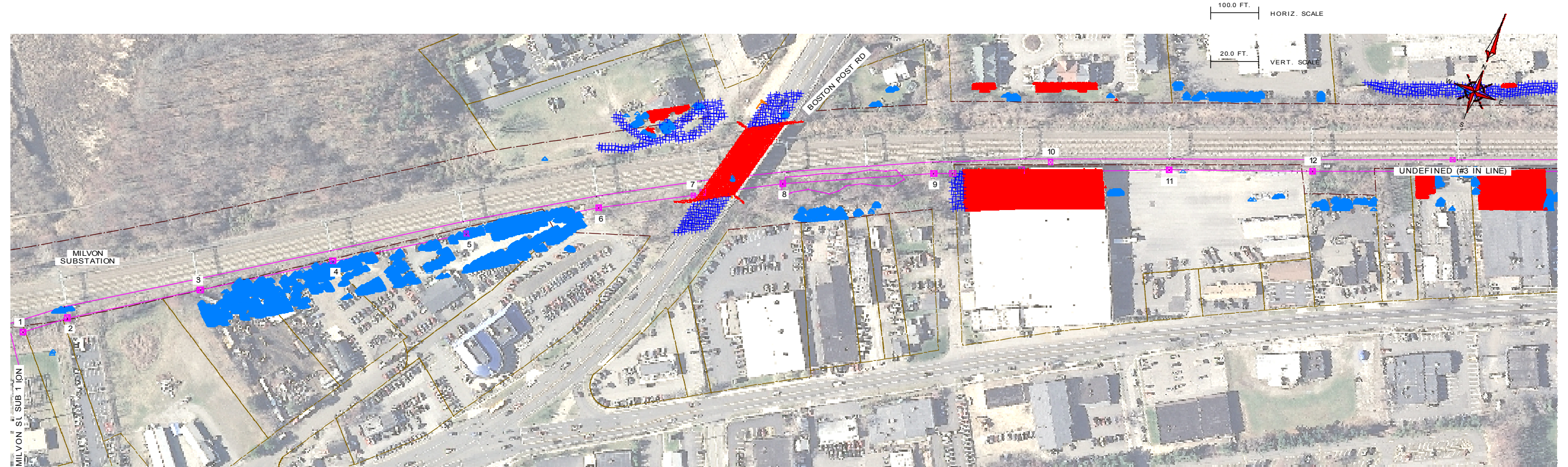
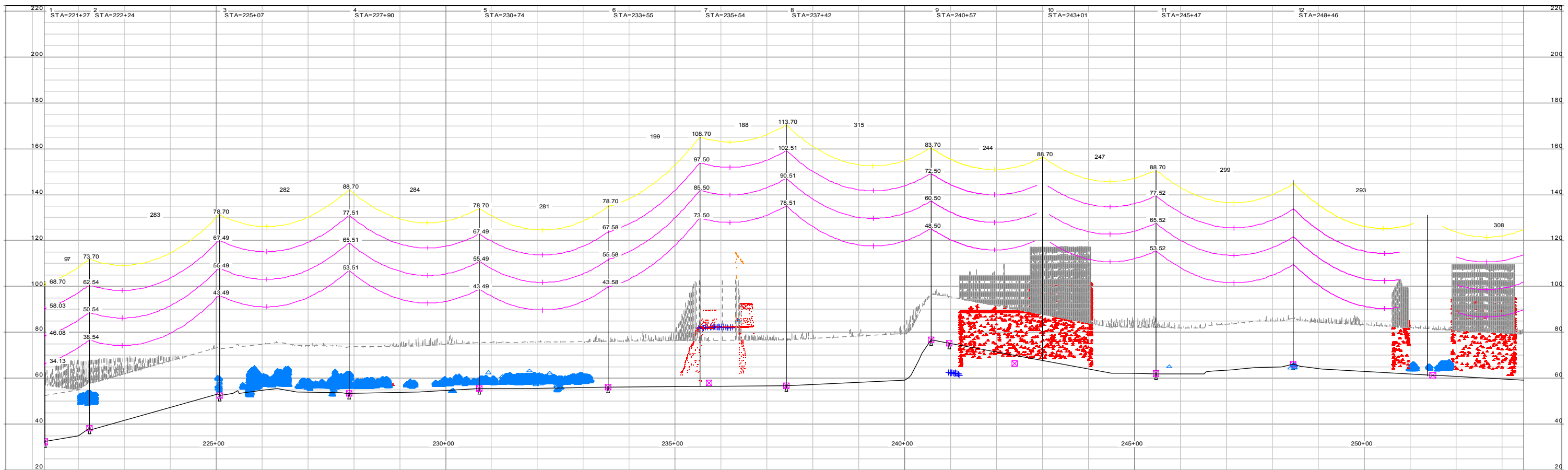




**APPENDIX D.1.2**  
**MWR ALTERNATIVE 2 CONCEPTUAL**  
**DESIGN DRAWINGS**



REFERENCE DRAWING  
LATTICE MODIFICATIONS: 15213-591C

GENERAL NOTES:  
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<b>BLACK &amp; VEATCH</b> <i>Building on the edge of difference</i>	
DESIGNER	DRAWN
CHECKED	DATE 9/29/2017
PROJECT #	195880

A	NO	DATE	REVISION	DRN	DESN	CHKD	SUPR.
		09/29/17	ISSUE FOR REVIEW				

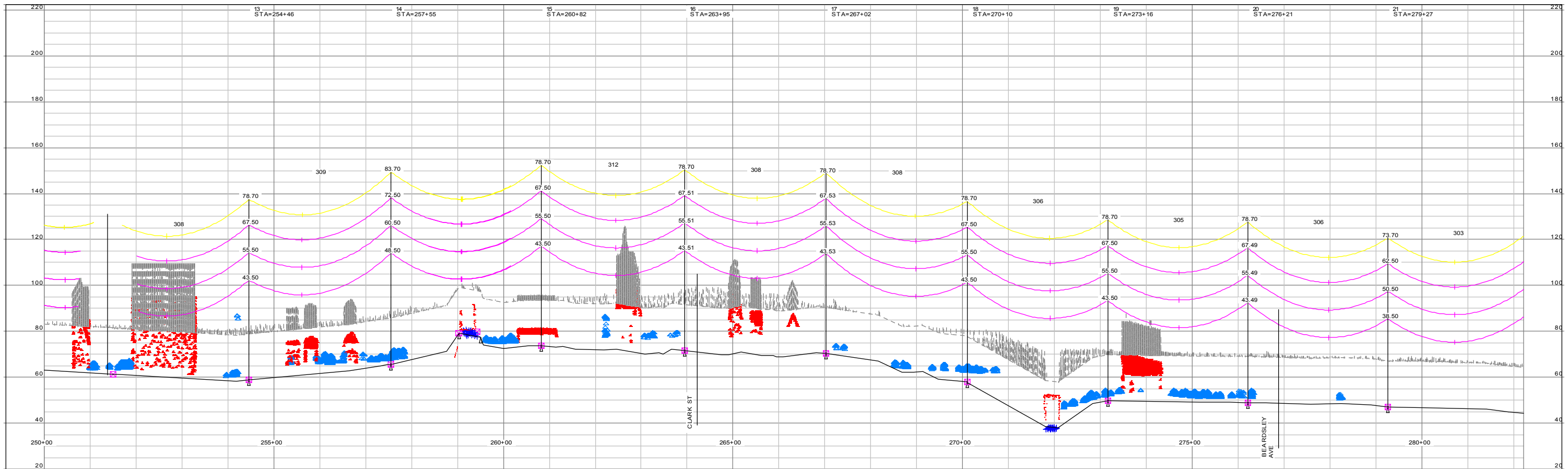
NOTES:  
 SHIELD WIRE  
 FRYSMAN OPGW 64K7S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSR "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 406	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

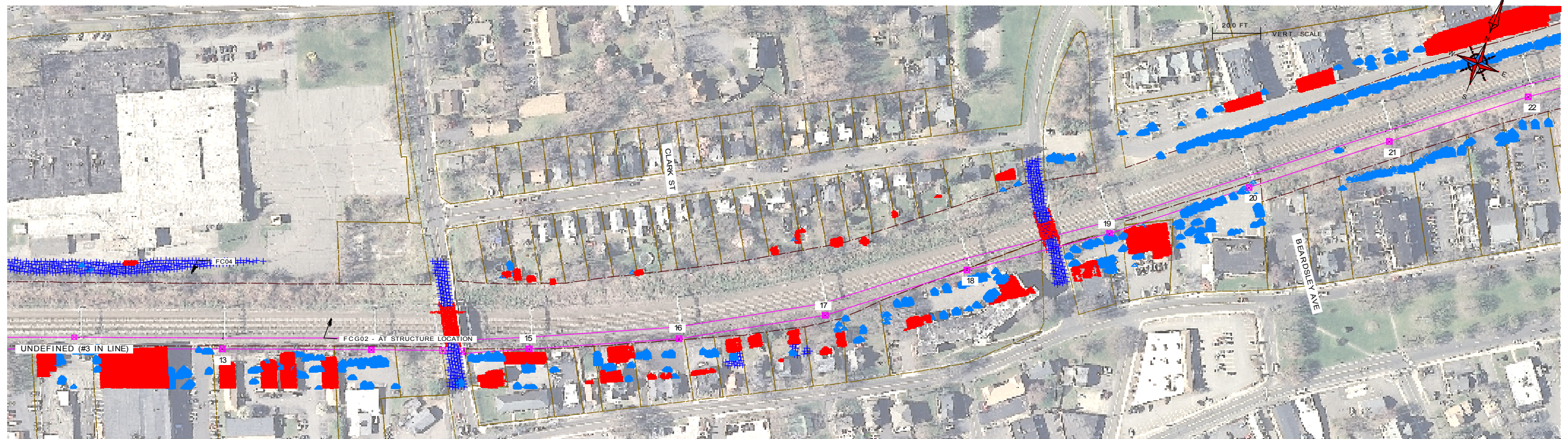
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Chkd.	Design Engr.	Design Supv.

