potential presence of a hazardous substance, a contaminant, petroleum, or a petroleum product that poses a risk to human health and the environment.

Government Publication Date: Aug 9, 2022

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

[INDIAN LST](#)

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 5, which includes Indiana, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 16, 2017

Underground Storage Tanks (USTs) on Indian Lands:

[INDIAN UST](#)

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 5, which includes Indiana, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 16, 2017

Delisted Tribal Leaking Storage Tanks:

[DELISTED INDIAN LST](#)

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 25, 2023

Delisted Tribal Underground Storage Tanks:

[DELISTED INDIAN UST](#)

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 25, 2023

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

PFAS Greenhouse Gas Emissions Data:

[PFAS GHG](#)

The U.S. Environmental Protection Agency's Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO₂e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. Includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures by DSSTox. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time.

Government Publication Date: May 9, 2024

On-Scene Coordinator Response Sites:

[OSC RESPONSE](#)

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation.

Government Publication Date: Apr 4, 2024

Facility Registry Service/Facility Index:

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 9, 2024

Toxics Release Inventory (TRI) Program:

TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

PFOA/PFOS Contaminated Sites:

PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Mar 19, 2024

Federal Agency Locations with Known or Suspected PFAS Detections:

PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from 2022 to 2024. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Apr 1, 2024

SSEHRI PFAS Contamination Sites:

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: <https://pfasproject.com/pfas-sites-and-community-resources/>

Government Publication Date: May 19, 2023

National Response Center PFAS Spills:

ERNS PFAS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam," "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Apr 17, 2024

PFAS NPDES Discharge Monitoring:

PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: May 6, 2024

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

Perfluorinated Alkyl Substances (PFAS) Water Quality:

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities:

[PFAS TSCA](#)

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest :

[PFAS E-MANIFEST](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 29, 2024

PFAS Industry Sectors:

[PFAS IND](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 15, 2024

Hazardous Materials Information Reporting System:

[HMIRS](#)

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: Nov 26, 2023

National Clandestine Drug Labs:

[NCDL](#)

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Nov 30, 2023

Toxic Substances Control Act:

[TSCA](#)

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

Hist TSCA:

[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

[PRP](#)

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Apr 22, 2024

State Coalition for Remediation of Drycleaners Listing:

[SCRD DRYCLEANER](#)

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

[ICIS](#)

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Aug 26, 2023

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jan 20, 2024

Delisted Drycleaner Facilities:

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jan 20, 2024

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset which applies to the Fiscal Year 2021 FUDS Inventory.

Government Publication Date: May 15, 2023

FUDS Munitions Response Sites:

FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: May 15, 2023

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: May 6, 2024

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:[HIST MLTS](#)

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:[MINES](#)

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Feb 5, 2024

Surface Mining Control and Reclamation Act Sites:[SMCRA](#)

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into eAMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: Jun 13, 2023

Mineral Resource Data System:[MRDS](#)

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites:[LM SITES](#)

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 12, 2023

Alternative Fueling Stations:[ALT FUELS](#)

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Apr 30, 2024

Superfunds Consent Decrees:[CONSENT DECREES](#)

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Sep 15, 2023

Air Facility System:

[AFS](#)

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

[SSTS](#)

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 29, 2024

Polychlorinated Biphenyl (PCB) Transformers:

[PCBT](#)

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

[PCB](#)

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: May 23, 2024

State

Spills Incidents Database:

[SPILLS](#)

Spill incidents reported to the Emergency Response Program in the Indiana Department of Environmental Management (IDEM).

Government Publication Date: Nov 30, 2023

Historic Spill Incidents:

[HIS SPILLS](#)

Spill occurrences reported to the Emergency Response Unit in the Indiana Department of Environmental Management (IDEM) prior to December 3, 2010.

Government Publication Date: Dec 3, 2010

Hazardous Waste Sites:

[HAZ WASTE SITES](#)

A list of hazardous waste sites extracted from Virtual File Cabinet.

