

Duke Energy Ohio
Case No. 19-1471-EL-BLN
Staff Third Set of Data Requests
Date Received: April 2, 2020
STAFF-DR-03-002

REQUEST:

Please explain why the locations of the stub poles were not included in the original maps and shapefiles.

- a. Why are these structures necessary to construct the replacement line?

RESPONSE:

Duke Energy Ohio did include the stub poles in its construction drawings. Please see STAFF-DR-02-001, including Attachments 1-4. This data request response was provided to Staff on October 29, 2019. A copy of that response is also being provided herewith, as Staff-DR-03-002 Attachment 1.

The Company has reviewed the comments and concerns about the stub poles being installed on the Elmwood Project. It has been determined that the stub pole locations were not shown in the maps that were part of the application, although they were shown in the Construction Drawings provided in STAFF-DR-02-001. Duke Energy Ohio's permitting team and engineers has determined that there was a loss of detail in the current method of extracting CAD files into the GIS environment in which the figures are developed. In future exhibits, the Company will extract CAD files using a different method into the GIS environment, in order to fully show the location of the structures (poles, stub poles, etc.).

- a. These structures are necessary to construct the replacement line because they support the guy wires.

PERSON RESPONSIBLE: Dane G. Vandewater

From: [Olive, Emily A.](#)
To: robert.holderbaum@puco.ohio.gov
Cc: [Kingery, Jeanne W.](#)
Subject: Duke Energy Ohio Case No. 19-1471-EL-BLN / Staff 2nd Set of Data Requests Email 1 of 2
Date: Tuesday, October 29, 2019 10:11:00 AM
Attachments: [STAFF-DR-02-001.pdf](#)
[STAFF-DR-02-001 Attachment 1.pdf](#)
[STAFF-DR-02-001 Attachment 2.pdf](#)
[STAFF-DR-02-001 Attachment 3.pdf](#)
[STAFF-DR-02-001 Attachment 4.pdf](#)
[STAFF-DR-02-002.pdf](#)
[STAFF-DR-02-003.pdf](#)
[STAFF-DR-02-003 Attachment 1.pdf](#)
[STAFF-DR-02-004.pdf](#)
[STAFF-DR-02-004 Attachment 1.pdf](#)
[image001.png](#)

Good Morning Ashton:

Please see attached Duke Energy Ohio's responses to Staff's 2nd set of data requests in the above-referenced case.

Please note the responses will be sent in two emails due to size.

Thank you.

Emily A. Olive, CP

Paralegal | Duke Energy Law Department

Duke Energy Corporation | PNC Bank Plaza, 155 East Broad Street, 20th Floor | Columbus, Ohio 43215

o: 614-222-1345 | f: 614-222-1337 | emily.olive@duke-energy.com



 please consider the environment before printing this email

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Duke Energy Ohio
Case No. 19-1471-EL-BLN
Staff sECOND Set of Data Requests
Date Received: October 25, 2019
STAFF-DR-02-001

REQUEST:

Please clarify the height of the new structures? The application states the heights of new structures ranges from 73 to 106 feet (46 total). Can you clarify this please, showing which height structures would be used in which locations?

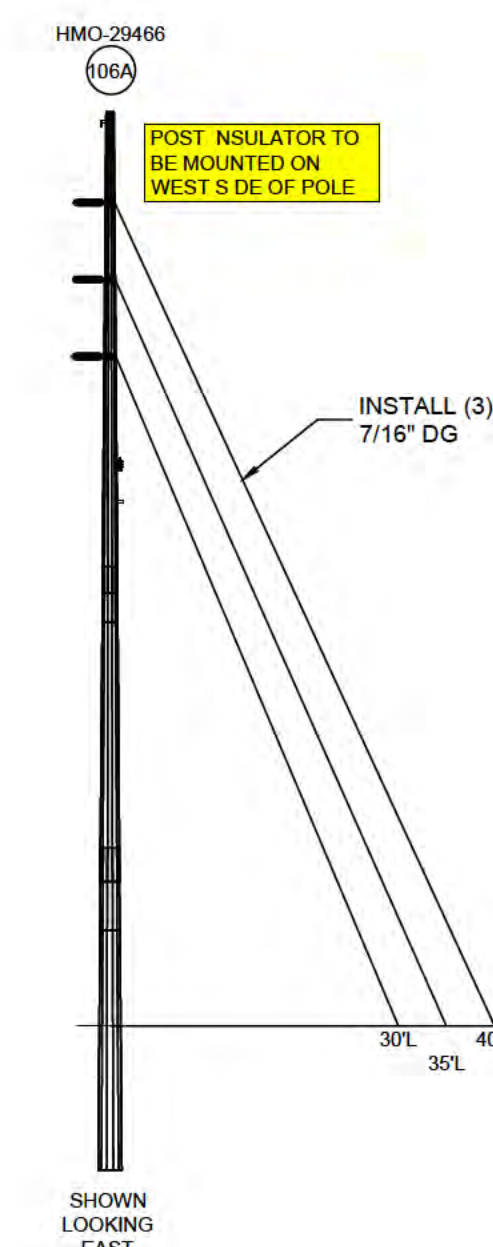
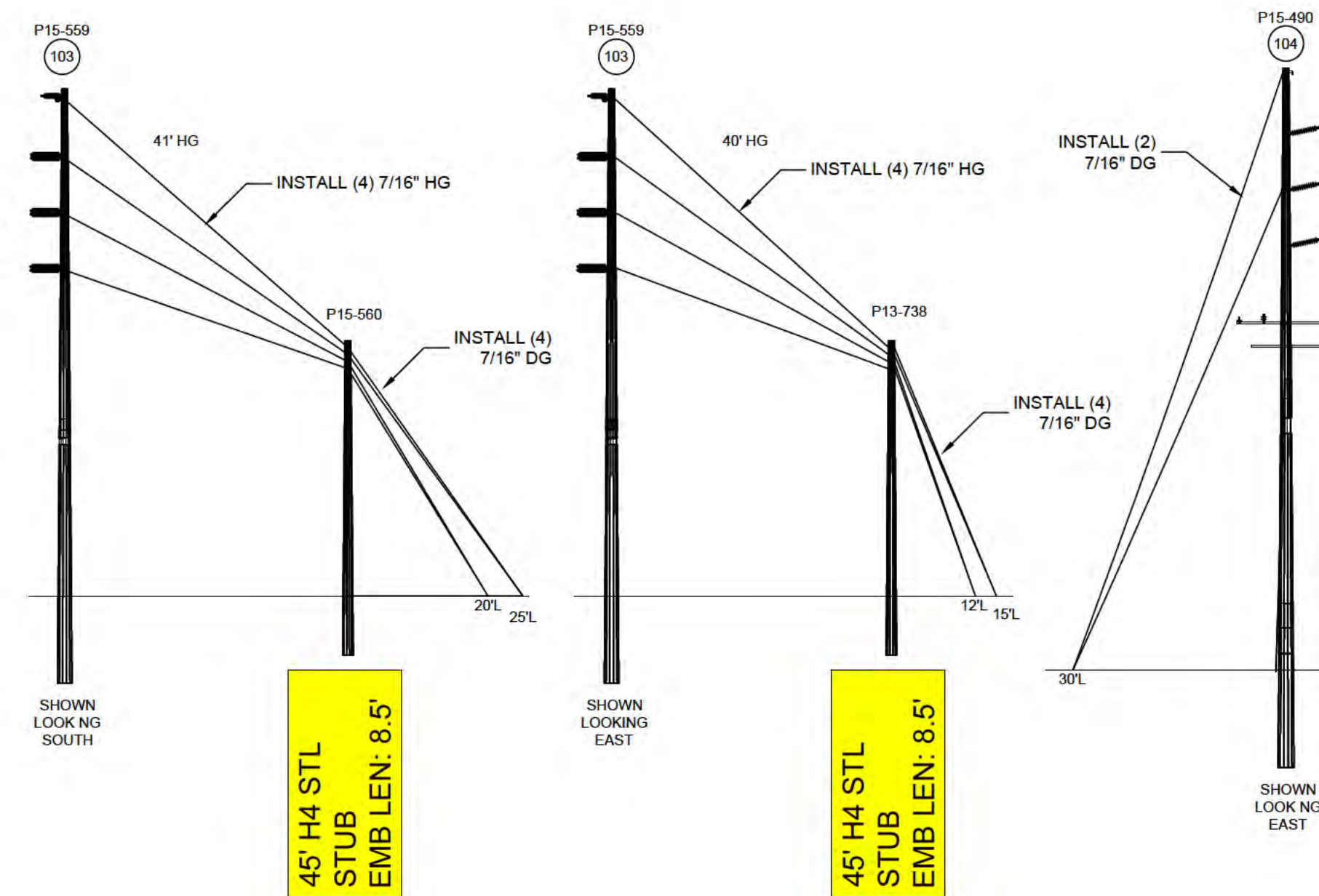
RESPONSE:

Engineering drawings have been attached to show structure height.

