



COLUMBUS | CLEVELAND
CINCINNATI | DAYTON
MARIETTA

BRICKER & ECKLER LLP
100 South Third Street
Columbus, OH 43215-4291
MAIN: 614.227.2300
FAX: 614.227.2390

www.bricker.com
info@bricker.com

Dylan F. Borchers
614.227.4914
dborchers@bricker.com

April 6, 2018

Via Electronic Filing

Ms. Barcy McNeal
Administration/Docketing
Public Utilities Commission of Ohio
180 East Broad Street, 11th Floor
Columbus, OH 43215-3793

**Re: NRG Ohio Pipeline Company LLC,
OPSB Case No. 14-1717-GA-BLN**

Dear Ms. McNeal:

Attached for filing in the above referenced docket is a copy of NRG Ohio Pipeline's engineering and design technical changes. These engineering and design technical changes are minor adjustments within existing properties as a result of utility conflicts and environmental considerations identified after the June 2015 Order and as a result of landowner requests for minor realignment and/or change in easement size. None of the engineering and design technical changes listed below result in adding new property owners to the route. In all, the engineering and design technical changes result in a reduction in landowner and environmental impacts.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Dylan F. Borchers

Attachment

Cc: Jim O'Dell (w/Attachment)
Parties of Record (w/Attachment)



SUPPLEMENTAL INFORMATION

To: Jim O'Dell
From: Salvatore J. Caiazzo, P.E.
Date: April 6, 2018
Subject: NRG Ohio Pipeline Company LLC (Case No. 14-1717-GA-BLN)
Engineering and Design Technical Changes

The following is supplemental information to NRG Ohio Pipeline's intrastate pipeline to serve the Avon Lake Power Plant, Case No. 14-1717-GA-BLN. The engineering and design technical changes and easement adjustments are individually described below. Specifically, the descriptions outline the reason for each engineering and design technical change, as well as the resulting impacts and reduction of impacts to landowners and environmentally sensitive areas.

Included with this filing is a set of maps that show a comparison of pipe centerline and easement dimensions to the shapefiles provided to Ohio Power Siting Board Staff as part of the June 2015 Opinion, Order and Certificate. The numbering on the maps correspond with the engineering and design technical changes are minor adjustments within existing properties as a result of utility conflicts and environmental considerations identified after the June 2015 Order. The easement adjustments are a result of landowner requests for minor realignment and or change in easement size. None of the engineering and design technical changes listed below result in adding new property owners to the route. The engineering and design technical changes and easement adjustments on the route are all within the existing project study corridor.

The engineering and design technical changes and easement adjustments have very limited impacts to landowners and adjacent landowners when compared to the original route. Many of the revisions are to reduce impacts to the affected land owners, or to reduce impacts to environmental features. A summary of the cumulative environmental impacts as a result of the engineering and design technical changes and easement adjustments is shown below.

AREA TYPE	CHANGE IN IMPACT (sf)				
	WOODS	FIELD	WET/WATER	ROAD	WOODS&WETLAND
PERMANENT ROW	-35,810	-10,782	-41,061	0	14,204
TEMPORARY ROW AND EXTRA WORKSPACE	-37,314	-13,476	-33,369	-8,714	-57,788

1. **STATIONS 249+00 - 268+00**

Reason for Alteration

The land owner K Hovnanian Oster Homes LLC proposed a subdivision of land on the subject parcels. Additionally, this land owner had mitigated wetlands on another parcel to the north of the proposed development which is currently in an easement with the U.S. Army Corps of Engineers.

Alteration Description

The width of workspace was reduced by 25 feet to allow for the potential of home construction prior to pipeline construction. Also, the U.S. Army Corps of Engineers will not permit open cut across an area in an easement for wetland mitigation. Therefore, the wetlands to the north will now be horizontal directional drilled instead of being open cut, as was previously proposed.

Property Owner Impacts

No additional property owner impacts are anticipated. There is only a reduction of impacts to wetlands and agricultural fields.

