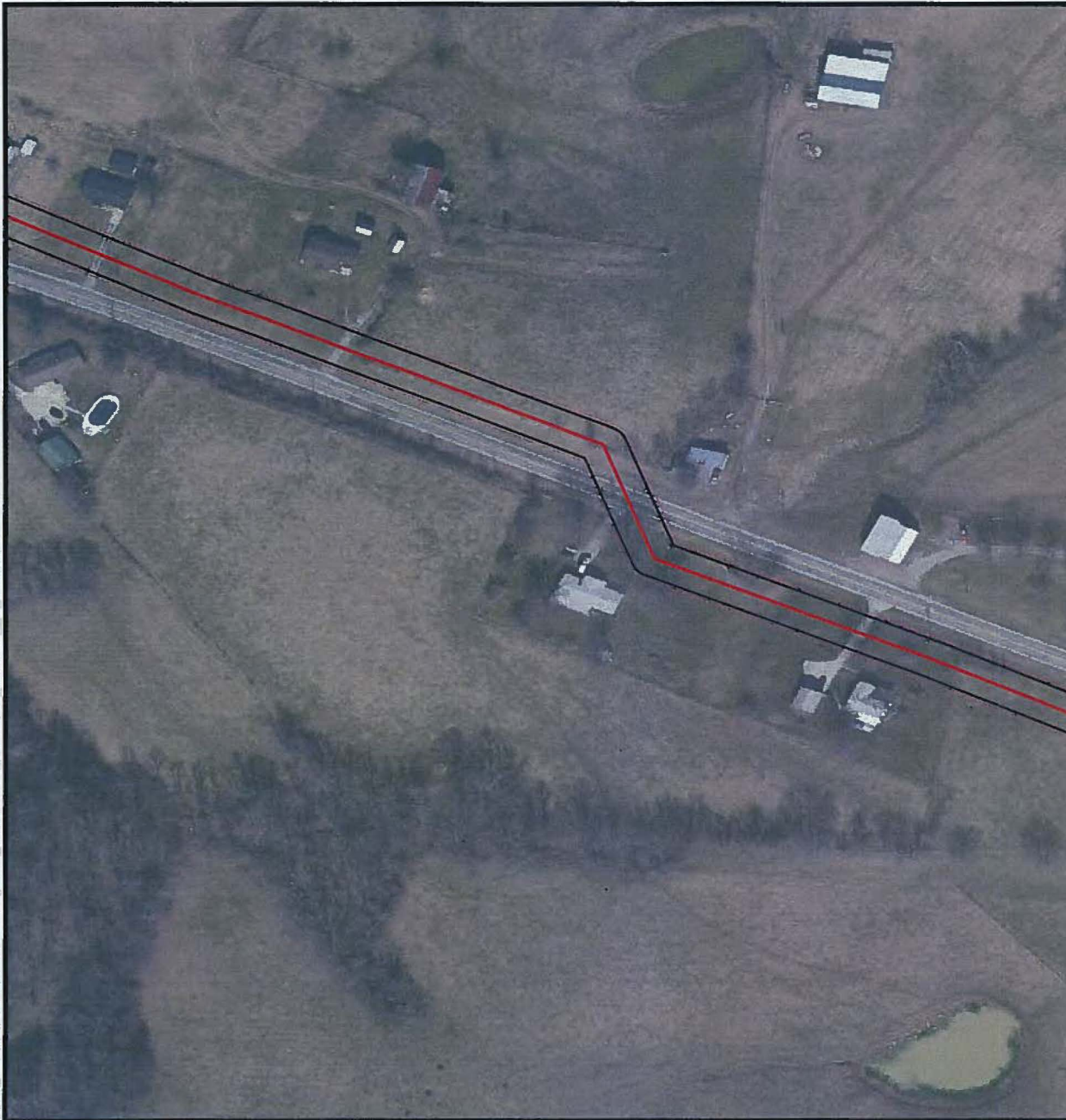











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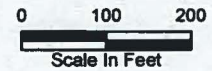


LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
- Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4N
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016



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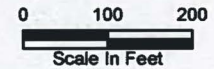
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
 ESRI World Imagery 2014



Duke Energy Walton-Big Bone
 Natural Gas Pipeline Project,
 Boone County, Kentucky

**FIGURE 40
 WETLAND AND WATERBODIES
 DELINEATION MAP**

PN: 673325

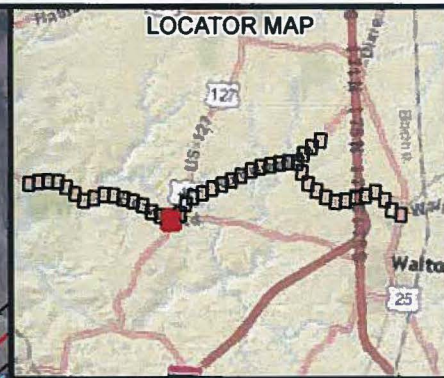
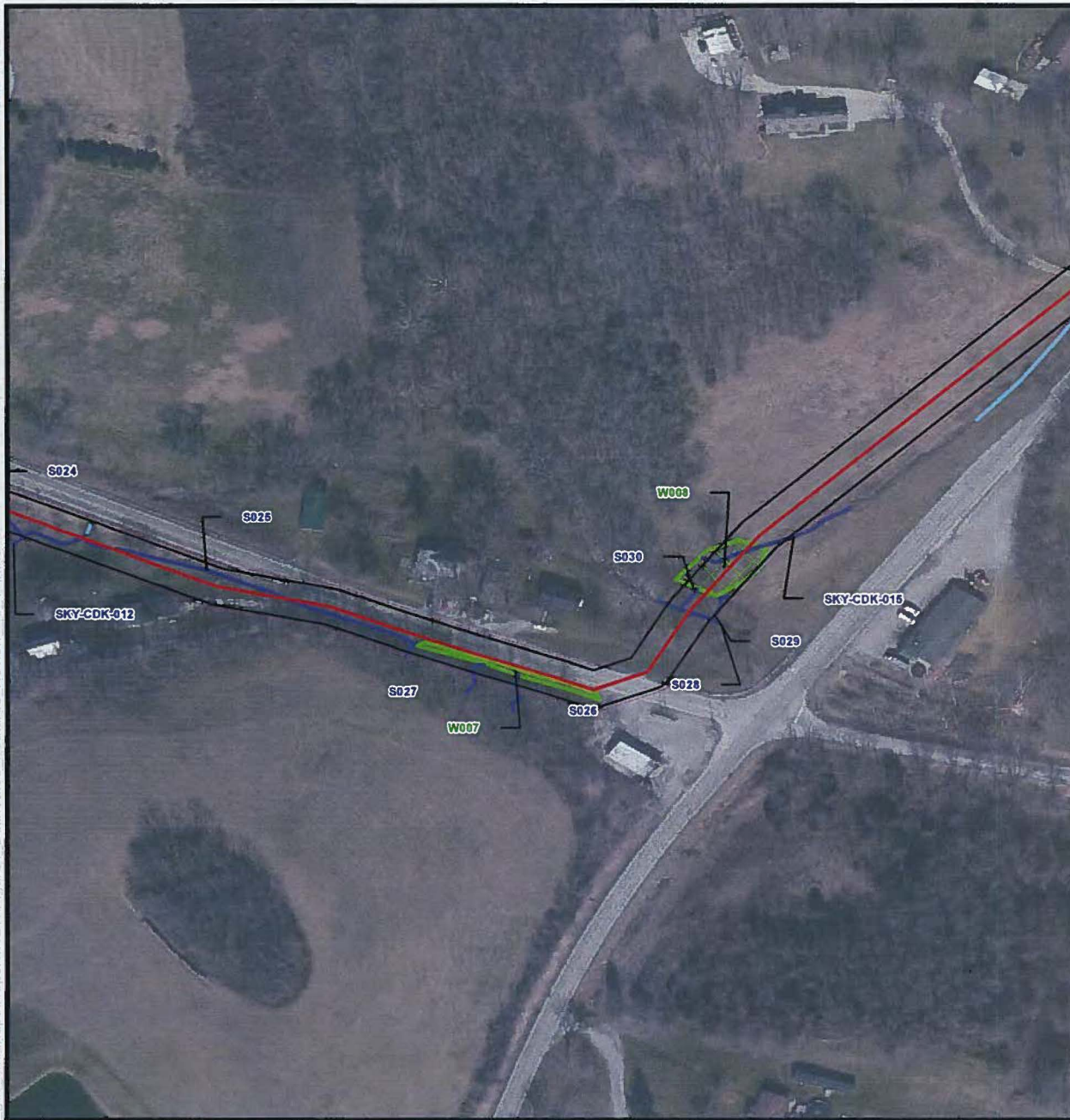
DATE: 4/25/2016



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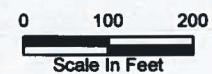


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4P
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

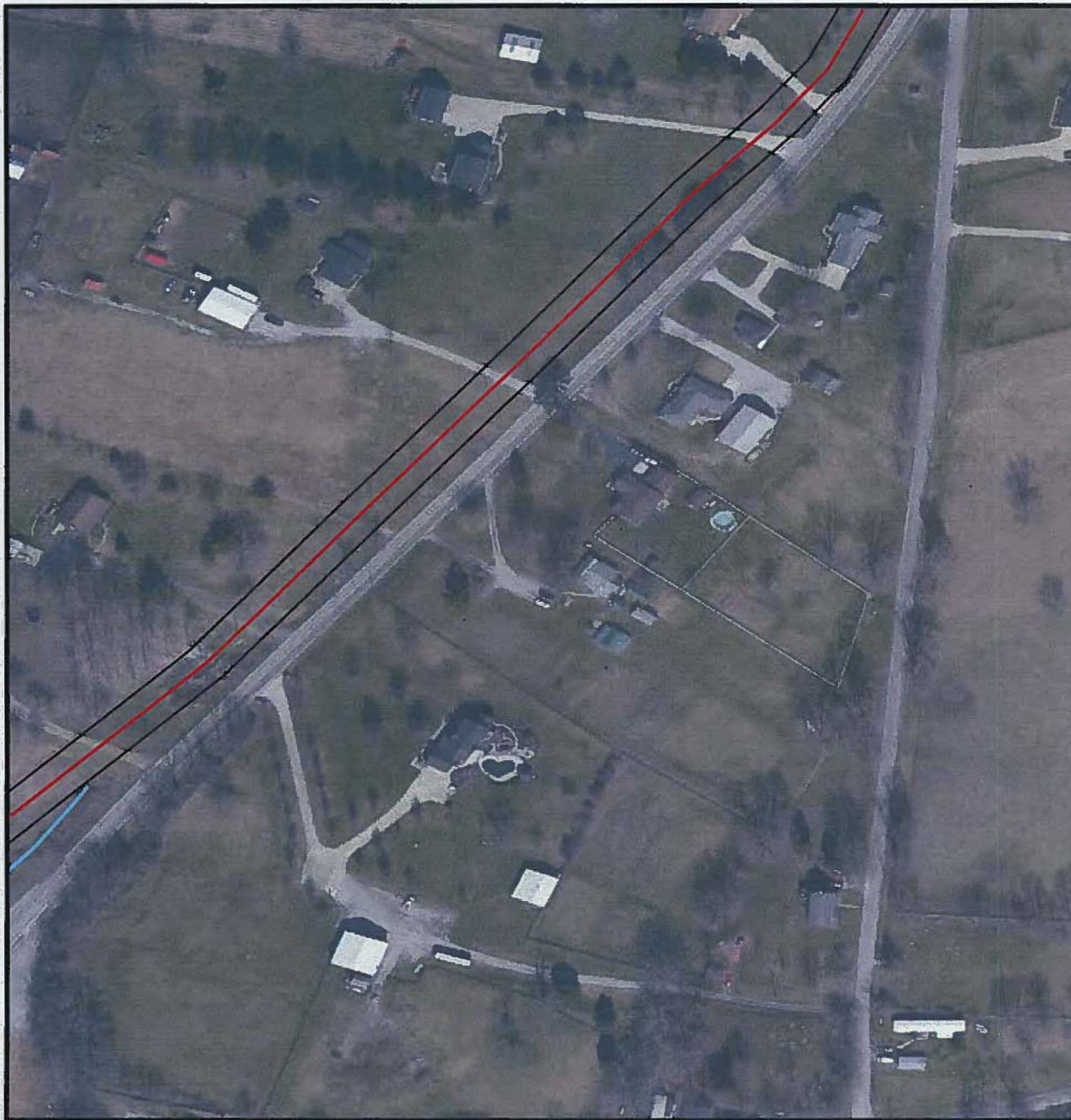
DATE: 4/25/2016



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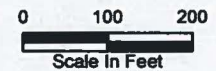
LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4Q
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