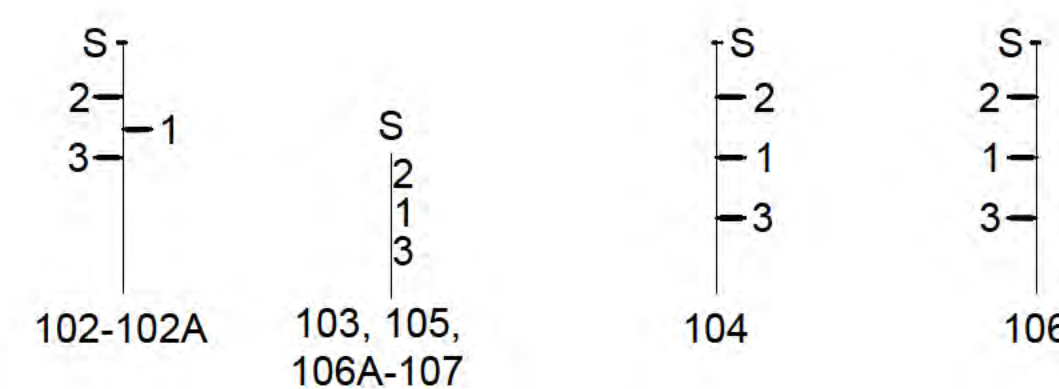
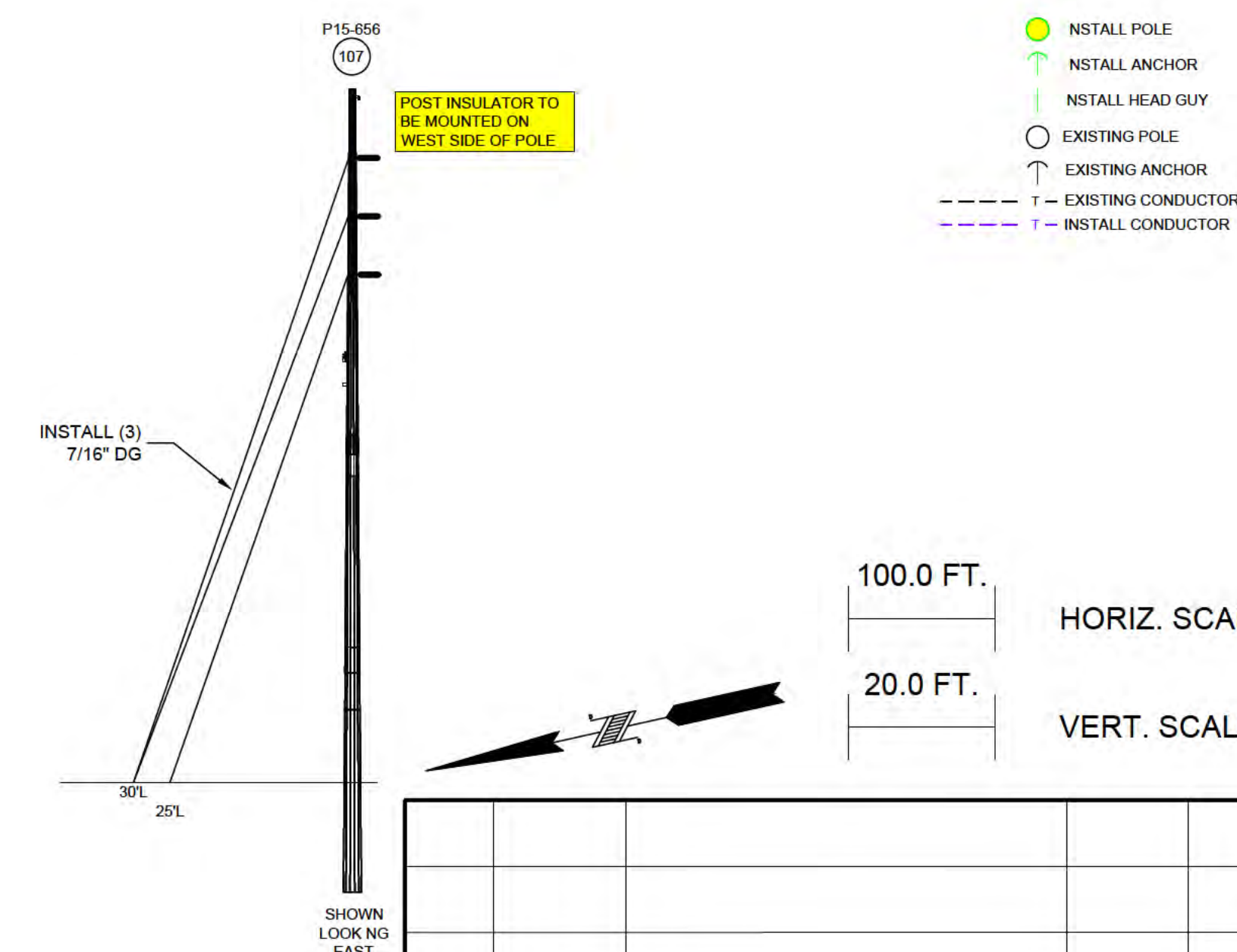
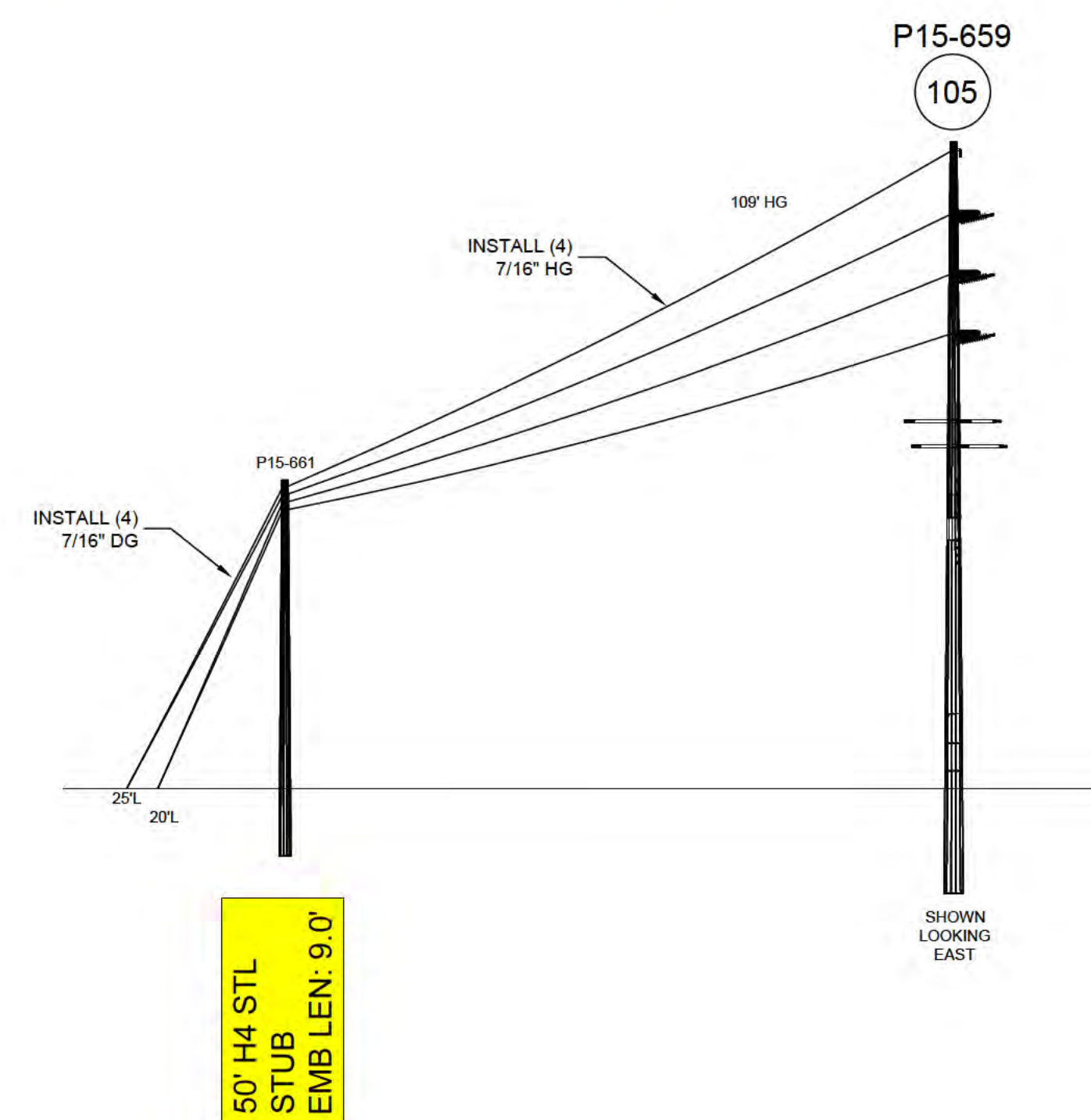
Please see STAFF-DR-02-001 Attachment 1 through STAFF-DR-02-004.