Government Publication Date: Jul 31, 2022

Hazardous Waste Treatment, Storage, and/or Disposal Facilities:

[TSDF](#)

List of hazardous waste management facilities which receive hazardous waste for treatment, storage or disposal. This list is made available by the Indiana Department of Environmental Management (IDEM).

Government Publication Date: Nov 13, 2019

Industrial Waste Sites:**INDUSTRIAL WASTE**

List of industrial waste site locations in Indiana, made available by the Indiana Department of Environmental Management (IDEM) Office of Land Quality.

Government Publication Date: Aug 4, 2013

Virtual File Cabinet Facility List:**VFC FACILITIES**

The Indiana Department of Environmental Management (IDEM) has made the agency's public records accessible through the Virtual File Cabinet (VFC). This is a list of VFC records falling under the following programs: Excess Liability Trust Fund (ELTF), Site Investigation, Superfund, Emergency Response, Drug Lab Cleanup, and Office of Land Quality (OLQ).

Government Publication Date: Jul 31, 2022

Clandestine Labs:**CDL**

A list of Clandestine Labs reported to the Indiana State Police. This list is made available by the Indiana State Police Methamphetamine Suppression Section (MSS).

Government Publication Date: Oct 10, 2022

Cleaned Clandestine Drug Labs:**CLEANED CDL**

This list of certified cleaned meth lab locations is provided by the Indiana Department of Environmental Management (IDEM).

Government Publication Date: May 3, 2024

Confined Feeding Operation Facilities:**FEEDLOTS**

This list of Confined Feeding Operations (CFO) and Concentrated Animal Feeding Operations (CAFO) is sourced from the Indiana Department of Environmental Management (IDEM), Office of Land Quality. The listing includes agribusinesses that have large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code. The CAFO designation is strictly a size designation in Indiana. Farms of this size are permitted under the CFO rule, with added requirements. A CFO that meets the size classification as a CAFO is a farm that meets or exceeds an animal threshold number in the U.S. Environmental Protection Agency's definition of a large CAFO. The listing may include active, permit issued, permit pending, and/or inactive facilities.

Government Publication Date: May 9, 2023

Tier II Facilities:**TIER 2**

List of Tier II facilities that have reported to the Indiana Department of Environmental Management (IDEM). Requirements of Tier II facilities are determined based on the Emergency Planning and Community Right to Know Act (EPCRA).

Government Publication Date: Dec 31, 2018

Office of Indiana State Chemist Pesticide Business List:**CHEM**

This list of active pesticide and fertilizer businesses is maintained by the Office of Indiana State Chemist (OISC) at Purdue University. The listing is limited to the following OISC Program Types: Fertilizer Application Business, Fertilizer Distributor, Pesticide Business, Pesticide Registrant, and Restricted Use Dealer. A Restricted Use Pesticide (RUP) Dealer Registration is required of any firm that sells or offers to sell an RUP to end users (certified applicators) of those pesticides. A RUP dealer registration is not required if the location is used solely to store pesticides.

Government Publication Date: Apr 25, 2024

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX D

Site Photographs

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 1 – Subject property, facing north.



Photograph 2 – Subject property, facing east.

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 3 – Subject property, facing south.



Photograph 4 – Subject property, facing west.

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 5 – Adjacent property, facing north.



Photograph 6 – Adjacent property, facing northeast.

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 7 – Adjacent property, facing east.



Photograph 8 – Adjacent property, facing southeast.

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 9 – Adjacent property, facing south.



Photograph 10 – Adjacent property, facing southwest.

**SITE PHOTOGRAPHS
LAPOINTE**



Photograph 11 – Adjacent property, facing west.



Photograph 12 – Adjacent property, facing northwest

APPENDIX E

Resumes of Environmental Professionals

**RESUME
ARON LEE**



EDUCATION:

Bachelor of Science: Criminal Justice, Liberty University Lynchburg, Virginia 2020

Languages:

Fluent in English

Highlights:

3.5 years in the Environmental Science and Property Condition Assessments
3.5 years performing type of work (for example: Phase I Environmental Site Assessments, Property Condition Assessments; Exotic Bird Studies; Lead-Based Paint Studies; Disturbed Soil Sampling)
3.5 years with ASTM Criteria.

