



**Illinois Environmental Protection Agency
CCR Surface Impoundment Permit Application
Form CCR 1 – General Provisions**

Bureau of Water ID Number:

For IEPA Use Only

CCR Permit Number:

Facility Name:

SECTION 1: FACILITY, OPERATOR, AND OWNER INFORMATION (35 Ill. Adm. Code 845.210(b))

Facility, Operator, and Owner Information	1.1	Facility Name		
	1.2	Illinois EPA CCR Permit Number (if applicable)		
	1.3	Facility Contact Information		
		Name (first and last)	Title	Phone Number
		Email address		
	1.4	Facility Mailing Address		
		Street or P.O. box		
		City or town	State	Zip Code
	1.5	Facility Location		
		Street, route number, or other specific identifier		
		County name	County code (if known)	
	City or town	State	Zip Code	
1.6	Name of Owner/Operator			

Facility, Operator, and Owner Info	1.7	Owner/Operator Contact Information		
		Name (first and last)	Title	Phone Number
		Email address		
	1.8	Owner/Operator Mailing Address		
		Street or P.O. box		
	City or town	State	Zip Code	
SECTION 2: LEGAL DESCRIPTION (35 Ill. Adm. Code 845.210(c))				
Legal Description	2.1	Legal Description of the facility boundary		
SECTION 3: PUBLICLY ACCESSIBLE INTERNET SITE REQUIREMENTS (35 Ill. Adm. Code 845.810)				
Internet Site	3.1	Web Address(es) to publicly accessible internet site(s) (CCR website)		
	3.2	Is/are the website(s) titled "Illinois CCR Rule Compliance Data and Information"		
		Yes	No	
SECTION 4: IMPOUNDMENT IDENTIFICATION				
Impoundment Identification	4.1	List all the impoundment identification numbers for your facility and check the corresponding box to indicate that you have attached a written description for each impoundment.		
			Attached written description	
			Attached written description	
			Attached written description	
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			Attached written description	

			Attached written description
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			Attached written description

SECTION 5: CHECKLIST AND CERTIFICATION STATEMENT

Checklist and Certification Statement	5.1	In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing.		
		Column 1		Column 2
		Section 1: Facility, Operator, and Owner Information		w/attachments
		Section 2: Legal Description		w/attachments
		Section 3: Publicly Accessible Internet Site Requirement		w/attachments
		Section 4: Impoundment Identification		w/attachments
	5.2	Certification Statement		
		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
		Name (print or type first and last name) of Owner/Operator		Official Title
		Signature		Date Signed

ATTACHMENT 2.1
Legal Description and Plant Survey

Technical Memorandum
CCR Residual Surface Impoundment Permit Application
Former Havana Power Station, Havana, IL

Date: October 29, 2021
Attachment: IEPA Form CCR 1
Section: 2 – Legal Description (35 IAC 845.210(c))
Item No.: 2.1 – Legal Description of the facility boundary

NOTES

This attachment describes the items required under Section 2, Item 2.1.

Item 2.1 requires the submission of the legal description of the facility boundary. The legal description provided here was obtained from the ALTA/ACSM Land Title Survey prepared by The Orin Group, LLC, and stamped by Illinois Professional Land Surveyor, Michal G. Shackelford, on January 19, 2012. The legal description obtained from this survey is presented as an attachment to this Technical Memorandum (TM). Additionally, the survey document is also attached to this TM.

The East Ash Pond complex consist of three (3) CCR units identified as Cells 1 through 3 and a stormwater pond which is not a CCR unit.

LEGAL DESCRIPTION

The following is the legal description of the entire facility boundary encompassing both the former power generating station and the East Ash Pond complex. The East Ash Pond complex consists of three (3) CCR units identified as Cells 1 through 3 and a stormwater pond sometimes identified as Cell 4 which is not a CCR unit. Specifically, Tract 2 contains the three (3) CCR cells and the stormwater pond.

Tract 1:

The Northwest Quarter of the Northeast Quarter, part of the Northeast Quarter of the Northeast Quarter, part of the Northeast Quarter of the Northwest Quarter, and part of the Northwest Quarter of the Northwest Quarter, Section 14, part of the Southeast Quarter of the Southeast Quarter, part of the Southwest Quarter of the Southeast Quarter, part of the Southeast Quarter of the Southwest Quarter, part of the Northeast Quarter of the Southeast Quarter, part of the Northwest Quarter of the Southeast Quarter, part of the Southeast Quarter of the Northeast Quarter, and part of the Southwest Quarter of the Northeast Quarter, Section 11, part of the Northwest Quarter of the Southwest Quarter, and part of the Southwest Quarter of the Northwest Quarter, Section 12, Township 21 North, Range 9 West, Third Principal Meridian, Town of Havana, Mason County, Illinois being more particularly described as follows: Commencing at the Northeast corner of said Section 14; thence South 89 degrees 46 minutes 51 seconds West, 690.41 feet to the Point of Beginning; thence South 15 degrees 08 minutes 03 seconds West, 1,119.54 feet; thence South 19 degrees 02 minutes 48 seconds West, 100.00 feet; thence South 16 degrees 10 minutes 48 seconds West, 50.00 feet; thence South 13 degrees 18 minutes 48 seconds West, 100.10 feet; thence South 16 degrees 10 minutes 48 seconds West, 12.54 feet; thence South 89 degrees 32 minutes 18 seconds West, 1,785.38 feet; thence South 89 degrees 32 minutes 18 seconds West, 1,293.94 feet at a meander corner lying North 89 degrees 32 minutes 18 seconds East, 1.00 feet from the Southeast bank of the Illinois River; thence North 35 degrees 09 minutes 48 seconds East along a meander line, 359.78 feet; thence North 44 degrees 55 minutes 15 seconds East along a meander line, 414.68 feet; thence North 48 degrees 15 minutes 41 seconds East along a meander line, 341.66 feet; thence North 43 degrees 17 minutes 43 seconds East along a meander line, 599.81 feet; thence North 30 degrees 22 minutes 15 seconds East along a meander line, 99.62 feet; thence North 33 degrees 00 minutes 29 seconds East along a meander line, 2,537.92 feet; thence North 34 degrees 40 minutes 00 seconds East along a meander line, 1,603.18 feet to a meander corner lying North 85 degrees 16 minutes 00 seconds East, 75.00 feet from the Southeast bank of the Illinois River; thence North 85 degrees 16 minutes 00 seconds East, 327.51 feet; thence South 39 degrees 54 minutes 05 seconds East, 473.32 feet; thence South 39 degrees 54 minutes 05 seconds East, 357.84 feet; thence South 24 degrees 55 minutes 00 seconds West, 195.33 feet; thence 869.90 feet along the arc of a curve to the left having a radius of 4,770.00 feet and a long chord subtended bearing South 20 degrees 18 minutes 49 seconds West, 869.08 feet; thence South 16 degrees 33 minutes 00 seconds West, 1,903.06 feet to the Point of Beginning, together with all land lying between the Center of the Illinois River and the subject meander line.

Tract 2:

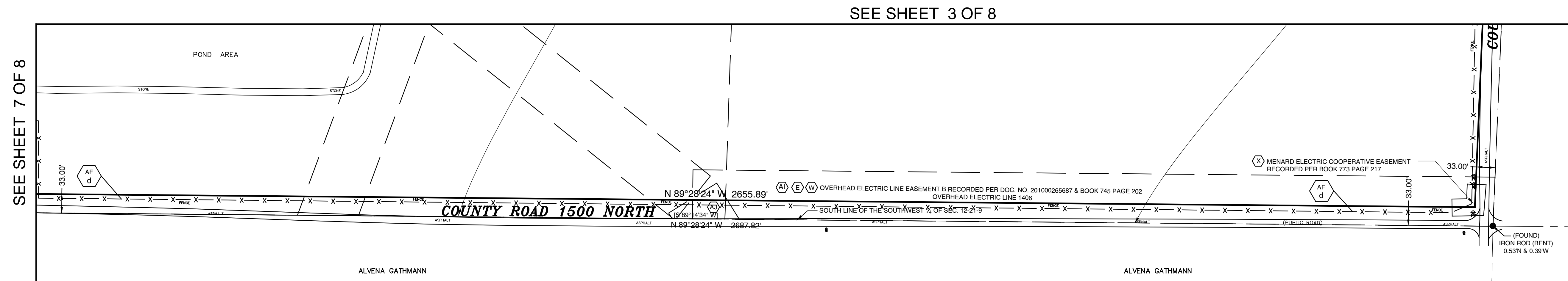
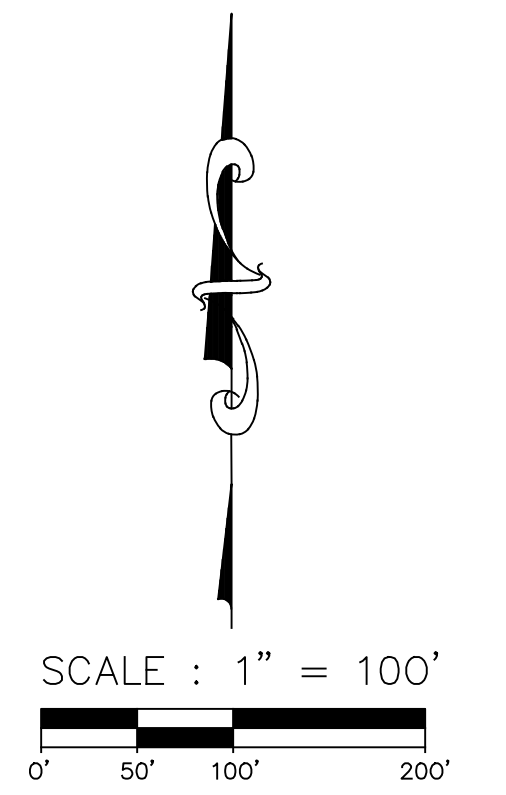
Part of the Southeast Quarter of the Southeast Quarter, and part of the Northeast Quarter of the Southeast Quarter, Section 11, the Northeast Quarter of the Southwest Quarter, the Southeast Quarter of the Southwest Quarter, the Southwest Quarter of the Southwest Quarter, part of the Northwest Quarter of the Southwest Quarter, part of the Southeast Quarter of the Northwest Quarter, and part of the Southwest Quarter of the Northwest Quarter, Section 12, Township 21 North, Range 9 West, Third Principal Meridian, Town of Havana, Mason County, Illinois being more particularly described as follows: Commencing at the West Quarter corner of said Section 12; thence North 87 degrees 52 minutes 07 seconds East, 252.00 feet to the Point of Beginning; thence North 24 degrees 55 minutes 00 seconds East, 112.28 feet; thence North 87 degrees 52 minutes 07 seconds East, 1,066.47 feet; thence North 49 degrees 00 minutes 58 seconds East, 329.59 feet; thence North 17 degrees 50 minutes 52 seconds East, 1,125.31 feet; thence North 87 degrees 38 minutes 32 seconds East, 479.13 feet; thence South 00 degrees 52 minutes 48 seconds West, 260.71 feet; thence North 87 degrees 52 minutes 40 seconds East, 303.00 feet; thence North 00 degrees 52 minutes 48 seconds East, 261.96 feet; thence North 87 degrees 38 minutes 32 seconds East, 22.50 feet; thence South 01 degrees 07 minutes 20 seconds West, 1,363.66 feet; thence South 01 degrees 07 minutes 23 seconds West, 2,733.52 feet; thence South

89degrees 14 minutes 34 seconds West, 2,687.82 feet; thence South 89 degrees 49 minutes 16 seconds West, 606.73 feet; thence North 16 degrees 33 minutes 00 seconds East, 1,879.28 feet; thence 857.84 feet along the arc of a curve to the right having a radius of 5,690.00 feet and long chord subtended bearing North 20 degrees 18 minutes 49 seconds East, 857.03 feet; thence North 24 degrees 55 minutes 00 seconds East, 73.60 feet to the Point of Beginning.



The Orin Group, LLC.

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SEE SHEET 3 OF 8

SEE SHEET 7 OF 8

Legend of Symbols & Abbreviations

- | | | | |
|---|-----------------------------|---------------|-----------------------------------|
| ⊙ | SANITARY SEWER MANHOLE | —GAS— | UNDERGROUND GAS LINE |
| — | SANITARY SEWER LINE | —L— | UNDERGROUND LIGHT CABLE |
| ⊕ | WATER VALVE IN VAULT | —O/E— | OVERHEAD ELECTRIC LINE |
| ⊕ | WATER VALVE | — | CONCRETE CURB & GUTTER |
| — | WATER LINE | — | DEPRESSED CURB |
| ⊕ | FIRE HYDRANT | ⊙ | ELECTRIC MANHOLE |
| ⊕ | STORM SEWER INLET | ⊕ | TELEPHONE MANHOLE |
| ⊕ | STORM SEWER CATCH BASIN | — | SIGN |
| ⊕ | STORM SEWER MANHOLE | — | FENCE LINE |
| — | STORM SEWER LINE | — | RAILROAD TRACKS |
| ⊕ | POWER POLE | ⊕ | DECIDUOUS TREE |
| ⊕ | TRANSFORMER BOX/PAD | ⊕ | EVERGREEN |
| ★ | LIGHT | ⊕ | BUSH/HEDGE |
| ▶ | FLOOD LIGHT | ● | BOLLARD |
| ⊕ | TRAFFIC SIGNAL | ⊕ | REGULAR PARKING SPACE |
| ⊕ | HAND HOLE | ⊕ | HANDICAP PARKING SPACE |
| ⊕ | TELEPHONE BOX/PEDESTAL | ⊕ | SOIL BORING (SB) |
| ⊕ | GAS VALVE | [253.00'] | RECORD DISTANCE |
| — | UNDERGROUND TELEPHONE CABLE | [N00°20'30"E] | RECORD BEARING |
| — | UNDERGROUND ELECTRIC CABLE | ⊕ | CORRESPONDING NOTES TO SCHEDULE B |

Statement of Encroachments

- ⊕ AF 32
- a: The chain link fence encroaches from 2.3 to 6.5 feet East of the West line of 1550 East Road into the 1550 East Road right of way.
 - b: The chain link fence encroaches from 0.0 to 2.3 feet East of the West line of 1550 East Road into the 1550 East Road right of way.
 - c: The edge of asphalt pavement encroaches from 0.0 to 20.1 feet West of the West line of 1550 East Road onto the subject property.
 - d: The chain link fence encroaches from 0.0 to 25.3 feet South of the North line of 1500 North Road into the 1500 North Road right of way.
 - f: The chain link fence encroaches from 0.0 to 14.8 feet North of the North property line on the adjacent property to the North.
 - h: The chain link fence encroaches from 7.2 to 8.1 feet East of the East property line into the Illinois State Highway 78 right of way.
 - k: The chain link fence encroaches from 0.0 to 4.2 feet East of the East property line in the Illinois State Highway 78 right of way.



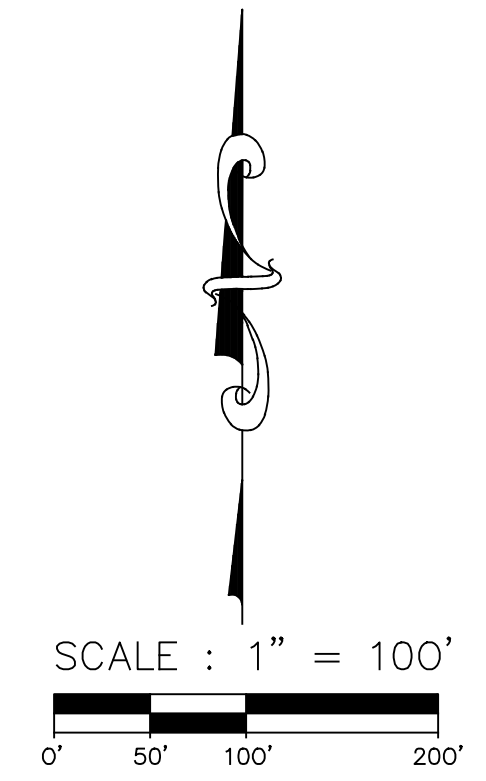
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SEE SHEET 4 OF 8