PERSON RESPONSIBLE: Jacob Dawn

CONTACT/ ENGINEER:
JAKE DAWN



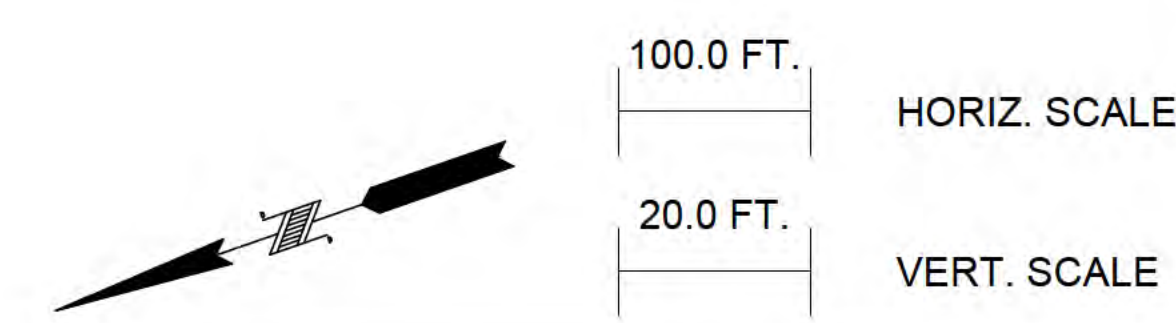
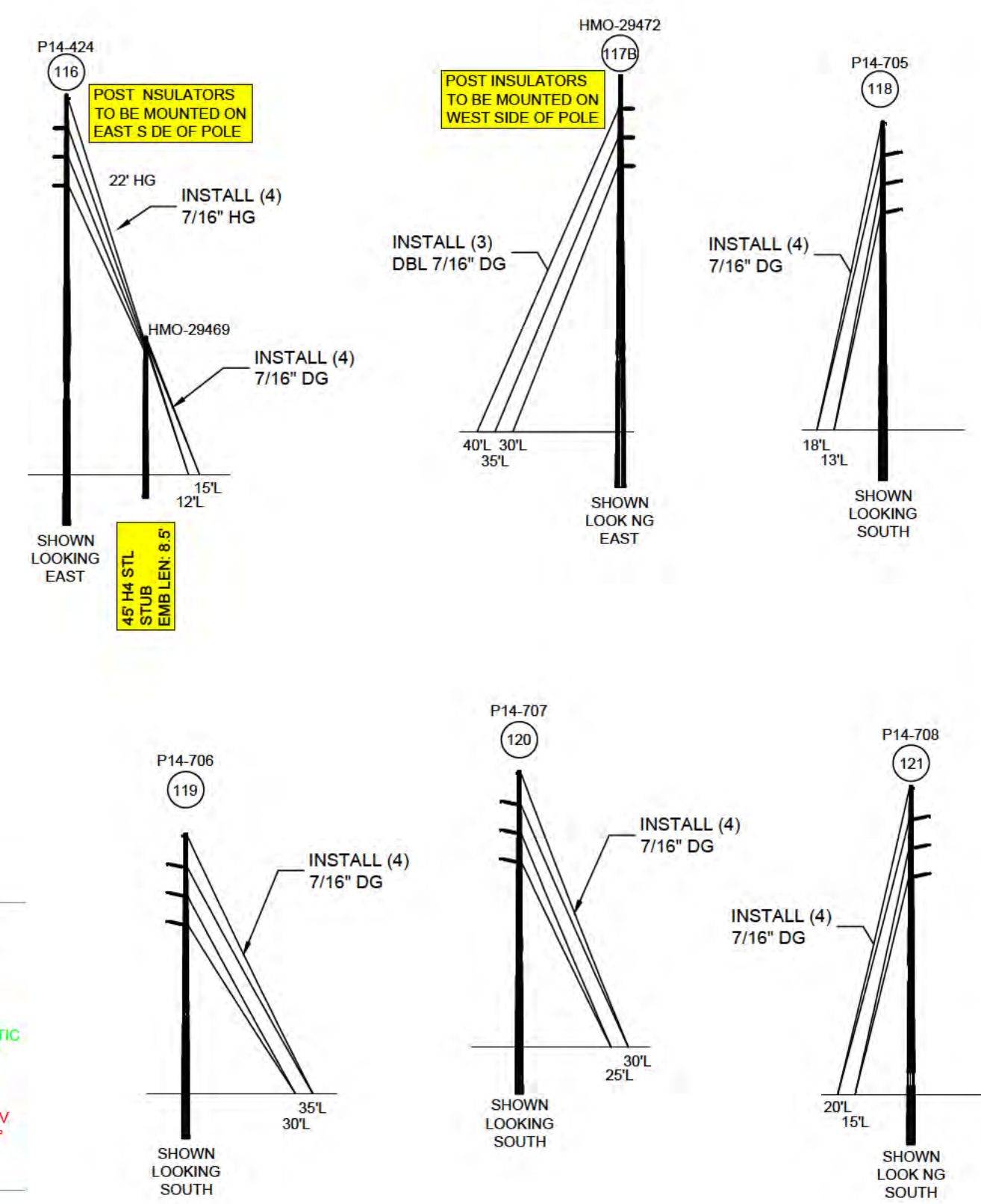
WIRE STRINGING DATA					
POLES	COND.	SAG CHART	STATIC	SAG CHART	DISTANCE
STA-103	795 AAC 37 STRAND		7#8 ALUMOWELD		373.1'
103-107			OPGW AC99/669-2	1,000 # HVY	508.8'
103-105	954 ACSR 45X7 "RAIL"	3,000# HVY			283.8'
105-106A	954 ACSR 45X7 "RAIL"	3,000# HVY			171.1'
106A-107	954 ACSR 45X7 "RAIL"	1,000# HVY			53.9'



	INDEX: F684			
	DESCRIPTION: CONSTRUCTION DRAWING			
DATE: 7/24/2019	LOCATION: HAMILTON CO, OH			
DRAWN: JAKE DAWN			ENGINEER: JAKE DAWN	
TRANSMISSION LINE ENGINEERING	CKD:	PAGE:	SCALE: NOTED	DWG NO: 28935640-1

NOTE:
ALL PHASING IS SHOWN LOOKING AWAY
FROM ELMWOOD STATION

 INSTALL
 INSTALL A
 INSTALL M
 EXISTING R
 EXISTING A
 EXISTING I
 INSTALL O



NO.	DATE	REVISION	DRFT.	ENGR



DUKE
ENERGY

DATE: 7/24/2019		LOCATION: HAMITLON CO, OH			
DRAWN: JAKE DAWN			ENGINEER: JAKE DAWN		
TRANSMISSION LINE ENGINEERING		CKD:	PAGE:	SCALE: NOTED	DWG NO: 28935640-2

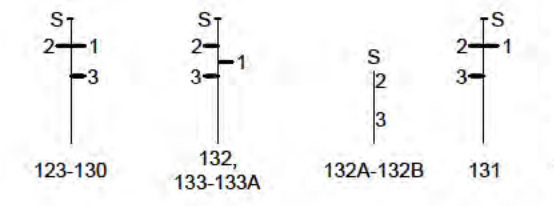
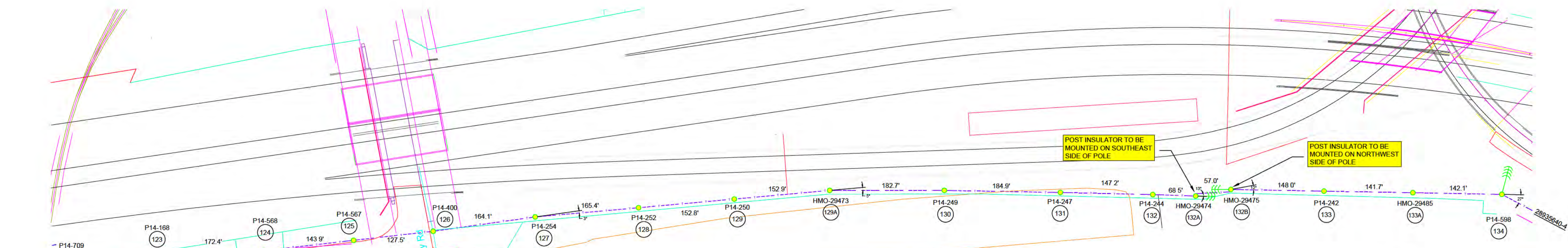
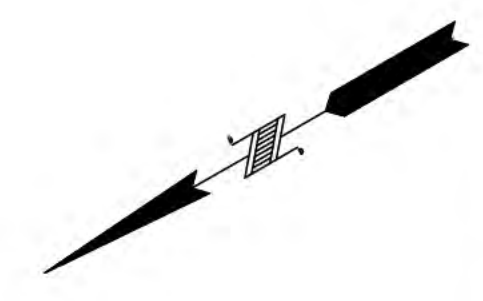
MAP GRID: N02E0125
COMMUNITY: ELMWOOD PLACE
TWP.: CINCINNATI
STATE: OHIO
COUNTY: HAMILTON
TAX: 31 0350
OPERATING UNIT: VSOH
FEEDER (138KV): F684
DISTRICT: HARTWELL