Environmental Impacts

The wetlands which were originally proposed as open cut will now be horizontal directional drilled, reducing impacts to wetlands.

AREA TYPE	CHANGE IN IMPACT (sf)		
	WOODS	FIELD	WET/WATER
PERMANENT ROW	-8,064	-4,209	-41,061
TEMPORARY ROW AND EXTRA WORKSPACE	-6,216	-3,781	-33,369

2. **STATIONS 314+00 - 315+00**

Reason for Alteration

The land owner requested a minor shift towards the railroad in the back of the subject parcel.

Alteration Description

The limits of earth disturbance stayed the same width, but shifted approximately 11 feet to the west. No revisions to the alignment are proposed.

Property Owner Impacts

There are no additional impacts to property owners.

Environmental Impacts

There is no change in environmental impacts.

3. STATIONS 338+00 - 346+00

Reason for Alteration

The original route was shifted approximately 110 feet to the west at the request of the landowner, Lorain County Community College (LCCC). The original route was proposed under a large mound of wooded earth that is currently used by some educational programs.

Alteration Description

The original route was shifted 110 feet to the west.

Property Owner Impacts

The alteration moves the pipeline further away from adjacent land owners. The minimum separation from LCCC buildings has not been altered from the original route.

Environmental Impacts

The alteration has less wooded impacts and less impacts to an existing access road. There will be more impacts to an open grass field.

AREA TYPE	CHANGE IN IMPACT (sf)		
	WOODS	FIELD	ROAD
PERMANENT ROW	-27,746	-6,573	0
TEMPORARY ROW AND EXTRA WORKSPACE	-31,098	6,363	-8,714

4. STATIONS 599+00 - 607+50

Reason for Alteration

The alterations were made to reduce wetland impacts.

Alteration Description

The limits of earth disturbance was reduced from 85 feet to 50 feet. No alignment changes were made.

Property Owner Impacts

The proposed earth disturbance are less than originally proposed. The property is owned by NRG Power Midwest LP, which is the legal entity that owns the Avon Lake generating facility.

Environmental Impacts

Over an acre less of wetland disturbance is proposed with the proposed alteration.

	CHANGE IN IMPACT (sf)
AREA TYPE	WOODS&WETLAND
PERMANENT ROW	21,098
TEMPORARY ROW AND EXTRA WORKSPACE	-50,076

5. STATIONS 709+00 - 713+00

Reason for Alteration

This alteration was made at the request of the landowner Robert B. Kubasak.

Alteration Description

The temporary right-of-way was reduced from 100 feet originally proposed down to 50 feet at the request of the land owner. The pipeline alignment did not change.

Property Owner Impacts

There are no additional impacts.

Environmental Impacts

The forested wetland impacts were reduced by 0.34 acres.

	CHANGE IN IMPACT (sf)
AREA TYPE	WOODS&WETLAND
PERMANENT ROW	-6,894
TEMPORARY ROW AND EXTRA WORKSPACE	-7,712

6. STATIONS 764+50 - 769+00

Reason for Alteration

The owner of the subject parcel, Ohio Edison, was proposing construction of a sub-station for their utility on this parcel, and requested a reduction in the workspace requested.

Alteration Description

The limits of earth disturbance was reduced from 100 feet down to 62.5 feet at the request of the land owner. No revisions to the alignment were made.

Property Owner Impacts

There are no additional impacts.