Experience Summary:

Aron Lee is a Project Manager, Project Coordinator, and Field Worker who is proficient in Phase I Environmental Assessments and Property Condition Assessments. Mr. Lee has 3.5 years of experience within the industry and has completed hundreds of projects completing both the field work and write up of the Environmental Assessments and Property Condition Assessments.

As a Project Coordinator, Mr. Lee coordinates with clients and internal interdisciplinary teams to ensure completion of service deliverables in an efficient and timely manner. Processing of new order requests and new project intake to ensure correct and timely start dates. Track and forecast project completion deadlines to ensure client expectations are met or exceeded. Acquisition and coordination with subcontractors for additional services as required.

Project Experience:

Sonic Restaurant, Jena, Louisiana. 2021 Phase I Environmental Site Assessment and Property Condition Assessment at a Sonic Restaurant in Jena, Louisiana.

La Frontera Office Building, Round Rock, Texas. 2021 Property Condition Assessment at an office building in Round Rock, Texas.

Telecommunications Tower Property, Boothbay Harbor, Maine. 2021 Lead-Based Paint study in Boothbay Harbor, Maine.

Louisville Landing Marina Property, Louisville, Tennessee. 2022 Property Condition Assessment in Louisville, Tennessee.

Bay Harbor Marina Property, Erie, Pennsylvania. 2022 Property Condition Assessment in Erie, Pennsylvania.

Conoco Gas Station/Convenience Store, Laredo, Texas. 2022 Property Condition Assessment in Laredo, Texas.

Fuel America Travel Center Gas Station/Convenience Store, Laredo, Texas. 2022 Property Condition Assessment in Laredo, Texas.

Flying J Travel Center Gas Station/Convenience Store, Cokeville, Wyoming. 2022 Property Condition Assessment in Laredo, Texas.

The Landings of Swansboro Assisted Living Facility, Swansboro, North Carolina. 2023 Phase 1 Environmental Assessment in Swansboro, North Carolina.

Cambridge Square Apartments, Grand Rapids, Michigan. 2023 Phase 1 Environmental Assessment in Grand Rapids, Michigan.

Forest Lawn Memorial Gardens Cemetery, Dimondale, Michigan. 2023 Phase 1 Environmental Assessment in Dimondale, Michigan.

Hillcrest Memorial Park Cemetery, Jackson, Michigan. 2023 Phase 1 Environmental Assessment in Jackson, Michigan.

Kent Memorial Gardens Cemetery, Byron Center, Michigan. 2023 Phase 1 Environmental Assessment in Byron Center, Michigan.

Graceland Memorial Park & Mausoleum Cemetery, Grand Rapids Charter Township, Michigan. 2023 Phase 1 Environmental Assessment in Grand Rapids Charter Township, Michigan.

Floral View Memorial Gardens Cemetery, Grandville, Michigan. 2023 Phase 1 Environmental Assessment in Grandville, Michigan.

Restlawn Memorial Gardens Cemetery, Holland, Michigan. 2023 Phase 1 Environmental Assessment in Holland, Michigan.



**CURRICULUM VITAE
ANTHONY NOTARO**

Anthony has a degree in geology and is a certified Construction Quality Assurance manager with over 22 years of solid work experience in environmental consulting and health and safety. His areas of expertise include environmental due diligence and subsurface investigations, environmental compliance, site inspections, Construction Quality Assurance, and Brownfield/hazardous waste site remediation and redevelopment.

EDUCATION:

Bachelor of Arts: Geology, State University of New York at Buffalo, New York, May 1997

REGISTRATIONS/CERTIFICATIONS/DESIGNATIONS

- OSHA 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)
- OSHA 40-Hour HAZWOPER Supervisor
- OSHA 10-Hour Construction Safety
- OSHA 30-Hour Construction Safety
- American Red Cross First Aid/CPR/AED Certification
- USACE & NFEC Construction Quality Management for Contractors
- Connecticut DEP Class A/Class B UST Operator Certification
- Radiological Worker II Core Certification
- MSHA 24-Hour Mining Health and Safety
- Radiation Safety and Troxler Nuclear Density Gauge Operation
- Federal Emergency Management Agency (FEMA) Incident Command System Certification
- FEMA National Incident Management System Certification