CONTACT/ENGINEER:
JAKE DAWN

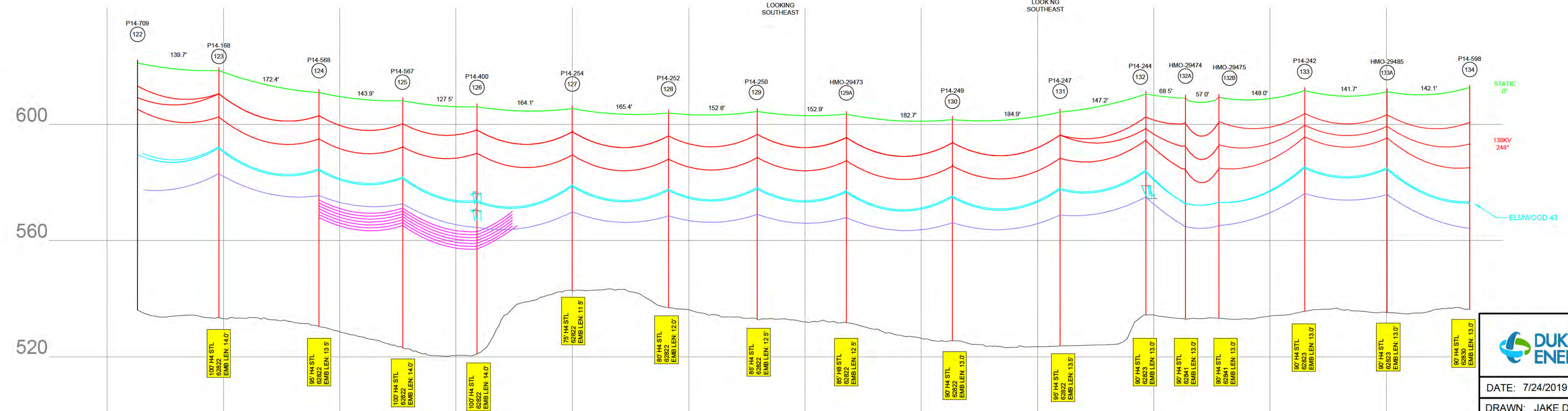
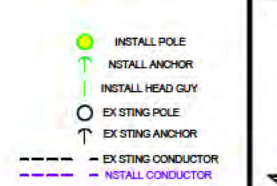
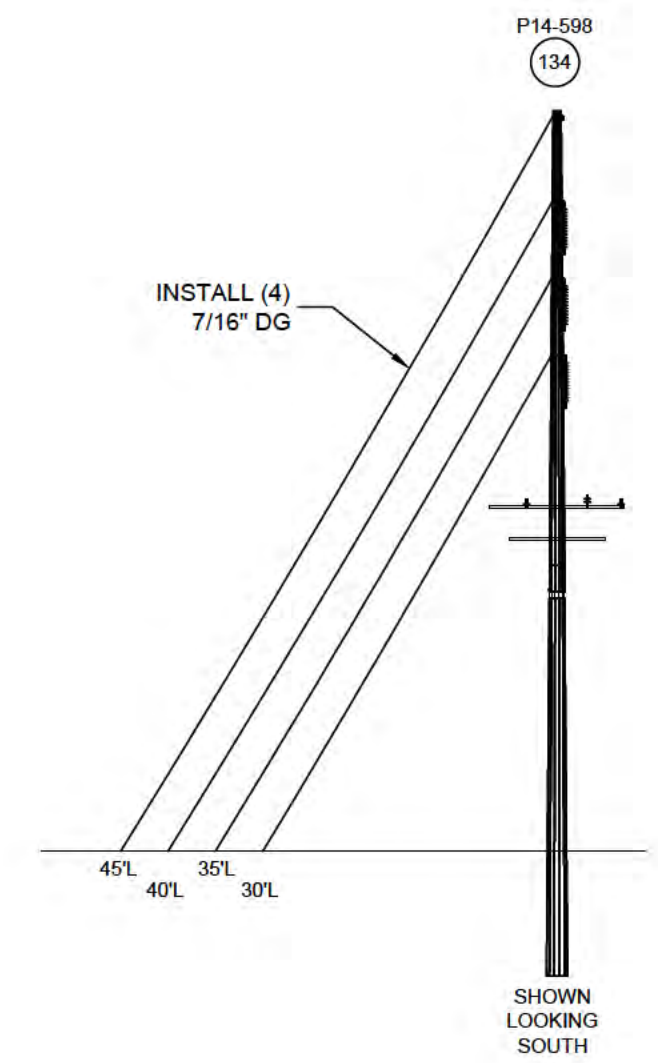
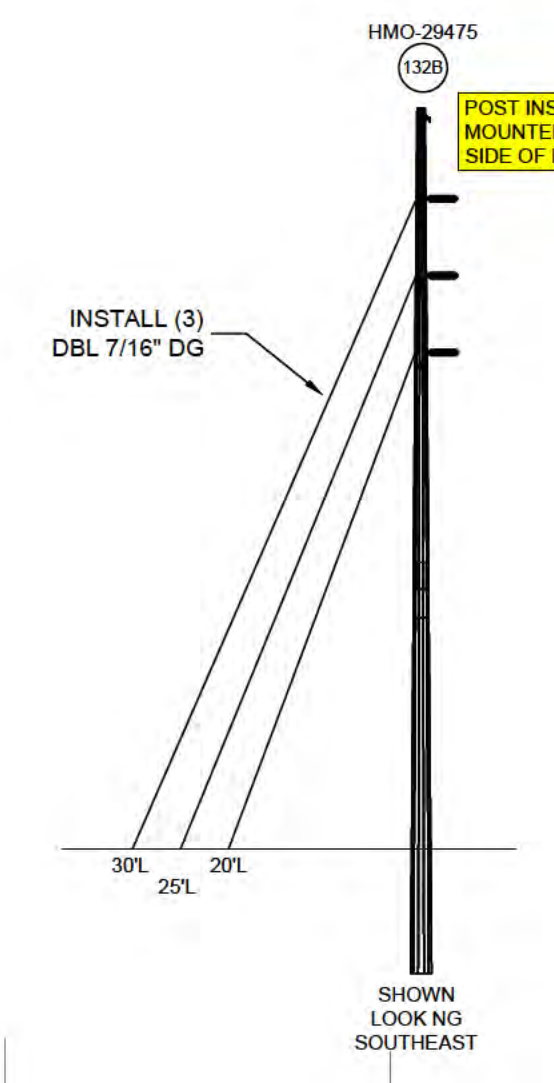
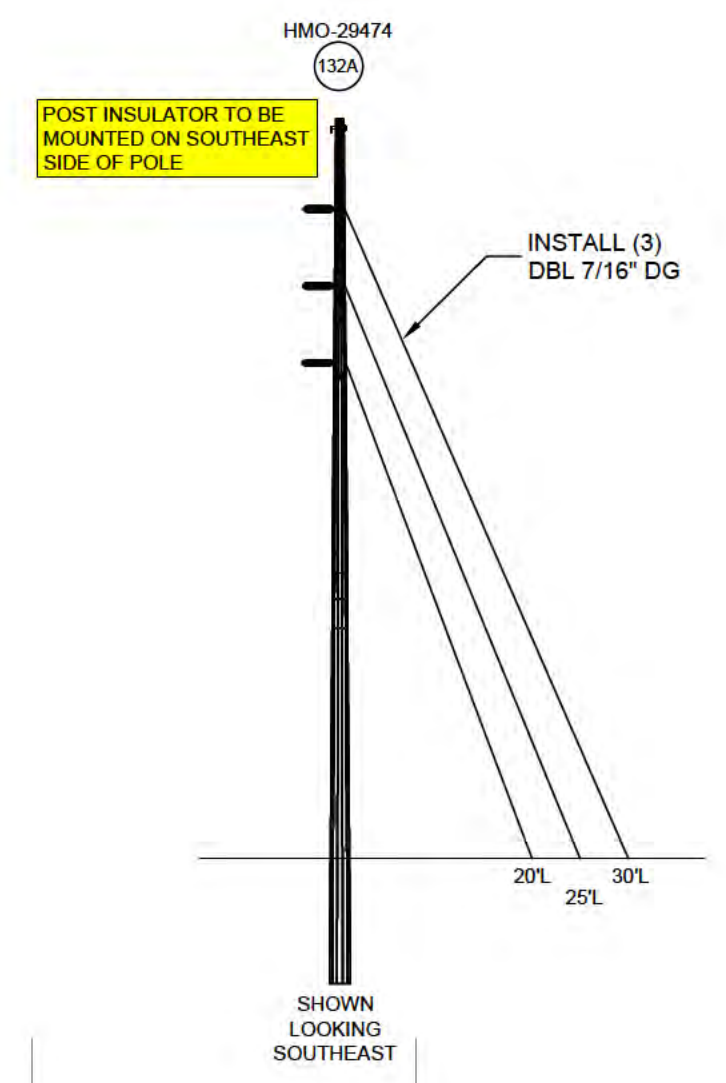
TRANSMISSION:
WO# 28935640
PROJECT CODES:
OHRELT44
OHRELT44
OHRELT44

PROJECT#	ACTIVITY	DESCRIP.
OHRELT44	I	INSTALL
OHRELT44	R	RETIRE
OHRELT44	X	MAINT.

WIRE STRINGING DATA					
POLES	COND.	SAG CHART	STATIC	SAG CHART	DISTANCE
122-132A	954 ACSR 45X7 "RAIL"	4,500# HVY	OPGW AC99/669-27	3,000# HVY	1801.4'
132A-132B	954 ACSR 45X7 "RAIL"	500# HVY	OPGW AC99/669-27	500# HVY	57.0'
132B-134	954 ACSR 45X7 "RAIL"	4,500# HVY	OPGW AC99/669-27	2,000# HVY	431.8'



NOTE:
ALL PHASING IS SHOWN LOOKING AWAY
FROM ELMWOOD STATION



100.0 FT.
HORIZ. SCALE
20.0 FT.
VERT. SCALE

NO.	DATE	REVISION	DRFT.	ENGR.