Environmental Impacts

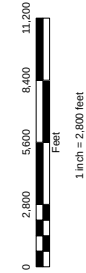
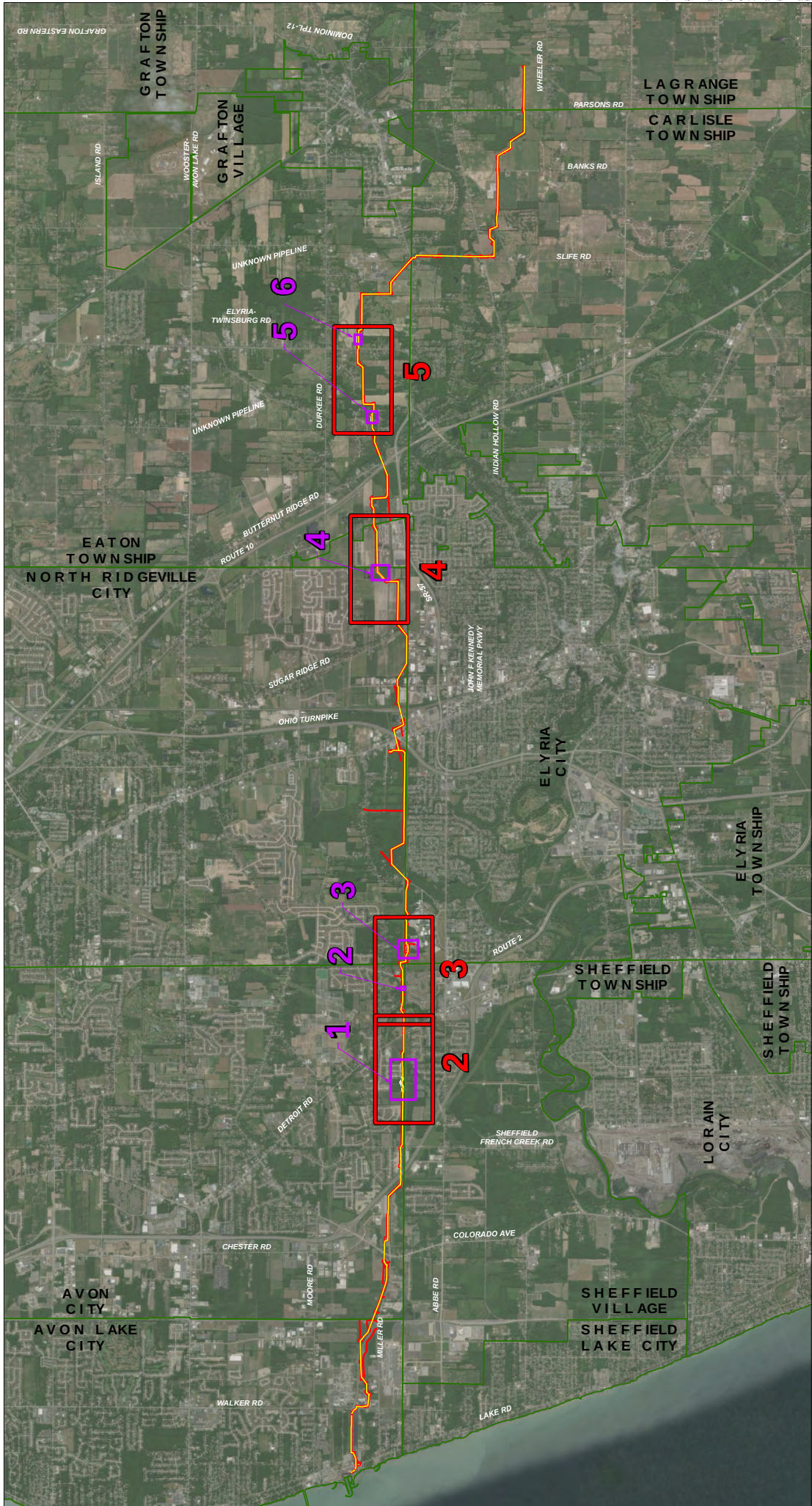
Less agricultural field will be disturbed as part of the pipeline project.