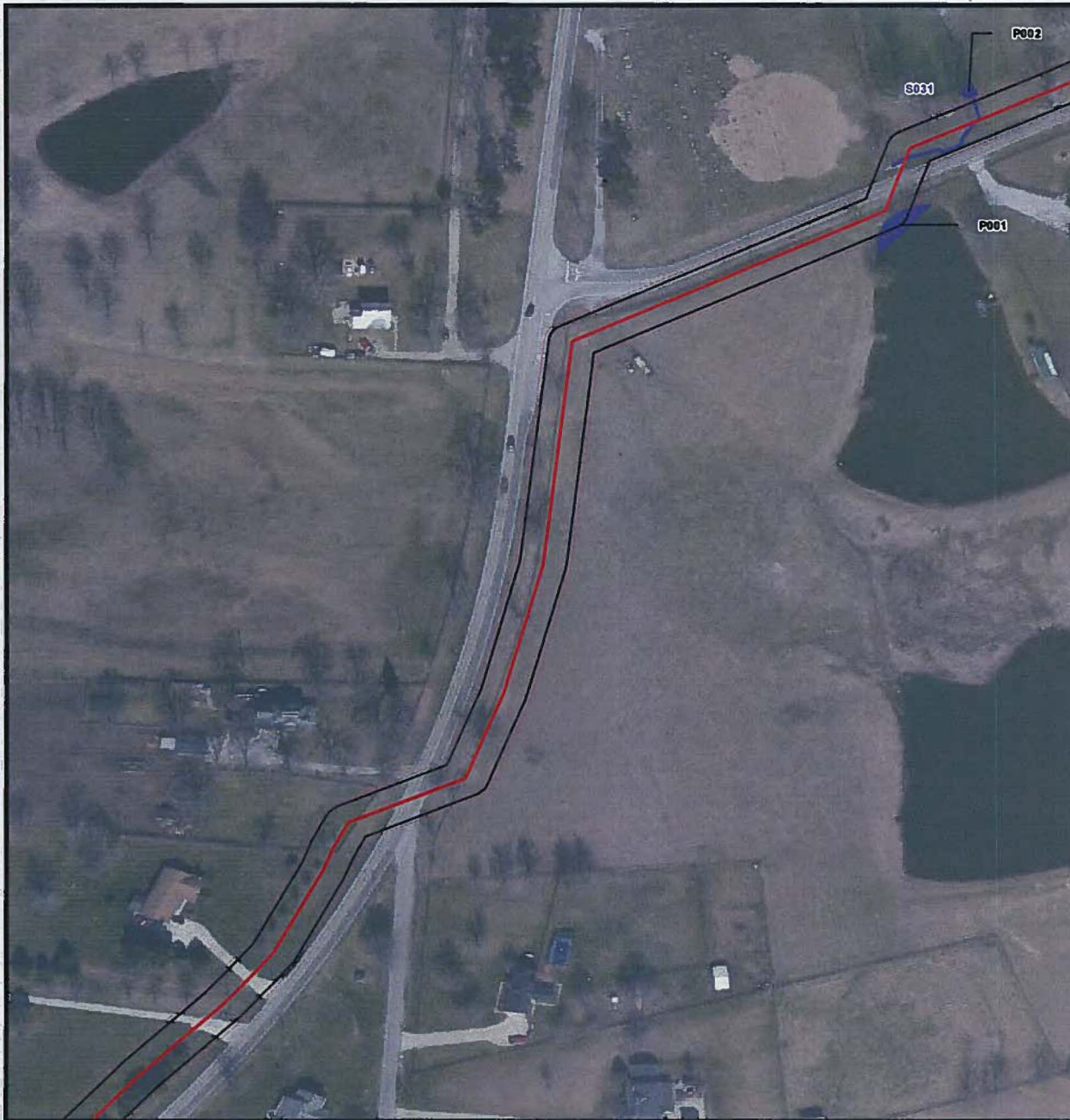
DATE: 4/25/2016



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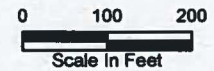


LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4R
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

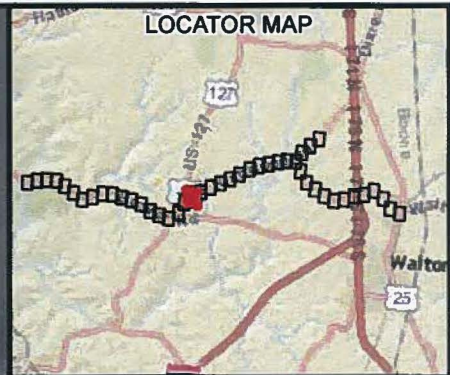
DATE: 4/25/2016



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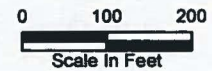
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
 ESRI World Imagery 2014



Duke Energy Walton-Big Bone
 Natural Gas Pipeline Project,
 Boone County, Kentucky

**FIGURE 4S
 WETLAND AND WATERBODIES
 DELINEATION MAP**

PN: 673325

DATE: 4/25/2016



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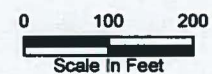
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4T
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

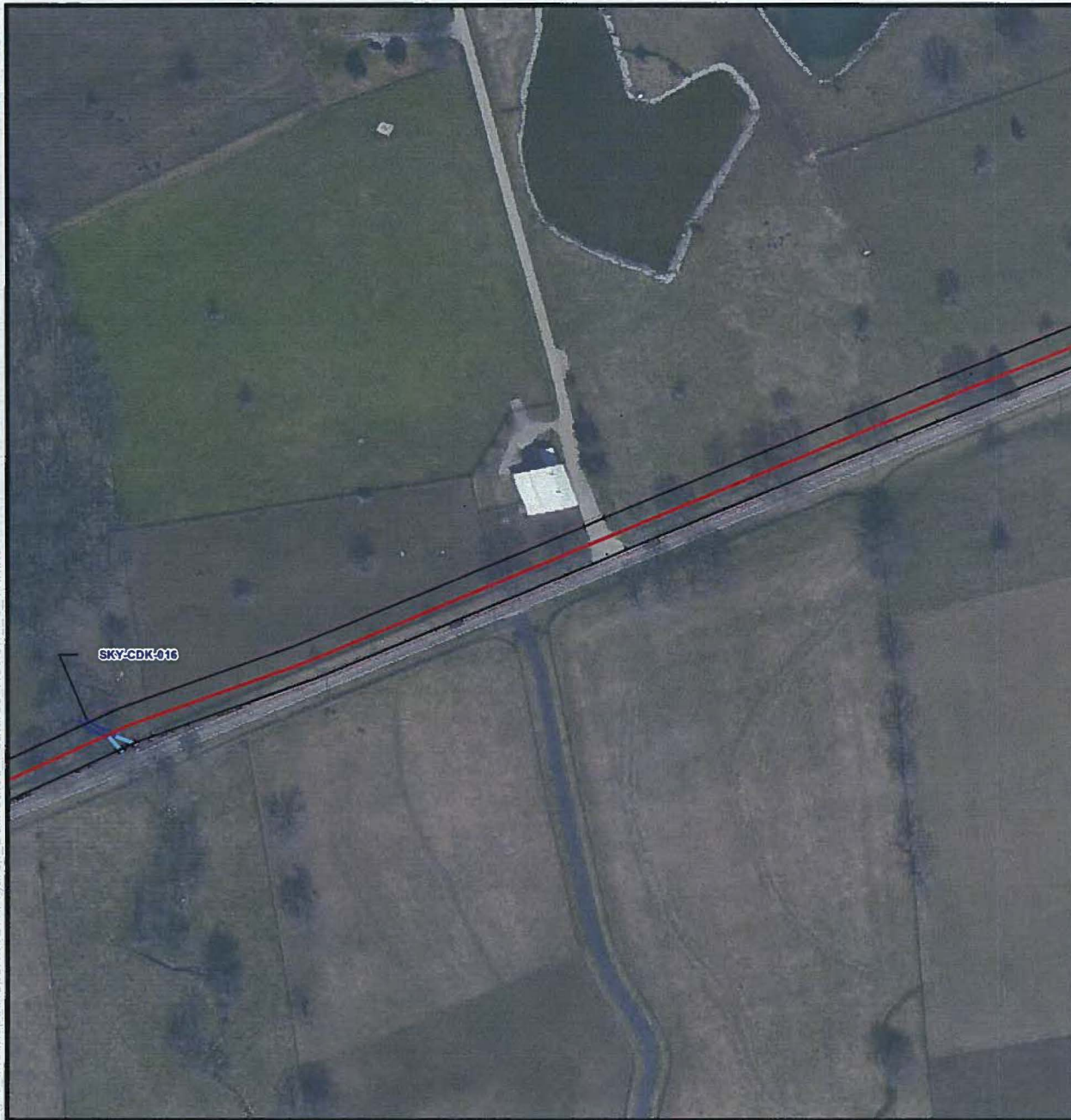
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
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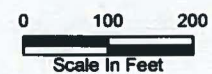


LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4U
WETLAND AND WATERBODIES
DELINEATION MAP**

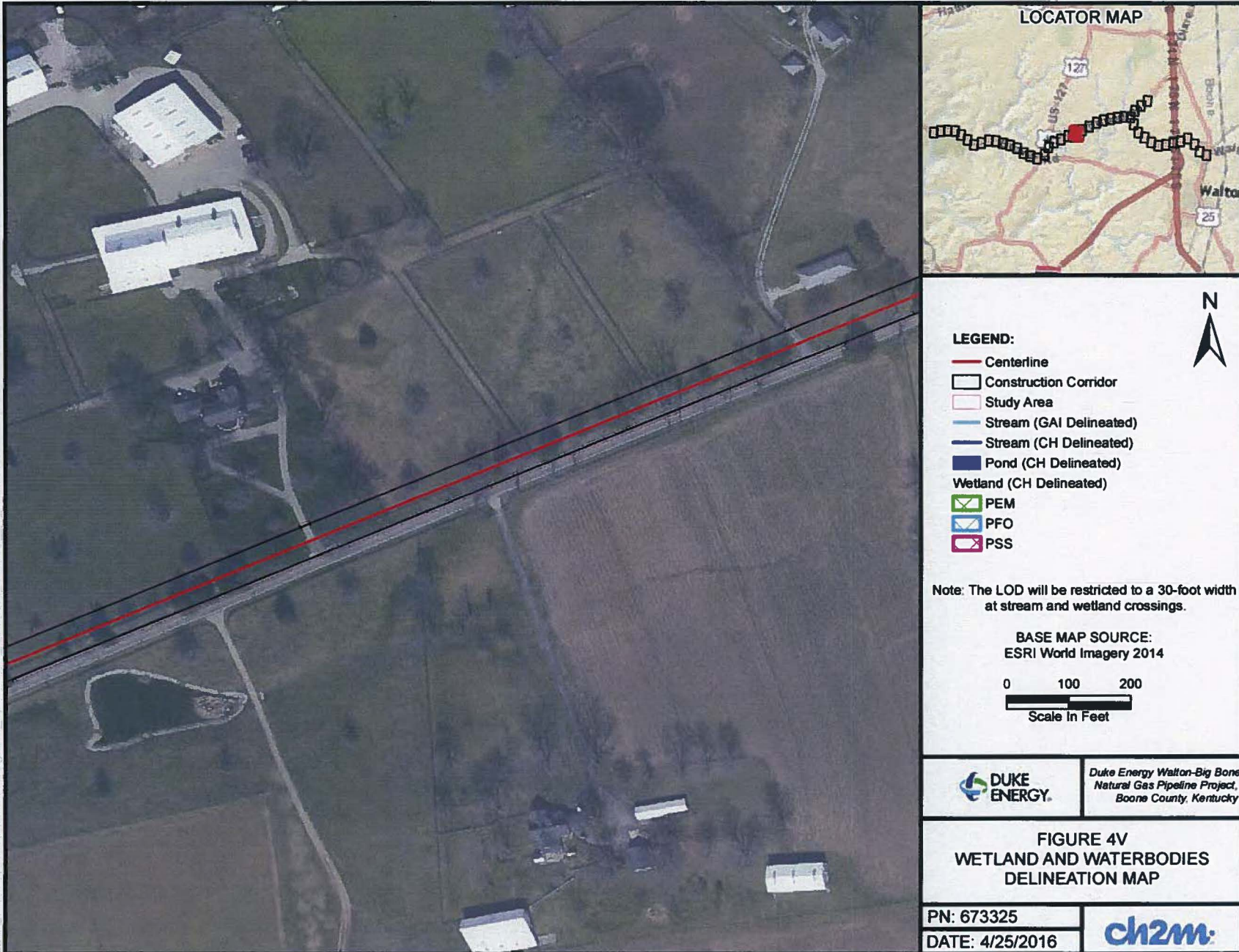
PN: 673325

DATE: 4/25/2016



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LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4W
WETLAND AND WATERBODIES
DELINEATION MAP**