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-1



100.0 FT. HORIZ. SCALE



REFERENCE DRAWING  
LATTICE MODIFICATIONS: 15213-591C

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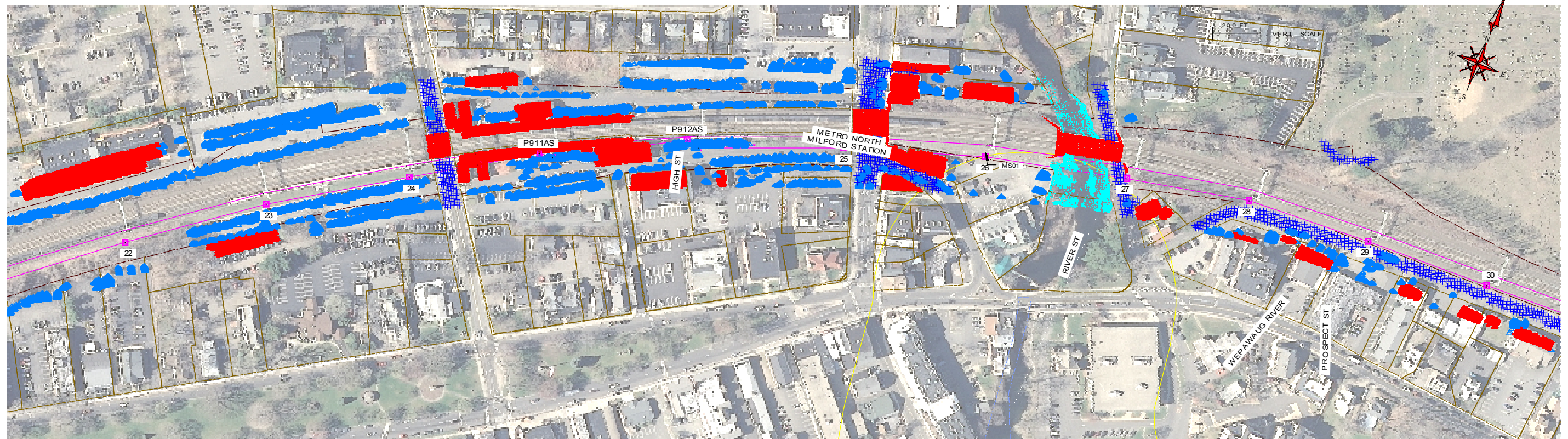
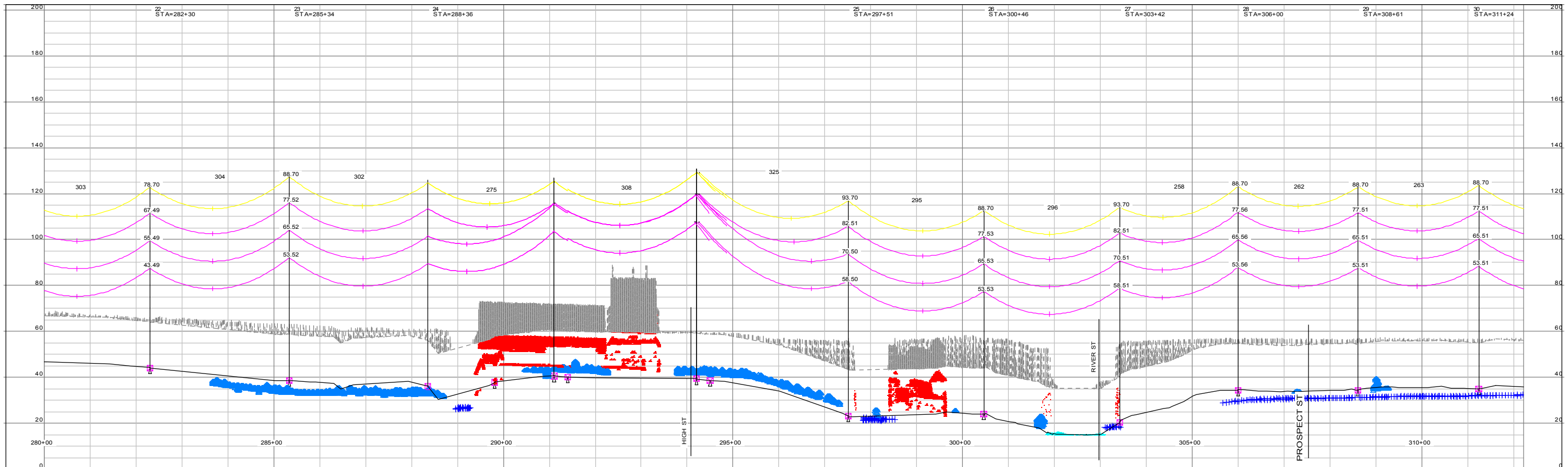
NOTES:  
SHIELD WIRE  
FRYSMIAN OPGW 64K7S  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)  
CONDUCTOR:  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

Page 107	Revision	By	Chkd.	Engr.	Supv.
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Chkd.: \_\_\_\_\_ Design Engr.: \_\_\_\_\_ Design Supv.: \_\_\_\_\_

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-2



REFERENCE DRAWING  
LATTICE MODIFICATIONS: 15213-591C

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	H	11/18/14	REVISED LOCATION OF STRUCTURE P911AS	EJ	WDA
	DESIGNER	DRAWN			
	CHECKED	DATE	9/29/2017		
	PROJECT #	195880			
A	09/29/17	ISSUE FOR REVIEW			
NO.	DATE	REVISION	DRN	DESN	CHKD SUPR.

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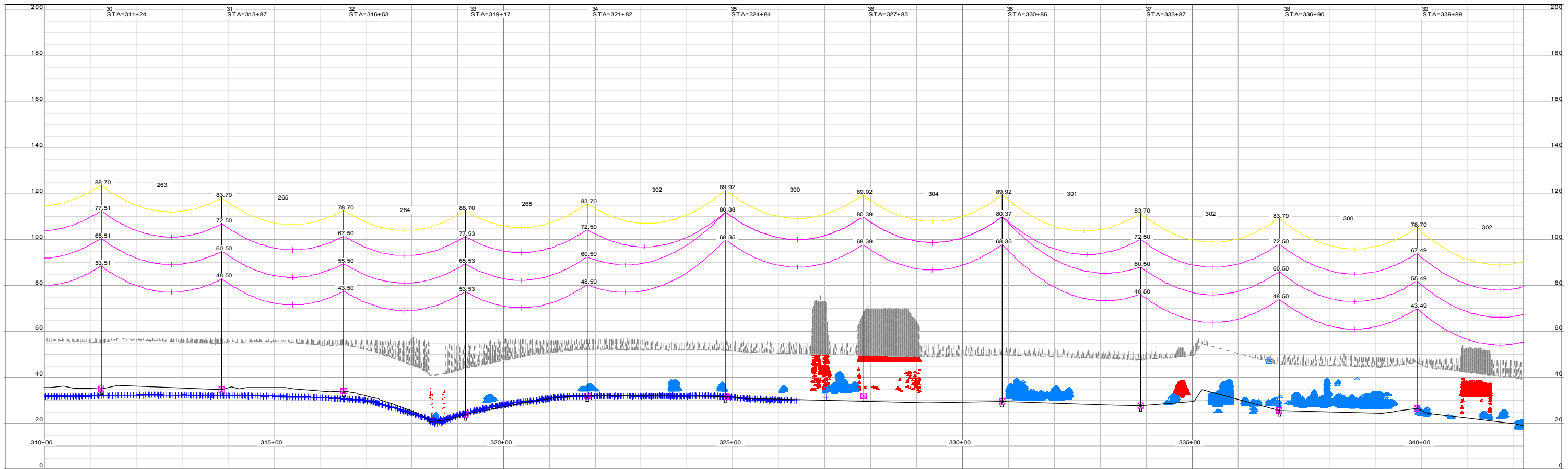
SHIELD WIRE  
FRYSMIAN OPGW 64K-775  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)

CONDUCTOR  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

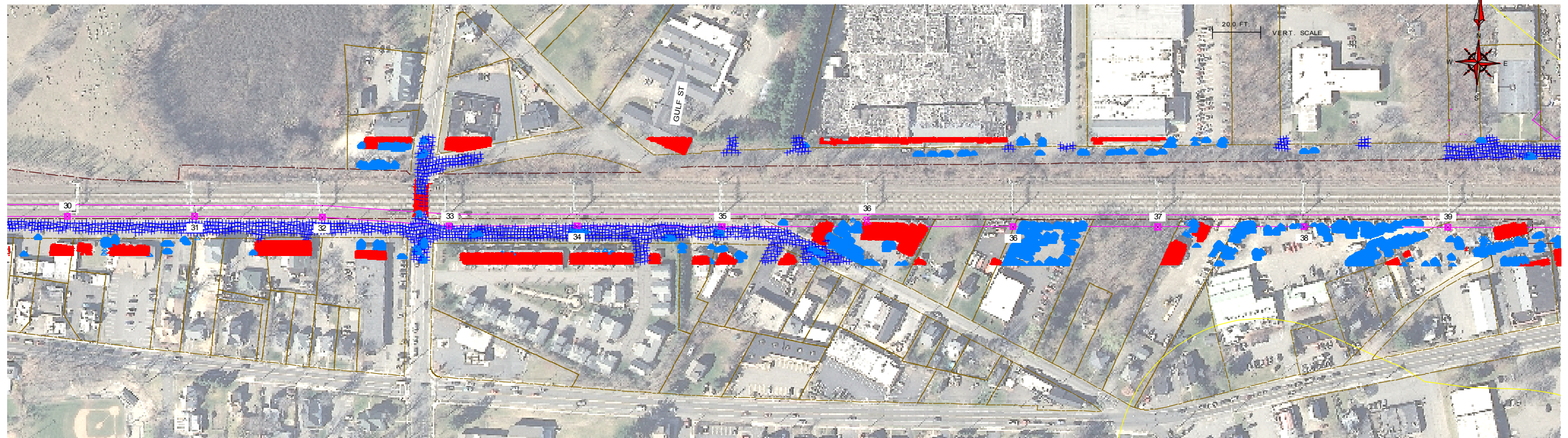
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B&V Project: 197505					

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89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-3



100.0 FT. HORIZ. SCALE



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LATTICE MODIFICATIONS: 15213-591C

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PROJECT #	195880

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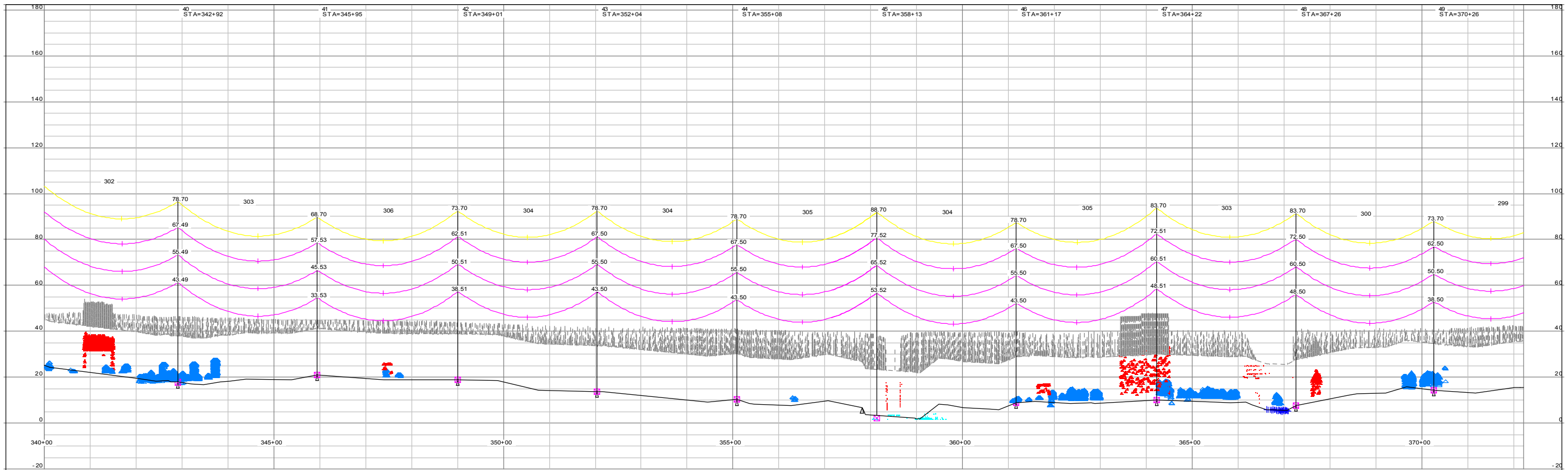
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FRYSMIAN OPGW 64K75  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)  
CONDUCTOR:  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

Page 400	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

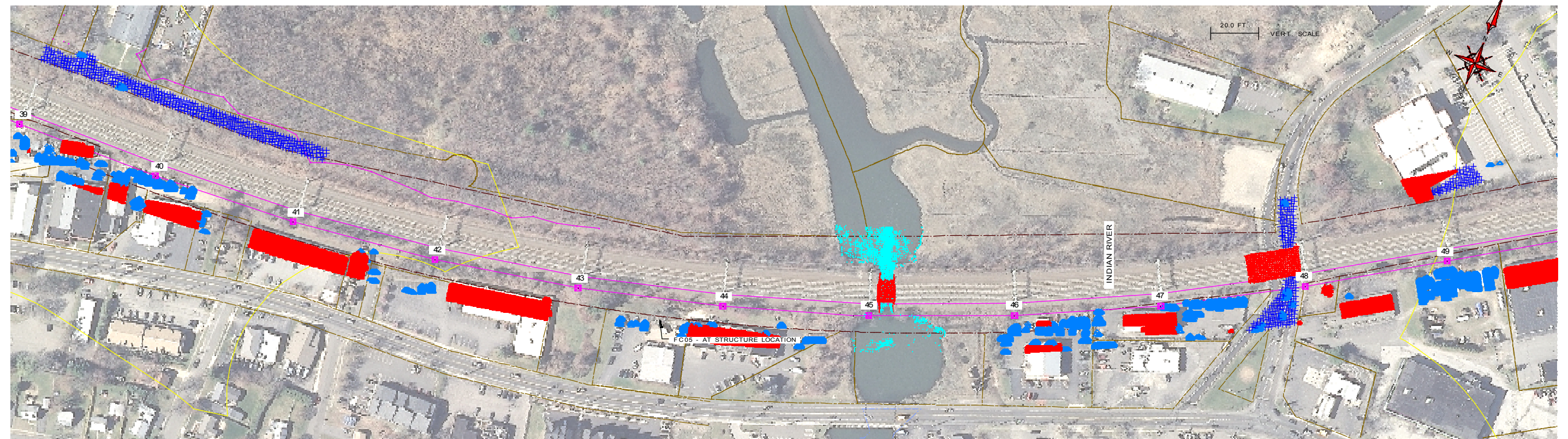


89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER

Drawn	Date	Scale:
Chkd.	Design Engr.	Design Supv.