	INDEX: F684			
	DESCRIPTION: CONSTRUCTION DRAWING			
	DATE: 7/24/2019		LOCATION: HAMILTON CO, OH	
	DRAWN: JAKE DAWN		ENGINEER: JAKE DAWN	
TRANSMISSION LINE ENGINEERING	CKD:	PAGE:	SCALE: NOTED	DWG NO: 28935640-3

MAP GRID: N02E0125
COMMUNITY: ELMWOOD PLACE
TWP.: CINCINNATI
STATE: OHIO
COUNTY: HAMILTON
TAX: 31 0350
OPERATING UNIT: VSOH
FEEDER (138KV): F684
DISTRICT: HARTWELL

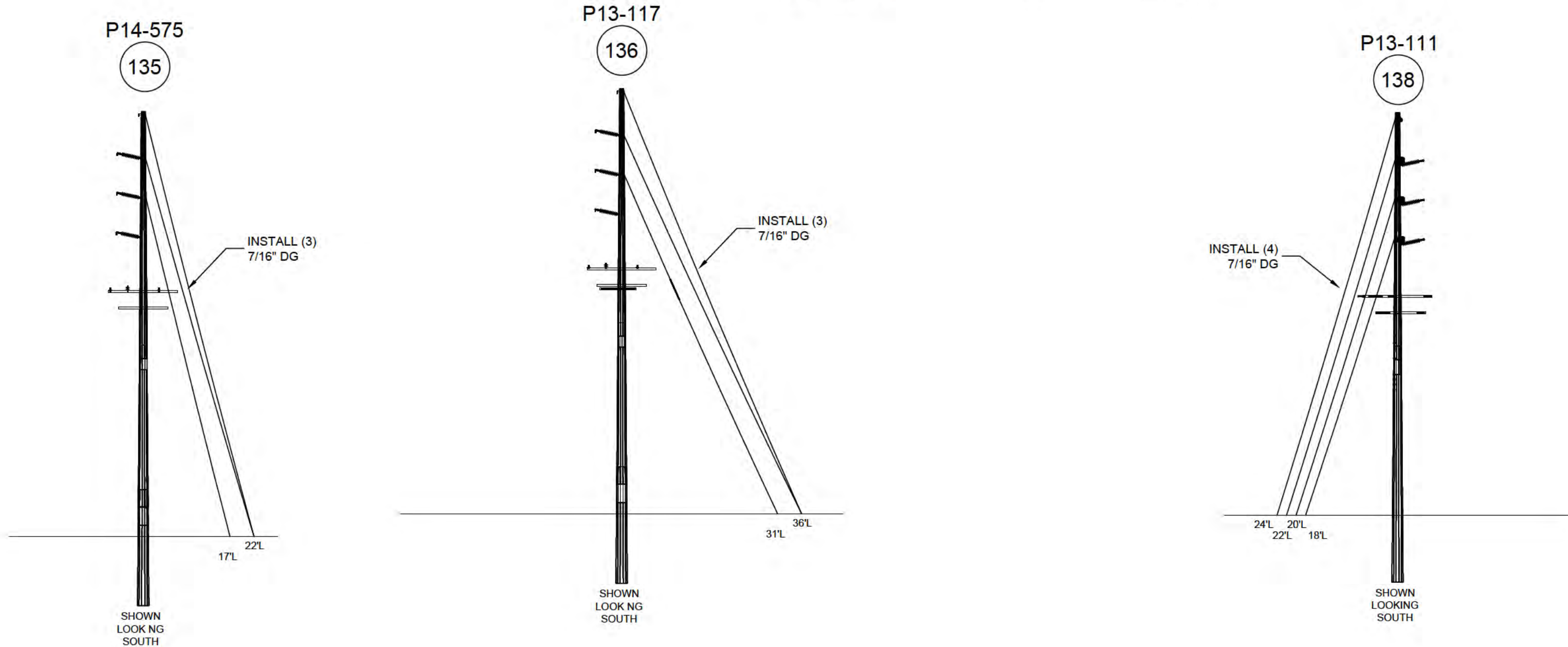
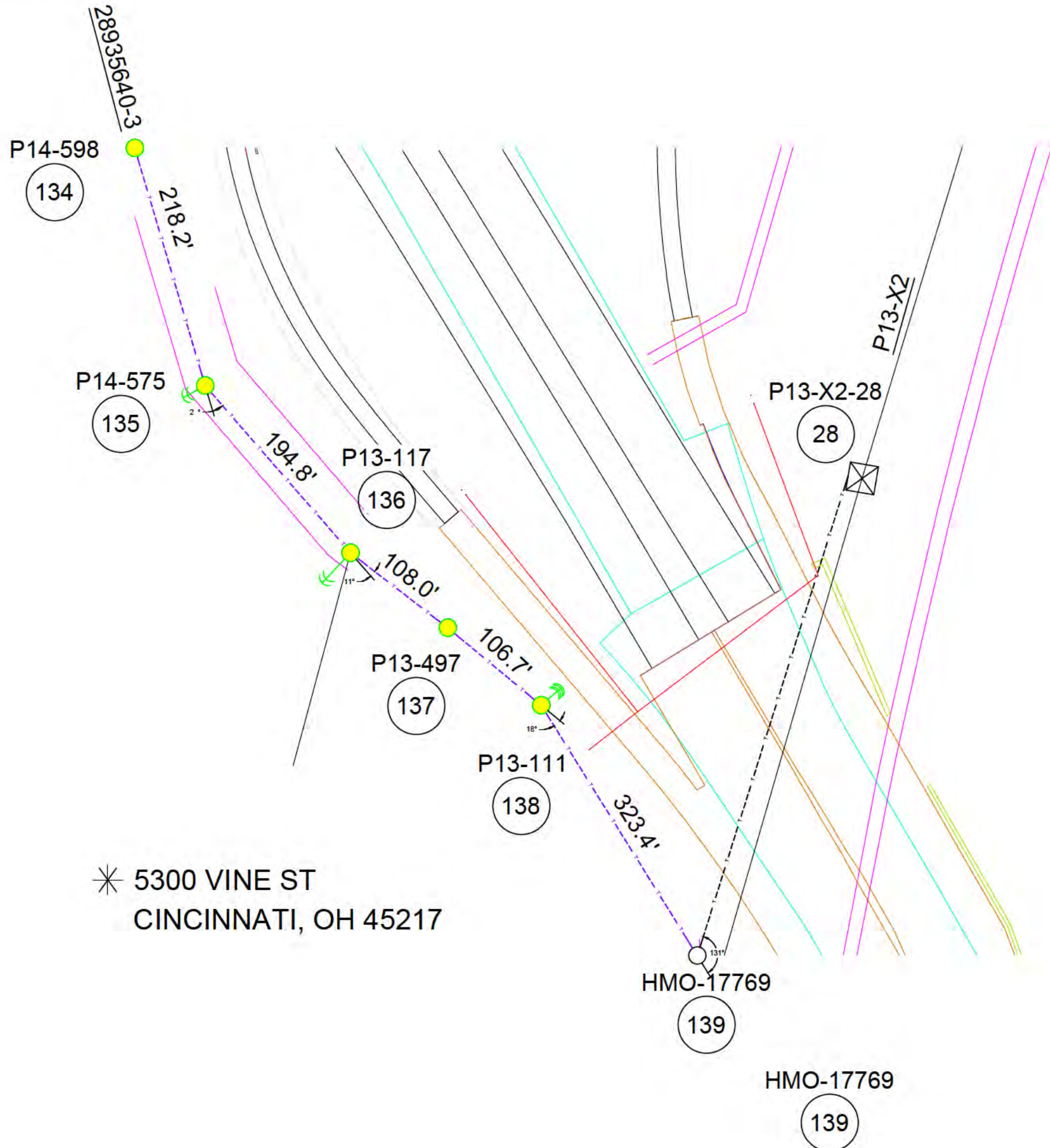
CONTACT/ ENGINEER:
JAKE DAWN

TRANSMISSION:
WO# 28935640
PROJECT CODES:
OHRELT44
OHRELT44
OHRELT44

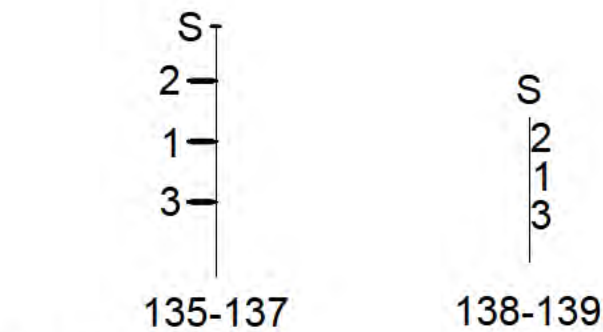
ACTIVITY
I
R
X

DESCRIP.
INSTALL
RETIRE
MAINT.