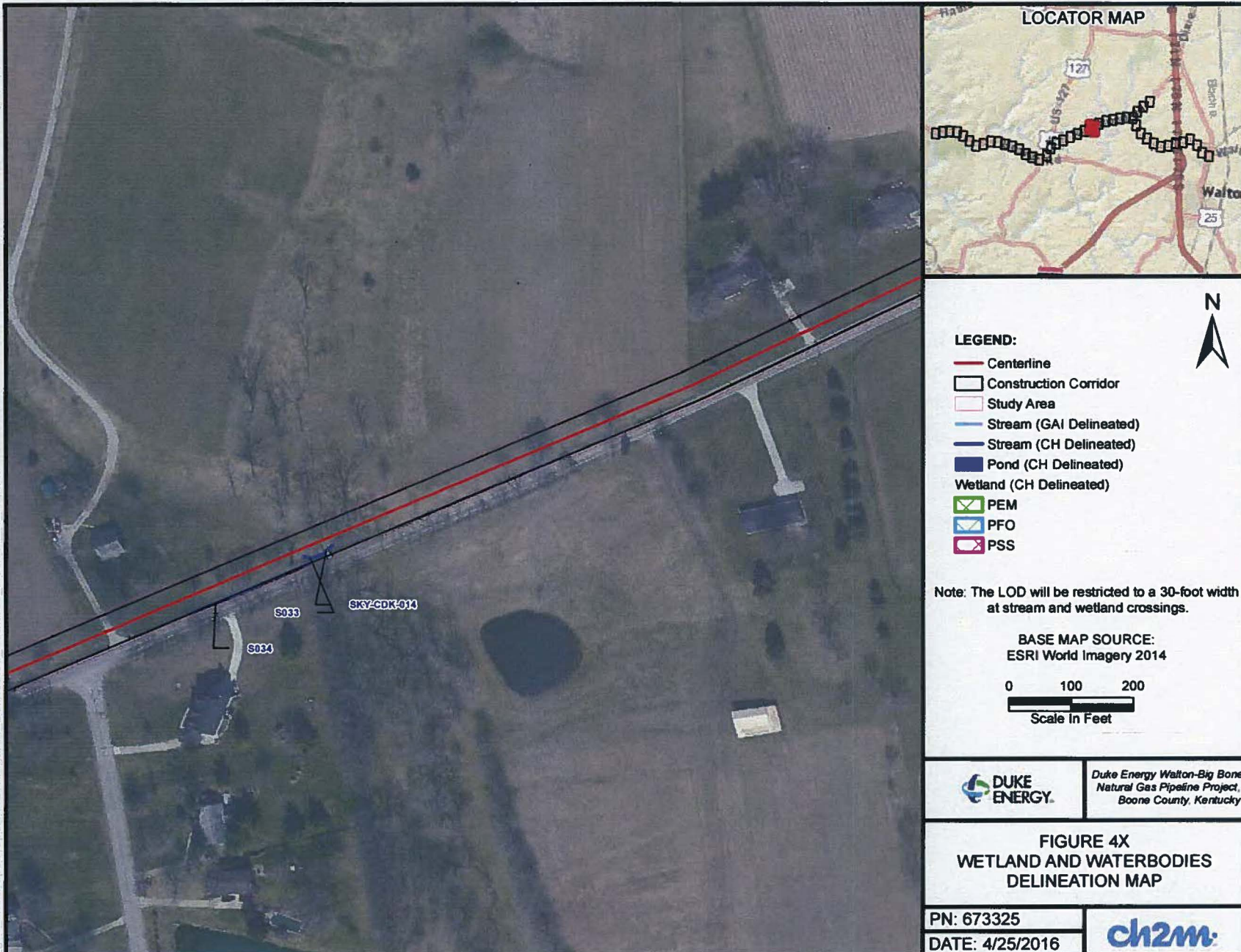
PN: 673325
DATE: 4/25/2016



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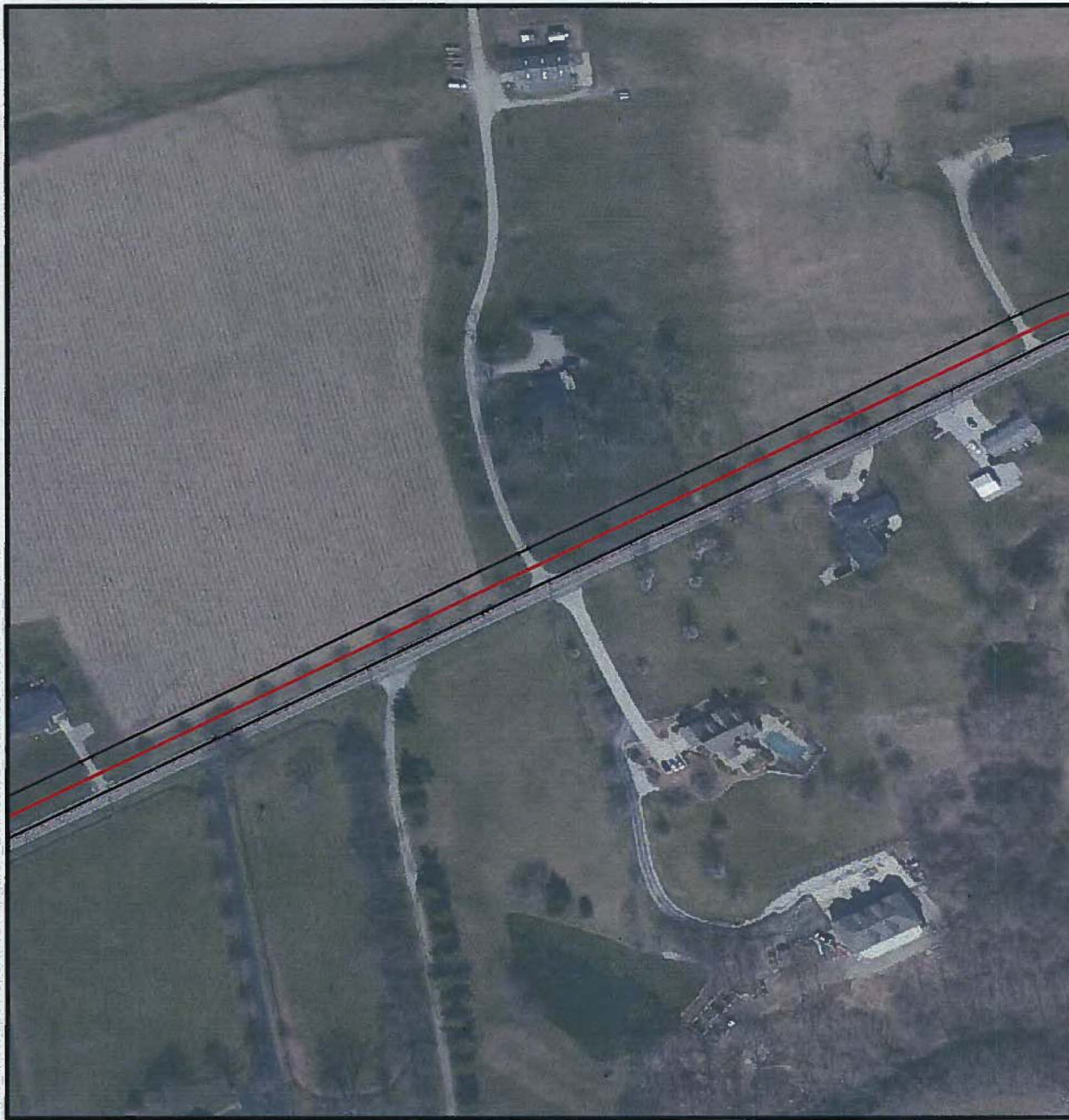
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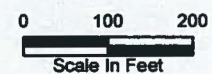
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4Y
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

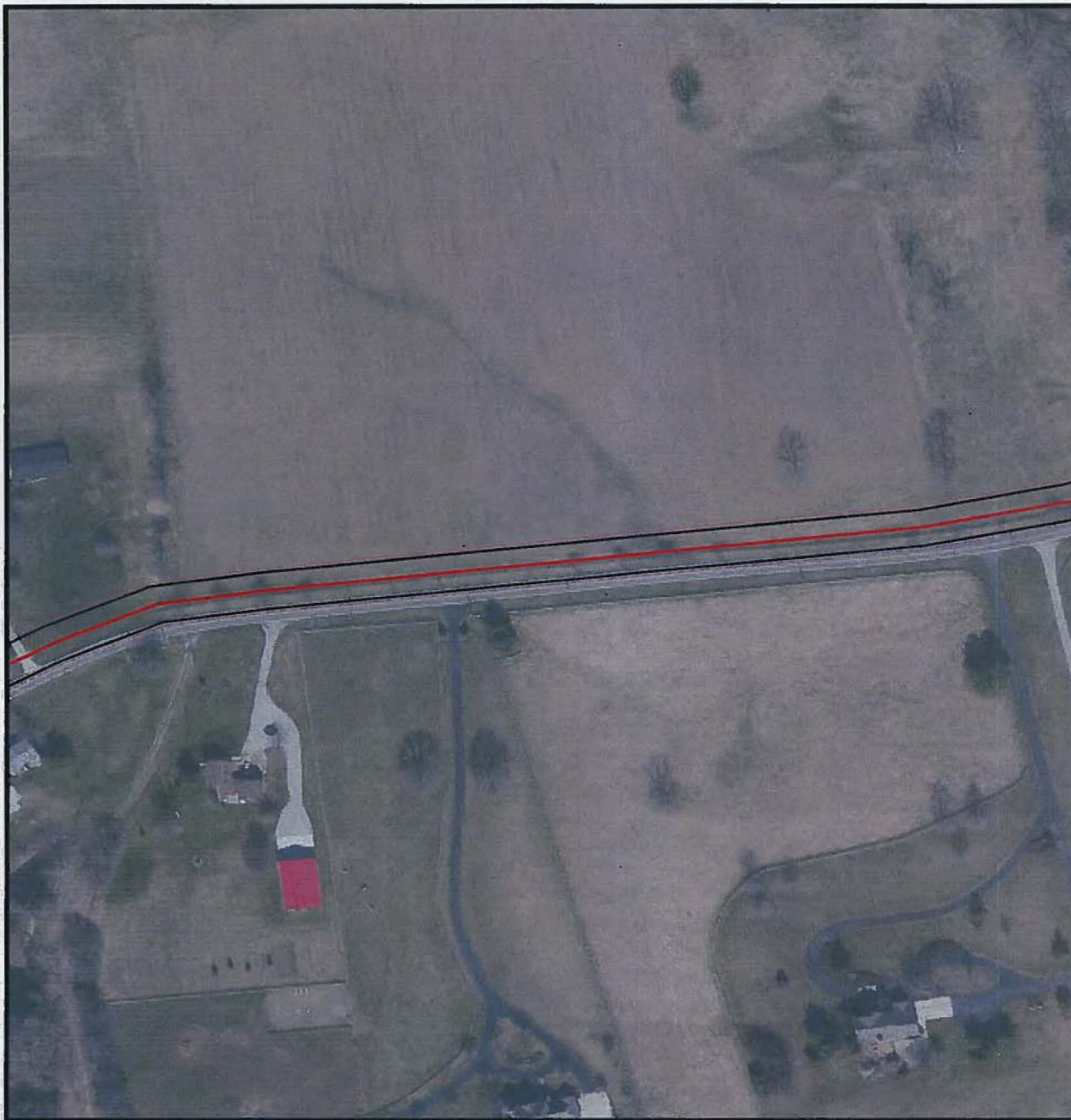
DATE: 4/25/2016



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LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



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Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4Z
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

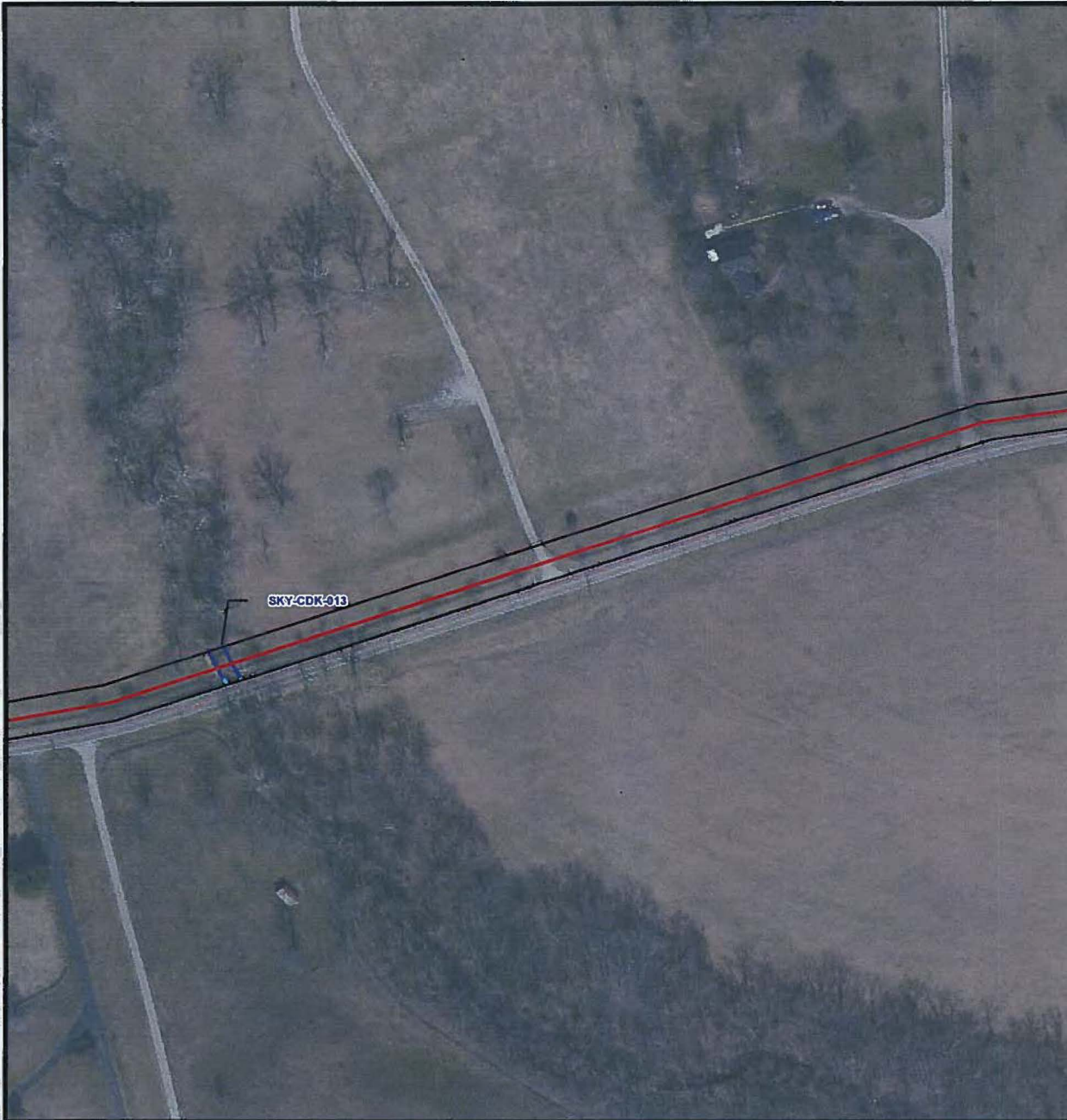
DATE: 4/25/2016



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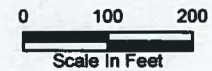