100.0 FT. HORIZ. SCALE



20.0 FT. VERT. SCALE

REFERENCE DRAWING  
LATTICE MODIFICATIONS: 15213-591C

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CHECKED	DATE 9/29/2017
PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
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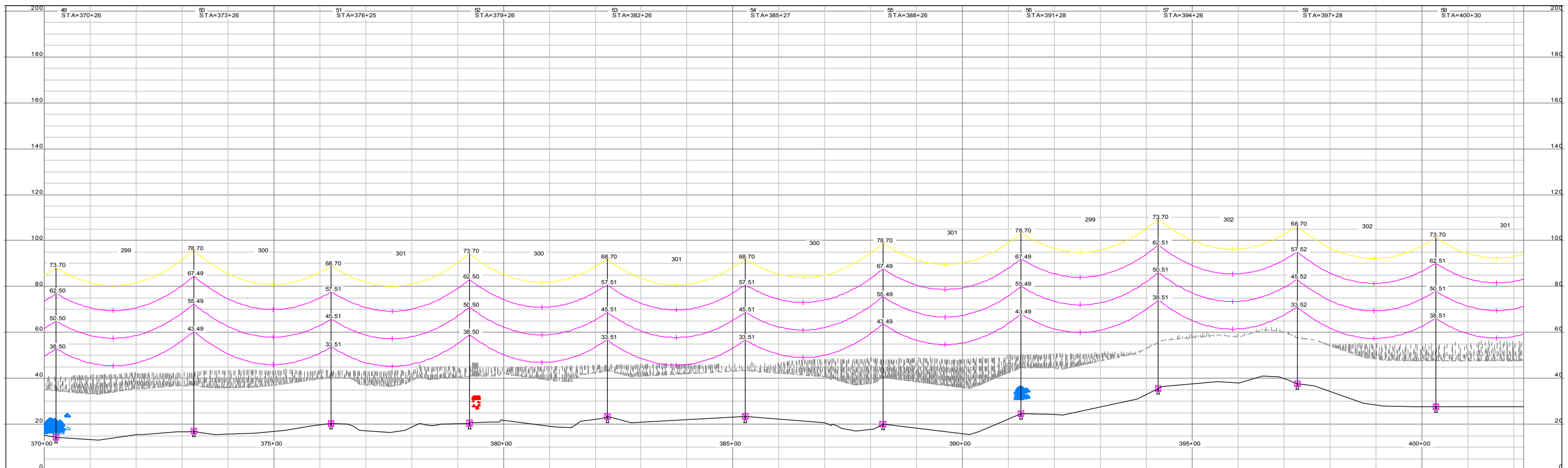
NOTES:  
 SHIELD WIRE:  
 FRYSMIAN OPGW 64K-775  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSR "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 200	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

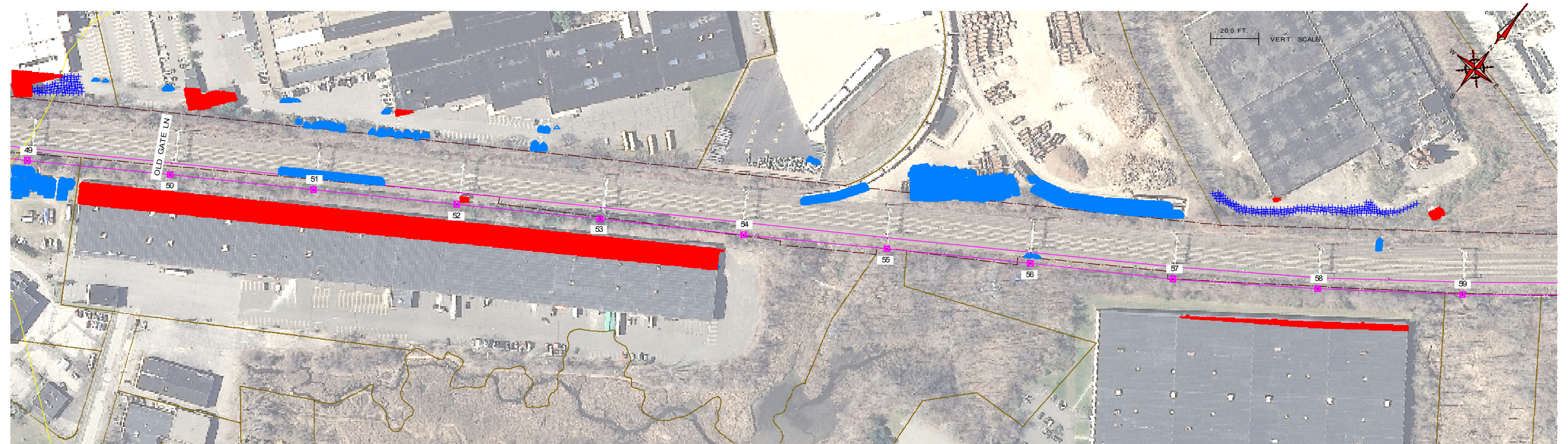
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Chkd.	Design Engr.	Design Supv.

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-5



100.0 FT. HORIZ. SCALE



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LATTICE MODIFICATIONS: 15213-591C

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PROJECT #	195880

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A	09/29/17	ISSUE FOR REVIEW				

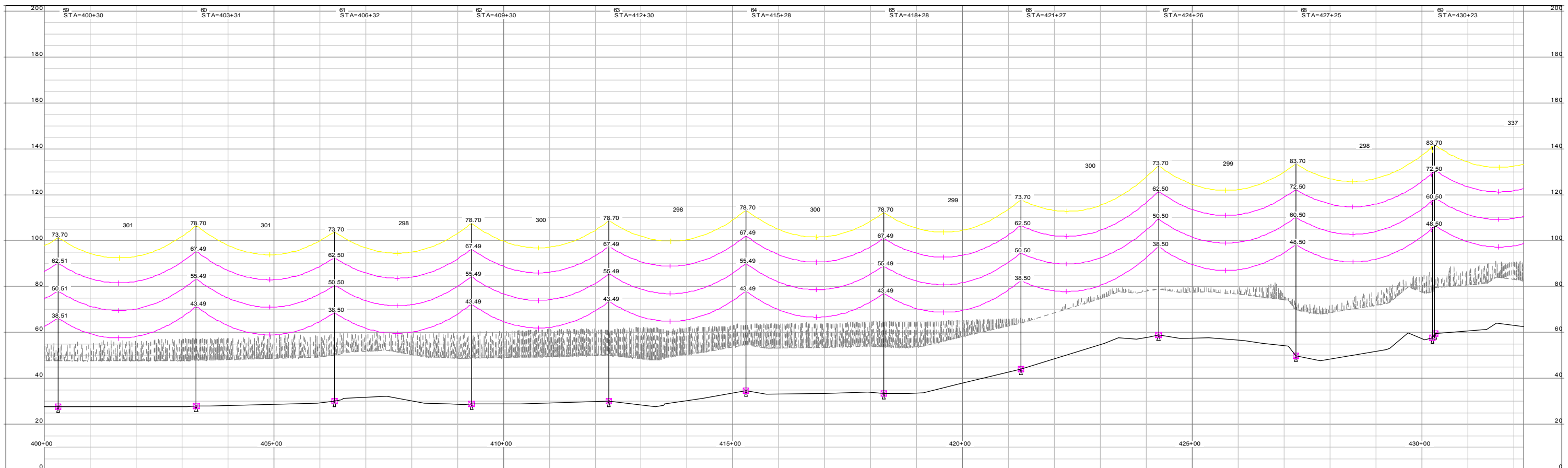
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SHIELD WIRE:  
FRYSMIAN OPGW 64K75  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)  
CONDUCTOR:  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

Page 201	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

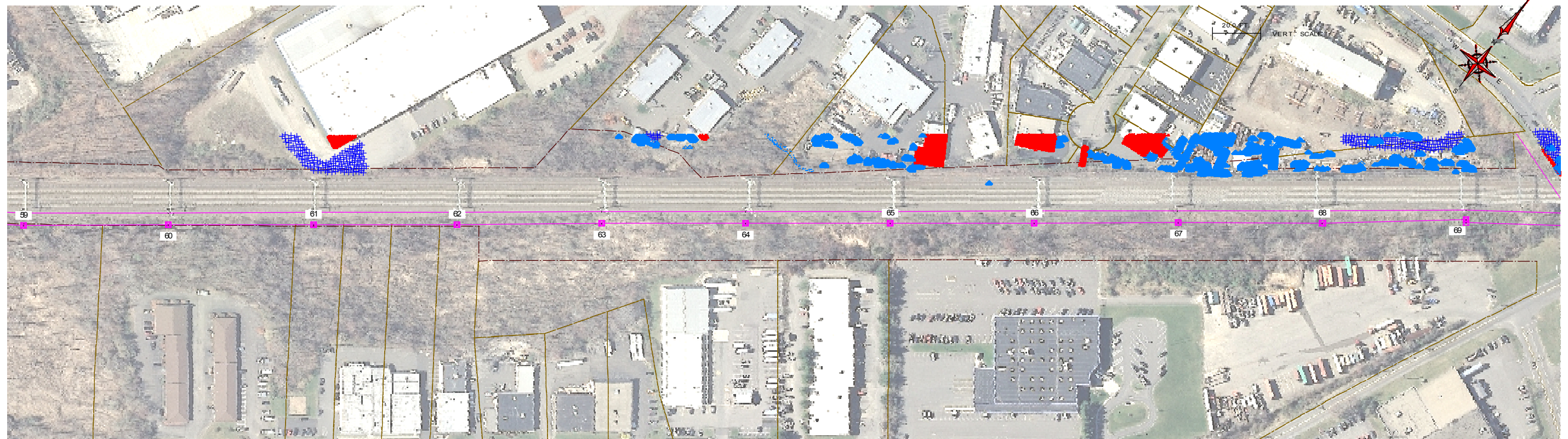
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Drawn	Date	Scale:
Chkd.	Design Engr.	Design Supv.