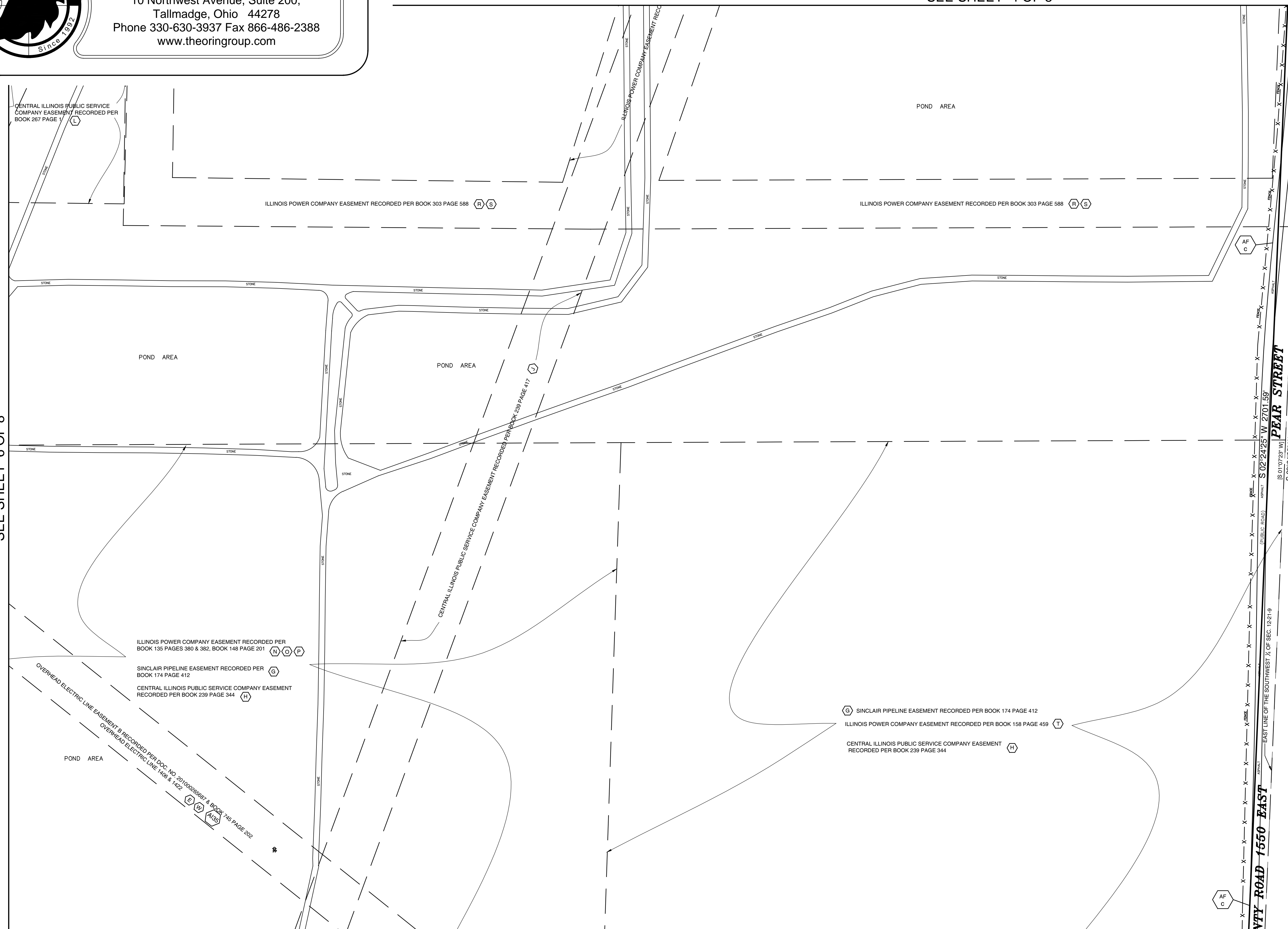
SEE SHEET 6 OF 8

SEE SHEET 2 OF 8



Legend of Symbols & Abbreviations

- | | | | |
|-----|-----------------------------|---------------|-----------------------------------|
| ⊙ | SANITARY SEWER MANHOLE | —GAS— | UNDERGROUND GAS LINE |
| — | SANITARY SEWER LINE | —L— | UNDERGROUND LIGHT CABLE |
| ⊕ | WATER VALVE IN VAULT | —O/E— | OVERHEAD ELECTRIC LINE |
| ⊕ | WATER VALVE | — | CONCRETE CURB & GUTTER |
| — | WATER LINE | — | DEPRESSED CURB |
| ⊕ | FIRE HYDRANT | ⊙ | ELECTRIC MANHOLE |
| ⊕ | STORM SEWER INLET | ⊙ | TELEPHONE MANHOLE |
| ⊕ | STORM SEWER CATCH BASIN | — | SIGN |
| ⊕ | STORM SEWER MANHOLE | — | FENCE LINE |
| — | STORM SEWER LINE | — | RAILROAD TRACKS |
| ⊕ | POWER POLE | ⊙ | DECIDUOUS TREE |
| ⊕ | TRANSFORMER BOX/PAD | ⊙ | EVERGREEN |
| ☆ | LIGHT | ⊙ | BUSH/HEDGE |
| ⊕ | FLOOD LIGHT | • | BOLLARD |
| ⊕ | TRAFFIC SIGNAL | ⊕ | REGULAR PARKING SPACE |
| ⊕ | HAND HOLE | ⊕ | HANDICAP PARKING SPACE |
| ⊕ | TELEPHONE BOX/PEDESTAL | ⊕ | SOIL BORING (SB) |
| ⊕ | GAS VALVE | [253.00'] | RECORD DISTANCE |
| — | UNDERGROUND TELEPHONE CABLE | [N00°20'30"E] | RECORD BEARING |
| —E— | UNDERGROUND ELECTRIC CABLE | ⊕ | CORRESPONDING NOTES TO SCHEDULE B |



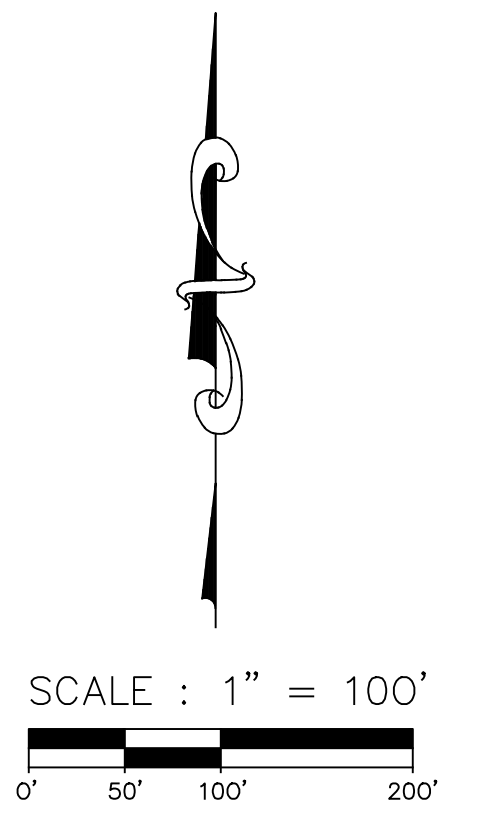
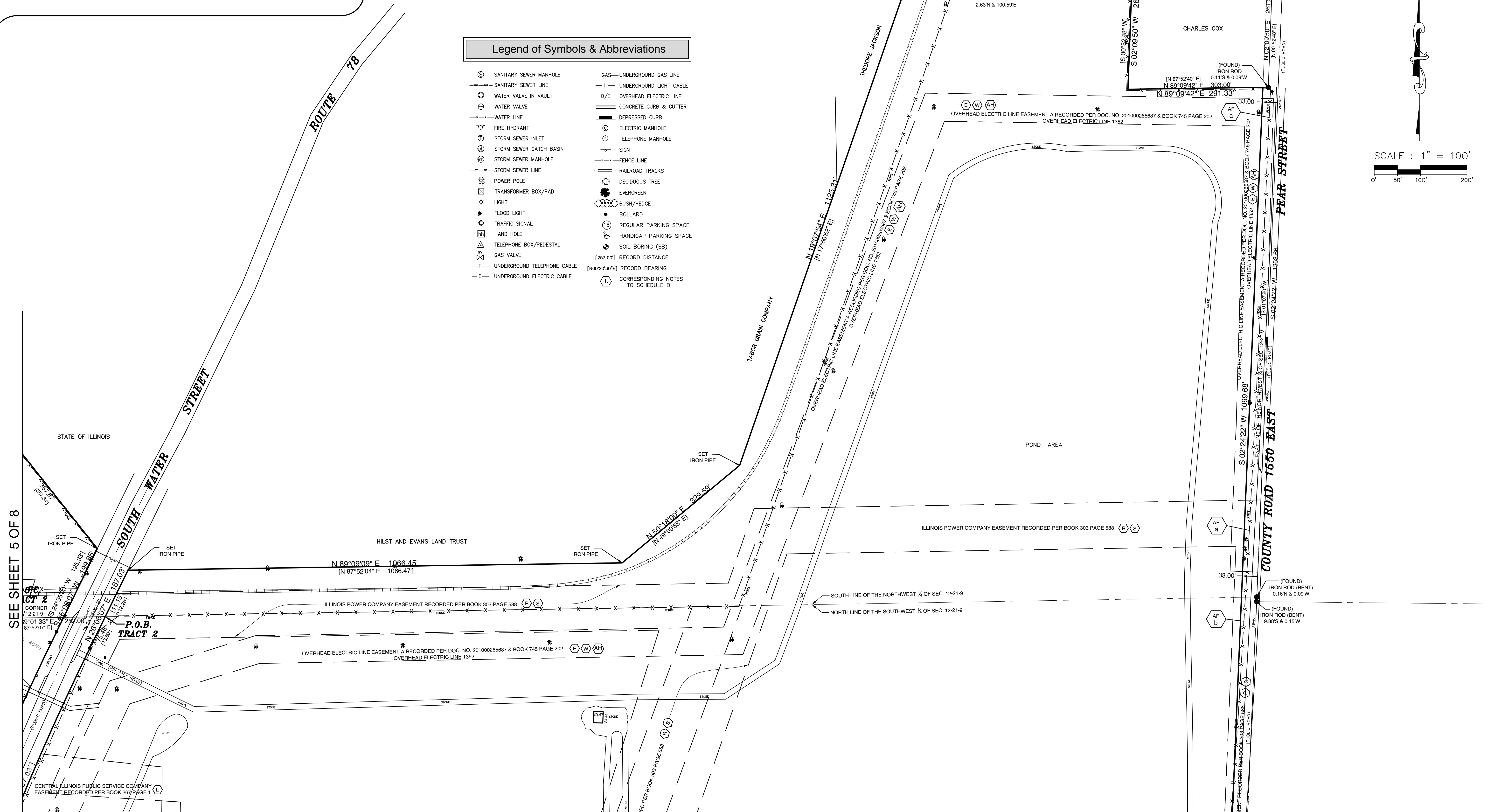