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



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Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AA
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

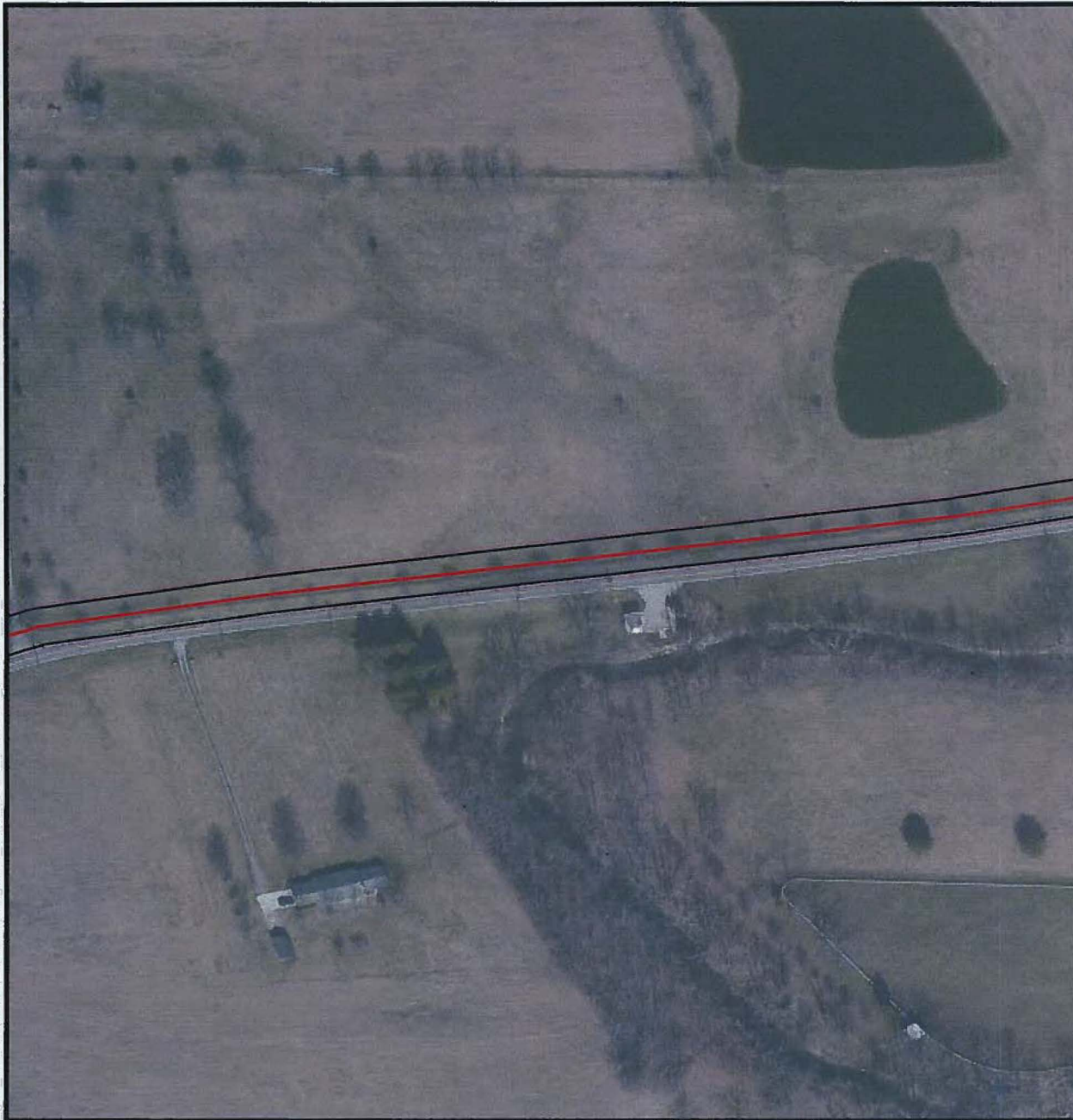
DATE: 4/25/2016













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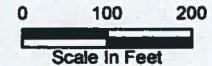
LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



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Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AB
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016



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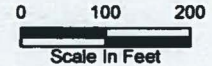
LEGEND:

- Centerline
- ▭ Construction Corridor
- ▭ Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- ▭ PEM
- ▭ PFO
- ▭ PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AC
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

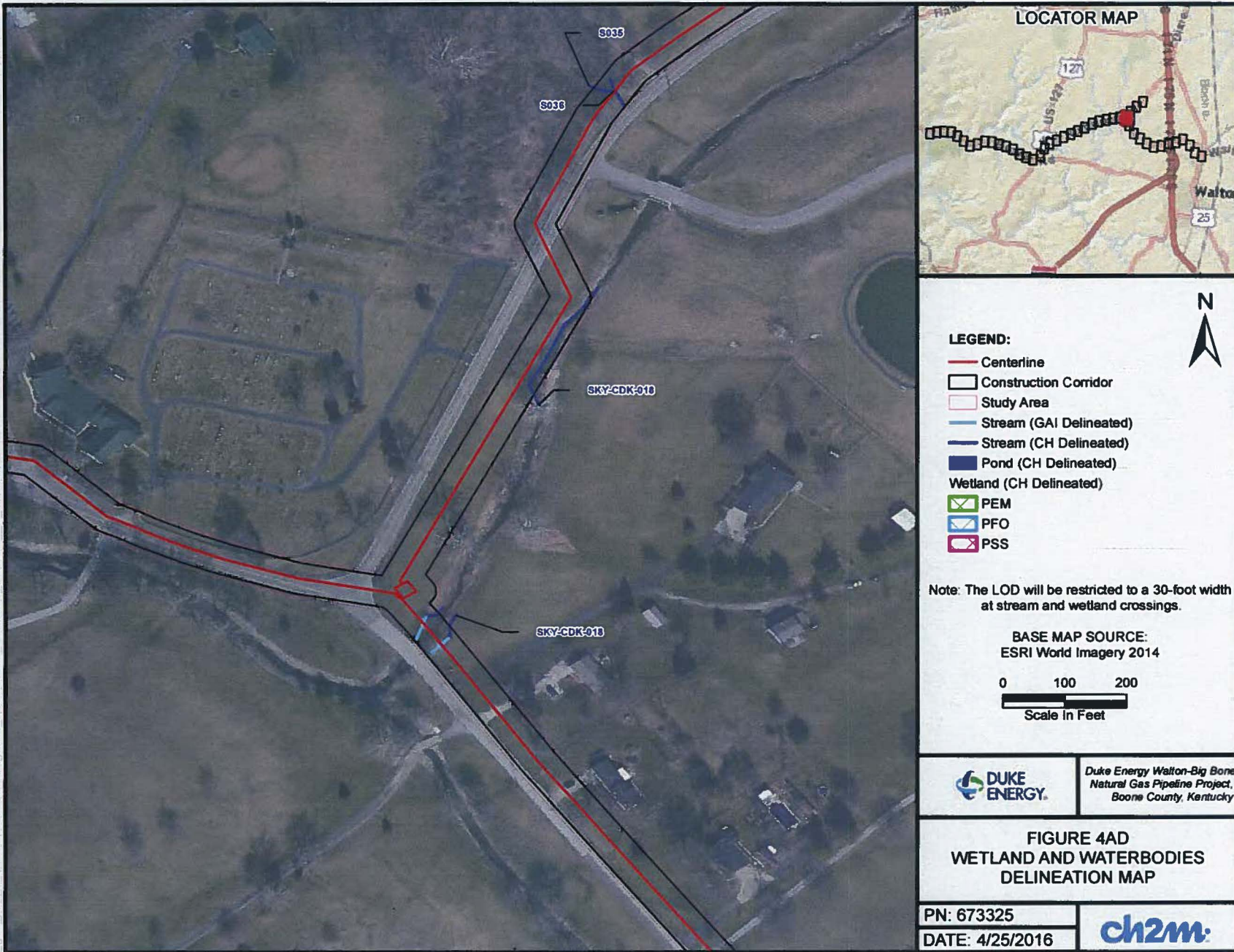
DATE: 4/25/2016



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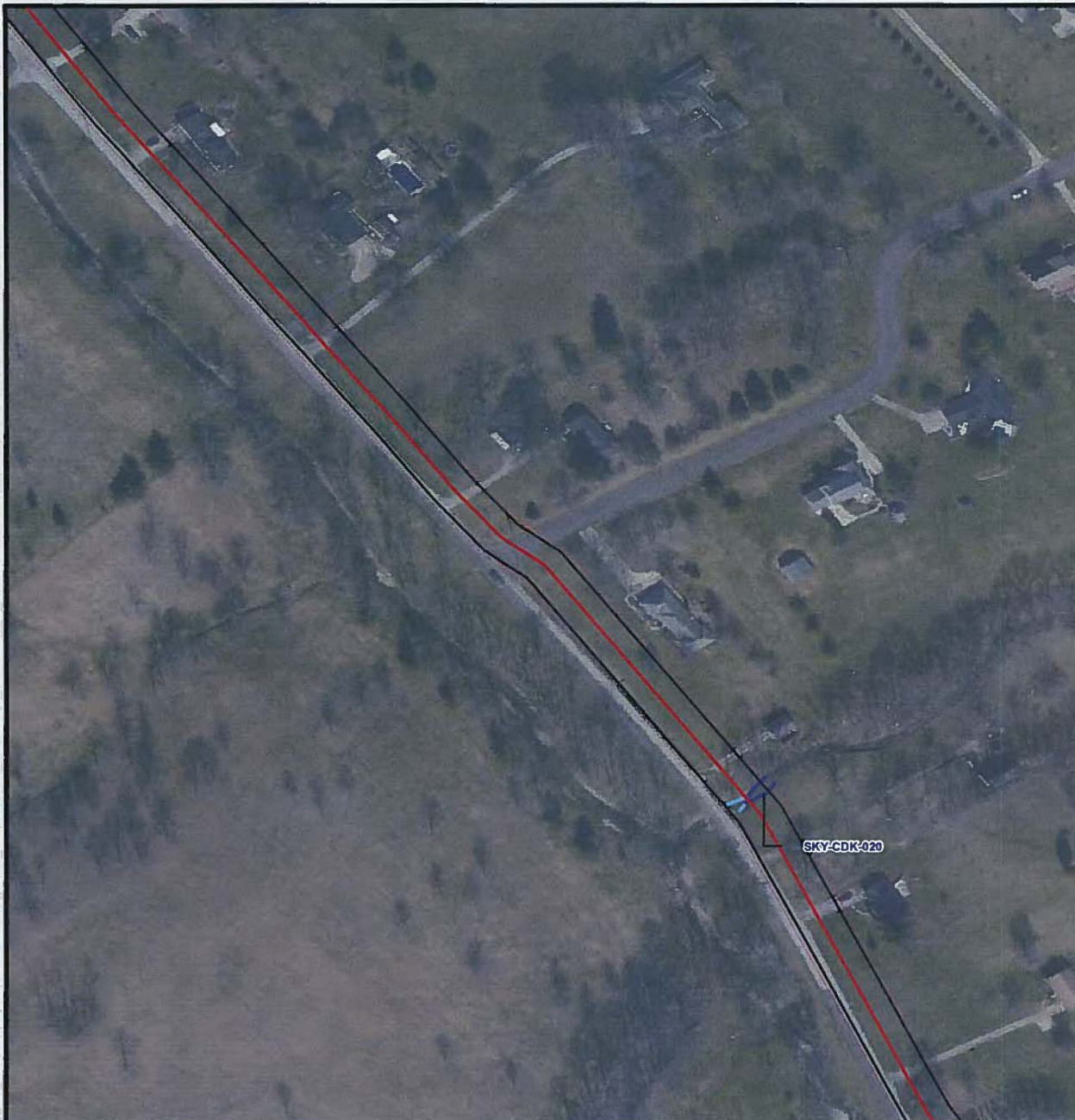
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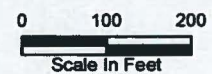
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AE
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