AREA TYPE	CHANGE IN IMPACT (sf)
	FIELD
PERMANENT ROW	0
TEMPORARY ROW AND EXTRA WORKSPACE	-16,058

Respectfully,



Salvatore J. Caiazzo, P.E.
Hanover Engineering Associates, Inc.
3355 Route 611, Suite 1
Bartonsville, PA 18321-7822
Telephone - 570.688.9550, Ext. 104
Fax - 570.688.9768
E-mail - scaiazzo@hanovereng.com
Web - www.hanovereng.com



ENGINEERING DESIGN CHANGES

OHIO POWER SITING BOARD

CASE NO. 14-1717-GA-BLN

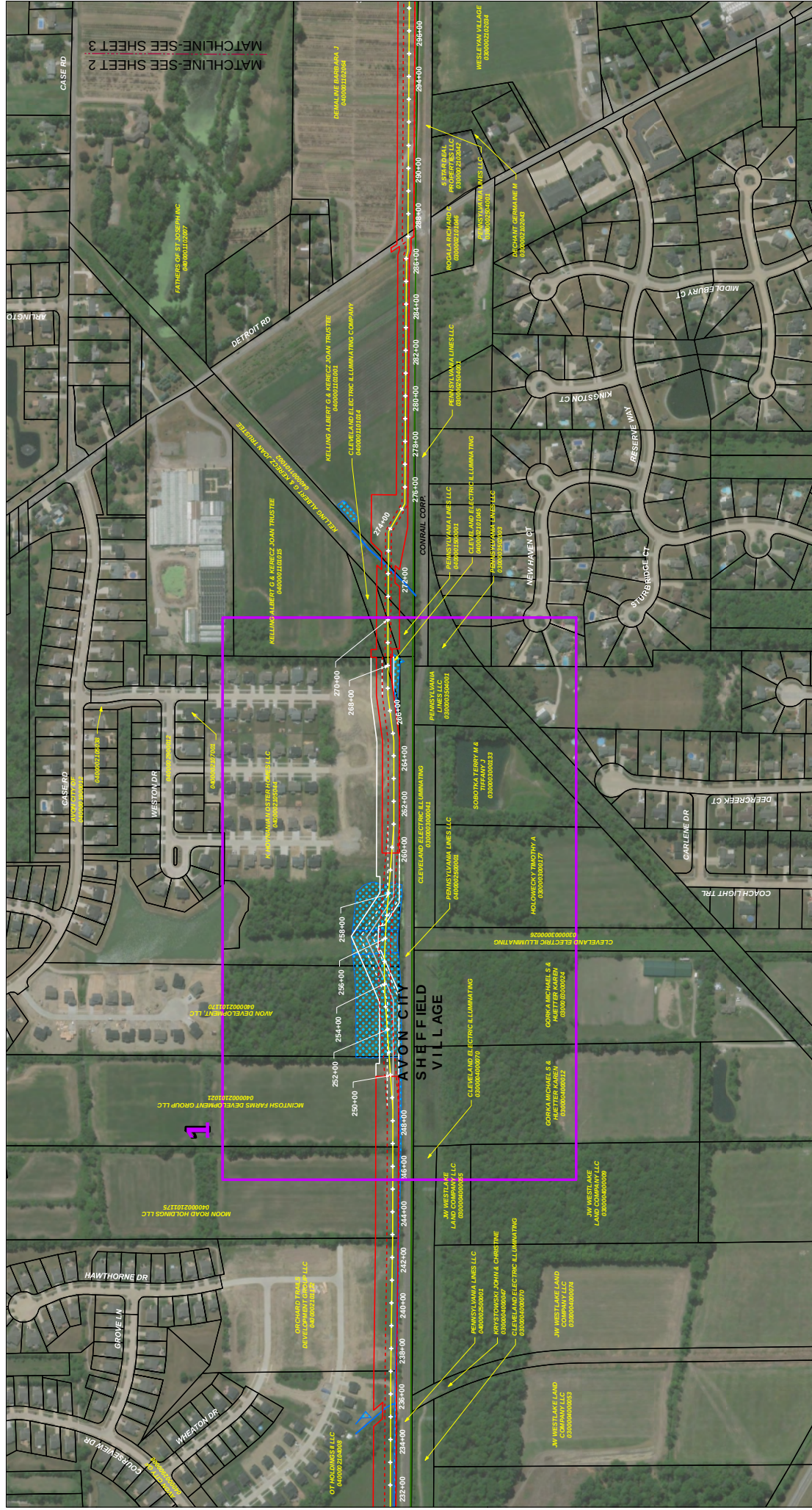
- LEGEND**
- PROJECT RIGHT-OF-WAY CENTERLINE
 - PROJECT LIMIT OF DISTURBANCE
 - 2015 SUBMISSION - RIGHT-OF-WAY CENTERLINE
 - 2015 SUBMISSION - RIGHT-OF-WAY LIMIT OF DISTURBANCE
 - 2015 SUBMISSION - RIGHT-OF-WAY
 - AREA OF PROJECT REVISION SINCE 2015
 - MUNICIPAL BOUNDARY
 - PROPERTY BOUNDARY
 - DELEGATED STREAM
 - DELEGATED WETLAND