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| ⊕ | SANITARY SEWER MANHOLE | -GAS- | UNDERGROUND GAS LINE |
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| ⊕ | STORM SEWER CATCH BASIN | — | SIGN |
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| ⊕ | FLOOD LIGHT | ⊕ | BOLLARD |
| ⊕ | TRAFFIC SIGNAL | ⊕ | REGULAR PARKING SPACE |
| ⊕ | HAND HOLE | ⊕ | HANDICAP PARKING SPACE |
| ⊕ | TELEPHONE BOX/PEDESTAL | ⊕ | SOIL BORING (SB) |
| ⊕ | GAS VALVE | — | [233.00'] RECORD DISTANCE |
| — | UNDERGROUND TELEPHONE CABLE | — | [N00°20'30"E] RECORD BEARING |
| — | UNDERGROUND ELECTRIC CABLE | ⊕ | CORRESPONDING NOTES TO SCHEDULE B |



SEE SHEET 5 OF 8

SEE SHEET 3 OF 8



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Note Corresponding to Schedule B

- C.5.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed in Book 1121, page 311 is plotted and shown on survey to the extent possible and practical.
- D.6.** Agreement by and between CPCPS Transportation and Dynegy Midwest Generation, Inc. recorded November 22, 2004 in Book 985, page 164, and the terms, provisions and conditions contained therein is plotted and shown on survey to the extent possible and practical.
- E.7.** Amended and Restated Easement Agreement by and between Illinova Corporation, Dynegy Midwest Generation, Inc. and Illinois Power Company recorded July 12, 2010 as document no. 201000265687, and the terms, provisions and conditions contained therein is plotted and shown on survey to the extent possible and practical.
- F.8.** Easement in favor of Sinclair Pipe Line Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 174, page 341 is plotted and shown on survey to the extent possible and practical.
- G.9.** Easement in favor of Sinclair Pipe Line Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 174, page 412 is plotted and shown on survey to the extent possible and practical.
- H.10.** Easement in favor of Central Illinois Public Service Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 239, page 344 is plotted and shown on survey to the extent possible and practical.
- H.11.** Easement in favor of Central Illinois Public Service Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 239, page 346 is plotted and shown on survey to the extent possible and practical.
- J.12.** Easement in favor of Central Illinois Public Service Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 239, page 417 is plotted and shown on survey to the extent possible and practical.
- K.13.** Easement in favor of Central Illinois Public Service Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 241, page 79 is plotted and shown on survey to the extent possible and practical.
- L.14.** Easement in favor of Central Illinois Public Service Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 267, page 1 is plotted and shown on survey to the extent possible and practical.
- M.15.** Easement in favor of Illinois Iowa Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 134, page 282 is not plotted or shown on survey. (Does not affect subject property.)
- N.16.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 135, page 380 is plotted and shown on survey to the extent possible and practical.
- O.17.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 135, page 382 is plotted and shown on survey to the extent possible and practical.
- P.18.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 148, page 201 is plotted and shown on survey to the extent possible and practical.
- R.19.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 148, page 321. Modification of Easement recorded in Book 303, page 589 is plotted and shown on survey to the extent possible and practical.
- S.20.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 148, page 523. Modification of Easement recorded in Book 303, page 588 is plotted and shown on survey to the extent possible and practical.
- T.21.** Easement in favor of Illinois Power Company, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 158, page 459 is plotted and shown on survey to the extent possible and practical.
- U.22.** Subject to rights-of-ways and provisions as shown on Plat filed May 26, 1981 and recorded in Book 7, page 99 is not plotted or shown on survey (Document does not provide Right of way dimensions).
- V.23.** The following is provided for your information and is not a part of this Commitment/Policy. The following Environmental No Further Remediation Letter appears of record, which include(s) a description of the land insured, or a part thereof: Book 716, page 54 Recorded Date: January 11, 1999 is plotted and shown on survey to the extent possible and practical.
- W.24.** Easement Reservations as shown in Quit Claim Deed dated October 1, 1999 and recorded October 8, 1999, in Book 745, page 202 is plotted and shown on survey to the extent possible and practical.
- X.25.** Easement in favor of Menard Electric Cooperative, and its/their respective successors and assigns, to install, operate and maintain all equipment necessary for the purpose of serving the land and other property, together with the right of access to said equipment, and the provisions relating thereto contained in the grant recorded/ filed as Book 773, page 217 is plotted and shown on survey to the extent possible and practical.
- Y.26.** Rights of the public, the State of Illinois and the municipality in and to that part of the land, if any, taken or used for road purposes is plotted and shown on survey to the extent possible and practical.
- Z.27.** Rights of way for drainage tiles, ditches, feeders, laterals and underground pipes, if any is not plotted or shown on survey.
- AA.28.** Rights, if any, of the United States of America, the State of Illinois, the municipality and the public in and to that part of the land lying within the bed of the Illinois River; and the rights of other owners of land bordering on the river in respect to the water of said river is not plotted or shown on survey.
- AB.29.** Consequences of the meandering of the Illinois River is plotted and shown on survey to the extent possible and practical.
- AF.32.** Matters disclosed by ALTA Survey made by Sarko Engineering, Inc. dated June 28, 2004 and last revised July 8, 2004 as job no. 40050:
 - a. The chain link fence encroaches from 2.3 to 6.5 feet East of the West line of 1550 East Road into the 1550 East Road right of way.
 - b. The chain link fence encroaches from 0.0 to 2.3 feet East of the West line of 1550 East Road into the 1550 East Road right of way.
 - c. The edge of asphalt pavement encroaches from 0.0 to 20.1 feet West of the West line of 1550 East Road onto the subject property.
 - d. The chain link fence encroaches from 0.0 to 25.3 feet South of the North line of 1500 North Road into the 1500 North Road right of way.
 - e. The chain link fence encroaches from 0.0 to 14.8 feet North of the North property line on the adjacent property to the North.
 - f. The chain link fence encroaches from 7.2 to 8.1 feet East of the East property line into the Illinois State Highway 78 right of way.
 - g. The chain link fence encroaches from 0.0 to 4.2 feet East of the East property line in the Illinois State Highway 78 right of way.
- AG.33.** Electric Switchyard Easement over, across and through the premises as disclosed by ALTA survey made by Sarko Engineering, Inc. dated June 28, 2004 and last revised July 8, 2004 as job no. 40050 is plotted and shown on survey to the extent possible and practical.
- AH.34.** Overhead Electric Transmission Line Easement "A" across the premises as disclosed by ALTA survey made by Sarko Engineering, Inc. dated June 28, 2004 and last revised July 8, 2004 as job no. 40050 is plotted and shown on survey to the extent possible and practical.
- AI.35.** Overhead Electric Transmission Line Easement "B" across the premises as disclosed by ALTA Survey made by Sarko Engineering, Inc. dated June 28, 2004 and last revised July 8, 2004 as job no. 40050 is plotted and shown on survey to the extent possible and practical.
- AJ.36.** Overhead Electric Transmission Line Easement "C" across the premises as disclosed by ALTA survey made by Sarko Engineering, Inc. dated June 28, 2004 and last revised July 8, 2004 as job no. 40050 is plotted and shown on survey to the extent possible and practical.

Legend of Symbols & Abbreviations

⊙	SANITARY SEWER MANHOLE	—GAS—	UNDERGROUND GAS LINE
—	SANITARY SEWER LINE	—L—	UNDERGROUND LIGHT CABLE
⊕	WATER VALVE IN VAULT	—O/E—	OVERHEAD ELECTRIC LINE
⊕	WATER VALVE	—	CONCRETE CURB & GUTTER
—	WATER LINE	—	DEPRESSED CURB
⊕	FIRE HYDRANT	⊙	ELECTRIC MANHOLE
⊕	STORM SEWER INLET	⊕	TELEPHONE MANHOLE
⊕	STORM SEWER CATCH BASIN	—	SIGN
⊕	STORM SEWER MANHOLE	—	FENCE LINE
—	STORM SEWER LINE	—	RAILROAD TRACKS
⊕	POWER POLE	⊕	DECIDUOUS TREE
⊕	TRANSFORMER BOX/PAD	⊕	EVERGREEN
⊕	LIGHT	⊕	BUSH/HEDGE
⊕	FLOOD LIGHT	⊕	BOLLARD
⊕	TRAFFIC SIGNAL	⊕	REGULAR PARKING SPACE
⊕	HAND HOLE	⊕	HANDICAP PARKING SPACE
⊕	TELEPHONE BOX/PEDESTAL	⊕	SOIL BORING (SB)
⊕	GAS VALVE	⊕	RECORD DISTANCE
—	UNDERGROUND TELEPHONE CABLE	⊕	RECORD BEARING
—	UNDERGROUND ELECTRIC CABLE	⊕	CORRESPONDING NOTES TO SCHEDULE B

Miscellaneous Notes

1. Dimensions on the plat are expressed in feet and decimal parts thereof. Bearings are based upon Illinois State Plane Coordinates (NAD 83).
2. Information on survey based on Chicago Title Insurance Company, Commitment No. 1245 450171458 PE0 with an effective date of July 15, 2011.
3. Property contains: East Property 9,304,553.23 sq. ft. (213.60 acres), West Property 8,976,307.51 sq. ft. (206.07 acres), Total Property 18,280,860.74 sq. ft. (419.67 acres), more or less.
4. Zoning: M-2 Heavy Industry District
5. There was no observable evidence of earth moving work, building construction or building additions within recent months.
6. There was no observable evidence of site used as a solid waste dump, or sump or sanitary landfill.
7. There was no observable evidence of changes in street right of way lines.
8. Parking count: 78 Regular Stalls, 0 Handicapped Stalls, 78 Total Stalls
9. There was no observable evidence of site used as a Cemetery.
10. All field measurements matched record dimensions within precision requirements of ALTA/ACSM specifications unless otherwise noted within [xxx.xx].
11. The water boundary is subject to change due to the natural causes and it may/may not represent the actual location of the limit of the title.

Current Zoning Information

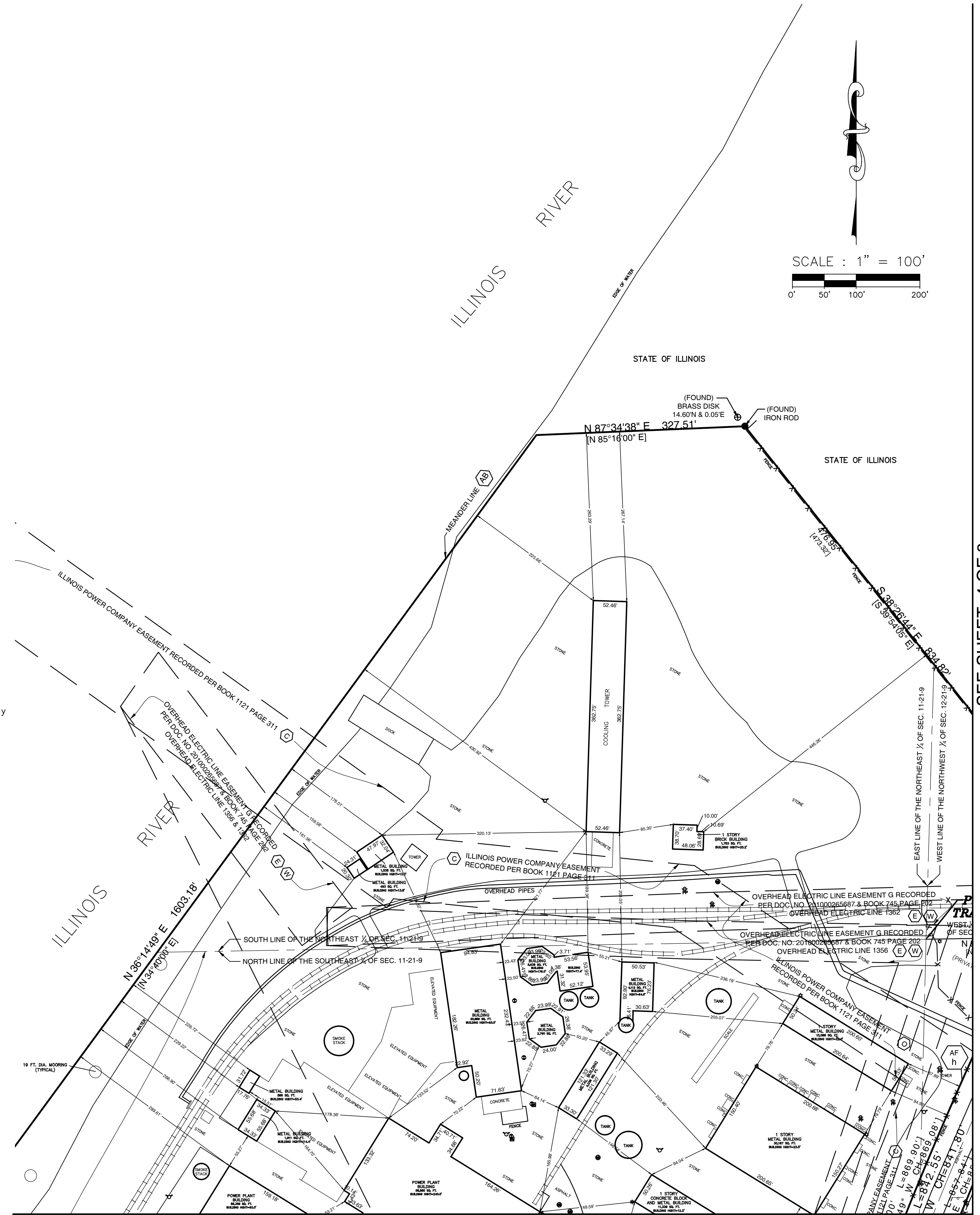
Village of Havana Zoning Ordinance
Mason County, Illinois

M-2 HEAVY INDUSTRIAL DISTRICT

Height: The maximum allowable building height in this district is 35.00 feet or 2 stories.

Setbacks in this district are:
Front Yard - Fifty (50) feet minimum.
Side Yard - Twenty (20) feet minimum.
Rear Yard - Twenty (20) feet minimum.
Street side yard - Fifty (50) feet minimum.

Bulk Restrictions:
There are no lot coverage restrictions in the district. The zoning code requires 1 stall per each employee on the maximum shift plus 1 stall per vehicle used in the enterprise.



SEE SHEET 4 OF 8

SEE SHEET 6 OF 8

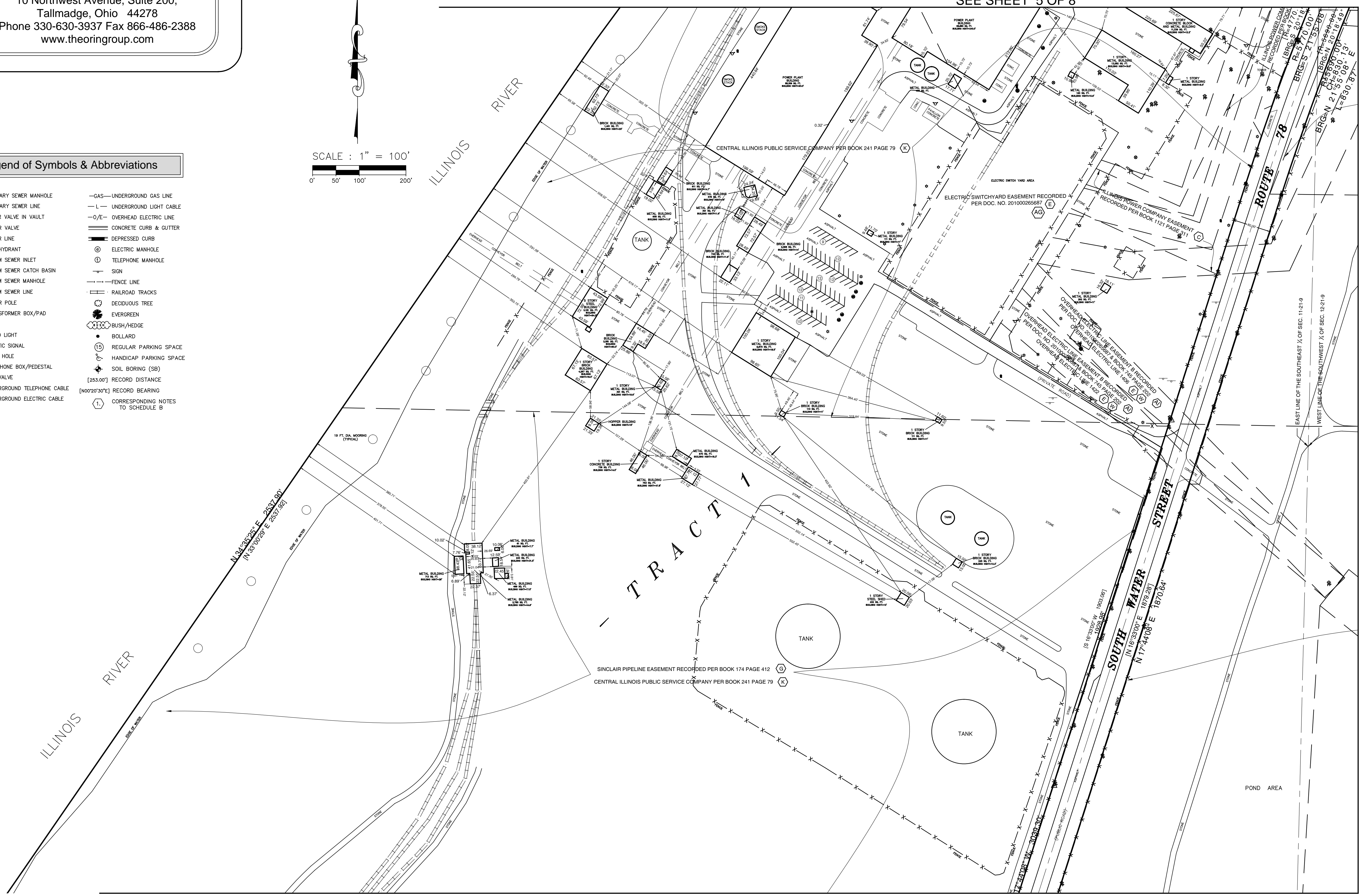
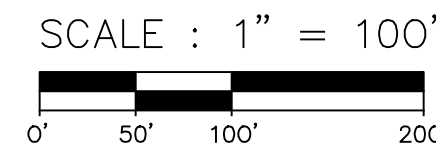


The Orin Group, LLC.

10 Northwest Avenue, Suite 200,
Tallmadge, Ohio 44278
Phone 330-630-3937 Fax 866-486-2388
www.theoringroup.com

Legend of Symbols & Abbreviations

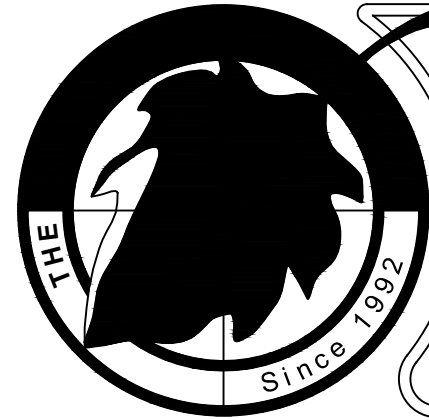
- | | | | |
|---|-----------------------------|-------|-----------------------------------|
| ⊙ | SANITARY SEWER MANHOLE | —GAS— | UNDERGROUND GAS LINE |
| — | SANITARY SEWER LINE | —L— | UNDERGROUND LIGHT CABLE |
| ⊕ | WATER VALVE IN VAULT | —O/E— | OVERHEAD ELECTRIC LINE |
| ⊕ | WATER VALVE | — | CONCRETE CURB & GUTTER |
| — | WATER LINE | — | DEPRESSED CURB |
| ⊕ | FIRE HYDRANT | ⊙ | ELECTRIC MANHOLE |
| ⊕ | STORM SEWER INLET | ⊕ | TELEPHONE MANHOLE |
| ⊕ | STORM SEWER CATCH BASIN | — | SIGN |
| ⊕ | STORM SEWER MANHOLE | — | FENCE LINE |
| — | STORM SEWER LINE | — | RAILROAD TRACKS |
| ⊕ | POWER POLE | ⊕ | DECIDUOUS TREE |
| ⊕ | TRANSFORMER BOX/PAD | ⊕ | EVERGREEN |
| ⊕ | LIGHT | ⊕ | BUSH/HEDGE |
| ⊕ | FLOOD LIGHT | • | BOLLARD |
| ⊕ | TRAFFIC SIGNAL | ⊕ | REGULAR PARKING SPACE |
| ⊕ | HAND HOLE | ⊕ | HANDICAP PARKING SPACE |
| ⊕ | TELEPHONE BOX/PEDESTAL | ⊕ | SOIL BORING (SB) |
| ⊕ | GAS VALVE | — | RECORD DISTANCE [253.00'] |
| — | UNDERGROUND TELEPHONE CABLE | — | [N00°20'30"E] RECORD BEARING |
| — | UNDERGROUND ELECTRIC CABLE | ⊕ | CORRESPONDING NOTES TO SCHEDULE B |



SEE SHEET 5 OF 8

SEE SHEET 7 OF 8

SEE SHEET 3 OF 8



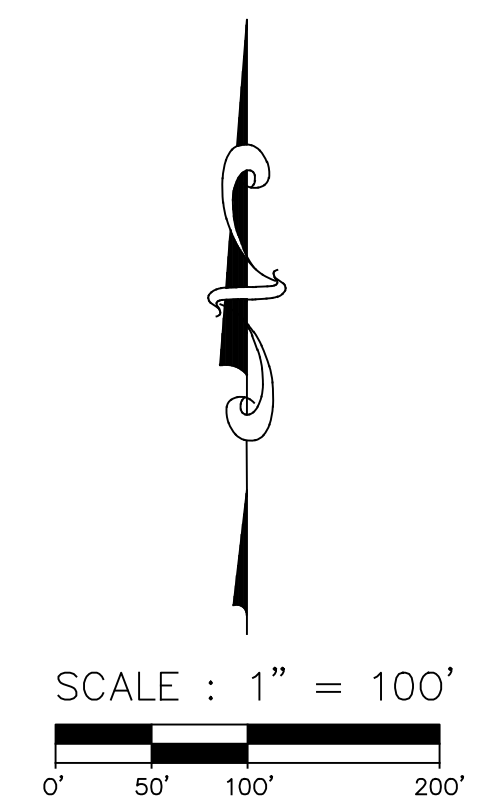
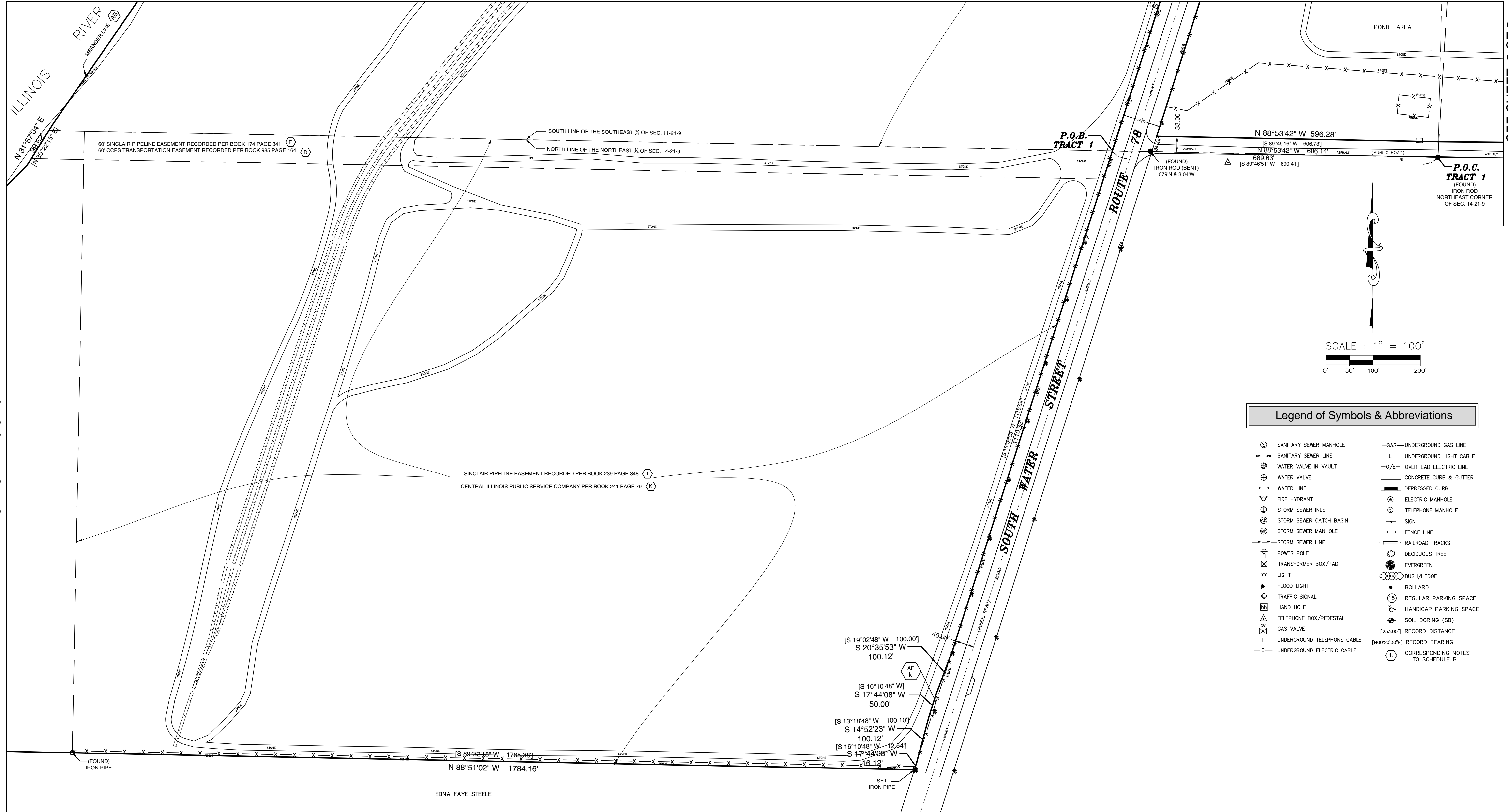
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SEE SHEET 6 OF 8

SEE SHEET 8 OF 8

SEE SHEET 2 OF 8



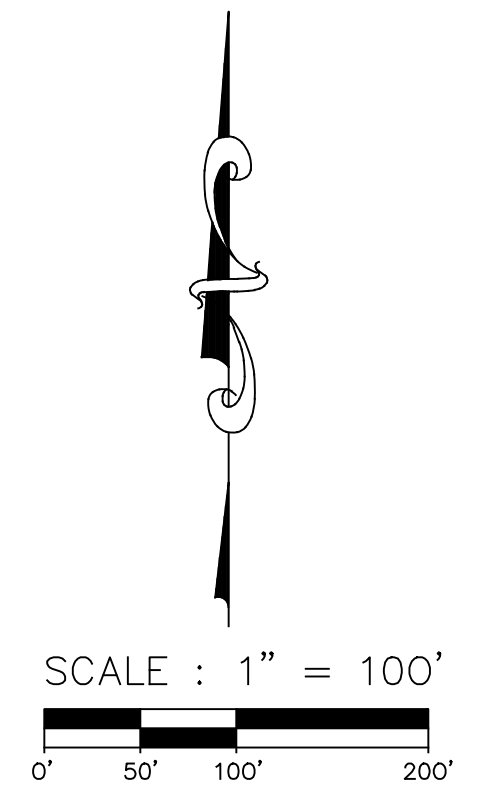
Legend of Symbols & Abbreviations

- | | | | |
|-----|-----------------------------|-------|-----------------------------------|
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| —E— | UNDERGROUND ELECTRIC CABLE | ⊕ | CORRESPONDING NOTES TO SCHEDULE B |



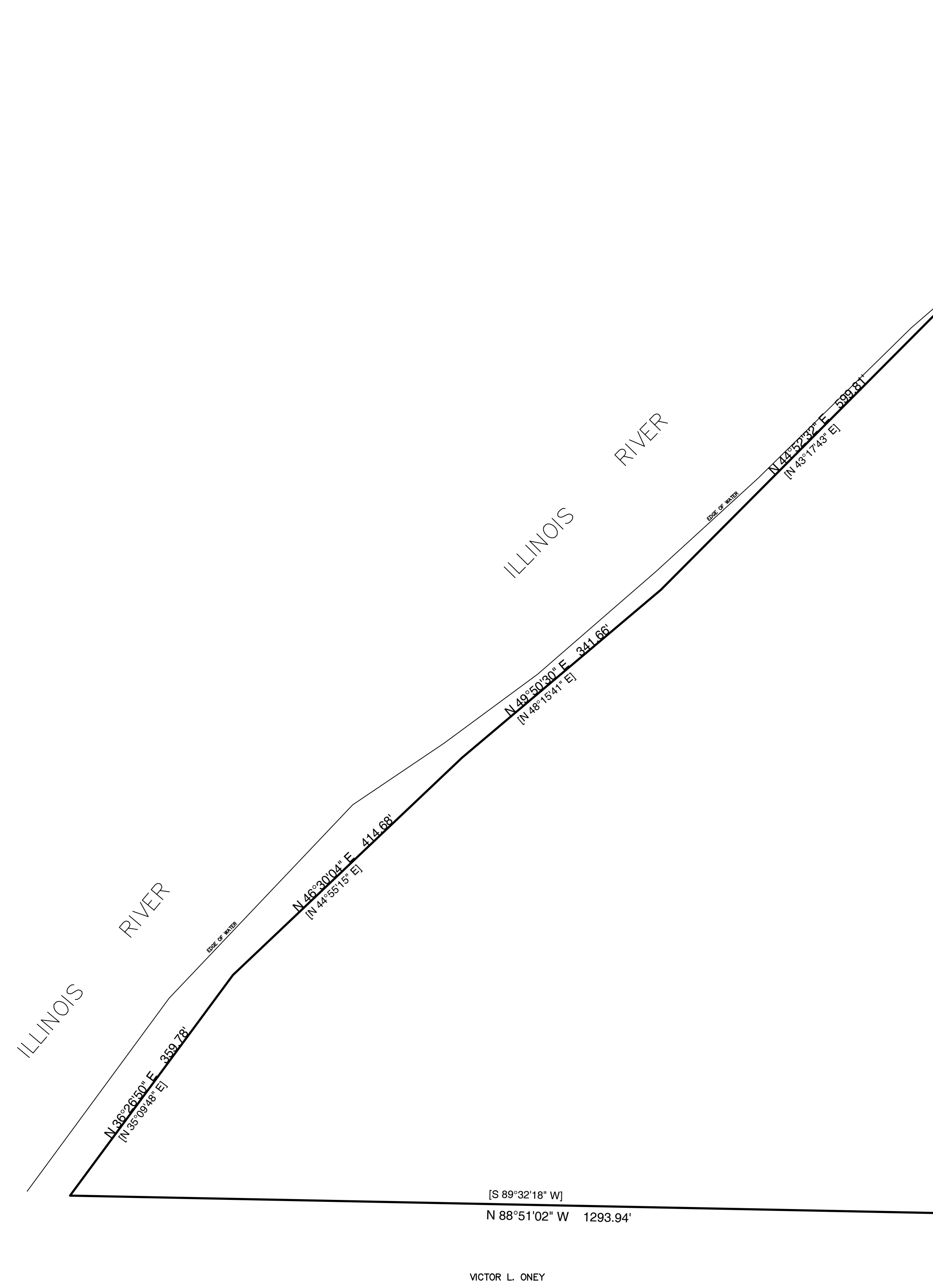
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Legend of Symbols & Abbreviations

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☆	LIGHT	⊕	BUSH/HEDGE
▶	FLOOD LIGHT	•	BOLLARD
⊕	TRAFFIC SIGNAL	⊕	REGULAR PARKING SPACE
⊕	HAND HOLE	⊕	HANDICAP PARKING SPACE
⊕	TELEPHONE BOX/PEDESTAL	⊕	SOIL BORING (SB)
⊕	GAS VALVE	[253.00']	RECORD DISTANCE
—T—	UNDERGROUND TELEPHONE CABLE	[N00°20'30"E]	RECORD BEARING
—E—	UNDERGROUND ELECTRIC CABLE	①	CORRESPONDING NOTES TO SCHEDULE B



ATTACHMENT 4.1
Description of East Ash Pond Impoundment

Technical Memorandum
CCR Residual Surface Impoundment Permit Application
Former Havana Power Station, Havana, IL

Date: October 29, 2021
Attachment: IEPA Form CCR 1
Section: 4 – Impoundment Identification
Item No.: 4.1 – Impoundment identification document

NOTES

This attachment describes the items required under Section 4, Item 4.1.

Item 4.1 requires the submission of the IEPA Impoundment Identification Number as well as a written description of the impoundment. Finch Development LLC has yet to receive any official Impoundment Numbers for the three CCR units (identified as Cells 1 through 3) issued by IEPA. The East Ash Pond complex has received its renewed NPDES Permit (No. IL0001571) but no other Impoundment Identification Numbers.

The written description of the East Ash Pond complex is attached to this Technical Memorandum (TM), including a site map showing the location of the East Ash Pond complex and the location of the three (3) CCR units (Cells 1 through 3) and the stormwater pond which is not a CCR unit. The written description was obtained from the AECOM *CCR Certification Report: Initial Structural Stability Assessment, Initial Safety Factor Assessment, and Initial Inflow Design Flood Control System, Plan for East Ash Pond at Havana Power Station*, dated October 2016. A copy of this report is available on the federal CCR website (<https://ccrhavana.com/>) and the Illinois CCR website (<https://illinois.ccrhavana.com/>). The East Ash Pond complex is located on Tract 2 as described in the Legal Description attachment to Item 2.1 of the CCR Form 1.

Description of East Ash Pond Complex^{1 & 2}

The Havana Power Station consists of the East Ash Pond Complex with three CCR units identified as Cells 1 through 3 and a stormwater pond which is not a CCR unit. These three (3) CCR units are interior sub-basins that are surrounded by a continuous perimeter embankment. The East Ash Pond complex (including the stormwater pond) has a total area of approximately 170 acres and the perimeter embankment has a total length of approximately 11,200 feet with a maximum height above the exterior grade of approximately 40 feet.

The East Ash Pond complex served as the wet impoundment basins for CCR materials produced at the Havana Power Station. The East Ash Pond complex received inflow from three sluice pipes that discharged into the northwest side of Cell 3. CCR material is not currently placed in any of the CCR units (Cells 1 through 3) as the Havana Power Station is no longer active hence no longer generates CCR materials for disposal.

A secondary concrete-paved emergency spillway is present between CCR Cell 3 and the stormwater pond. A 36-inch diameter DIP drop inlet structure connects CCR Cell 2 to the stormwater pond. A secondary concrete-paved emergency spillway is also present between CCR Cell 2 to the stormwater pond. A 30-inch diameter reinforced concrete pipe (RCP) with an invert elevation³ of 486.0 feet and two additional 12-inch DIP culverts connect CCR Cell 1 to the stormwater pond. The primary spillway structure that manages flow out of the East Ash Pond complex is located in the stormwater pond and consists of a reinforced concrete riser structure with stop logs (invert elevation³ of 484.0 feet) that is connected to a 36-inch diameter RCP that passes through and beneath the dike of the stormwater pond and the Havana Power Station for approximately 3,700 feet before discharging into the Illinois River at an NPDES-permitted outfall.

Each of the three (3) CCR units and the stormwater pond within the East Ash Pond complex is contained by a continuous earthen perimeter embankment with interior and exterior slopes of 3H:1V and a crest width of approximately 15 feet. CCR unit 1 has a 3-foot-thick clay liner under the footprint of the cell with concrete revetment slope protection near the normal pool level on the interior slopes for erosion protection. CCR units 2 and 3 have composite liners consisting of a 12-inch-thick clay liner and 45-mil polypropylene liner, and the liner extends up the interior slopes and acts as erosion protection. CCR units 1, and 2 have crest elevations ranging from 488 to 490 feet, while CCR unit 3 has a crest elevation ranging from 494 to 496 feet. Gravel surfaced access road is present along the crest of the continuous perimeter embankment as well as the interior splitter dikes dividing the four cells.

Table 6-1, on the following page, was obtained from the Emergency Action Plan².

¹ Summarized from AECOM, *CCR Certification Report: Initial Structural Stability Assessment, Initial Safety Factor Assessment, and Initial Inflow Design Flood Control System Plan for East Ash Pond at Havana Power Station*, October 2016

² Summarized from Stantec Consulting Services Inc. (Original and Revision No. 1) and ATON LLC (Revision No. 2), *Emergency Action Plan Havana Power Station*, Revision No. 2 Date October 29, 2021.

³ All datums in this description are in the NAVD88 datum unless stated otherwise.

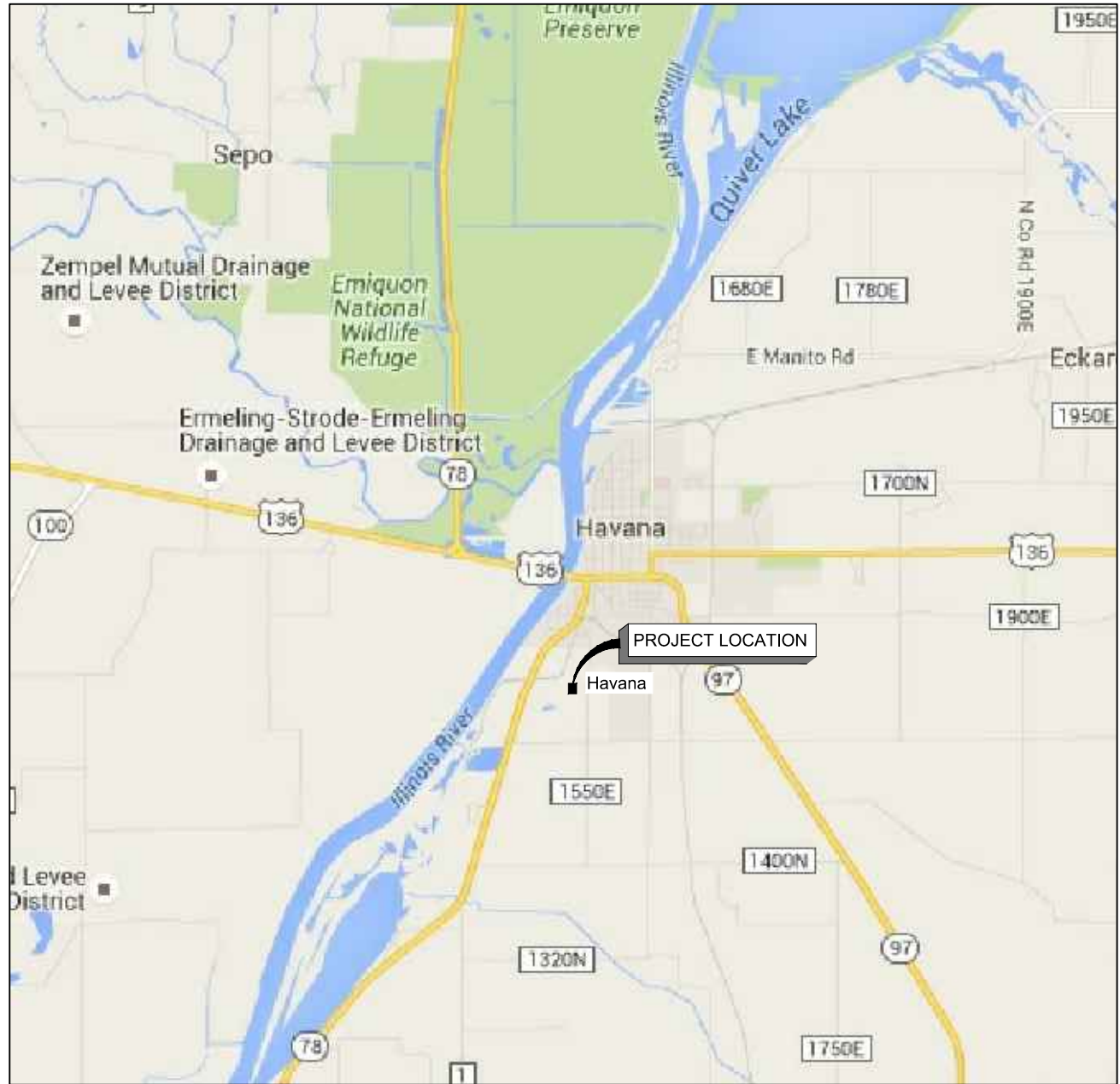
Table 6-1. Station Impoundment (East Ash Pond System) Characteristics

Feature/Parameter	Cell 1	Cell 2	Cell 3
Maximum Embankment Height	25 ft. ⁽³⁾	40 ft. ⁽³⁾	38 ft. ⁽³⁾
Length of Dam	3240 ft. ⁽²⁾	1800 ft. ⁽²⁾	7574 ft. ⁽²⁾
Crest Width	15 ft. ⁽²⁾	15 ft. ⁽²⁾	15 ft. ⁽²⁾
Crest Elevation	490.0 ft. ⁽¹⁾	490.0 ft. ⁽¹⁾	496.0 ft. ⁽¹⁾
Reservoir Area at Top of Dam	39.7 acres ⁽¹⁾	36.5 acres ⁽¹⁾	82.6 acres ⁽¹⁾
Storage Capacity at Top of Dam	488 acre-ft. ⁽²⁾	615 acre-ft. ⁽²⁾	1410 acre-ft. ⁽²⁾
Primary Spillway Type	30-Inch CMP Standpipe ⁽²⁾	36-Inch Ductile Iron Standpipe ⁽²⁾	Standpipe
Primary Spillway Crest Elevation	486.0 ft. ⁽²⁾	486.0 ft. ⁽²⁾	490.5 ft. ⁽²⁾
Storage Capacity at Primary Spillway Elevation	395 acre-ft. ⁽²⁾	531 acre-ft. ⁽²⁾	1176 acre-ft. ⁽²⁾
Reservoir Area at Normal Water Surface Elevation	0.3 acres ⁽¹⁾	1.1 acres ⁽¹⁾	30.9 acres ⁽¹⁾
Auxiliary Spillway Type	Two Steel Pipes ⁽²⁾	Concrete Lined Spillway ⁽²⁾	Concrete Lined Spillway ⁽²⁾
Auxiliary Spillway Crest Elevation	488.0 ft. ⁽²⁾	488.0 ft. ⁽²⁾	494.0 ft. ⁽²⁾

Notes:

- 1) 2015 Aerial Survey, Weaver Consultants
- 2) "Havana Power Station, Havana, Illinois, East Ash Pond System, IDNR Dam Safety Program, Emergency Action Plan, IDNR Permit No. DS2011079, Dam ID No. IL50483" Dynege Midwest Generation, L.L.C. Revised February, 2015.
- 3) "Coal Combustion Waste Impoundment Dam Assessment Report, Site 18 Havana Power Plant, Dynege Midwest Generation Inc. Havana, Illinois", Dewberry & Davis L.L.C., September 11, 2009.


Note: The East Ash Pond is located on Tract 2 as described in the Legal Description attachment (see Attachment 2.1



LOCATION MAP
 NOT TO SCALE



VICINITY MAP
 NOT TO SCALE

 8300 College Boulevard, Suite 200 Overland Park, Kansas 66210		
CLIENT: DYNEGY MIDWEST GROUP, INC.		
LOCATION: HAVANA, IL		
TITLE: LOCATION MAP & SITE VICINITY MAP		
DRAWN BY SMS	CHECKED BY BDL	APPROVED BY BDL
PROJECT NO. 60439304	DATE FEB. 2016	FIGURE NO. 1