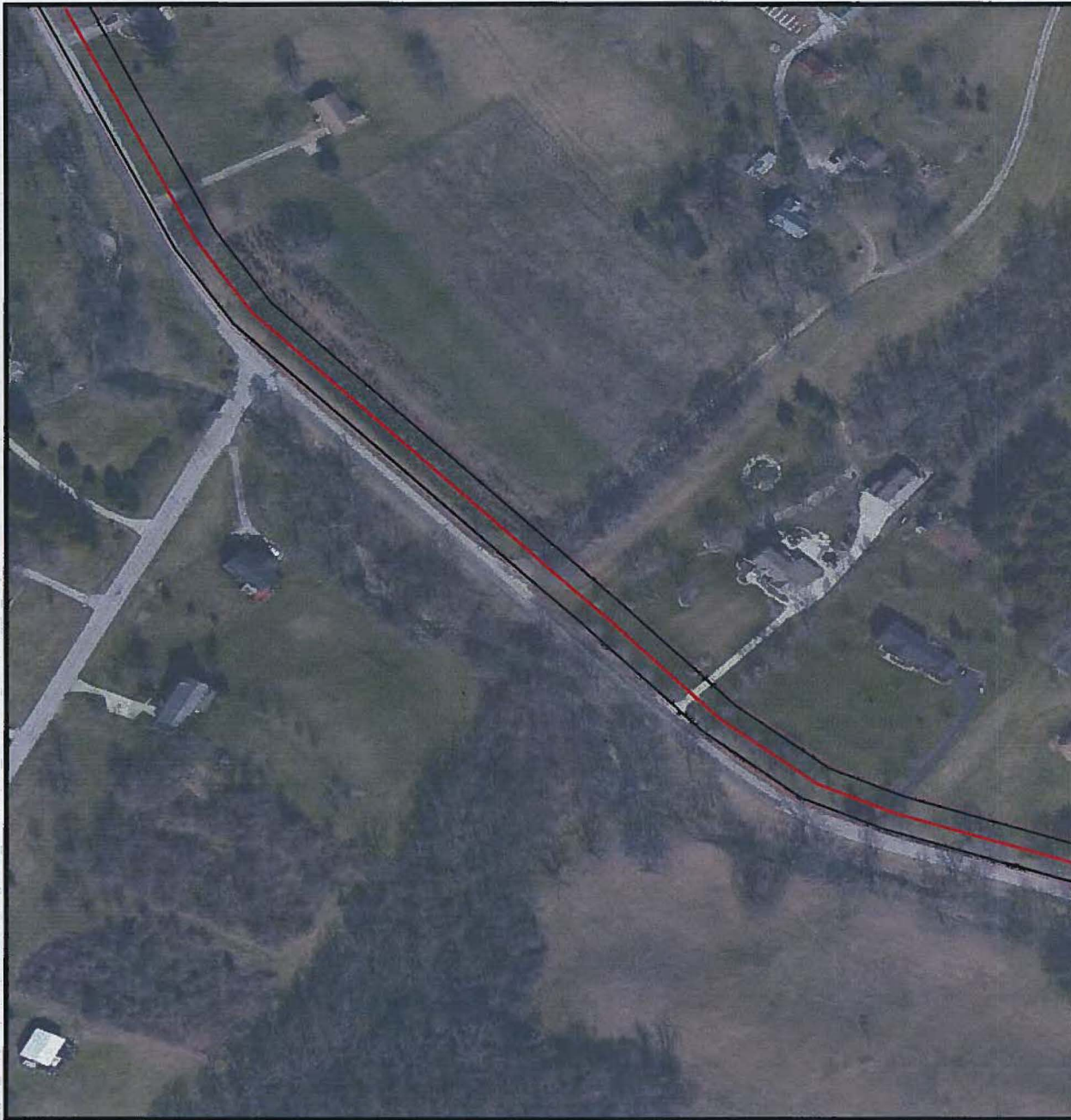
DATE: 4/25/2016













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LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AF
WETLAND AND WATERBODIES
DELINEATION MAP**

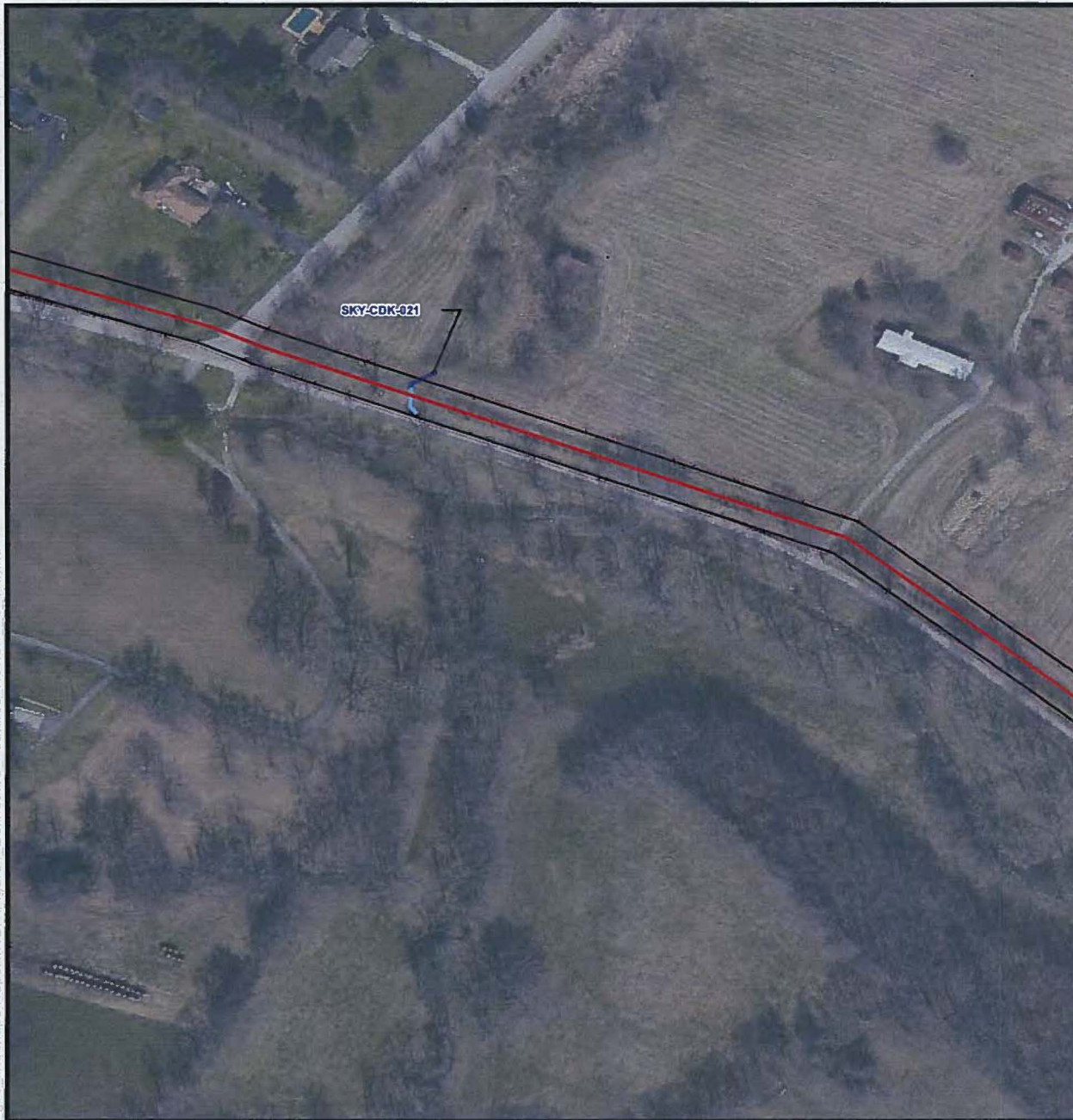
PN: 673325
DATE: 4/25/2016



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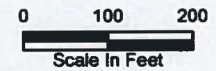
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AG
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016



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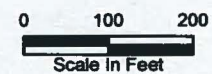


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



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Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AH
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016













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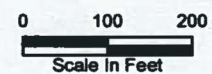


LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4A1
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

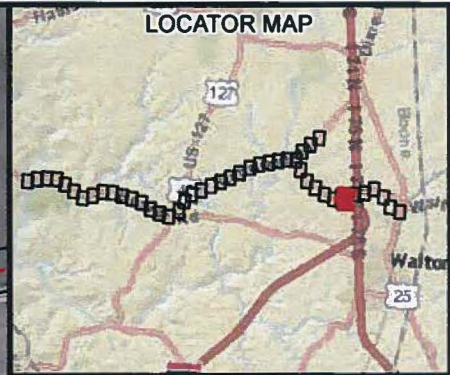
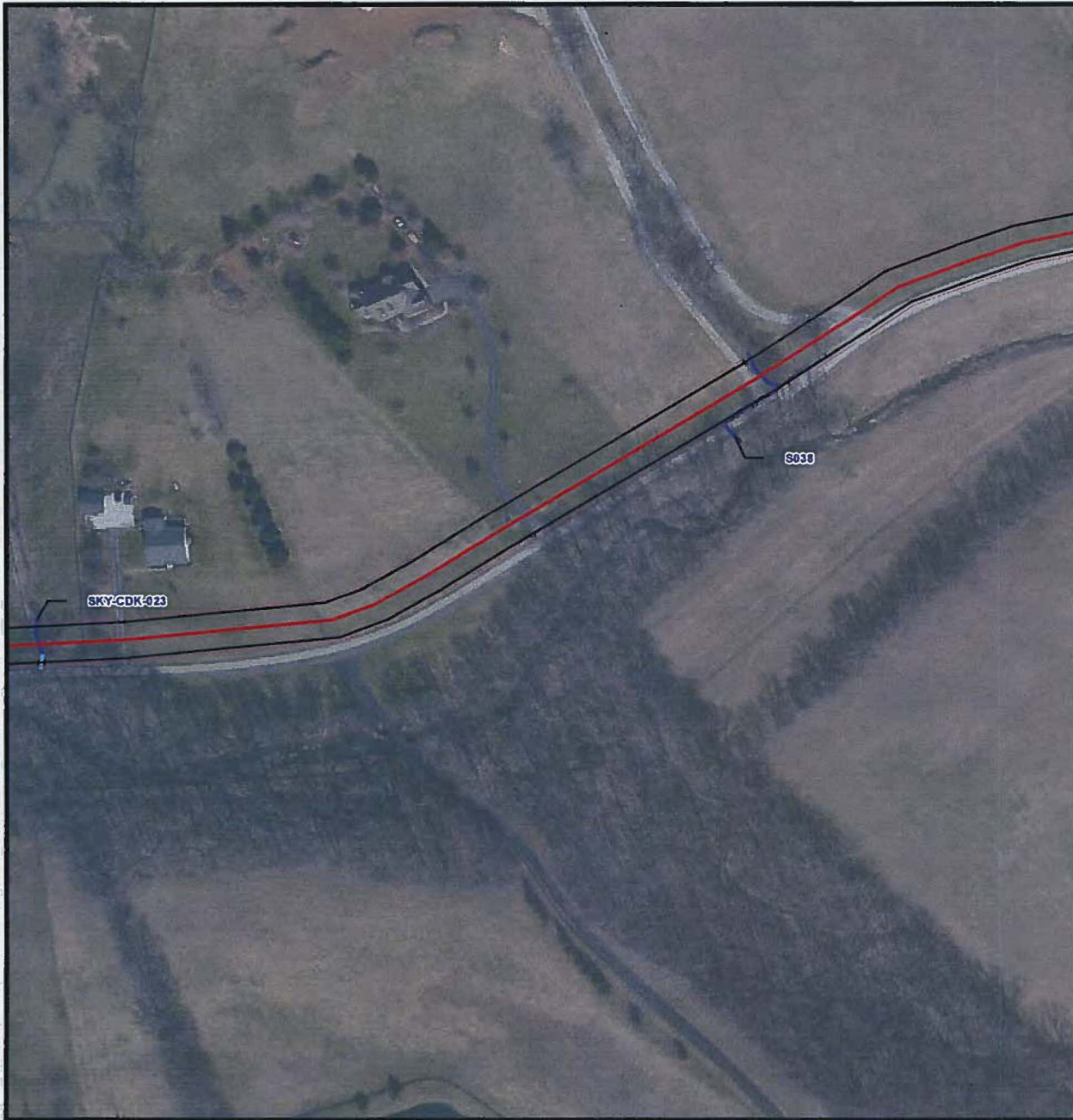
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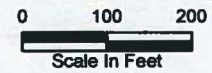
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- Centerline
- ▭ Construction Corridor
- ▭ Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- ▭ PEM
- ▭ PFO
- ▭ PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AJ
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