ALIGNMENT PLAN

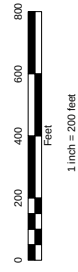
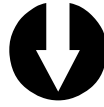
NRG OHIO PIPELINE COMPANY LLC			
CARLISLE, ETON, LAGRANGE TOWNSHIPS	PROJECT NO.	NRG-1007	
AVON, AVON LAKE, ELYRIA & NORTH RIDGEVILLE CITIES & SHEFFIELD VILLAGE	DATE	10/20/2015	
LORAIN COUNTY	SCALE	1" = 2,800'	
OHIO	SHEET NO.	1 of 5	
		3355 Route 611, Suite 1 Bartonsville, PA 18321-7822 970.688.5530 Fax: 970.688.1738	

NOTES:
1. PLANS HAVE BEEN CHECKED AGAINST THE DATA SHEETS. FOR PLANS PREPARED BY OTHERS, THE ENGINEER HAS CONDUCTED VISUAL GENERAL VERIFICATION ONLY.
2. ANY OTHER SCALE OR DIMENSION REFERRED TO IN THE GRAPHIC SCALE OR DIMENSION SHALL BE AS SHOWN ON THE PLANS.
3. SOURCE DATA: LORAIN COUNTY, OHIO, OHIO GEOGRAPHICALLY REFERENCED DATUM 1983 (NAD 83) AND DATUM 1929 (NAD 29).





ENGINEERING DESIGN CHANGES



NOTES:

1. THESE PLANS HAVE BEEN CREATED ON VNS D (27"x34") SHEETS. FOR PLANS PRINTED AT ANY OTHER SCALE, PLEASE REFER TO THE GRAPHIC SCALE ONLY.
2. MAGNETY SOURCE TSSR, DIGITALGEO, GLOVELINE, LUTHERSTOWN GEOGRAPHICS, THE GIS USER COMPANY.
3. THE GIS USER COMPANY.
4. SOURCE DATA: LOHMAN COUNTY OHIO, OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM AND, OHIO DOT.

LEGEND

- PROJECT RIGHT-OF-WAY CENTERLINE
- PROJECT LIMIT OF DISTURBANCE
- PROJECT RIGHT-OF-WAY
- 2015 SUBMISSION - LIMIT OF DISTURBANCE
- 2015 SUBMISSION - RIGHT-OF-WAY
- AREA OF PROJECT REVISION SINCE 2015
- MUNICIPAL BOUNDARY
- PROPERTY BOUNDARY
- DELINEATED STREAM
- DELINEATED WETLAND

ALIGNMENT PLAN

NRG OHIO PIPELINE COMPANY LLC

CARLISLE, EATON & LAGRANGE TOWNSHIPS AVON, AVON LAKE, ELYRIA & NORTH TOWNSHIPS, COLUMBIANA COUNTY, OHIO	QUANTITY: TJK	PROJECT NO. NRG-1007
	CHECKED BY:	

RIDGEVILLE CITIES & SHEFFIELD VILLAGE

LORAIN COUNTY

OHIO

DATE: 03/29/18

SCALE: 1:2,400

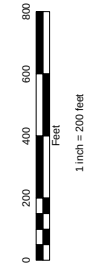
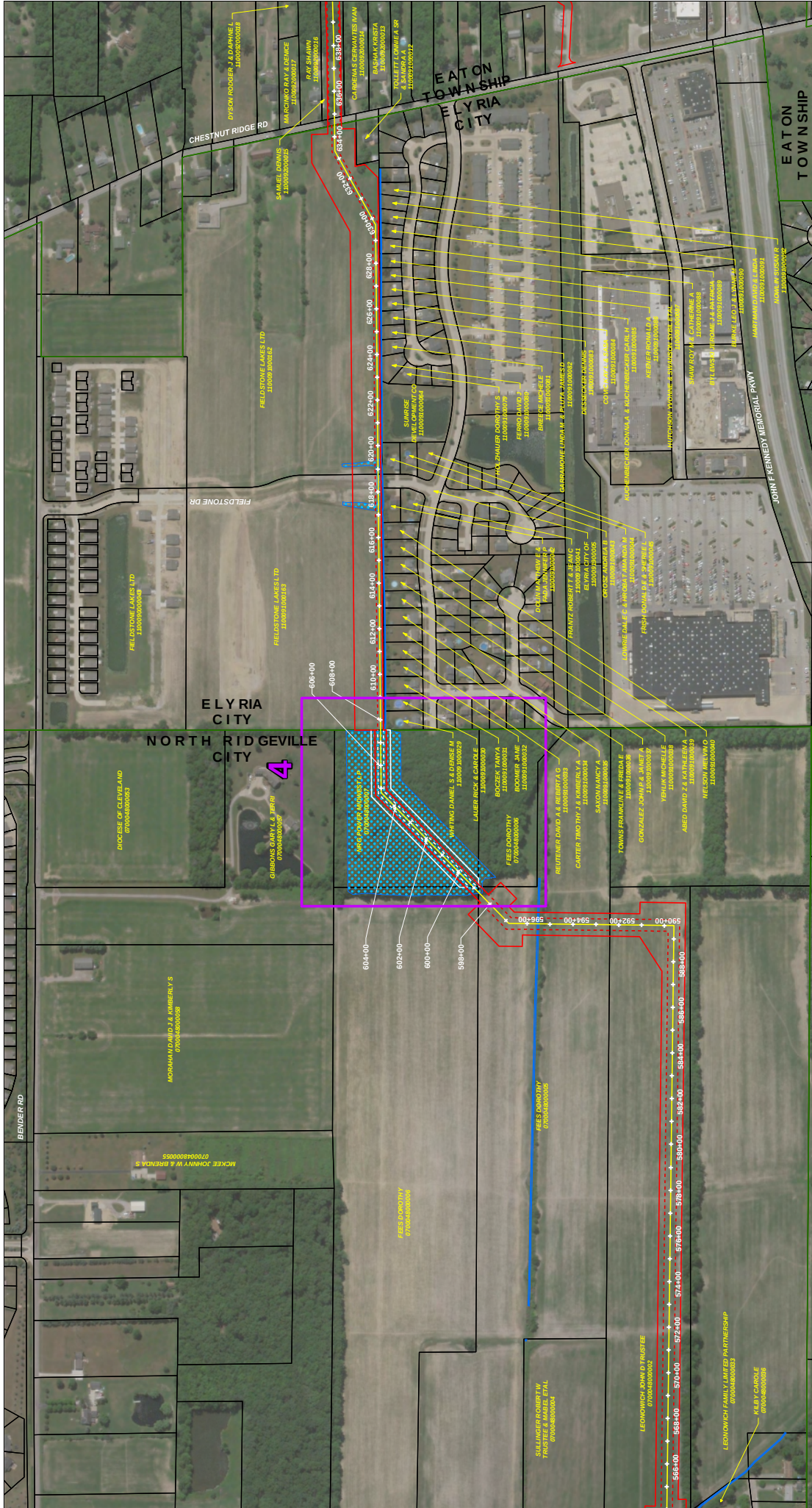
SHEET NO.