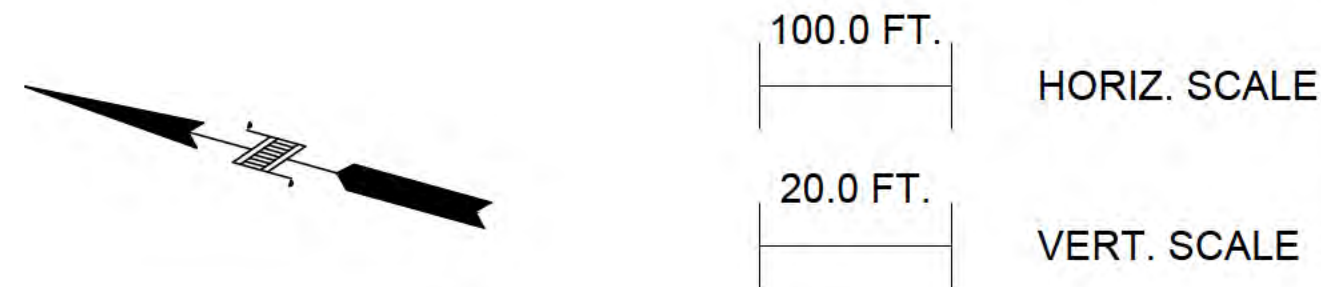
WIRE STRINGING DATA					
POLES	COND.	SAG CHART	STATIC	SAG CHART	DISTANCE
134-138	954 ACSR 45X7 "RAIL"	4,500# HVY	OPGW AC99/669-27	2,000# HVY	627.7'
138-139	954 ACSR 45X7 "RAIL"	4,500# HVY	OPGW AC99/669-27	2,000# HVY	323.4'
139-28	795 ACSR 45X7		159 ACSR 12X7 "GUINEA"		



- INSTALL POLE
- INSTALL ANCHOR
- INSTALL HEAD GUY
- EXISTING POLE
- ↑ EXISTING ANCHOR
- - - EXIST NG CONDUCTOR
- - - INSTALL CONDUCTOR



NOTE:
ALL PHASING IS SHOWN LOOKING AWAY
FROM ELMWOOD STATION



100' H4 STL
62824
EMB LEN: 14.0'

100' H4 STL
62824
EMB LEN: 14.0'

95' H4 STL
62824
EMB LEN: 13.5'

95' H4 STL
62840-2WJ
EMB LEN: 13.5'

155' ENG POLE
2W DE
FOUNDATION

	INDEX: F684			
	DESCRIPTION: CONSTRUCTION DRAWING			
DATE: 7/24/2019		LOCATION: HAMILTON CO, OH		
DRAWN: JAKE DAWN			ENGINEER: JAKE DAWN	
TRANSMISSION LINE ENGINEERING	CKD:	PAGE:	SCALE: NOTED	DWG NO: 28935640-4

Duke Energy Ohio
Case No. 19-1471-EL-BLN
Staff sECOND Set of Data Requests
Date Received: October 25, 2019
STAFF-DR-02-002

REQUEST:

Please submit the details of the construction timeline of the ODOT improvement project, in terms of how it impacts the existing transmission line.

- Please include the following:
 1. Exact dates that ODOT needs the existing line removed by
 2. Any construction date limits
 3. Outage dates
 4. Any other issues relating to the construction timeline.

RESPONSE:

The Outage on the circuit is scheduled to begin on April 6, 2020, and to end on June 19, 2020. ODOT needs Duke Energy Ohio's line to be relocated by February 1, 2021, and has indicated it will be beginning road construction around this time.

PERSON RESPONSIBLE: Joshua Waldroff

Duke Energy Ohio
Case No. 19-1471-EL-BLN
Staff sECOND Set of Data Requests
Date Received: October 25, 2019
STAFF-DR-02-003

REQUEST:

Please provide topographic maps that clearly show the following:

- The centerline of the existing 138kV line to be removed including all of the structures to be removed
- The layout of the proposed ODOT project in terms of how it affects the existing line

RESPONSE:

- The centerline of the existing 138kV line to be removed, including all of the structures to be removed, is shown on the topographic map identified as Attachment A, Figure 1, of the Application filed on August 16, 2019.
- Refer to ODOT Layout – Staff-DR-02-003 Attachment 1.

PERSONS RESPONSIBLE: Dustin Giesler, Cori Jansing, and Jacob Dawn

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
HAM-75-7.85
CITY OF CINCINNATI
HAMILTON COUNTY

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF COMPLETE ASPHALT PAVEMENT RECONSTRUCTION AND WIDENING OF 2.25 MILES OF I.R. 75 WITH AN ADDITIONAL NORTHBOUND AND SOUTHBOUND LANE AND 0.25 MILES OF RECONSTRUCTION AND WIDENING OF S.R. 562 IN HAMILTON COUNTY. ADDITIONAL WORK INCLUDES RECONSTRUCTION OF 11 RAMPS, 4 ROADWAY BRIDGES, 1 PEDESTRIAN BRIDGE, 3 RAIL ROAD BRIDGES AND 0.75 MILES OF RAIL ROAD RECONSTRUCTION. THIS WORK INCLUDES NOISE WALLS, RETAINING WALLS, ITS, LIGHTING, WATER WORK, STORM SEWER SYSTEMS, CULVERT REHABILITATION AND BMP STRUCTURES. THIS IS PHASE 8 OF THE MILL CREEK EXPRESSWAY PROJECT.

PROJECT EARTH DISTURBED AREA: 106.34 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 107.34 ACRES

LIMITED ACCESS

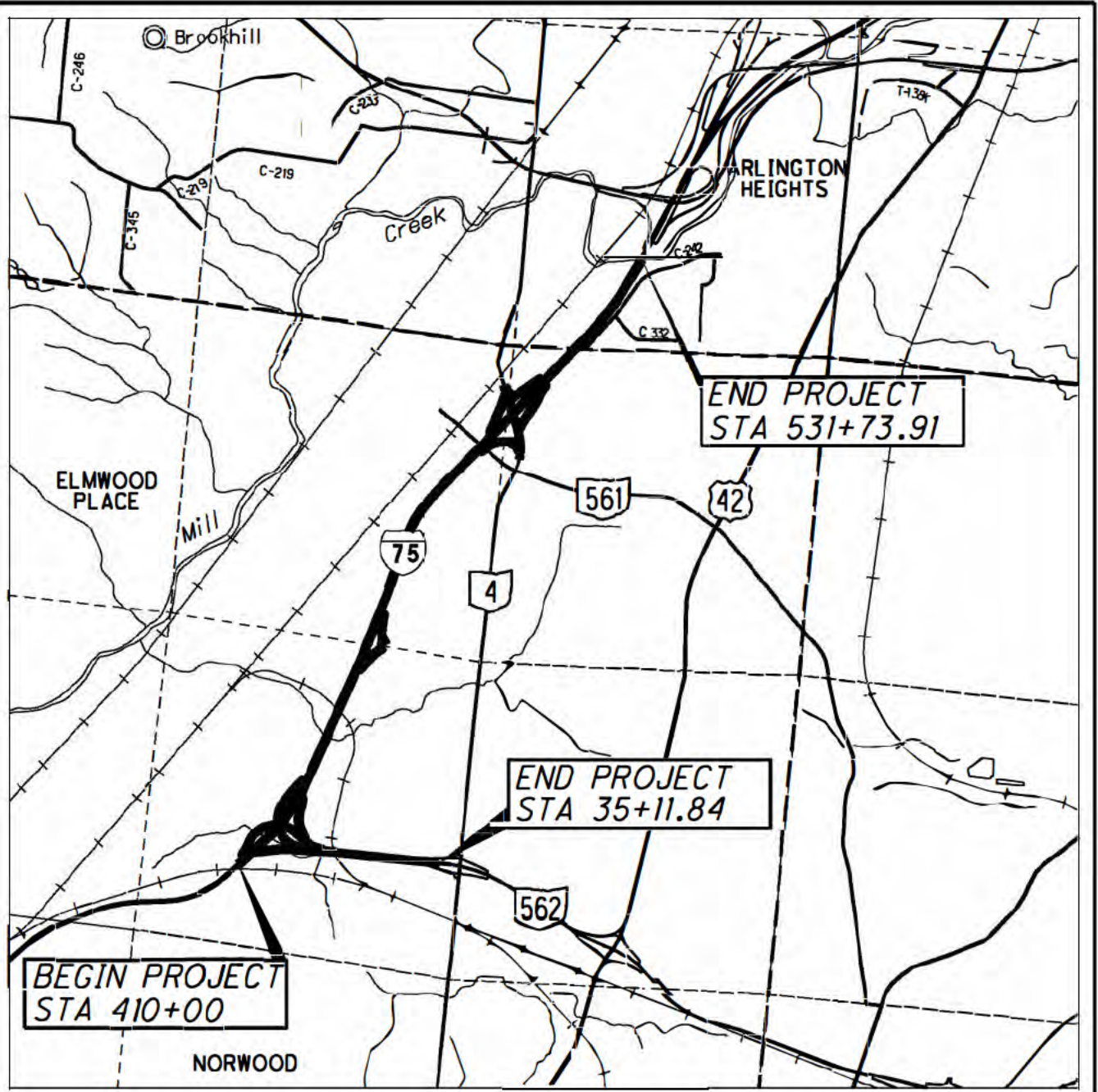
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

APPROVED
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: N39°11'20" LONGITUDE: W84°28'50"

SCALE IN MILES



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	_____
FEDERAL ROUTES	_____
STATE ROUTES	_____
COUNTY & TOWNSHIP ROADS	_____
OTHER ROADS	_____