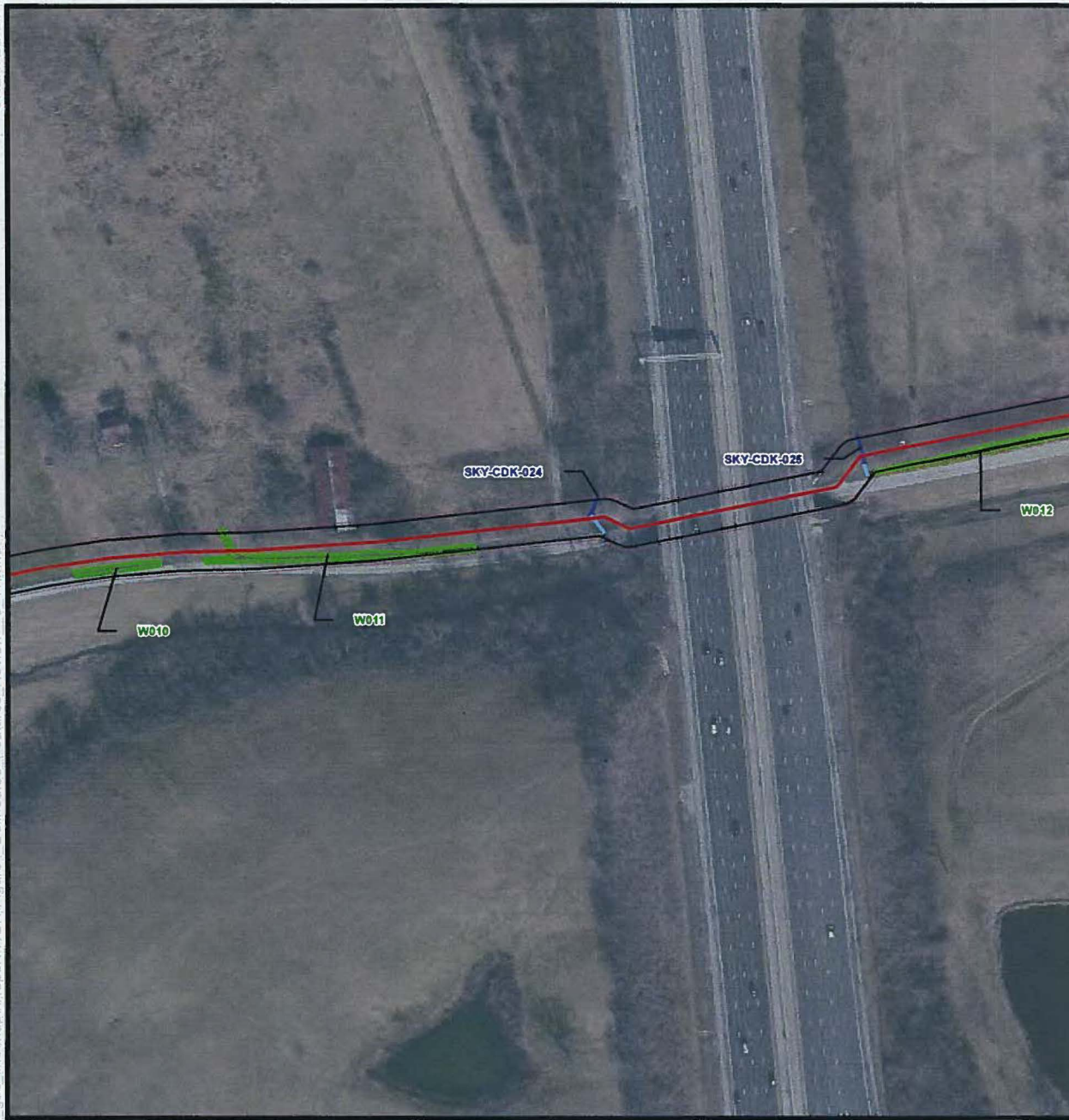
DATE: 4/25/2016



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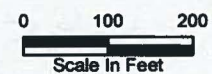


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AK
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

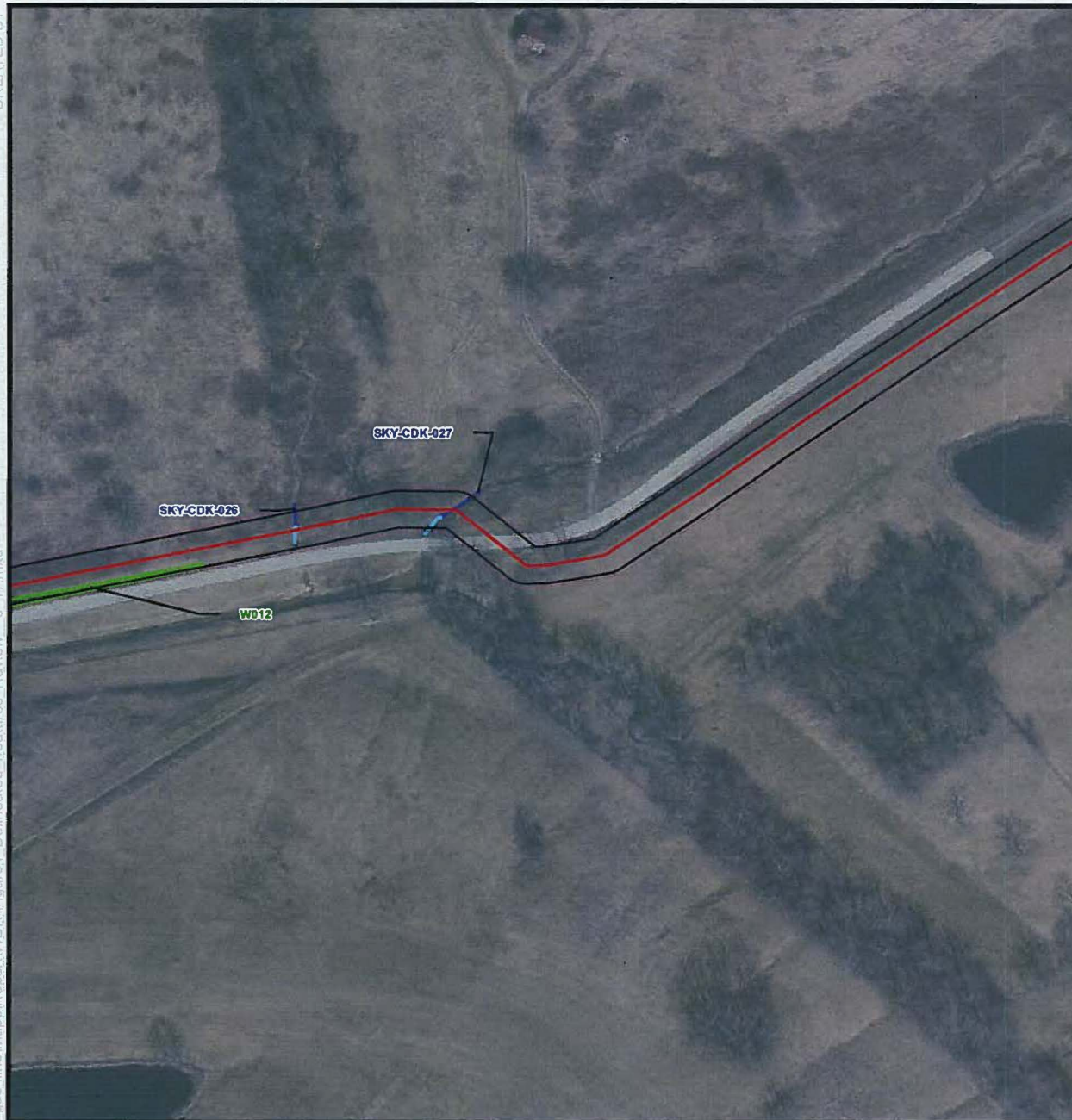
DATE: 4/25/2016



CONFIDENTIAL PROPRIETARY TRADE SECRET

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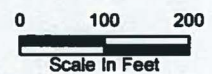


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
 ESRI World Imagery 2014



Duke Energy Walton-Big Bone
 Natural Gas Pipeline Project,
 Boone County, Kentucky

**FIGURE 4AL
 WETLAND AND WATERBODIES
 DELINEATION MAP**

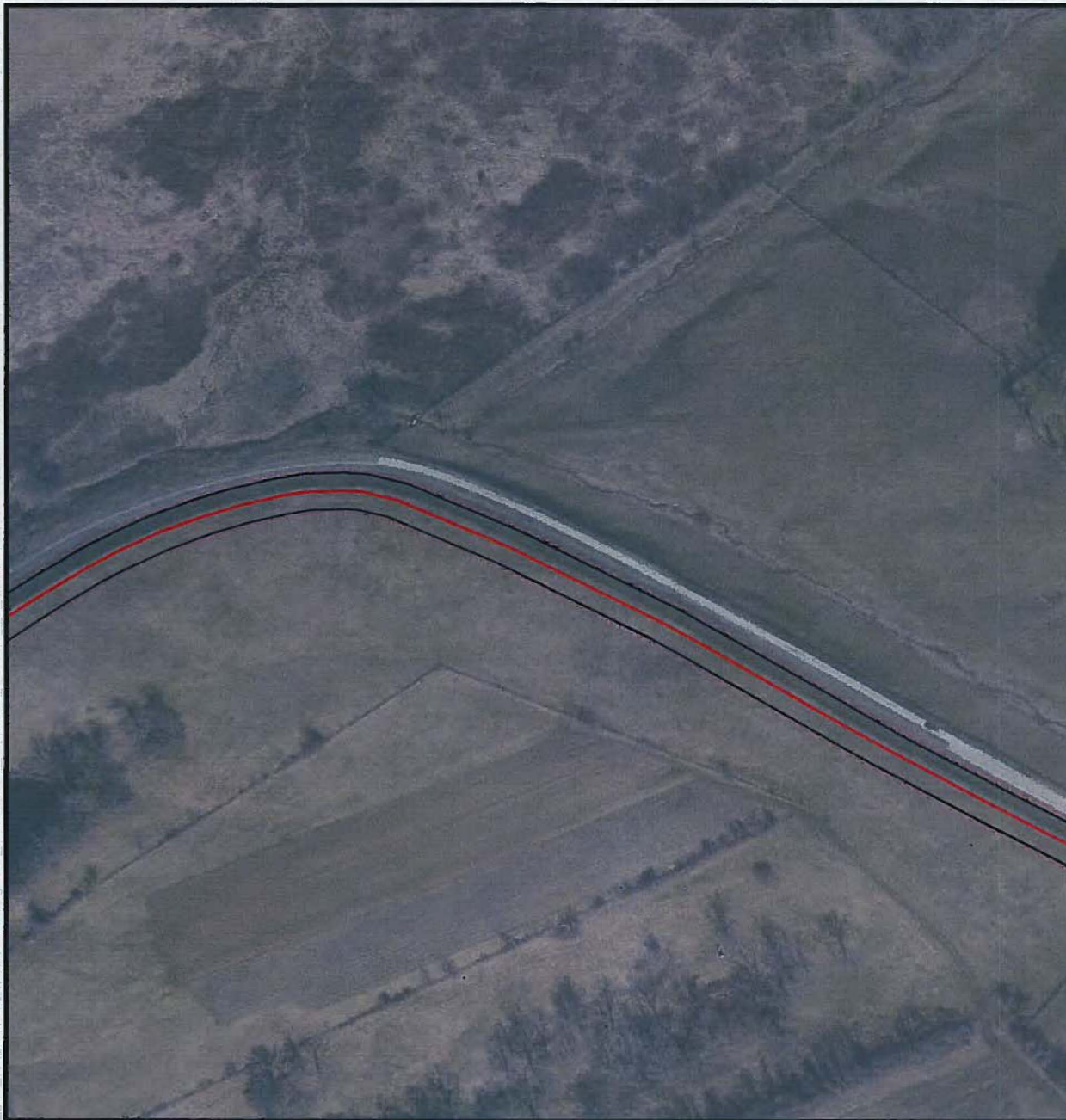
PN: 673325
 DATE: 4/25/2016













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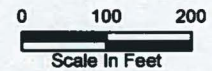
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-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AM
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016













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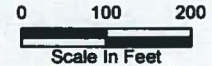


LEGEND:

-  Centerline
-  Construction Corridor
-  Study Area
-  Stream (GAI Delineated)
-  Stream (CH Delineated)
-  Pond (CH Delineated)
-  Wetland (CH Delineated)
-  PEM
-  PFO
-  PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AN
WETLAND AND WATERBODIES
DELINEATION MAP**

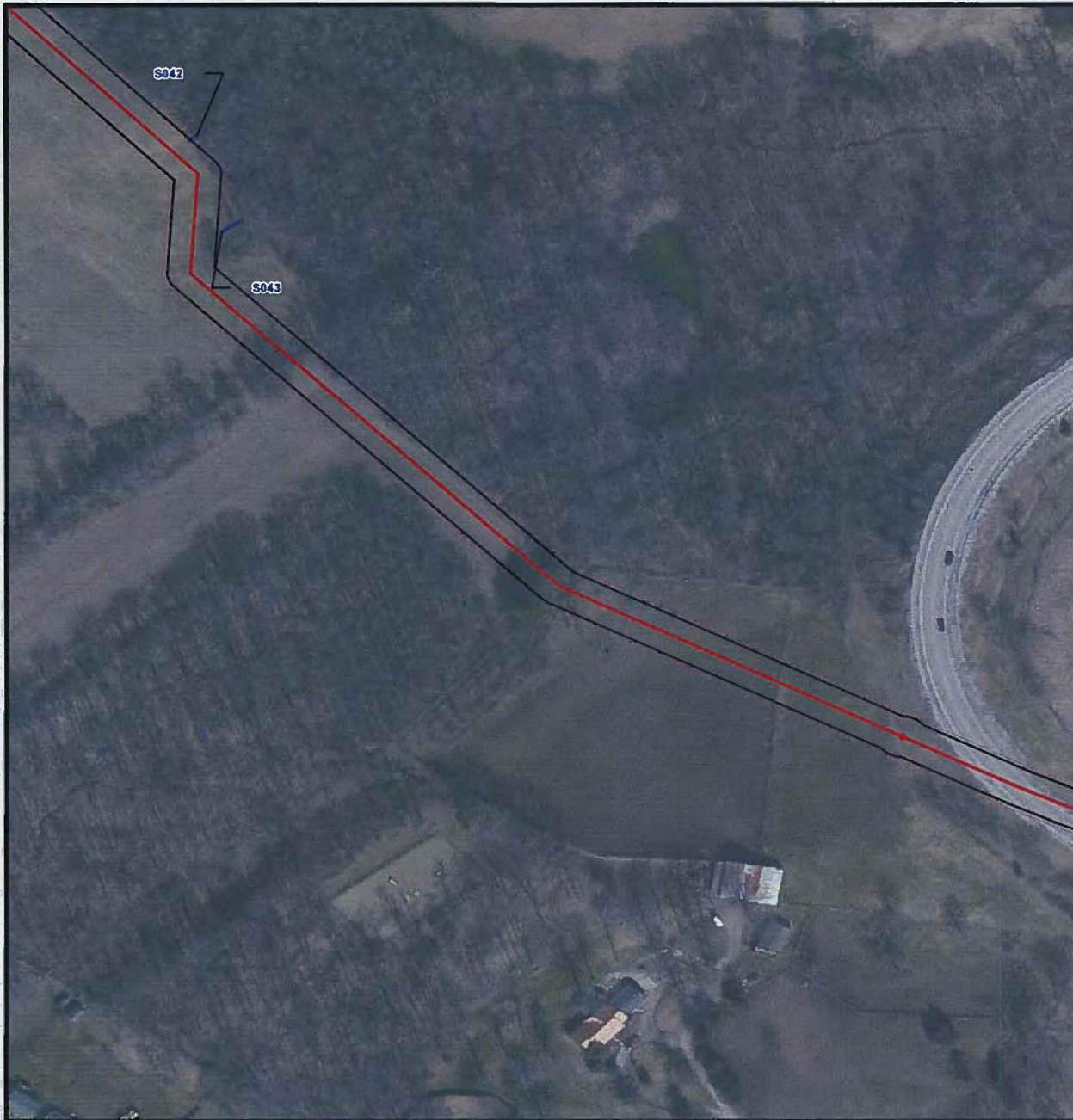
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DATE: 4/25/2016