WORK EXPERIENCE:

Environmental Project Manager
RESCOM Environmental Corp, Fort Wayne, IN
October 2021 to Present

Manage Phase I Environmental Site Assessments (ESAs) and NEPA documents for a wide range of clientele and a varied set of property types across the United States for telecommunications, commercial real estate, transportation, and wind markets. Responsible for the preparation, review, and distribution of quality, cost-effective reports in short turnaround times, often in large portfolios with repeat clients. Clientele include Sprint, AT&T, U.S. Cellular, AEP among other nationally known companies.

Environmental Scientist/Geologist
Cabrera Services, Depew, NY
November 2018 to July 2021

Field Engineer, Alternate Construction Quality Control Site Manager and Site Safety and Health Officer for remedial action at former military firing range. Responsibilities included the completion of Daily Quality Control Reports, soil stockpile re-use reports, meeting agendas and photographic logs and submittal of project documents via the Resident Management System, direction of excavation and restoration activities and the installation of stormwater controls. Also responsible for health and safety oversight, and daily deployment of air and dust monitoring instrumentation, and reporting/ documenting safety deficiencies.

Contractor Site Manager and SSHO for remedial action at former military waste storage site. Provided field oversight for construction and demolition activities. Responsibilities included the completion of Daily Quality Control Reports, health and safety oversight, and daily deployment of air and dust monitoring instrumentation.

Environmental Professional
BE3 Corp., Buffalo, NY

July 2018 to November 2018; July 2014 to December 2014

Independent contractor acting as field manager for remedial construction projects at State Brownfield sites throughout Western New York. Responsibilities included site assessment, field inspection, construction and engineering oversight and radiological characterization.

Senior Geologist
Watts Architecture & Engineering, Buffalo, NY
April 2017 to May 2018

Senior-level geologist performing and managing environmental field activities at sites throughout Western New York. Responsibilities included technical writing and review of environmental site assessments, subsurface investigations, soil and groundwater sampling programs and remedial activities.

Environmental Engineer
Superior Plus Energy Services, Rochester, NY
January 2015 to March 2017

Environmental engineer for a large petroleum bulk storage and retail distribution company. Responsibilities included performing petroleum bulk storage/chemical bulk storage inspections and environmental compliance inspections; completing remedial investigations; coordinating emergency response efforts; preparing and enforcing Facility Response Plans and leading required preparatory drills; preparing and submitting aquatic discharge monitoring data.

RESCOM Environmental Corp. • P.O. Box 361 • Petoskey, MI 49770
Phone: (231) 409-2563 • Fax: (231) 407-0726
www.rescom.org

Project Geologist
Golder Associates, Amherst, NY
April 2007 to July 2014

Lead Environmental Compliance Inspector for a large hazardous waste landfill in Western New York. Responsibilities included managing a daily RCRA compliance inspection program and communicating with senior leadership and State regulators regarding daily observations. Assumed leadership of soil and groundwater compliance monitoring and sampling campaign following retirement of Environmental Manager.

Staff Geologist
Golder Associates, Niagara Falls, NY
October 2001 to April 2007

Staff-level geologist performing environmental field activities at sites throughout the continental United States. Responsibilities included environmental site assessments, technical reporting, subsurface investigations, soil and groundwater sampling programs and remedial activities, and landfill and mine construction quality assurance.

Staff Geologist
SJB Services/Empire Geo-Services, Hamburg, NY
November 1999-January 2001

Staff-level geologist performing environmental field activities at sites throughout Western New York. Responsibilities included environmental site assessments, technical reporting, subsurface investigations, soil and groundwater sampling programs and remedial activities.

Health and Safety Technician
Sevenson Environmental Services, Niagara Falls, NY
April 1999 to November 1999

Performed a primary health and safety role for the remediation of a former petroleum refining facility. Responsibilities included monitoring of air, noise and dust levels; analysis of collected environmental data, and inventory, distribution and maintenance of personal protective equipment.