2 of 5

 **HanoverEngineering**

3355 Route 611, Suite 1
Bartonsville, PA 18321-7822
570.688.9550
Fax 570.688.9768

 Hanover Engineering



ENGINEERING DESIGN CHANGES

OHIO POWER SITING BOARD

CASE NO. 14-1717-GA-BLN

LEGEND

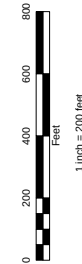
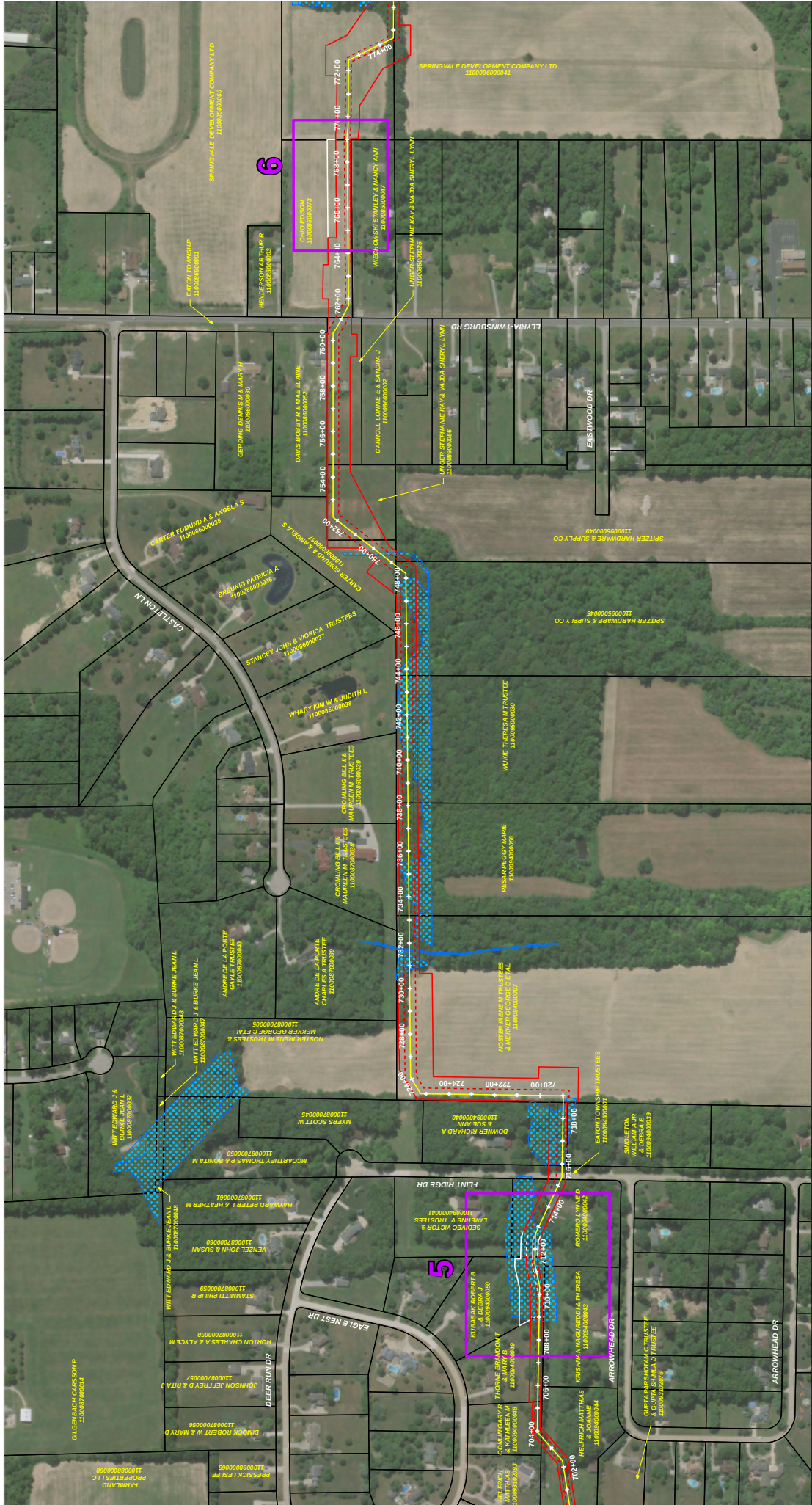
PROJECT RIGHT-OF-WAY CENTERLINE	PROJECT RIGHT-OF-WAY CENTERLINE
PROJECT LIMIT OF DISTURBANCE	PROJECT LIMIT OF DISTURBANCE
2015 SUBMISSION - RIGHT-OF-WAY CENTERLINE	2015 SUBMISSION - RIGHT-OF-WAY CENTERLINE
2015 SUBMISSION - RIGHT-OF-WAY CENTERLINE	2015 SUBMISSION - RIGHT-OF-WAY CENTERLINE
AREA OF PROJECT REVISION SINCE 2015	AREA OF PROJECT REVISION SINCE 2015
MUNICIPAL BOUNDARY	MUNICIPAL BOUNDARY
PROPERTY BOUNDARY	PROPERTY BOUNDARY
DELEGATED STREAM	DELEGATED STREAM
DELEGATED WETLAND	DELEGATED WETLAND

ALIGNMENT PLAN

NRG OHIO PIPELINE COMPANY LLC		PROJECT NO.
CARLISLE ETON CLASSANCE TOWNSHIPS		NRG-1007
AVON, AVON LAKE, ELYRIA & NORTH		SHEET NO.
RIDGEVILLE CITIES & SHEFFIELD VILLAGE		4 of 5
LORAIN COUNTY		DATE
OHIO		12.14.00
3355 Route 611, Suite 1		DATE
Batonsville, PA 18321-7822		12.14.00
970.688.9530		DATE
Fax: 970.688.9738		12.14.00



NOTES:
1. ALL NAME BEING CHANGED ON AND OFF THE MAP SHEETS. FOR PLANS PRINTED
2. AT ANY OTHER SCALE PLEASE REFER TO THE GRAPHIC SCALE ONLY. FOR PLANS PRINTED
3. CHANGES TO LOCAL, STATE, AND FEDERAL MAPS, AND TO THE MAPS OF THE STATE OF OHIO, AND
4. SOURCE DATA LORAIN COUNTY, OHIO, OHIO GEOGRAPHICALLY REFERENCED
5. PROJECT DATA LORAIN COUNTY, OHIO, OHIO GEOGRAPHICALLY REFERENCED



ENGINEERING DESIGN CHANGES

OHIO POWER SITING BOARD

CASE NO. 14-1717-GA-BLN

- LEGEND**
- PROJECT RIGHT-OF-WAY CENTERLINE
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ALIGNMENT PLAN

NRG OHIO PIPELINE COMPANY LLC		PROJECT NO.	NRG-1007
CARLISLE, ETON, LANSING, TOWNSHIPS, AVON, AVON LAKE, ELYRIA & NORTH RIDGEVILLE CITIES & SHEFFIELD VILLAGE		SHEET NO.	5 of 5
LORAIN COUNTY		DATE	12/10/14
OHIO		SCALE	1" = 200'
3355 Route 611, Suite 1 Batonsville, PA 18321-7822 970.688.9530 Fax: 970.688.9738		HanoverEngineering	

NOTES:

1. PLANS HAVE BEEN CHECKED ON AND FOUND TO BE CORRECT. FOR PLANS PRINTED AT ANY OTHER SCALE, PLEASE REFER TO THE GRAPHIC SCALE ONLY FOR DIMENSIONS.
2. CHANGES TO THE PLANS, INCLUDING ANY CHANGES TO THE ALIGNMENT, SHALL BE THE RESPONSIBILITY OF THE CLIENT.
3. SOURCE DATA: LORAIN COUNTY, OHIO, OHIO GEOGRAPHICALLY REFERENCED.
4. PROJECT DATA: 14-1717-GA-BLN.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/6/2018 10:29:17 AM

in

Case No(s). 14-1717-GA-BLN

Summary: Correspondence of NRG Ohio Pipeline Company LLC Submitting Engineering and Design Technical Changes electronically filed by Teresa Orahod on behalf of Dylan F. Borchers