DESIGN DESIGNATION - I.R. 75, S.R. 562 & TOWNE ST

	I.R. 75	S.R. 562	TOWNE ST
CURRENT ADT (2010)	173,800	70,700	8,340
DESIGN YEAR ADT (2030)	203,000	78,000	8,340
DESIGN HOURLY VOLUME (2030)	17,050	7,410	900
DIRECTION DISTRIBUTION	53%	53%	76%
TRUCKS (24 HOUR B&C)	14%	11%	7%
DESIGN SPEED	60	60	40
LEGAL SPEED	55	55	35
DESIGN FUNCTIONAL CLASSIFICATION	URBAN	URBAN FREEWAY AND EXPRESSWAY	URBAN COLLECTOR
NHS PROJECT	YES	YES	NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
SHOULDER WIDTH	3/2/2015	325,328,332,335
SHOULDER WIDTH	3/2/2015	333
STOPPING SIGHT DISTANCE	2/20/2013	328,338,339,345, 341,342

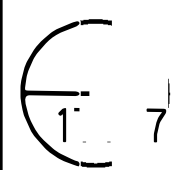
ENGINEERS SEAL: FOR ROADWAY: (IR75) 393+50.00 TO 444+50.00 (SR562) END WORK 47+50.00 SIGNED: <i>E. Kugel</i> DATE: 5/27/2016	ENGINEERS SEAL: FOR ROADWAY: STA 444+50.00 TO STA 535+67.00 SIGNED: <i>S. Khorsidi</i> DATE: 5/25/16	ENGINEERS SEAL: FOR ITS/LIGHTING SIGNED: <i>J. Smallwood</i> DATE: 5-31-2016	ENGINEERS SEAL: NOISE WALLS: 1A, 1B-1, 1B-2, 1C, 2A, 2B SIGNED: <i>N. Kheidekar</i> DATE: 5-25-2016
ENGINEERS SEAL: BRIDGES: HAM-562-0004, HAM-75-0791, RET WALL B, RET WALL C, RET WALL D SIGNED: <i>C. Salvaggio</i> DATE: 5-27-16	ENGINEERS SEAL: BRIDGES: HAM-75-0823, HAM-75-0992, RET WALL F RET WALL G SIGNED: <i>J. Edwards</i> DATE: 5/24/2016	ENGINEERS SEAL: BRIDGES: HAM-562-0026, HAM-75-0834, HAM-PROSR-00.000 SIGNED: <i>E. Dues</i> DATE: 5-25-16	ENGINEERS SEAL: BRIDGE: HAM-75-0857 RETAINING WALLS: S, U, V, T, Z, Y, J3, K, H, I, J1, L SIGNED: <i>N. Kheidekar</i> DATE: 5-25-2016

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS																						SUPPLEMENTAL SPECIFICATIONS		
BP-2.1	7/17/15	CB-3.3	1/15/16	DM-4.4	1/15/16	RM-4.2	4/18/14	ITS-50.10	1/15/16	HL-30.33	1/17/14	MT-95.70	7/19/13	MT-101.60	7/19/13	TC-22.20	1/17/14	TC-65.11	7/18/14	PCB-91	1/18/13	800	7/19/19	
BP-2.2	7/18/08	CB-3.4	1/15/16			RM-4.3	7/18/14	ITS-50.12	1/15/16	HL-30.41	7/18/14	MT-95.71	7/19/13	MT-101.70	1/17/14	TC-41.10	7/19/13	TC-71.10	1/17/14	SBR-1-13	1/17/14	804	1/15/16	
BP-2.4	7/19/13			F-1.1	7/19/13	RM-4.4	7/18/14			HL-40.10	1/17/14	MT-95.82	7/19/13	MT-101.80	1/16/15	TC-41.15	10/18/13	TC-72.20	7/18/14	SBR-2-13	1/17/14	809	4/15/16	
BP-3.1	7/18/14	HW-2.1	1/15/16	F-3.1	7/19/13	RM-4.5	7/18/14			HL-40.20	1/16/15	MT-97.10	7/18/14	MT-101.90	7/17/15	TC-41.20	10/18/13	TC-81.21	1/15/16	SICD-1-96	7/18/14	816	1/20/12	
BP-4.1	7/19/13	HW-2.2	1/15/16	F-3.3	7/19/13	RM-4.6	7/19/13	HL-10.11	1/15/16	HL-50.11	1/16/15	MT-97.11	7/18/14	MT-102.10	7/18/14	TC-41.30	10/18/13	TC-82.10	7/17/15	SICD-2-14	7/18/14	821	4/20/12	
BP-5.1	7/19/13			F-3.4	7/19/13	RM-5.2	1/17/14	HL-10.12	1/15/16	HL-50.21	1/16/15	MT-98.10	7/18/14	MT-102.20	7/18/14	TC-41.40	10/18/13	TC-83.10	1/15/16	VPF-1-90	7/17/15	832	1/17/14	
BP-6.1	7/19/13	I-2.1	1/15/16					HL-10.13	1/15/16	HL-60.11	1/15/16	MT-98.11	7/18/14	MT-102.30	10/16/15	TC-41.41	10/18/13	TC-83.20	1/15/16			840	4/15/16	
BP-7.1	7/18/14	I-2.2	1/15/16	MGS-1.1	7/19/13	ITS-10.10	1/15/16	HL-10.31	7/17/15	HL-60.12	1/17/14	MT-98.21	7/18/14	MT-103.10	1/16/15	TC-41.50	10/18/13	TC-84.20	10/18/13			866	10/19/12	
BP-9.1	7/19/13	I-2.3	1/15/16	MGS-2.1	7/19/13	ITS-10.11	1/15/16	HL-20.11	1/16/15	HL-60.21	1/16/15	MT-98.22	7/18/14	MT-105.10	7/19/13	TC-42.10	10/18/13	TC-85.10	10/18/13			867	4/15/16	
				MGS-3.1	7/18/14	ITS-12.10	1/15/16	HL-20.13	1/15/16	HL-60.31	7/17/15	MT-98.28	7/18/14	MT-110.10	7/19/13	TC-42.20	10/18/13	TC-85.20	1/16/15	SPECIAL PROVISIONS		878	10/18/13	
CB-1.1	1/15/16	MH-1.2	1/15/16	MGS-3.2	1/18/13	ITS-14.10	1/15/16	HL-20.21	1/15/16			MT-98.29	7/19/13			TC-51.11	1/15/16					904	1/15/16	
CB-2.1	1/15/16	MH-2.1	1/15/16	MGS-4.2	7/19/13	ITS-14.11	1/15/16	HL-20.24	1/15/16	MT-95.30	7/18/14	MT-98.30	7/18/14	TC-7.65	1/15/16	TC-51.12	1/15/16	A-1-69	7/19/02			907	1/20/12	
CB-2.2	1/15/16			MGS-5.3	7/19/13	ITS-15.10	1/15/16	HL-30.11	1/15/16	MT-95.31	7/18/14	MT-99.20	7/19/13	TC-12.30	10/18/13	TC-52.10	10/18/13	AS-1-15	7/17/15			921	4/20/12	
CB-2.3	1/15/16	DM-1.1	1/15/16	MGS-6.1	7/19/13	ITS-35.11	1/15/16	HL-30.21	1/17/14	MT-95.32	7/18/14	MT-99.30	1/16/15	TC-15.115	10/18/13	TC-52.20	7/18/14	EXJ-4-87	7/19/02	OHIO EPA RULE 13 PERMIT (10-1-13)				
CB-3.1	1/15/16	DM-1.2	1/18/13			ITS-35.12	1/15/16	HL-30.22	1/17/14	MT-95.40	7/18/14	MT-99.50	7/19/13	TC-21.10	1/15/16	TC-61.10	1/17/14	GSD-1-96	7/19/02		SUPPLEMENTS			
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UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Fax: 614.775.4800