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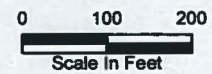
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- LEGEND:**
- Centerline
 - Construction Corridor
 - Study Area
 - Stream (GAI Delineated)
 - Stream (CH Delineated)
 - Pond (CH Delineated)
 - Wetland (CH Delineated)
 - PEM
 - PFO
 - PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
 ESRI World Imagery 2014



Duke Energy Walton-Big Bone
 Natural Gas Pipeline Project,
 Boone County, Kentucky

FIGURE 4AO
WETLAND AND WATERBODIES
DELINEATION MAP

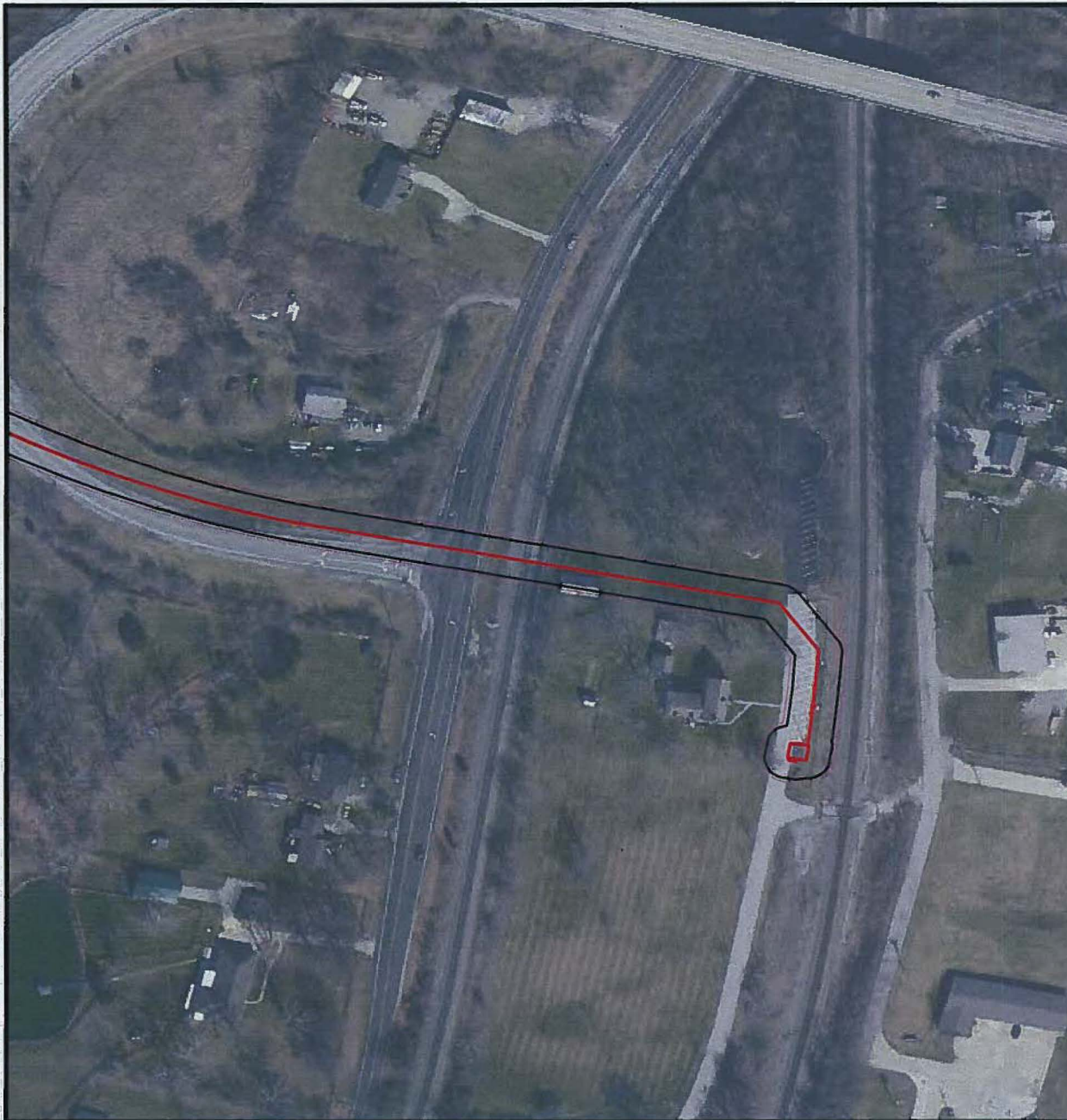
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 DATE: 4/25/2016



CONFIDENTIAL PROPRIETARY TRADE SECRET

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LEGEND:

- Centerline
- ▭ Construction Corridor
- ▭ Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- ☑ PEM
- ☑ PFO
- ☑ PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AP
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

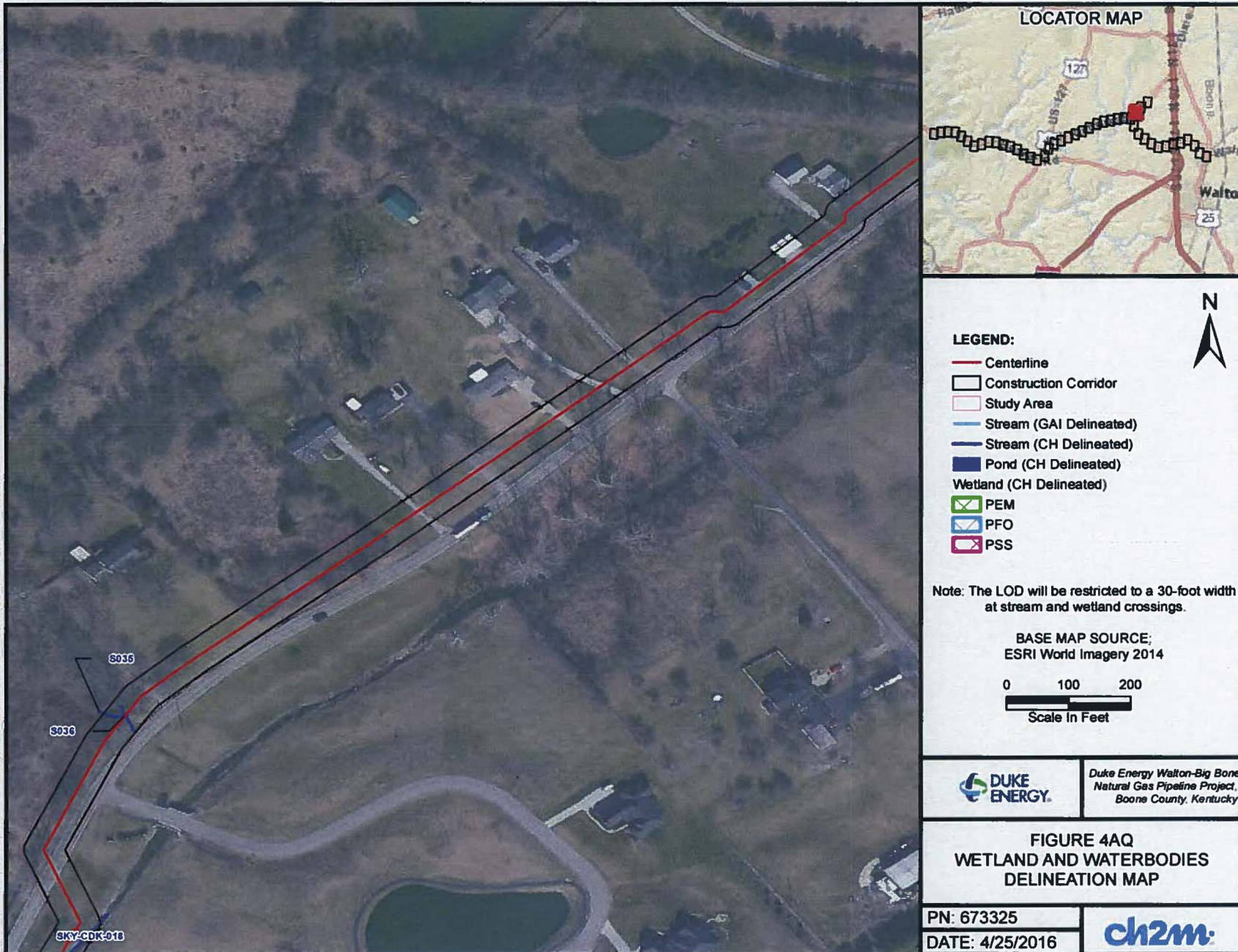
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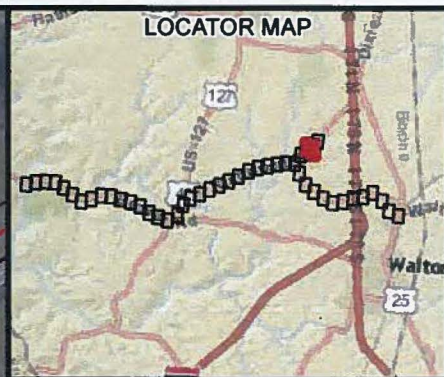
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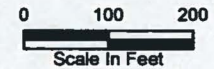


LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- + PEM
- + PFO
- + PSS

Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AR
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

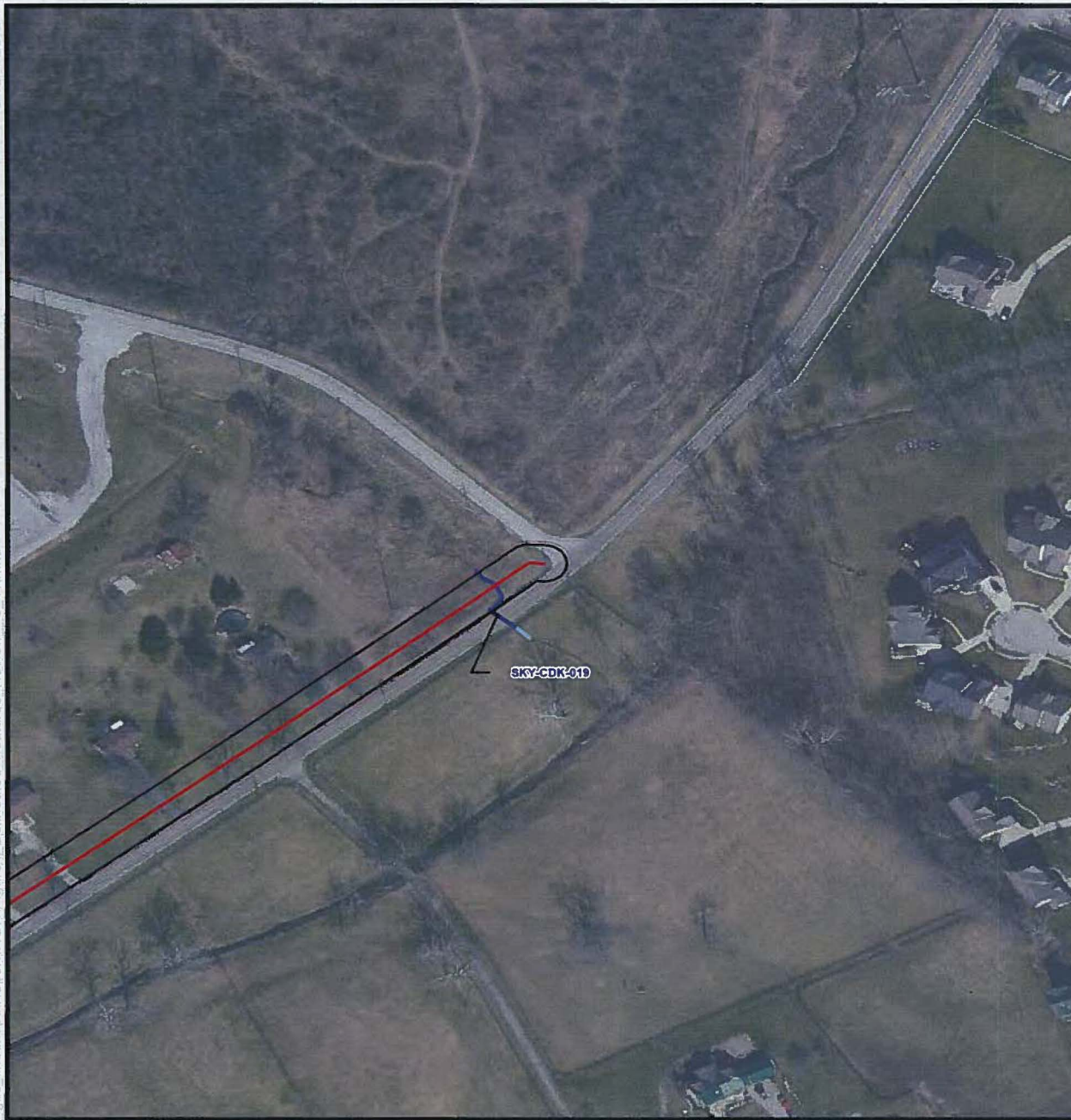
DATE: 4/25/2016



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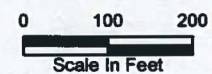
LEGEND:

- Centerline
- Construction Corridor
- Study Area
- Stream (GAI Delineated)
- Stream (CH Delineated)
- Pond (CH Delineated)
- Wetland (CH Delineated)
- PEM
- PFO
- PSS



Note: The LOD will be restricted to a 30-foot width at stream and wetland crossings.