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-6



100.0 FT. HORIZ. SCALE



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LATTICE MODIFICATIONS: 15213-591C

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CHECKED	DATE 9/29/2017
PROJECT #	195880

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		09/29/17	ISSUE FOR REVIEW				

NOTES:  
SHIELD WIRE:  
FRYSMIAN OPGW 64K-75  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)  
CONDUCTOR:  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

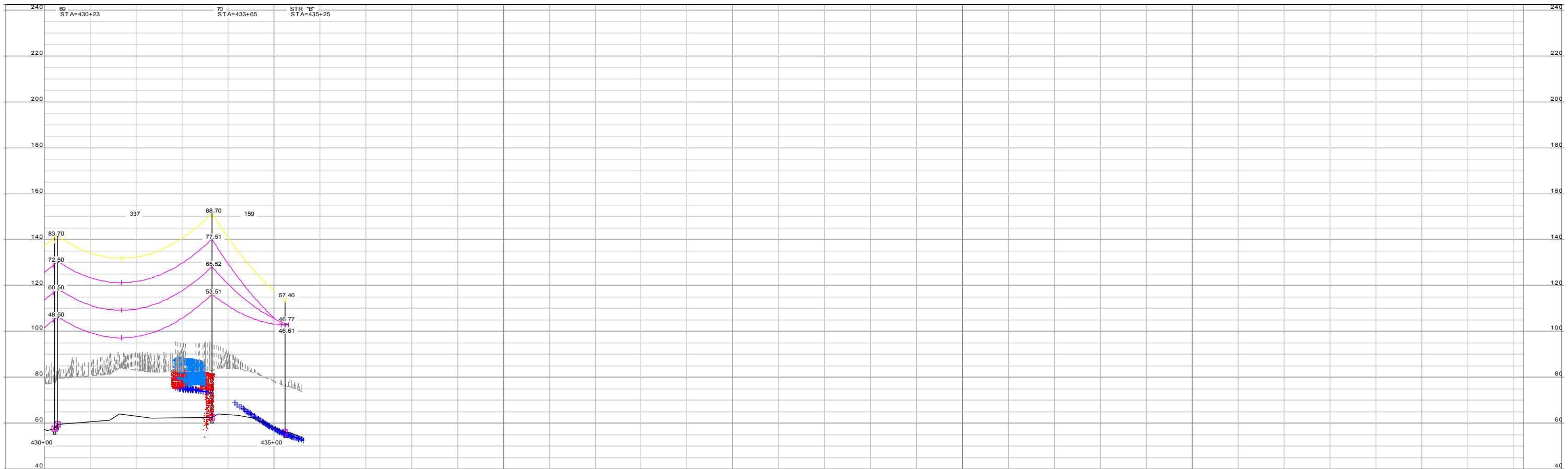
Page 202	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

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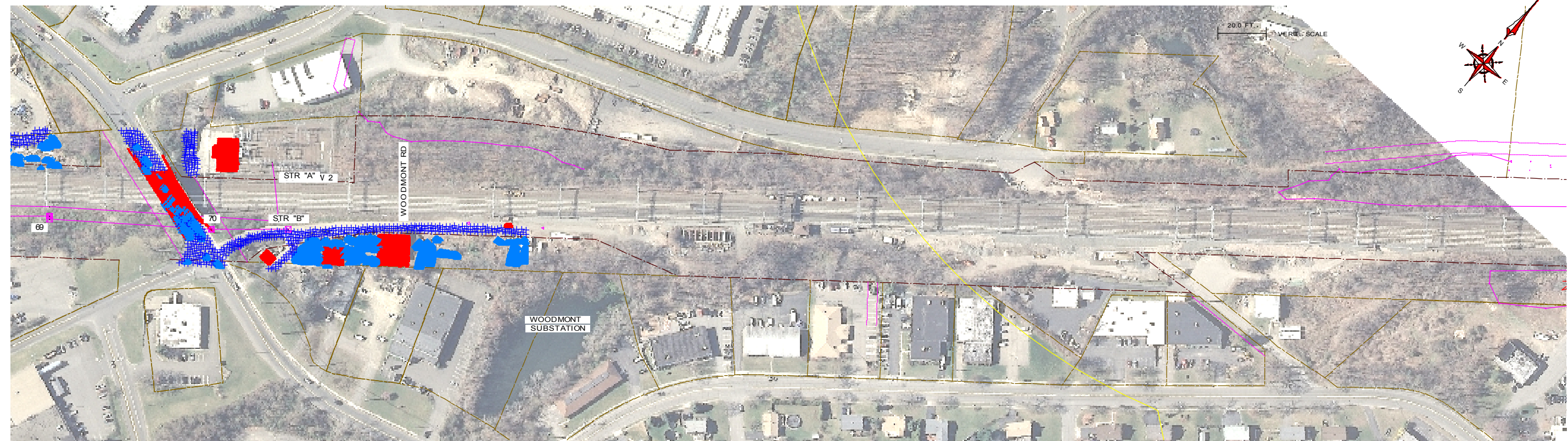
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Chkd.: \_\_\_\_\_ Design Engr.: \_\_\_\_\_ Design Supv.: \_\_\_\_\_

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-7





100.0 FT. HORIZ. SCALE



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LATTICE MODIFICATIONS: 15213-591C

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PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
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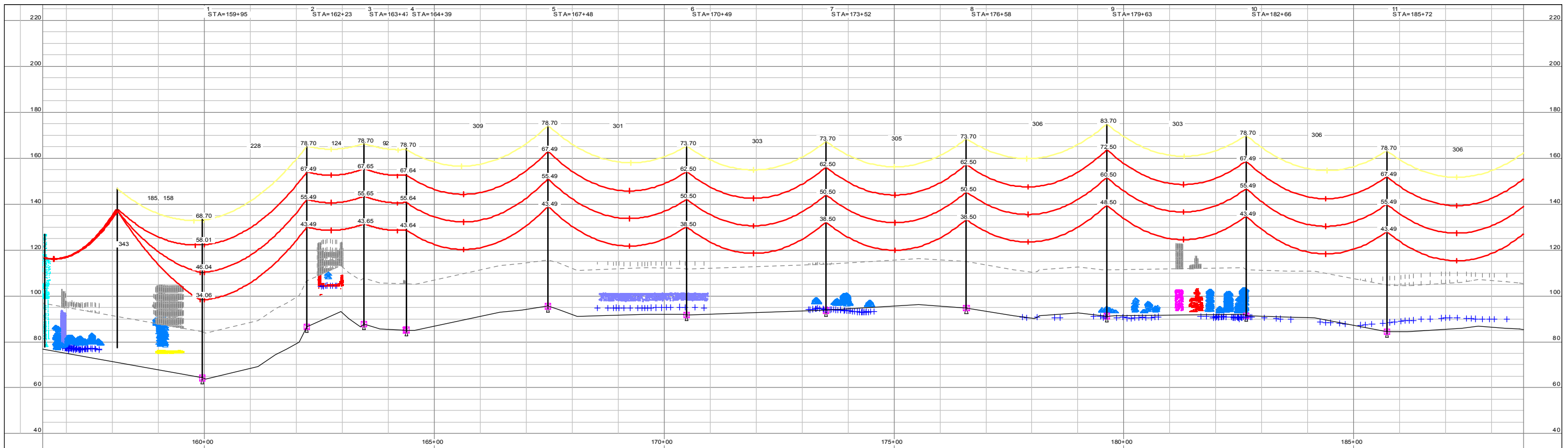
NOTES:  
SHIELD WIRE:  
FRYSMIAN OPGW 64K-775  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB DESIGN TENSION (NESC HEAVY)  
CONDUCTOR:  
2156 KCMIL ACSR "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB DESIGN TENSION (NESC HEAVY)

Page 203	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

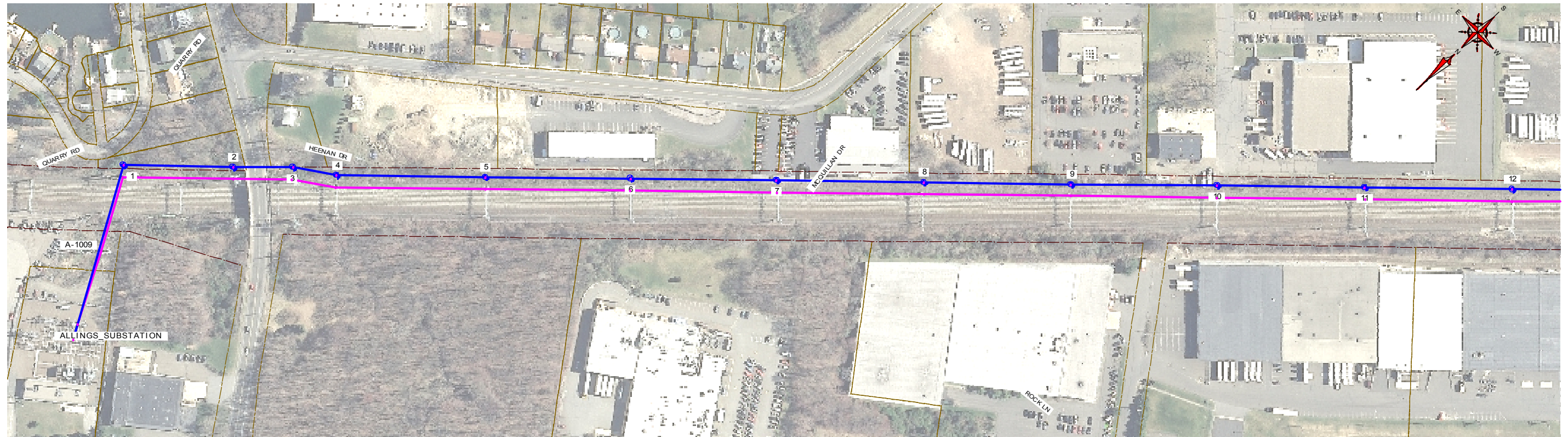
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Chkd.	Design Engr.	Design Supv.

89005B MILVON TO WOODMONT (SOUTH) 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		MW-OP2-8



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PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
A	09/29/17	ISSUE FOR REVIEW				

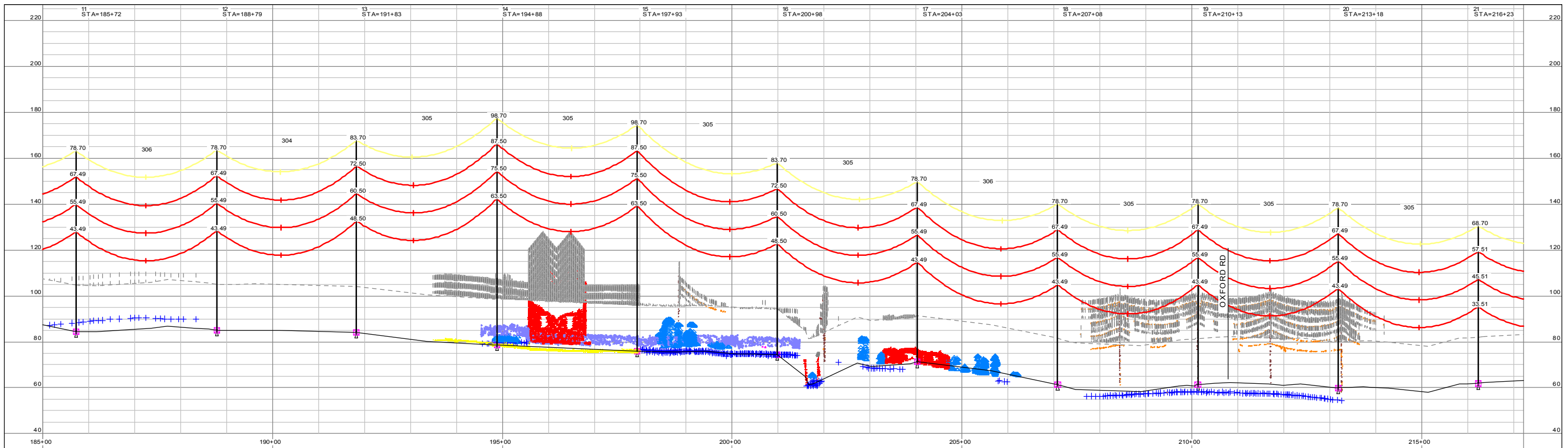
**NOTES:**  
 SHIELD WIRE:  
 PRYSMIAN OPGW 64K/7S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 204	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

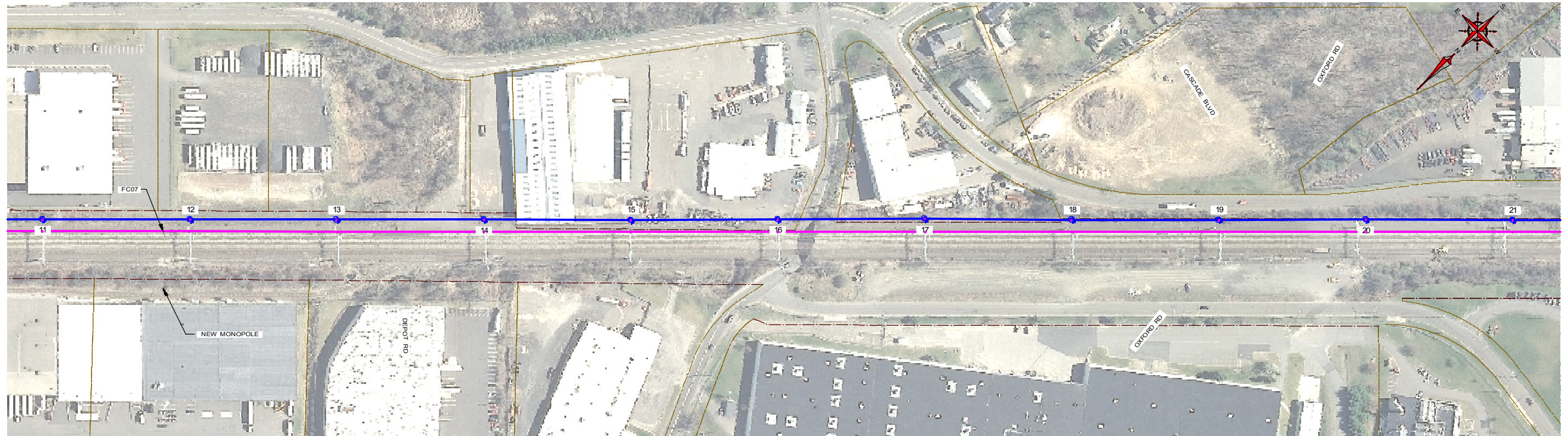


8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-1

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<b>BLACK &amp; VEATCH</b> Building on the edge of difference		H	11/18/14	REVISED LOCATION OF STRUCTURE P968AS	EJ	WDA
DESIGNER	DRAWN					
CHECKED	DATE		09/29/17			
PROJECT #	195880					
A	09/29/17	ISSUE FOR REVIEW				
NO.	DATE	REVISION		DRN	DESN	CHKD SUPR.

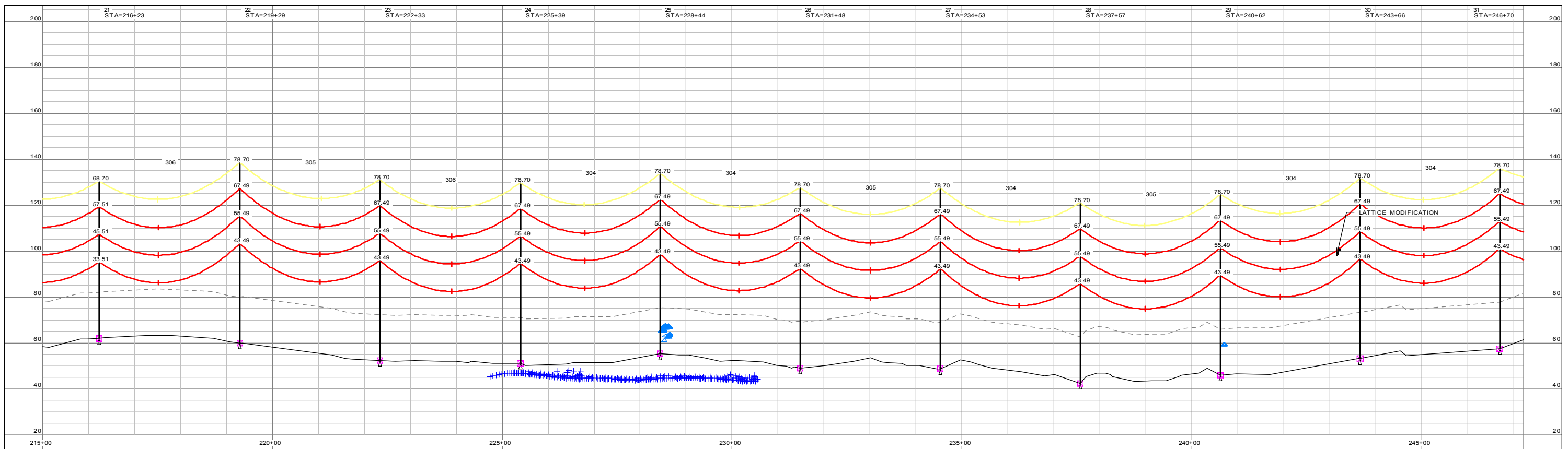
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 SHIELD WIRE:  
 PRYSMIAN OPGW 64K7S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 205	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

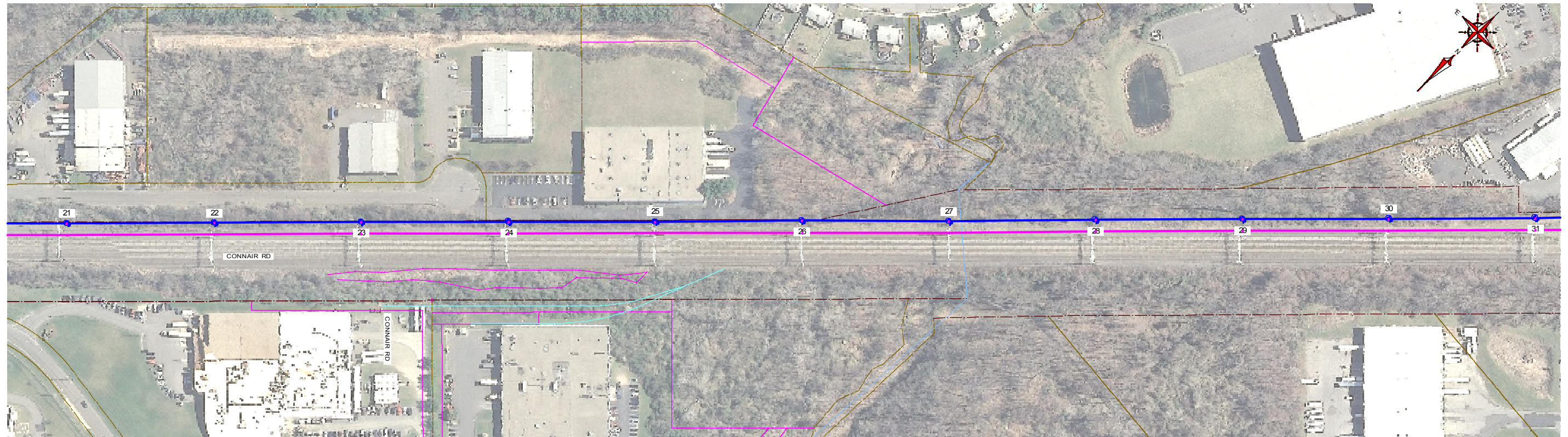


8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-2

Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.



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PROJECT # 195880	

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
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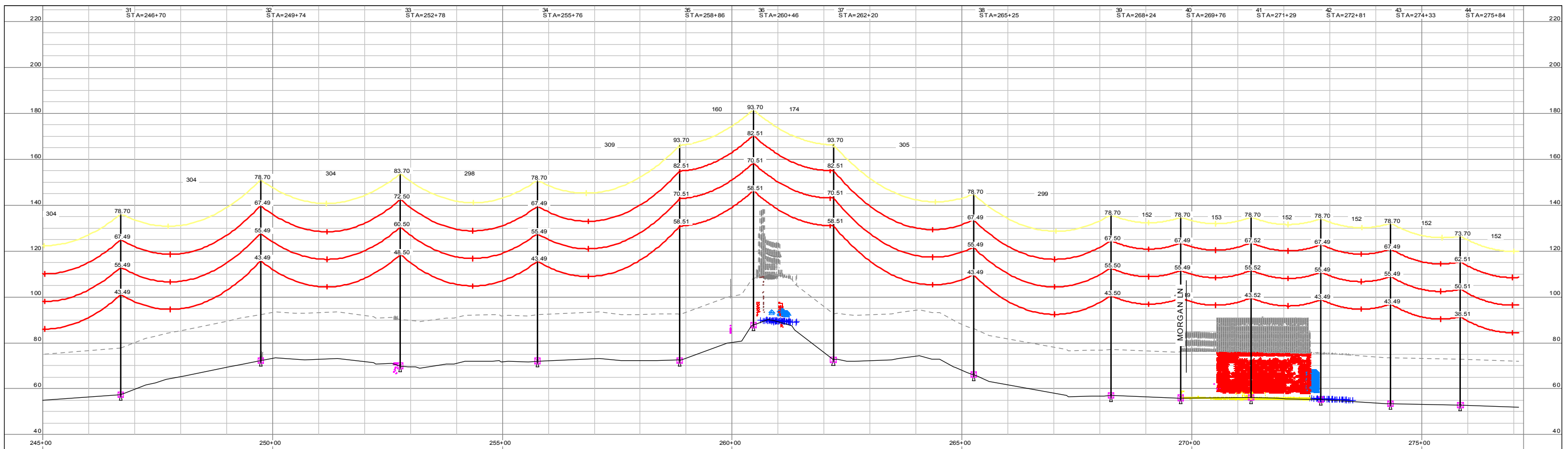
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 SHIELD WIRE:  
 PRYSMIAN OPGW 64K-7S  
 SHOWN AT 60°F, NO WIND, FINAL  
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 CONDUCTOR:  
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 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 206	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

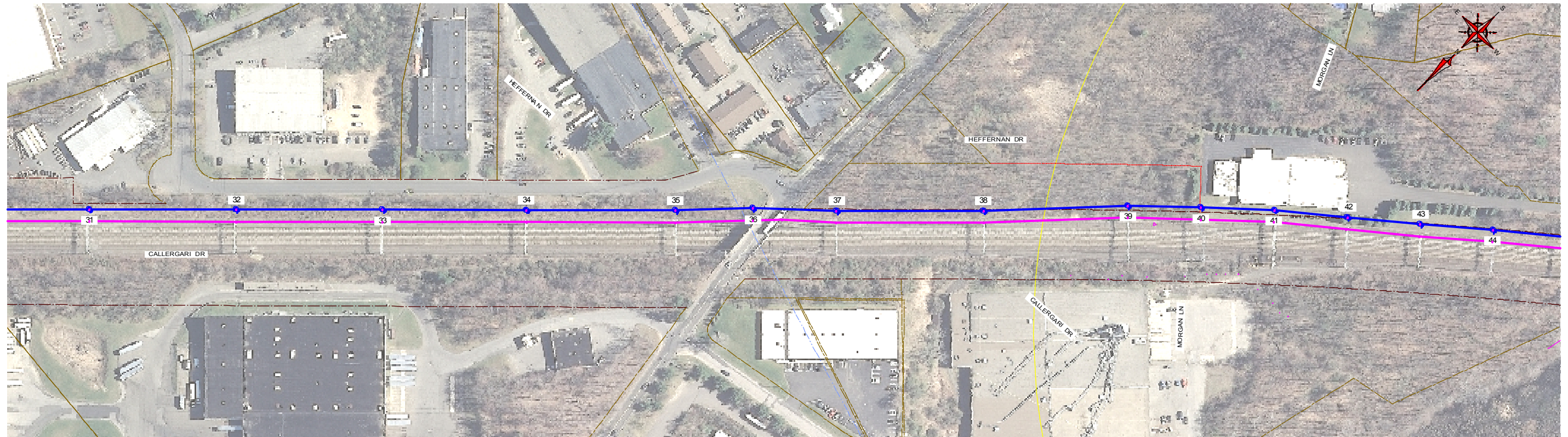


8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-3

Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.



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<b>BLACK &amp; VEATCH</b> Building on a world of difference	
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PROJECT #	195880

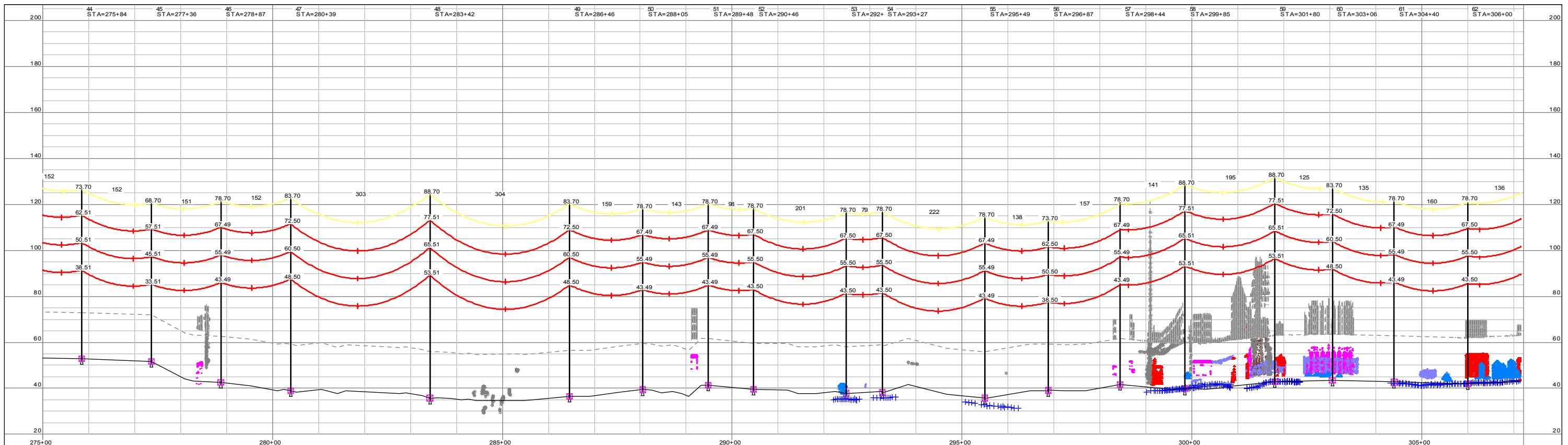
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**NOTES:**  
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 SHOWN AT 392°F, NO WIND, FINAL  
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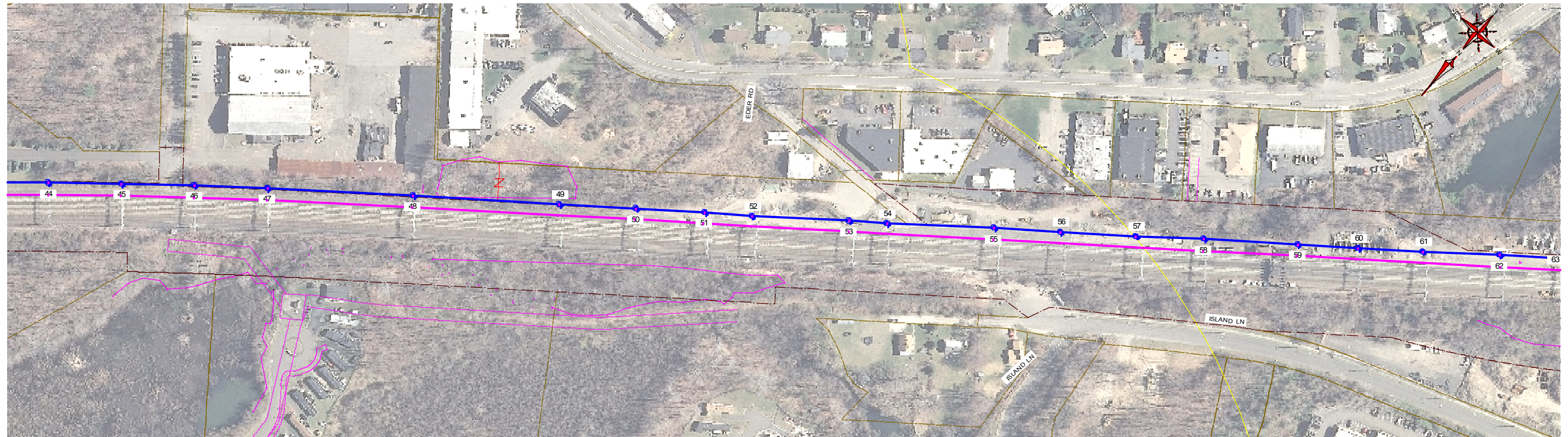
No.	Date	Revision	By	Chkd.	Engr.	Supv.



8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-4



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



**GENERAL NOTES:**  
 1. AERIAL PHOTOGRAPHY IS FOR REFERENCE ONLY. LOCATIONS MAY NOT COINCIDE WITH OTHER INFORMATION ON THE PAGE AS SEEN IN THE FIELD.  
 2. WIRE ATTACHMENT ELEVATIONS ARE BASED ON SURVEY ELEVATIONS.  
 3. POSITIVE LONGITUDINAL OFFSET SIGNIFIES THE PROPOSED MONOPOLE IS AHEAD SPAN FROM THE EXISTING CATENARY POST.



DESIGNER	DRAWN
CHECKED	DATE 09/29/17
PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
A	09/29/17	ISSUE FOR REVIEW				

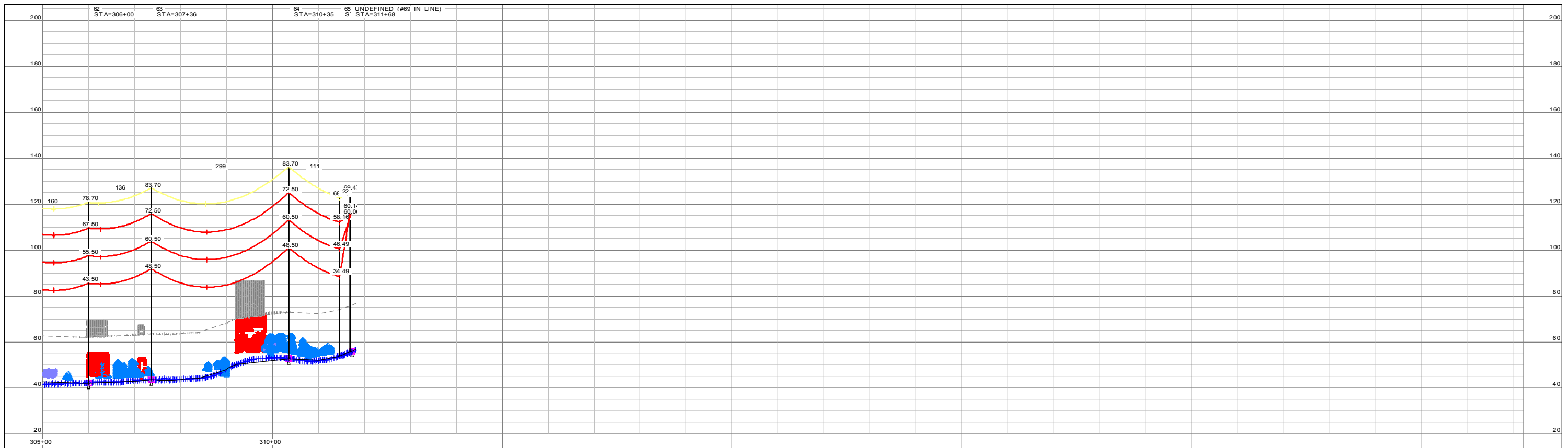
**NOTES:**  
 SHIELD WIRE  
 PRYSMIAN OPGW 64K/7S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

No.	Date	Revision	By	Chkd.	Engr.	Supv.



Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.

8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-5



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



**GENERAL NOTES:**  
 1. AERIAL PHOTOGRAPHY IS FOR REFERENCE ONLY. LOCATIONS MAY NOT COINCIDE WITH OTHER INFORMATION ON THE PAGE AS SEEN IN THE FIELD.  
 2. WIRE ATTACHMENT ELEVATIONS ARE BASED ON SURVEY ELEVATIONS.  
 3. POSITIVE LONGITUDINAL OFFSET SIGNIFIES THE PROPOSED MONOPOLE IS AHEAD SPAN FROM THE EXISTING CATENARY POST.



DESIGNER	DRAWN
CHECKED	DATE 09/29/17
PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
A	09/29/17	ISSUE FOR REVIEW				

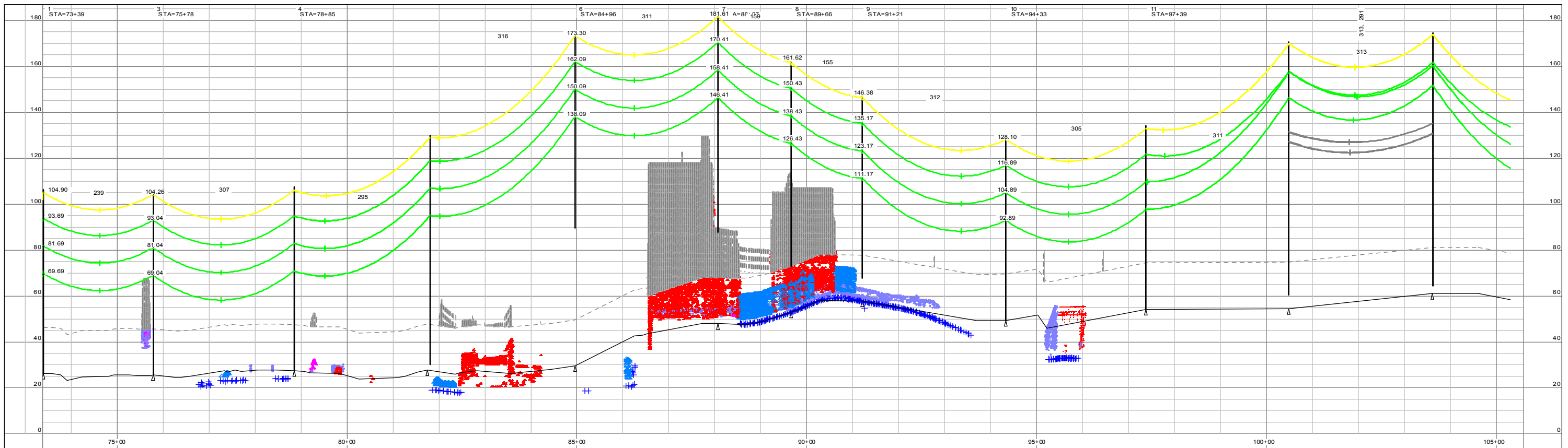
**NOTES:**  
 SHIELD WIRE:  
 PRYSMIAN OPGW 64K/7S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

Page 200	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

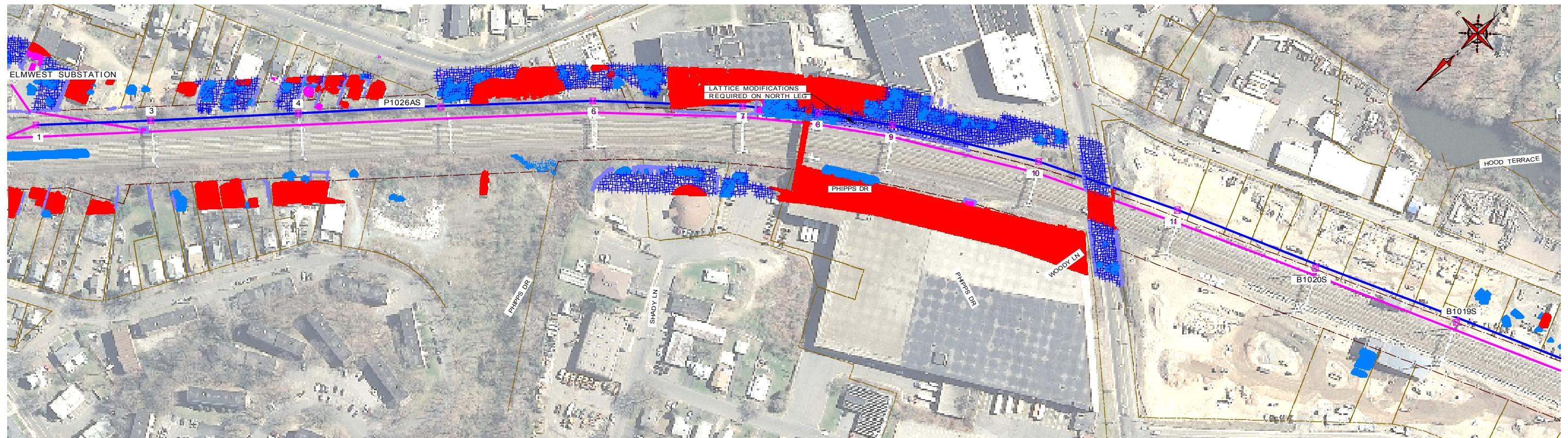


8904B - ALLINGS CROSSING TO WOODMONT 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AW-OP2-6

Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.



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



**GENERAL NOTES:**  
 1. AERIAL PHOTOGRAPHY IS FOR REFERENCE ONLY. LOCATIONS MAY NOT COINCIDE WITH OTHER INFORMATION ON THE PAGE AS SEEN IN THE FIELD.  
 2. WIRE ATTACHMENT ELEVATIONS ARE BASED ON SURVEY ELEVATIONS.  
 3. POSITIVE LONGITUDINAL OFFSET SIGNIFIES THE PROPOSED MONOPOLE IS AHEAD SPAN FROM THE EXISTING CATENARY POST

**NOTES:**  
 SHIELD WIRE  
 PRYSMIAN OPGW 64K77S  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

<b>BLACK &amp; VEATCH</b> Building on a world of difference	
DESIGNER	DRAWN
CHECKED	DATE 9/29/2017
PROJECT #	195880

NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
A	09/29/17	ISSUE FOR REVIEW				

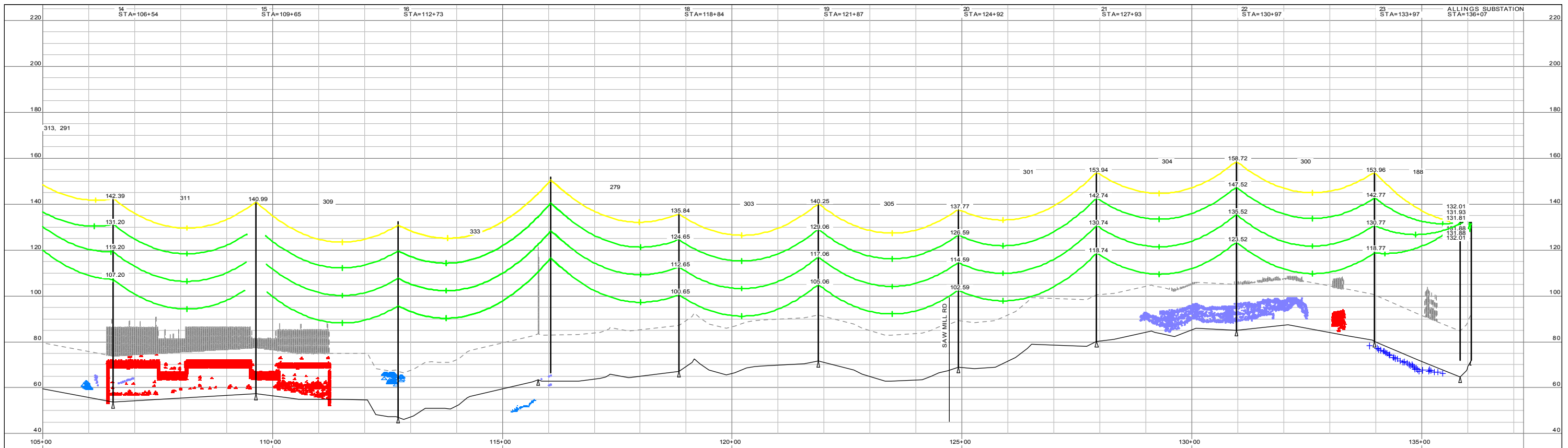
Page 210	Revision	By	Chkd.	Engr.	Supv.
B&V Project: 197505					

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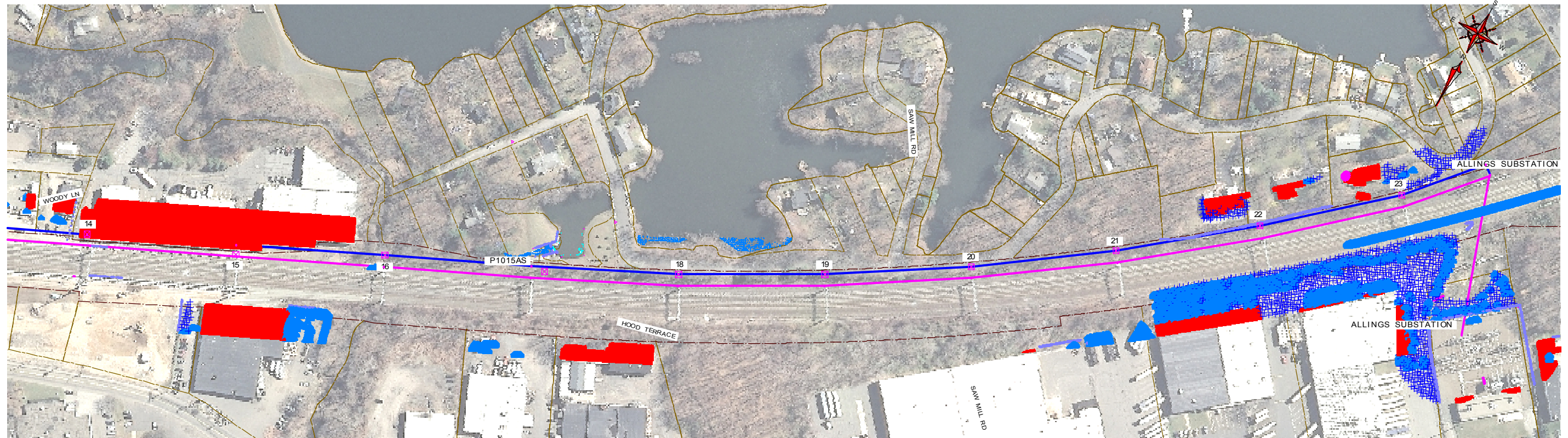
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 Chkd.: \_\_\_\_\_ Design Engr.: \_\_\_\_\_ Design Supv.: \_\_\_\_\_

89003B-3 ELMWEST TO ALLINGS CROSSING 115KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT		
PLAN & PROFILE		
CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AE-OP2-1





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



**GENERAL NOTES:**  
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 2. WIRE ATTACHMENT ELEVATIONS ARE BASED ON SURVEY ELEVATIONS.  
 3. POSITIVE LONGITUDINAL OFFSET SIGNIFIES THE PROPOSED MONOPOLE IS AHEAD SPAN FROM THE EXISTING CATENARY POST

**NOTES:**  
 SHIELD WIRE  
 PRYSMIAN OPGW 64K775  
 SHOWN AT 60°F, NO WIND, FINAL  
 5000 LB DESIGN TENSION (NESC HEAVY)  
 CONDUCTOR:  
 2156 KCMIL ACSS "BLUEBIRD"  
 SHOWN AT 392°F, NO WIND, FINAL  
 9500 LB DESIGN TENSION (NESC HEAVY)

<b>BLACK &amp; VEATCH</b> Building on a world of difference	
DESIGNER	DRAWN
CHECKED	DATE 9/29/2017
PROJECT #	195880

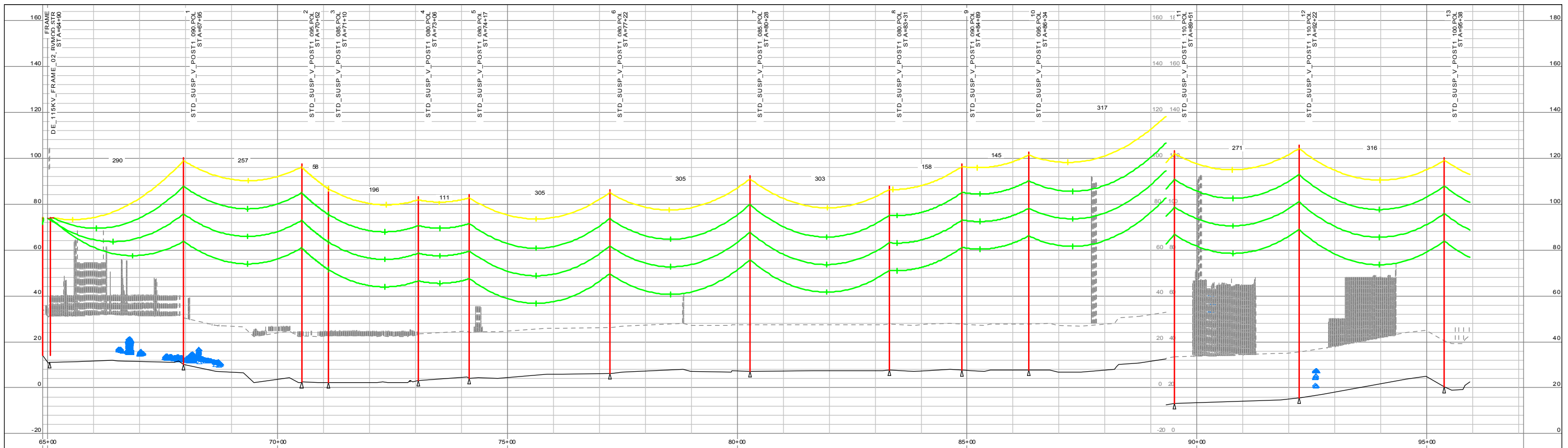
NO.	DATE	REVISION	DRN	DESN	CHKD	SUPR.
A	09/29/17	ISSUE FOR REVIEW				

No.	Date	Revision	By	Chkd.	Engr.	Supv.

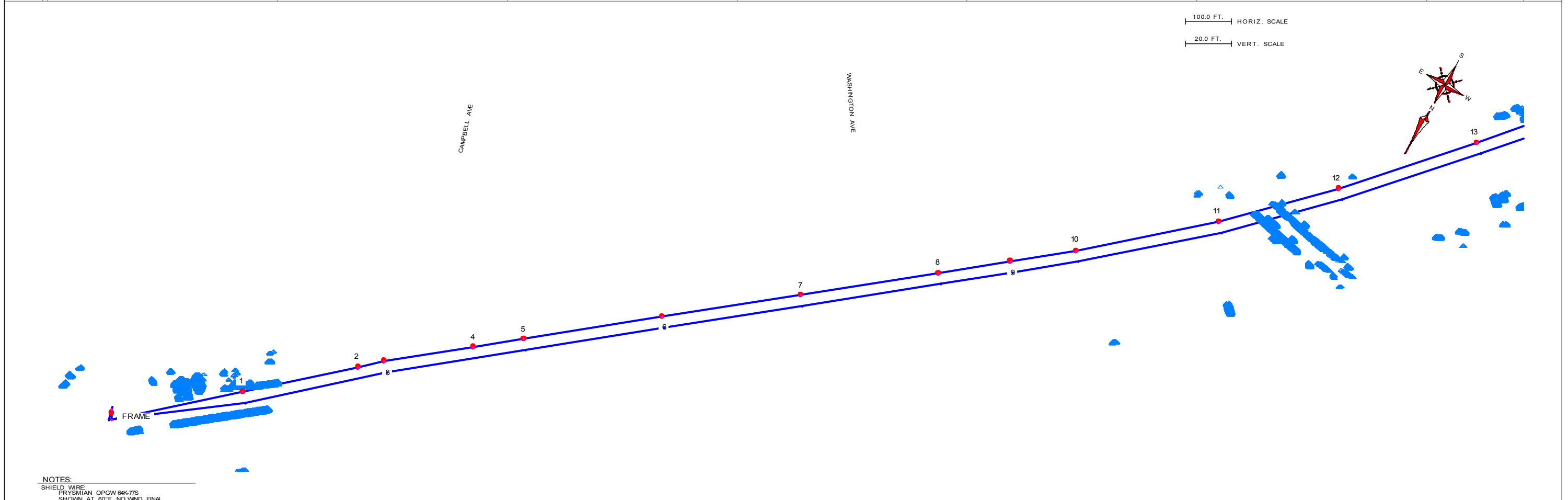
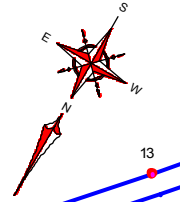
**ui**  
The United Illuminating Company

Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.

CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		AE-OP2-2



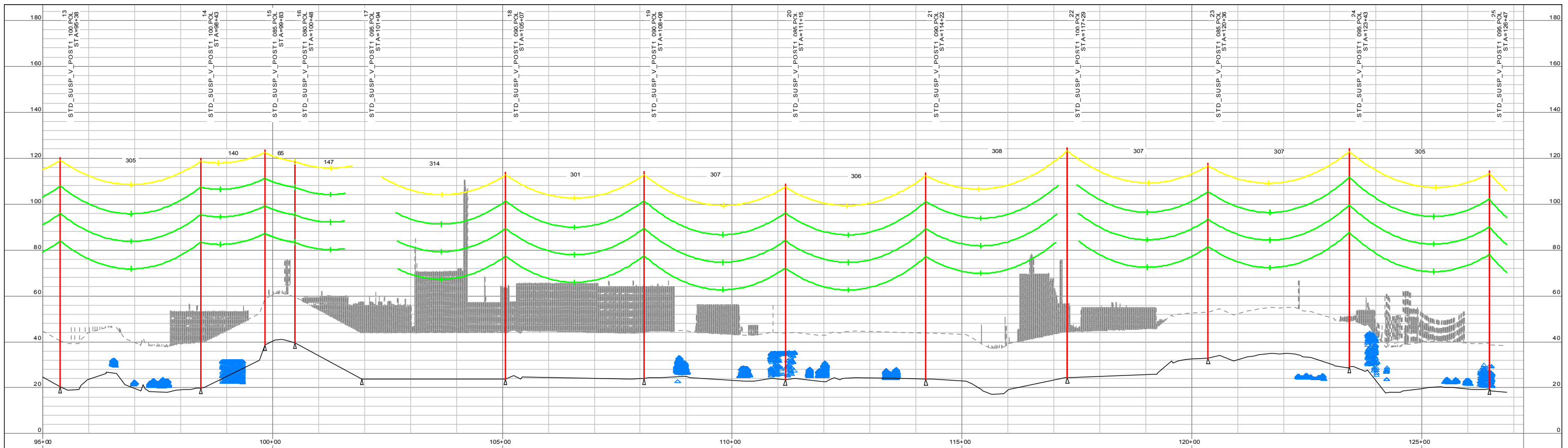
100.0 FT. HORIZ. SCALE  
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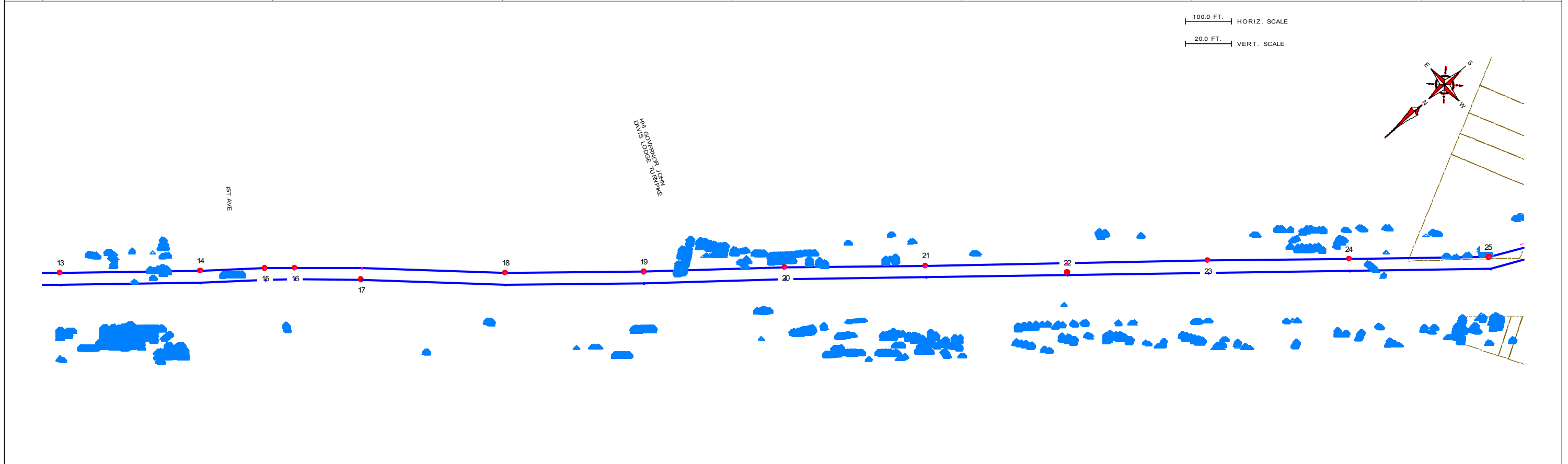
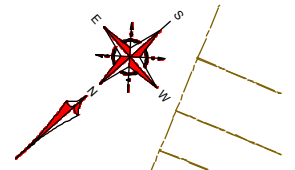
**NOTES:**  
SHIELD WIRE:  
PRYSMIAN OPGW 66-77S  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB AT NESC HEAVY INITIAL

CONDUCTOR:  
2156 KCMIL ACSS "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB AT NESC HEAVY INITIAL

	PROJECT N: 195880	 The United Illuminating Company	89003B-2 - WEST RIVER TO ELMWEST 115 KV TRANSMISSION LINE OPTION 2 - SINGLE CIRCUIT OFFSET SOUTH PLAN & PROFILE		
	DRAWN: BV DESIGNED: APPROVED: CHECKED:		No. _____ Date _____ Revision _____ By: Chkd., Engr., Supv.	Drawn: _____ Date: _____ Design Engr.: _____ Design Supv.: _____	Scale: SEE PLAN CAD FILE NAME: _____ SEQUENCE No.: _____ DRAWING NUMBER: EW-OP2-1



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



**NOTES:**  
SHIELD WIRE:  
PRYSMIAN OPGW 66-77S  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB AT NESC HEAVY INITIAL

CONDUCTOR:  
2156 KCMIL ACSS "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB AT NESC HEAVY INITIAL

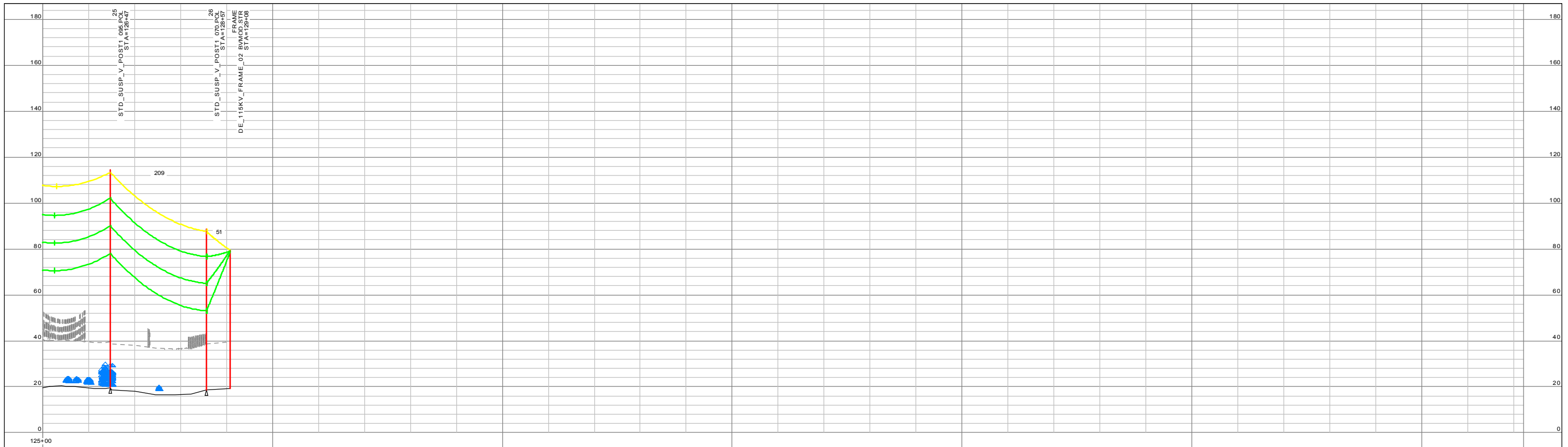
<b>BLACK &amp; VEATCH</b> <i>Building a world of difference</i>	PROJECT NO 195880
DRAWN BV	
DESIGNED	
APPROVED	
CHECKED	

No.	Date	By	Chkd.	Engr.	Supv.
1	08/22/2017	BV			
Revision					

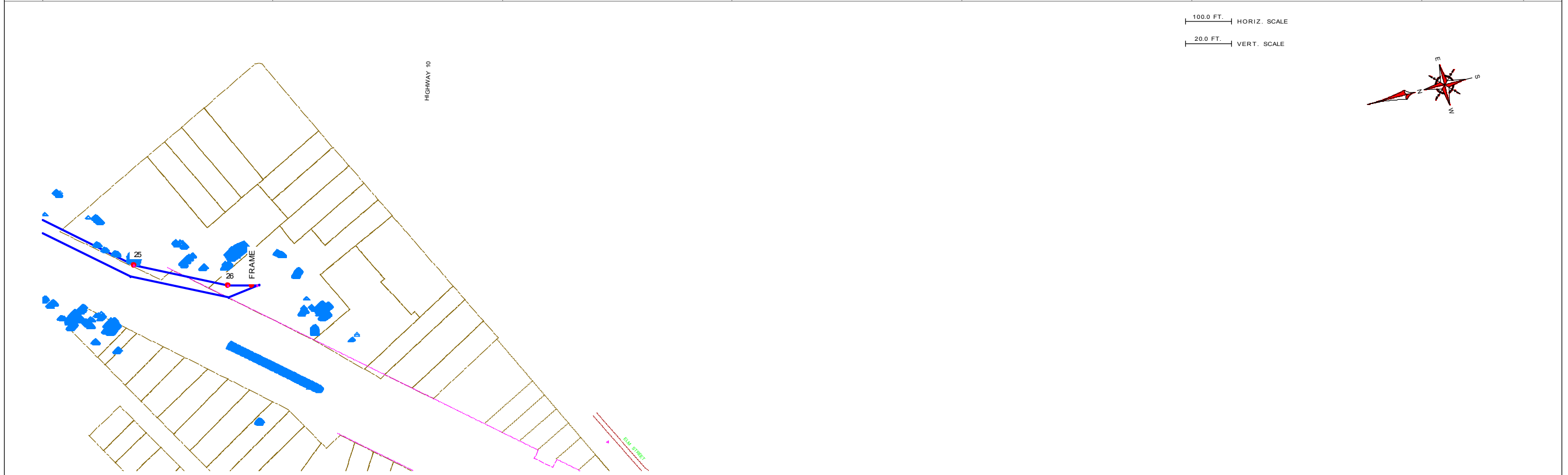
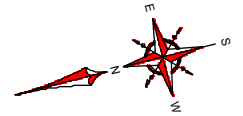


89003B-2 - WEST RIVER TO ELMWEST  
115 KV TRANSMISSION LINE  
OPTION 2 - SINGLE CIRCUIT  
OFFSET SOUTH  
PLAN & PROFILE

CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		EW-OP2-2



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



**NOTES:**  
SHIELD WIRE  
PRYSMIAN OPGW 64-77S  
SHOWN AT 60°F, NO WIND, FINAL  
5000 LB AT NESC HEAVY INITIAL  
  
CONDUCTOR:  
2156 KCMIL ACSS "BLUEBIRD"  
SHOWN AT 392°F, NO WIND, FINAL  
9500 LB AT NESC HEAVY INITIAL

<b>BLACK &amp; VEATCH</b> <i>Building a world of difference</i>	
PROJECT NO. 195880	
DRAWN	BV
DESIGNED	
APPROVED	
CHECKED	

No.	Date	By	Chkd.	Engr.	Supv.
1	09/23/2017	BV			
A - 09/23/2017 - ISSUE FOR REVIEW					
B&V Project: 197505					



89003B-2 - WEST RIVER TO ELMWEST  
115 KV TRANSMISSION LINE  
OPTION 2 - SINGLE CIRCUIT  
OFFSET SOUTH  
PLAN & PROFILE

CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		EW-OP2-3

Drawn	Date	Scale: SEE PLAN
Chkd.	Design Engr.	Design Supv.