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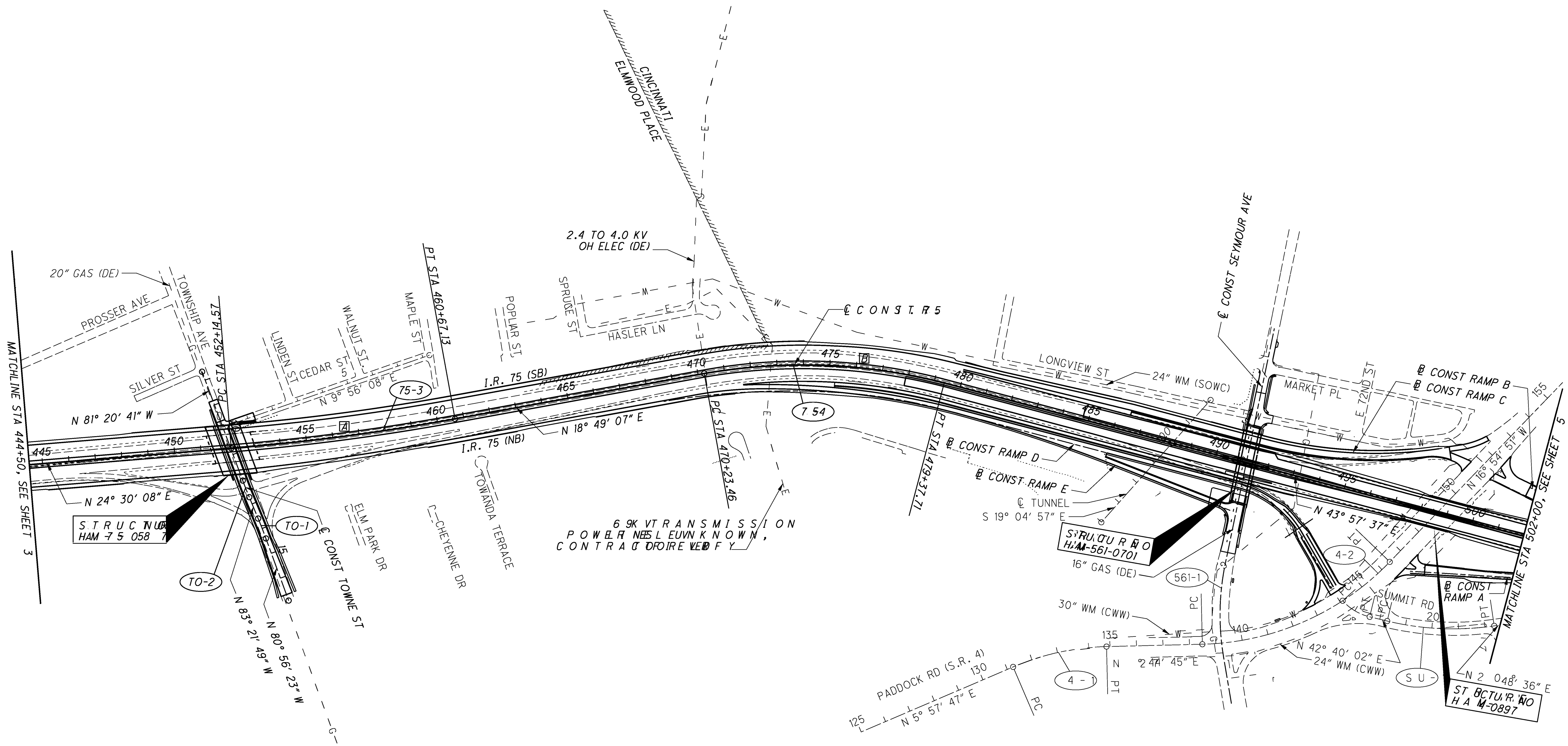
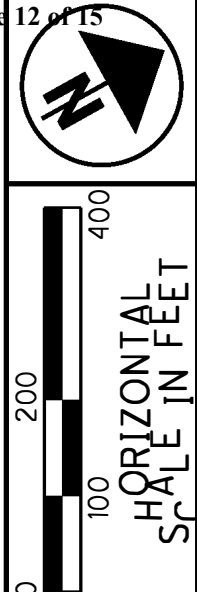
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LIDLAW LANDFILL

dreinke



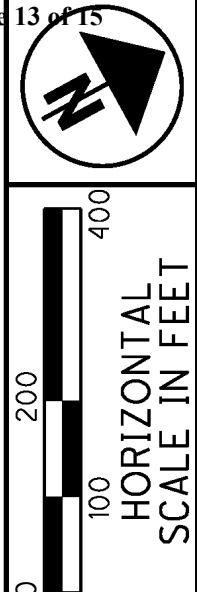
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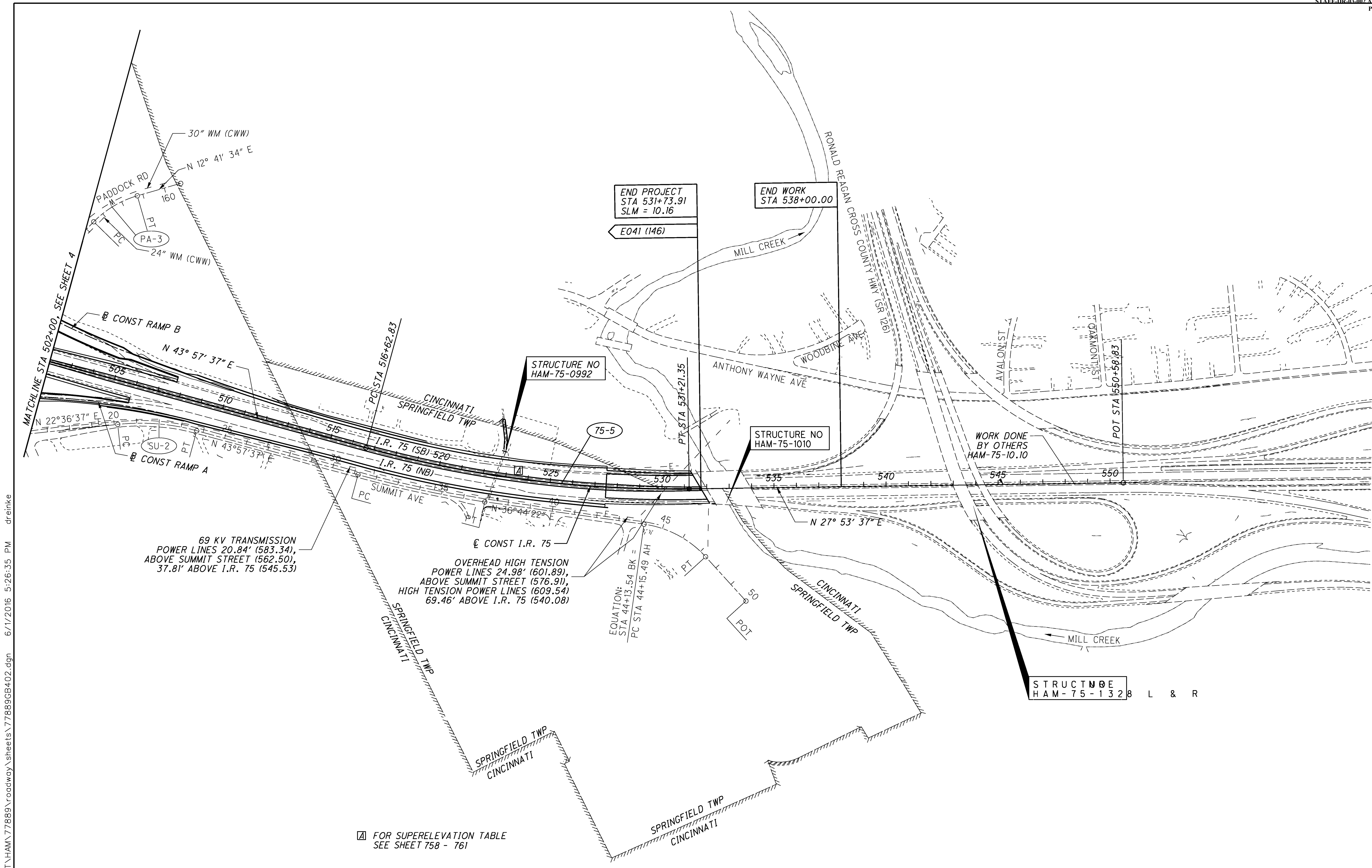
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SCHEMATIC PLAN
I.R. 75

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Duke Energy Ohio
Case No. 19-1471-EL-BLN
Staff sECOND Set of Data Requests
Date Received: October 25, 2019

STAFF-DR-02-004

REQUEST:

The application states Duke anticipates having Cardno (third party investigator) complete an assessment to see if proposed structures would impact cultural resources, namely possible remnants from the Miami and Erie Canals. Please provide a copy of the completed report.

RESPONSE:

The State Historic Preservation Office (SHPO) concurrence letter is attached from the report referred to, stating that the SHPO agrees that the project will not affect historic properties and no further coordination is required unless there is a change in scope.

Please see STAFF-DR-02-004 Attachment 1.

PERSON RESPONSIBLE: Cori Jansing



In reply refer to:
2019-HAM-46235

September 18, 2019

Veronica Parsell
Senior Project Scientist
Cardno, Inc.
3901 Industrial Boulevard
Indianapolis, Indiana 46254

Re: Section 106 Review- Elmwood Place 1-75 Widening Transmission Improvement Project-
Hamilton County, Ohio

Dear Ms. Parsell:

This letter is in response to your report entitled, *Phase I Archaeological Reconnaissance Elmwood Place 1-75 Widening Transmission Improvement Project, Hamilton County, Ohio*, received September 5, 2019. The comments of the State Historic Preservation Office (SHPO) are made in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended, and the associated regulations at 36 CFR Part 800.

The project involves the relocation and replacement of 46 transmission poles to facilitate the widening of I-75 in the City of Cincinnati. The archaeological survey did not identify any archaeological sites within the area of potential effects. Therefore, SHPO agrees that the proposed undertaking will not affect historic properties. No further coordination is required unless the scope of work changes or archaeological materials are discovered during the course of the project.

If you have any questions, please contact me at tgrooms@ohiohistory.org or (614) 298-2000. Thank you for your cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Thomas Grooms".

Thomas Grooms, Archaeology Transportation Reviews Manager
State Historic Preservation Office

Serial No. 1080634

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/9/2020 2:18:52 PM

in

Case No(s). 19-1471-EL-BLN

Summary: Correspondence Duke Energy Ohio, Inc.'s Response to Staff Data Request 03-002
electronically filed by Carys Cochern on behalf of Duke Energy