BASE MAP SOURCE:
ESRI World Imagery 2014



Duke Energy Walton-Big Bone
Natural Gas Pipeline Project,
Boone County, Kentucky

**FIGURE 4AS
WETLAND AND WATERBODIES
DELINEATION MAP**

PN: 673325

DATE: 4/25/2016



CONFIDENTIAL PROPRIETARY TRADE SECRET

Appendix A
USACE Wetland Determination Field Datasheets

CONFIDENTIAL PROPRIETARY TRADE SECRET
 DUKE- WALTON TO BIG BONE

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Walton- Big Bone Natural Gas Pipeline City/County: Boone Sampling Date: 3/29/16
 Applicant/Owner: Duke Energy State: Kentucky Sampling Point: W003-PEM
 Investigator(s): Sarah Miloski, Julie Freer Section, Township, Range: No PLSS in Area
 Landform (hillslope, terrace, etc.): bottom land Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR or MLRA): LRR N Lat.: 38.88759 Long.: -84.742106 Datum: WGS 84
 Soil Map Unit Name No-Nolin silt loam, 0 to 2 percent slopes, occasionally flooded NWI Classification: N/A

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No _____ (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal _____ Yes
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? _____
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Yes</u>	Is the sampled area within a wetland? <u>Yes</u> W003-PEM
Hydric soil present? <u>Yes</u>	
Wetland hydrology present? <u>Yes</u>	
Remarks:	
PEM / PSS/ PFO wetland located in Big Bone Lick State Park. Pit dug in PEM portion	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)		_____ Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> Surface Water (A1)	_____ True Aquatic Plants (B14)	_____ Sparsely Vegetated Concave Surface (B8)	
<input checked="" type="checkbox"/> High Water Table (A2)	_____ Hydrogen Sulfide Odor (C1)	_____ Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	_____ Oxidized Rhizospheres on Living	_____ Moss Trim Lines (B16)	
_____ Water Marks (B1)	<input checked="" type="checkbox"/> Roots (C3)	_____ Dry-Season Water Table (C2)	
_____ Sediment Deposits (B2)	_____ Presence of Reduced Iron (C4)	_____ Crayfish Burrows (C8)	
_____ Drift Deposits (B3)	_____ Recent Iron Reduction in Tilled	_____ Saturation Visible on Aerial Imagery (C9)	
_____ Algal Mat or Crust (B4)	_____ Soils (C6)	_____ Stunted or Stressed Plants (D1)	
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	_____ Geomorphic Position (D2)	
_____ Inundation Visible on Aerial	_____ Other (Explain in Remarks)	_____ Shallow Aquitard (D3)	
_____ Imagery (B7)		_____ Microtopographic Relief (D4)	
_____ Water-Stained Leaves (B9)		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
_____ Aquatic Fauna (B13)			

Field Observations:				Wetland hydrology present? <u>Y</u>
Surface water present?	Yes <u>X</u> No _____	Depth (inches):	<u>1</u>	
Water table present?	Yes <u>X</u> No _____	Depth (inches):	<u>2</u>	
Saturation present? (includes capillary fringe)	Yes <u>X</u> No _____	Depth (inches):	<u>0</u>	

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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VEGETATION - Use scientific names of plants

Sampling Point: W003-PEM

Tree Stratum					50/20 Thresholds		
Plot Size (30 ft.)	Absolute % Cover	Dominant Species	Indicator Status		20%	50%	
1					Tree Stratum	0	0
2					Sapling/Shrub Stratum	0	0
3					Herb Stratum	20	50
4					Woody Vine Stratum	0	0
5					Dominance Test Worksheet		
6					Number of Dominant Species that are OBL, FACW, or FAC: <u>4</u> (A)		
7					Total Number of Dominant Species Across all Strata: <u>4</u> (B)		
8					Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		
9					Prevalence Index Worksheet		
10					Total % Cover of:		
					OBL species	<u>20</u>	<u>20</u>
					FACW species	<u>70</u>	<u>140</u>
					FAC species	<u>5</u>	<u>15</u>
					FACU species	<u>0</u>	<u>0</u>
					UPL species	<u>0</u>	<u>0</u>
					Column totals	<u>95</u> (A)	<u>175</u> (B)
					Prevalence Index = B/A =	<u>1.84</u>	
					Hydrophytic Vegetation Indicators:		
					<input checked="" type="checkbox"/> Rapid test for hydrophytic vegetation		
					<input checked="" type="checkbox"/> Dominance test is >50%		
					<input checked="" type="checkbox"/> Prevalence index is ≤3.0*		
					Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
					Problematic hydrophytic vegetation* (explain)		
					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
					Definitions of Vegetation Strata:		
					Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
					Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
					Woody vines - All woody vines greater than 3.28 ft in height.		
					Hydrophytic vegetation present? <u>Y</u>		
					0 = Total Cover		
Sapling/Shrub Stratum							
Plot Size (15 ft.)	Absolute % Cover	Dominant Species	Indicator Status				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
					0 = Total Cover		
Herb Stratum							
Plot Size (5 ft.)	Absolute % Cover	Dominant Species	Indicator Status				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
					100 = Total Cover		
Woody Vine Stratum							
Plot Size (30 ft.)	Absolute % Cover	Dominant Species	Indicator Status				
1							
2							
3							
4							
5							
					0 = Total Cover		

Remarks: (Include photo numbers here or on a separate sheet)

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SOIL

Sampling Point: W003-PEM

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-18	10YR 4/2	80	10YR 5/6	20	C	PL/M	silt loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
 **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- Histisol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

Indicators for Problematic Hydric Soils:

- 2 cm Muck (A10) (MLRA 147)
- Coast Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric soil present? <u> Y </u>
--	-----------------------------------

Remarks:

CONFIDENTIAL PROPRIETARY TRADE SECRET
 DUKE- WALTON TO BIG BONE

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Walton- Big Bone Natural Gas Pipeline City/County: Boone Sampling Date: 3/29/16
 Applicant/Owner: Duke Energy State: Kentucky Sampling Point: W003-PSS
 Investigator(s): Sarah Miloski, Julie Freer Section, Township, Range: No PLSS in Area
 Landform (hillslope, terrace, etc.): bottom land Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR or MLRA): LRR N Lat.: 38.887415 Long.: -84.741682 Datum: WGS 84
 Soil Map Unit Name LkB-Licking silt loam, 2 to 6 percent slopes NWI Classification: N/A

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes No (If no, explain in remarks)
 Are vegetation , soil , or hydrology significantly disturbed? Are "normal Yes
 Are vegetation , soil , or hydrology naturally problematic? circumstances" present?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <input checked="" type="checkbox"/> Yes	Is the sampled area within a wetland? <input checked="" type="checkbox"/> Yes W003-PSS
Hydric soil present? <input checked="" type="checkbox"/> Yes	
Wetland hydrology present? <input checked="" type="checkbox"/> Yes	
Remarks: PEM / PSS/ PFO wetland located in Big Bone Lick State Park. Pit dug in PSS portion	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living	
<input checked="" type="checkbox"/> Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:		Wetland hydrology present? <input checked="" type="checkbox"/> Y
Surface water present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>		
Water table present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u>		
Saturation present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>		

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

CONFIDENTIAL PROPRIETARY TRADE SECRET

VEGETATION - Use scientific names of plants

Sampling Point: W003-PSS

Tree Stratum					50/20 Thresholds					
Plot Size (	30 ft.	)	Absolute % Cover	Dominant Species	Indicator Status	20%	50%	
1						Tree Stratum	0	0		
2						Sapling/Shrub Stratum	20	50		
3						Herb Stratum	6	15		
4						Woody Vine Stratum	0	0		
5										
6										
7										
8										
9										
10			0							
			= Total Cover							
Sapling/Shrub Stratum					Dominance Test Worksheet					
Plot Size (	15 ft.	)	Absolute % Cover	Dominant Species	Indicator Status			
1	<i>Acer negundo</i>		85	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:	3	(A)		
2	<i>Populus deltoides</i>		15	Y	FAC	Total Number of Dominant Species Across all Strata:	4	(B)		
3						Percent of Dominant Species that are OBL, FACW, or FAC:	75.00%	(A/B)		
4										
5										
6										
7										
8										
9										
10										
			100		= Total Cover					
Herb Stratum					Prevalence Index Worksheet					
Plot Size (	5 ft.	)	Absolute % Cover	Dominant Species	Indicator Status			
1	<i>Lysimachia nummularia</i>		20	Y	FACW	Total % Cover of:				
2	<i>Alliaria petiolata</i>		10	Y	FACU	OBL species	0	x 1 = 0		
3						FACW species	20	x 2 = 40		
4						FACU species	10	x 3 = 300		
5						FACU species	10	x 4 = 40		
6						UPL species	0	x 5 = 0		
7						Column totals	130	(A)	380	(B)
8						Prevalence Index = B/A =	2.92			
9										
10										
11										
12										
13										
14										
15										
			30		= Total Cover					
Woody Vine Stratum					Hydrophytic Vegetation Indicators:					
Plot Size (	30 ft.	)	Absolute % Cover	Dominant Species	Indicator Status			
1						Rapid test for hydrophytic vegetation				
2						<input checked="" type="checkbox"/> Dominance test is >50%				
3						<input checked="" type="checkbox"/> Prevalence index is ≤3.0*				
4						Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)				
5						<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)				
			0		= Total Cover		*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
Hydrophytic vegetation present?					Definitions of Vegetation Strata:					
					Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					
					Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.					
					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.					
					Woody vines - All woody vines greater than 3.28 ft in height.					
					Hydrophytic vegetation present? <u>Y</u>					

Remarks: (Include photo numbers here or on a separate sheet)

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SOIL

Sampling Point: W003-PSS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-18	10YR 5/2	90	10YR 5/4	10	C	PL/M	silt loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils:

- | | | |
|---|--|---|
| <input type="checkbox"/> Histisol (A1) | <input type="checkbox"/> Dark Surface (S7) | <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Polyvalue Below Surface (S8)
(MLRA 147, 148) | <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9)
(MLRA 147, 148) | <input type="checkbox"/> Piedmont Floodplain Soils (F19)
(MLRA 136, 147) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 2 cm Muck (A10) (LRR N) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)
(LRR N, MLRA 147, 148) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) | |
| <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) | |
| <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147) | |

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric soil present? <u> Y </u>
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Remarks:

CONFIDENTIAL PROPRIETARY TRADE SECRET
 DUKE- WALTON TO BIG BONE

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Walton-Big Bone Natural Gas Pipeline City/County: Boone Sampling Date: 3/29/16
 Applicant/Owner: Duke Energy State: Kentucky Sampling Point W003-PFO
 Investigator(s): Sarah Miloski, Julie Freer Section, Township, Range: No PLSS in Area
 Landform (hillslope, terrace, etc.): bottom land Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR or MLRA): LRR N Lat.: 38.886972 Long.: -84.740982 Datum: WGS 84
 Soil Map Unit Name No- Nolin silt loam, 0 to 2 percent slopes, occasionally flooded NWI Classification: PFO1A

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes No (If no, explain in remarks)
 Are vegetation , soil , or hydrology significantly disturbed? Are "normal Yes
 Are vegetation , soil , or hydrology naturally problematic? circumstances" present?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present?	<u>Yes</u>	Is the sampled area within a wetland?	<u>Yes</u>
Hydric soil present?	<u>Yes</u>		<u>W003-PFO</u>
Wetland hydrology present?	<u>Yes</u>		
Remarks:			
PEM / PSS/ PFO wetland located in Big Bone Lick State Park. Pit dug in PFO portion			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)		<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> True Aquatic Plants (B14)		
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)		
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres on Living		
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Roots (C3)		
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)		
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled		
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Soils (C6)		
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)		
<input type="checkbox"/> Inundation Visible on Aerial	<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Imagery (B7)			
<input type="checkbox"/> Water-Stained Leaves (B9)			
<input type="checkbox"/> Aquatic Fauna (B13)			

Field Observations:		Wetland hydrology present? <u>Y</u>
Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>	
Water table present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u>	
Saturation present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: