



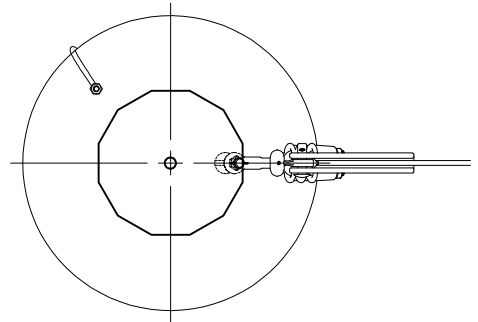
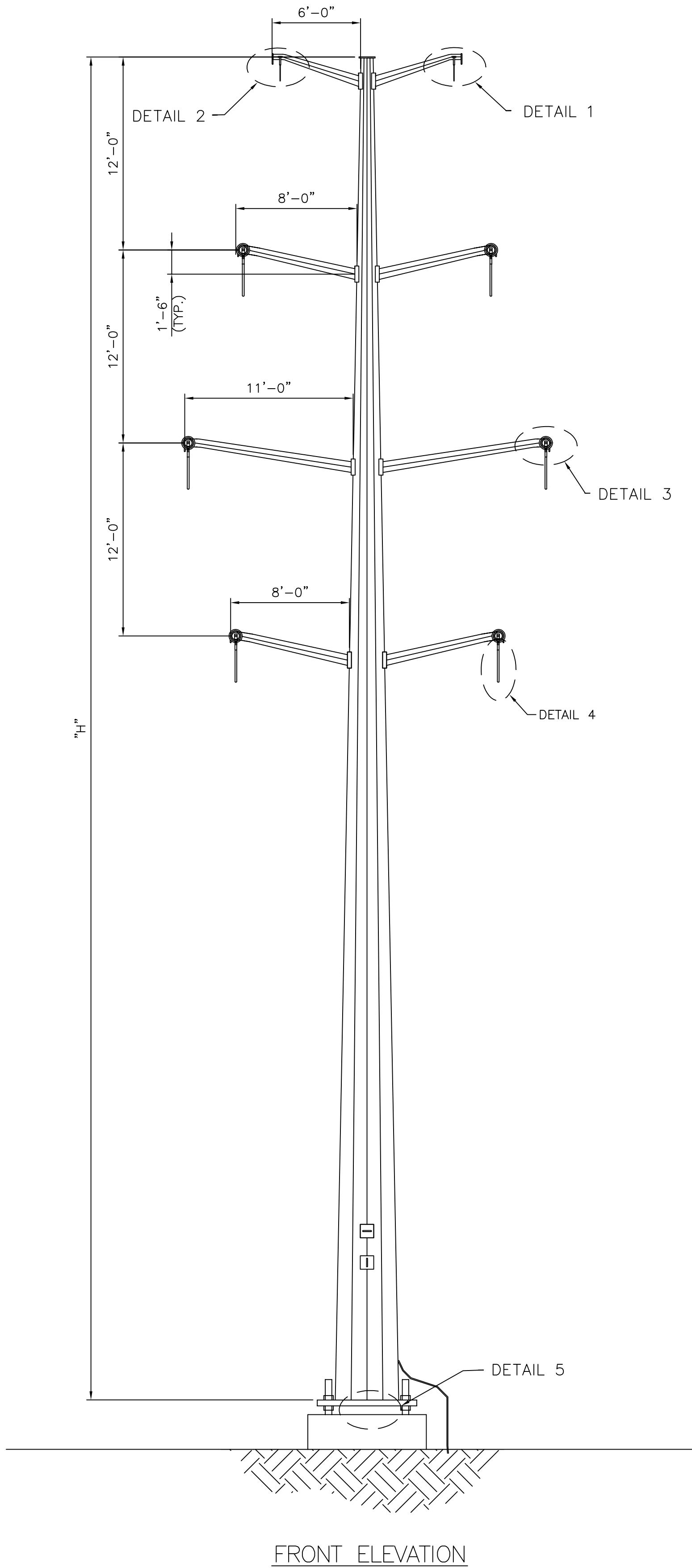
**Lockport – Batavia #112
Rebuild Project**

**Appendix AA
Transmission Structure Drawings**

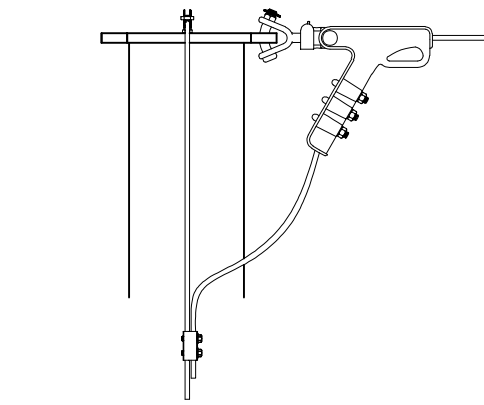
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100786-C-S-02

This document has been reviewed and does not contain Critical Energy/Electric Infrastructure Information (CEII). 06/05/2025

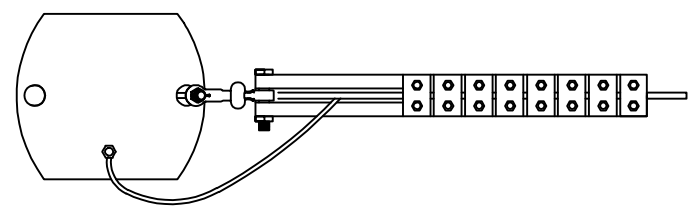


PLAN VIEW

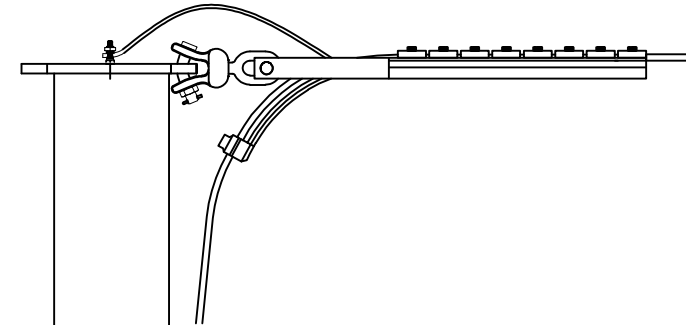


SIDE ELEVATION

DETAIL 2
3/8" EHS
SHIELD WIRE DE ASSEMBLY
(NY-6.0-4.6-00013)

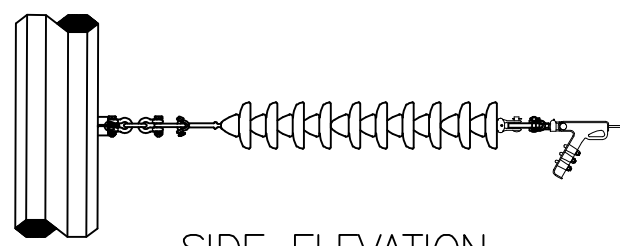


PLAN VIEW



SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)



SIDE ELEVATION



SIDE ELEVATION



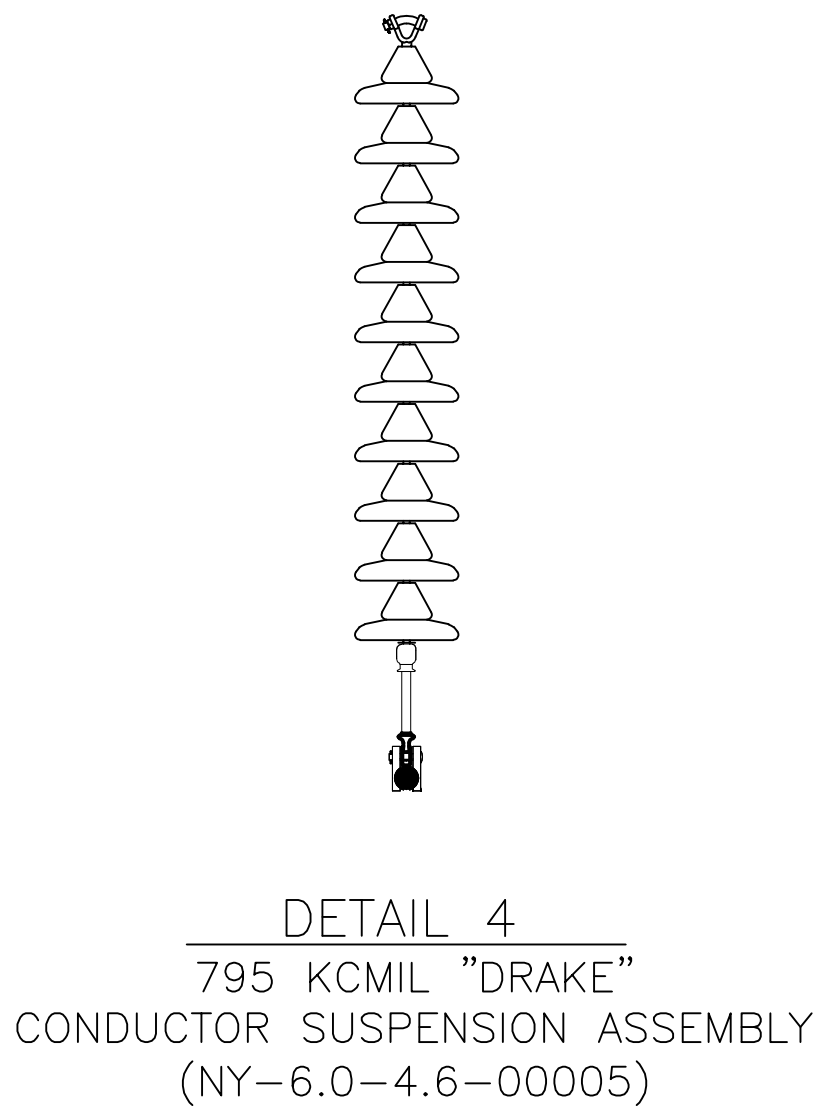
PLAN VIEW



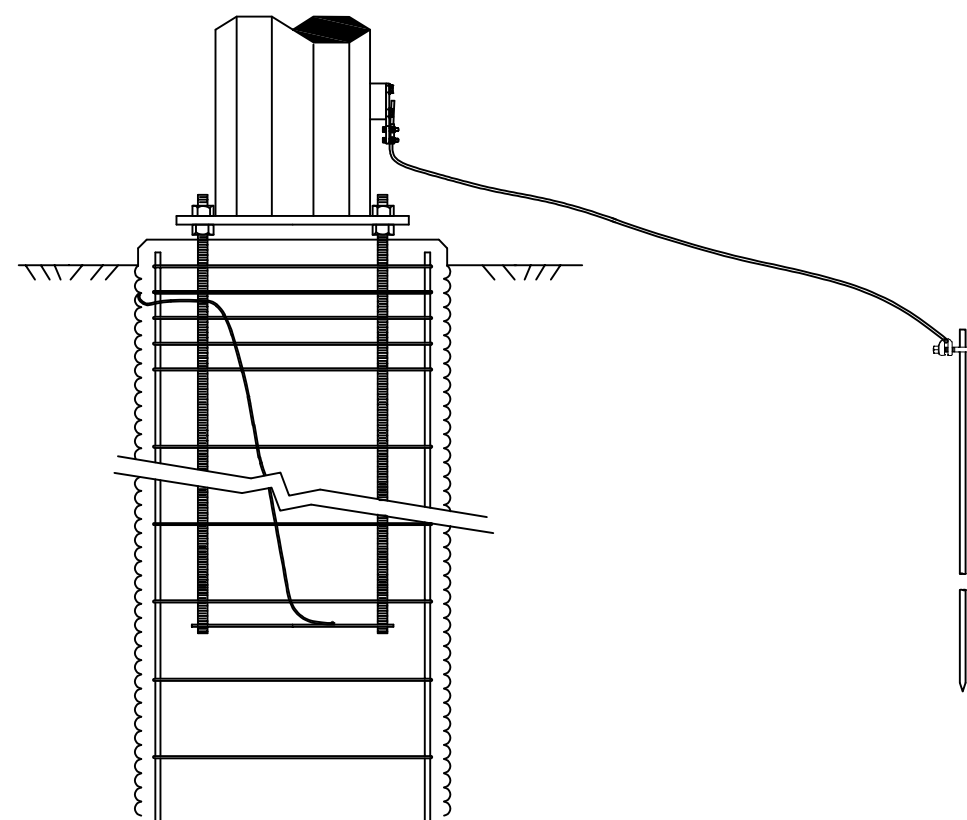
PLAN VIEW

DETAIL 3A
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00051)

DETAIL 3B
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00030)



DETAIL 4
795 KCMIL "DRAKE"
CONDUCTOR SUSPENSION ASSEMBLY
(NY-6.0-4.6-00005)



DETAIL 5
GROUNDING
(NY-6.0-4.6-00015)

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 2 (AHD & BCK)	NY-6.0-4.6-00013	2
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00008	2
DETAIL 3A (AHD & BCK)	NY-6.0-4.6-00051	6
DETAIL 3B (AHD & BCK)	NY-6.0-4.6-00030	6
DETAIL 4	NY-6.0-4.6-00005	6
DETAIL 5	NY-6.0-4.6-00015	1

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	DESIGN LINE ANGLE RANGE
15	90'-0"	0°-20°

T1510 LOCKPORT – BATAVIA

112 LINE REBUILD PROJECT

DOUBLE CIRCUIT DAVIT ARM DEAD-END

STEEL POLE CONCEPT DRAWING

CONCRETE CAISSON FOUNDATION

PREPARED BY: AIR 02/12/2021

REVIEWED BY: CJR 02/12/2021

APPROVED BY: SA 02/12/2021

SCALE: 1" = 100'

SHEET 1 OF 1

INDEX 100786

nationalgrid

100786-C-S-02

VERSION

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Detailed technical drawing showing front elevation, side elevation, plan view, and various details (DETAIL 1 through DETAIL 5) of a T150 Lockport tower assembly.

FRONT ELEVATION

SIDE ELEVATION

PLAN VIEW

DETAIL 1
DNO-12019 SX-28/61/506 OPGW DE ASSEMBLY (NY-6.0-4.6-00008)

DETAIL 2
795 KCMIL "DRAKE" DEADEND ASSEMBLY (NY-6.0-4.6-00051)

DETAIL 3
795 KCMIL "DRAKE" HORIZONTAL POST JUMPER ASSEMBLY (NY-6.0-4.6-00055)

DETAIL 4
DNO-12019 SX-28/61/506 OPGW SPLICER BOX ASSEMBLY (NY-6.0-4.6-00027)

DETAIL 5
GROUNDING (NY-6.0-4.6-00015)

STR. NO.	STR. HT. (FT) "H"	DESIGN LINE ANGLE RANGE	ACTUAL LINE ANGLE "θ"	LINE ANGLE / 2 "α"	LOAD DIAGRAM	VOLTAGE
2 - T1510; LINE 112	90'-0"	0° - 10°	-2°	-1°	100786-C-S-104	115kV
3 - T1510; LINE 112	105'-0"	20° - 45°	22.39°	11.195°	100786-C-S-204	115kV
4 - T1510; LINE 112	85'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
80	80'-0"	0° - 10°	0°	0°	100786-C-S-404	115kV
82	80'-0"	0° - 10°	0°	0°	100786-C-S-404	115kV
170	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV

SPICE LOCATIONS:
80, 82, 170

GENERAL NOTES:

SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.

SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

T1510 LOCKPORT -- BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT MONOPOLE DEAD-END

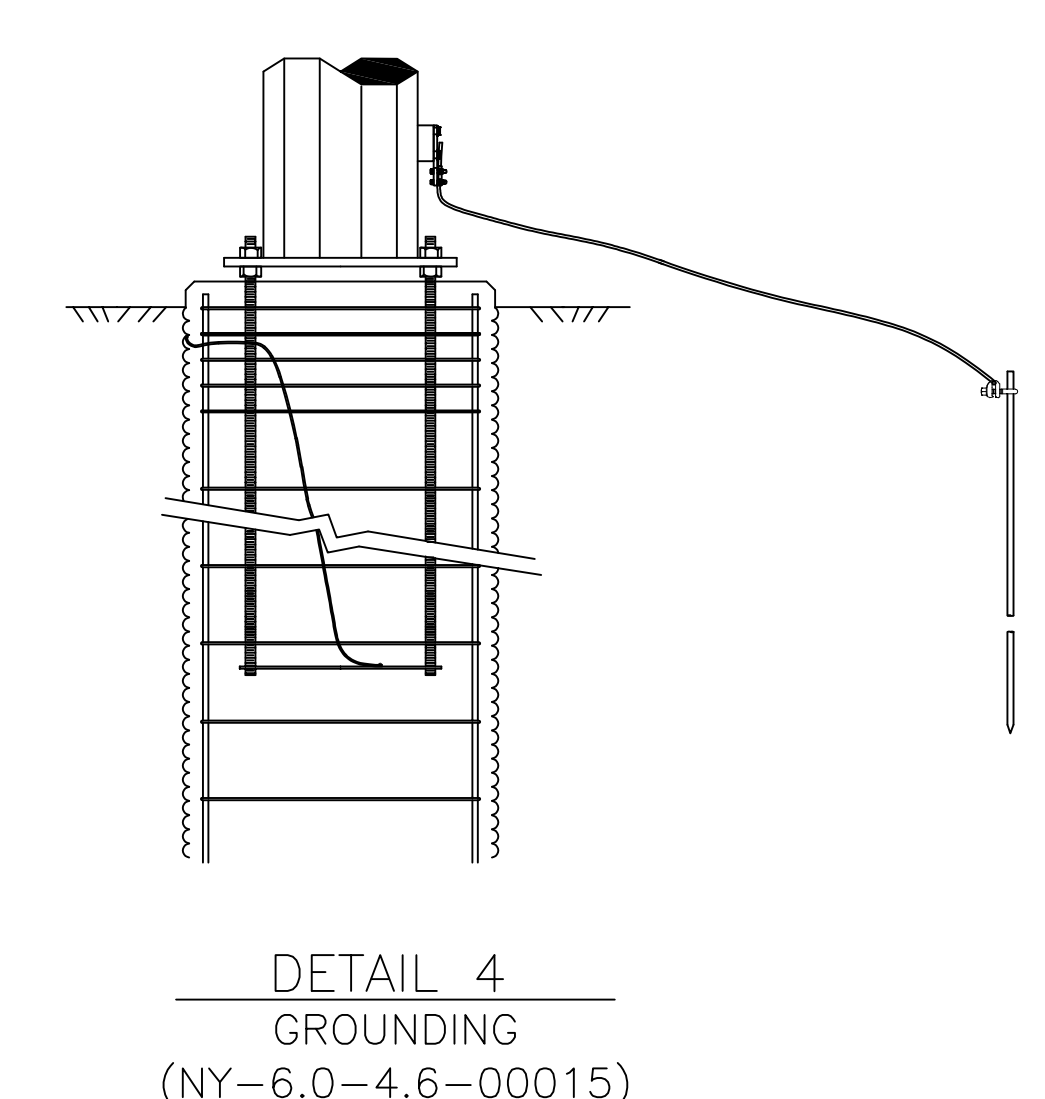
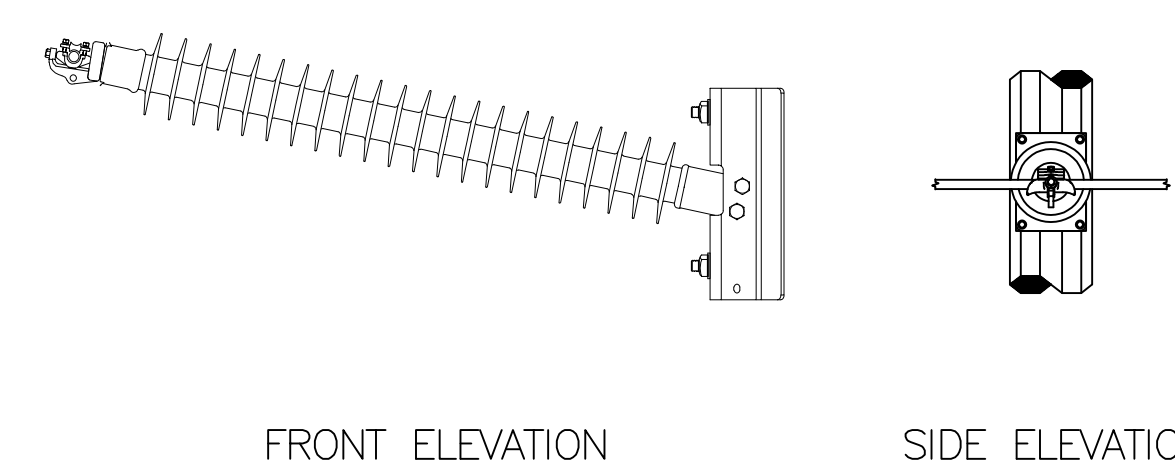
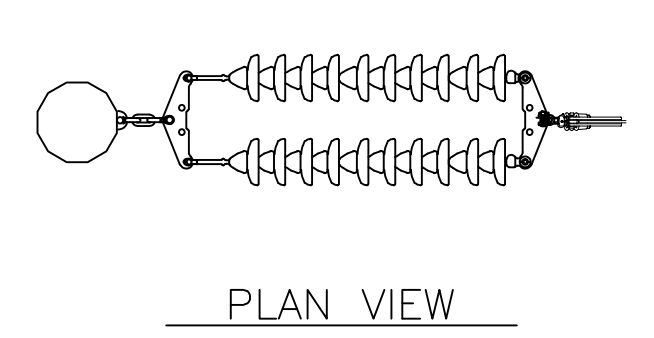
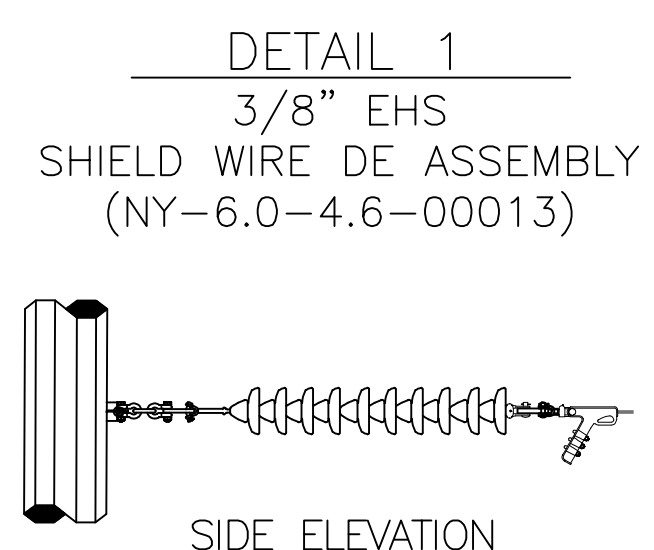
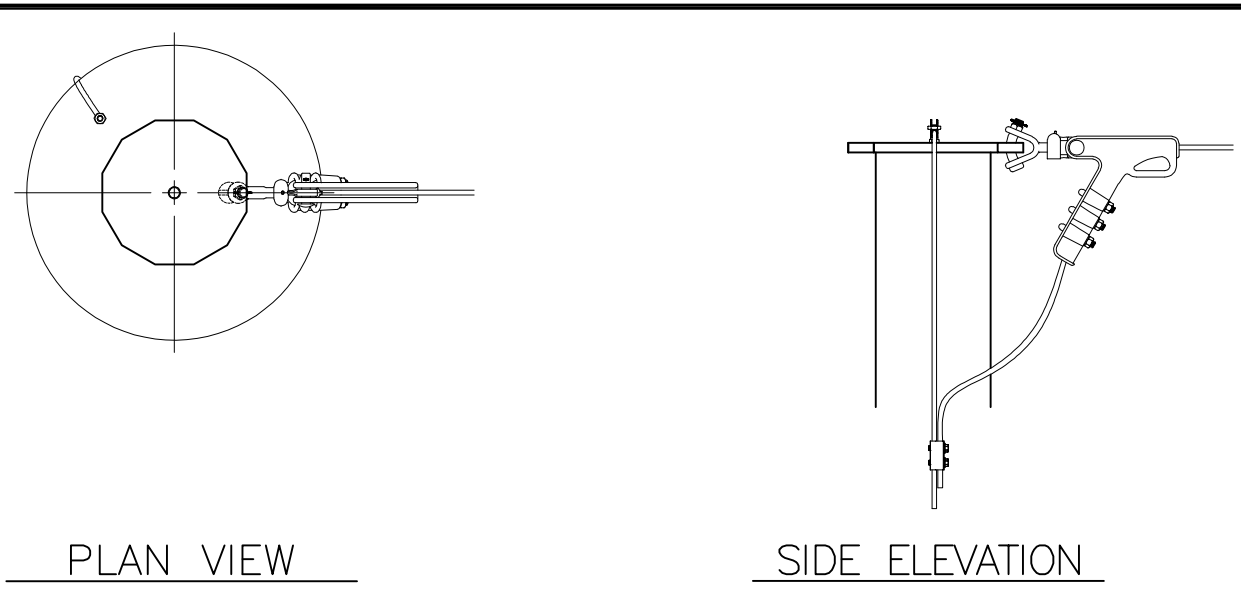
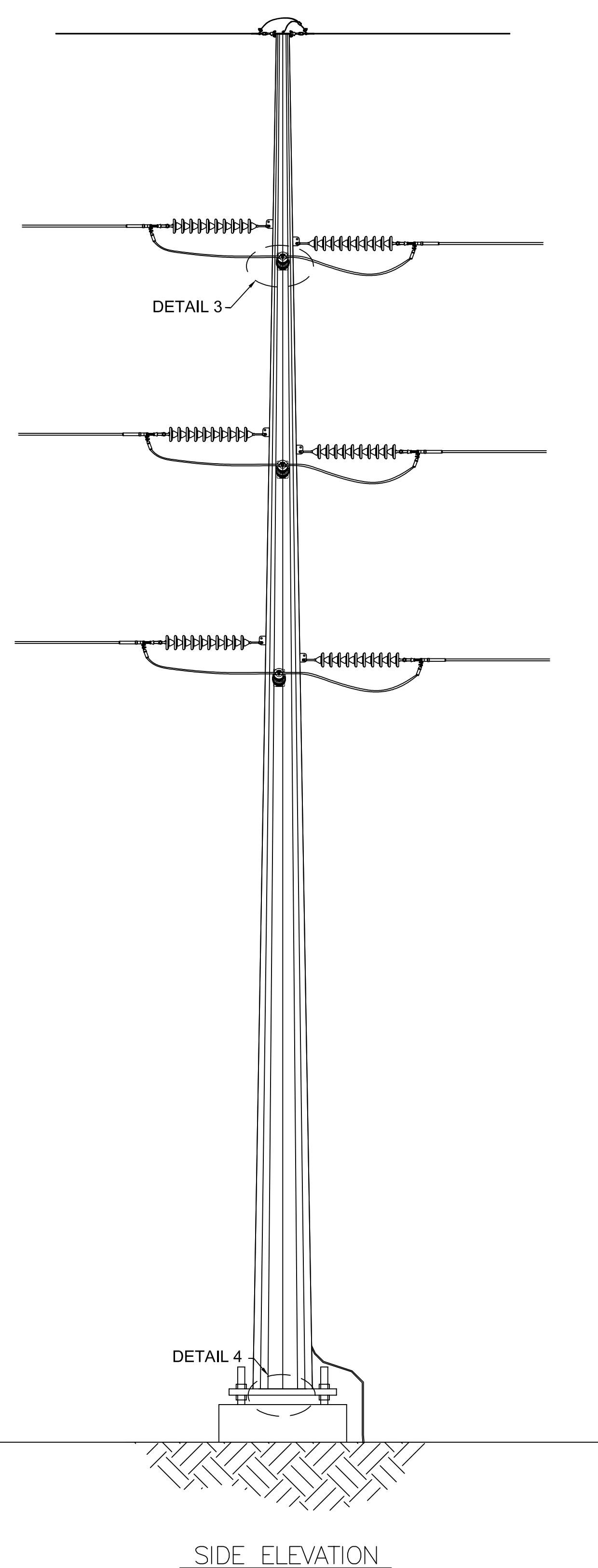
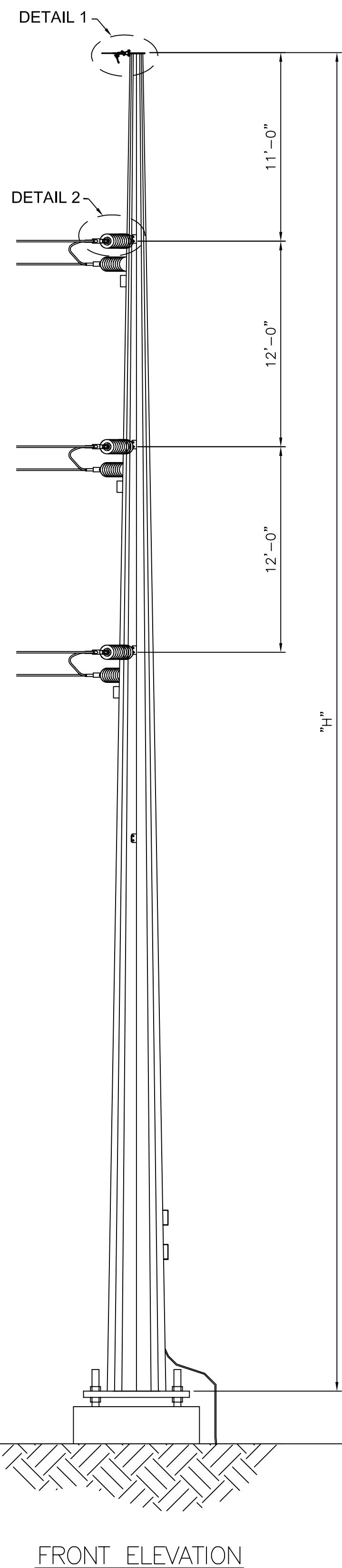
STEEL POLE CONCEPT DRAWING

CONCRETE CAISSON FOUNDATION

nationalgrid

PREPARED BY	AIR	DATE	02/12/21
CHECKED BY	JJR	DATE	02/12/21
APPROVED BY	SA	SCALE	1 OF 1
INDEX	100786		

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STR. NO.	STR. HT. (FT) "H"	DESIGN LINE ANGLE RANGE	ACTUAL LINE ANGLE "θ"	LINE ANGLE / 2 "α"	LOAD DIAGRAM	VOLTAGE
2 – T1530; LINE 111	90'-0"	0° - 10°	-2°	-1°	100786-C-S-104	115kV
3 – T1530; LINE 111	105'-0"	20° - 45°	22.39°	11.195°	100786-C-S-204	115kV
4 – T1530; LINE 111	85'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
92 – T1530; LINE 111	75'-0"	0° - 10°	-9.74°	-4.87°	100786-C-S-104	115kV

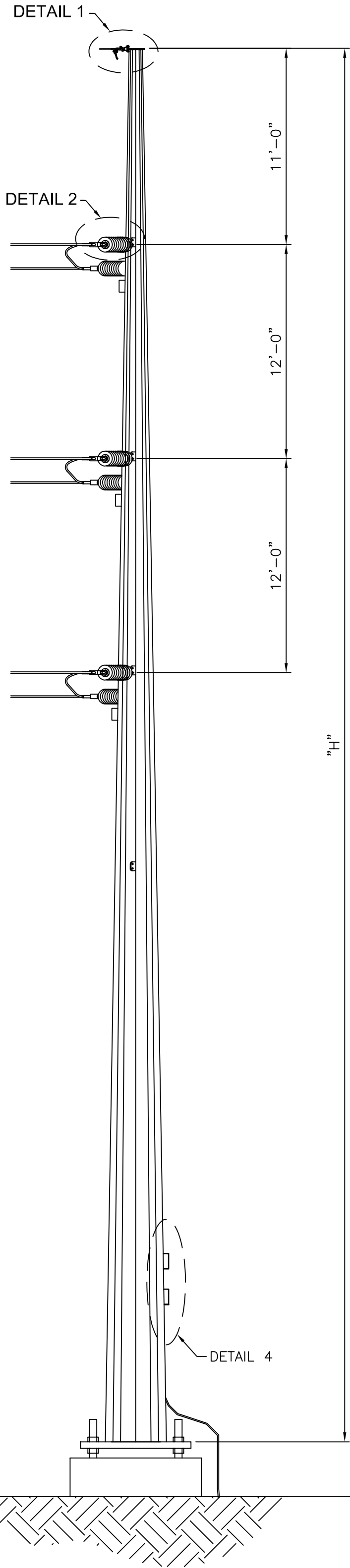
- GENERAL NOTES:
1. SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 2. SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00013	2
DETAIL 2 (AHD & BCK)	NY-6.0-4.6-00051	6
DETAIL 3	NY-6.0-4.6-00055	3
DETAIL 4	NY-6.0-4.6-00015	1

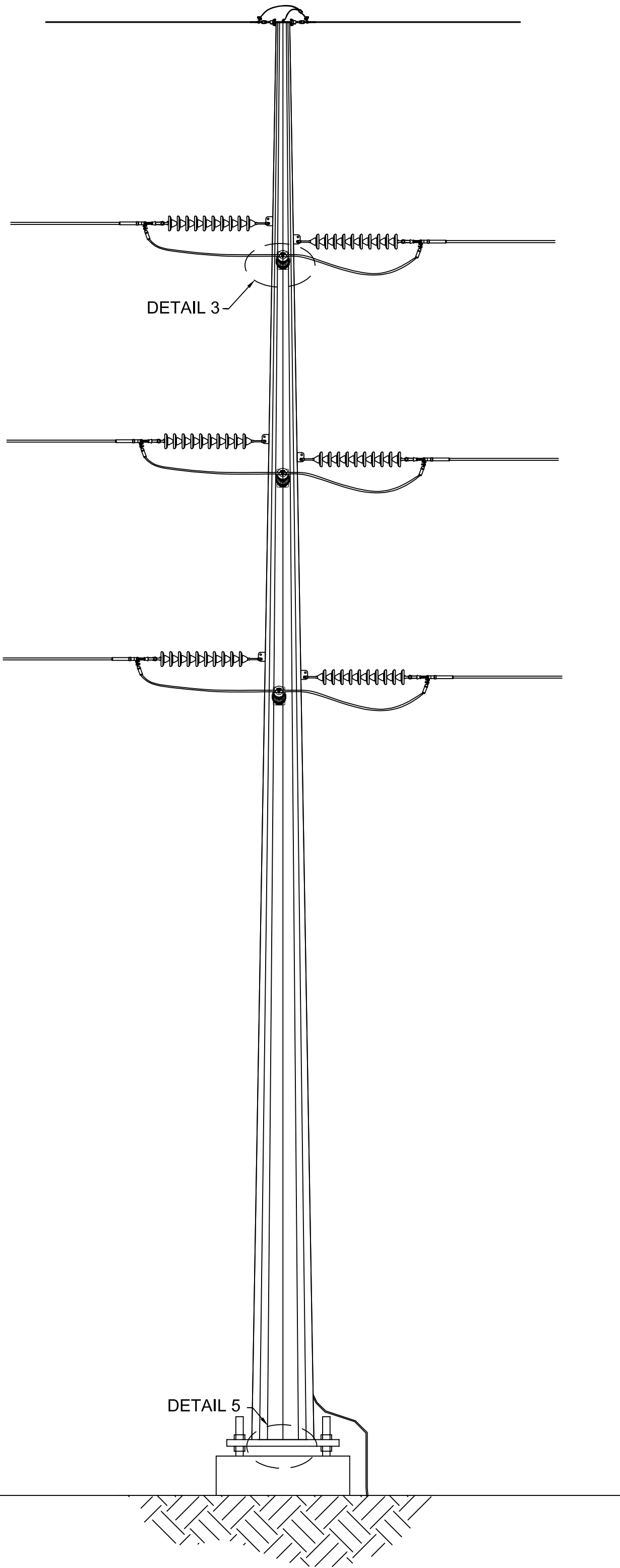
T1510 LOCKPORT – BATAVIA							PREPARED BY		AIR	02/12/21		VER	DATE	VERSION DESCRIPTION	PREPARED	REVIEWED	APPROVED	VERSION	
112 LINE REBUILD PROJECT							REVIEWED BY	CJR	02/12/21	1		02/12/21				AIR	CJR	SA	
SINGLE CIRCUIT MONOPOLE DEAD-END							APPROVED BY	SA	02/12/21	2									
STEEL POLE CONCEPT DRAWING							SCALE					3							
CONCRETE CAISSON FOUNDATION							SHEET	1	OF	1		4							
							INDEX	100786				5							
												6							
											7								

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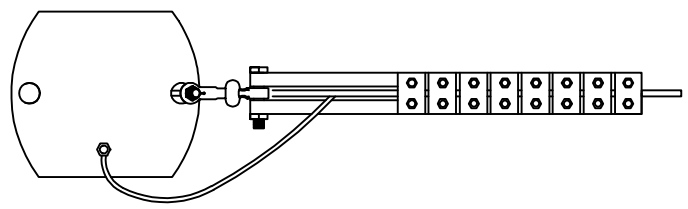
100786-C-S-04B



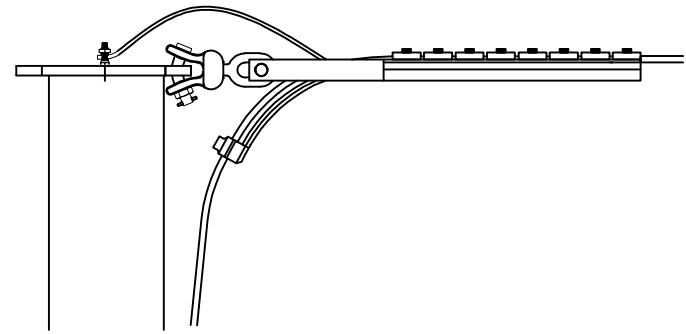
FRONT ELEVATION



SIDE ELEVATION

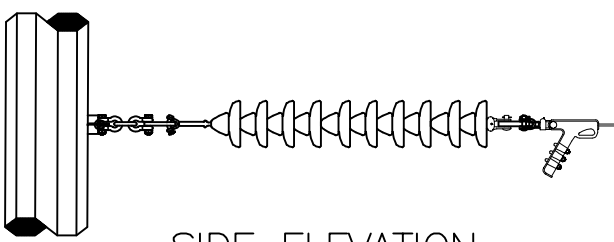


PLAN VIEW



SIDE ELEVATION

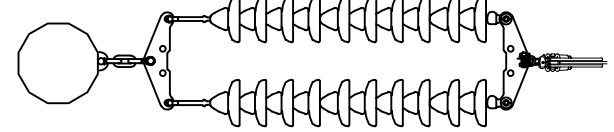
DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)



SIDE ELEVATION



SIDE ELEVATION



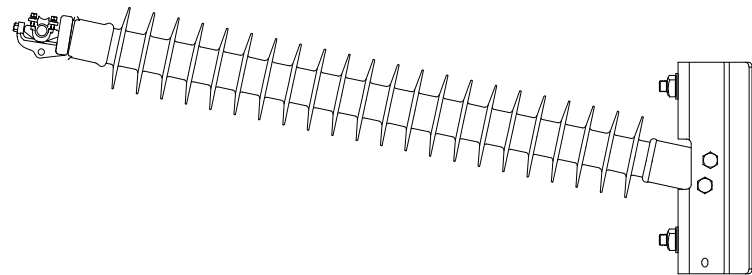
PLAN VIEW



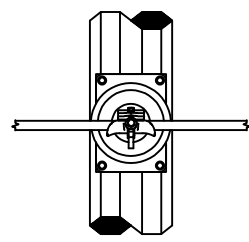
PLAN VIEW

DETAIL 2A
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00051)

DETAIL 2B
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00030)

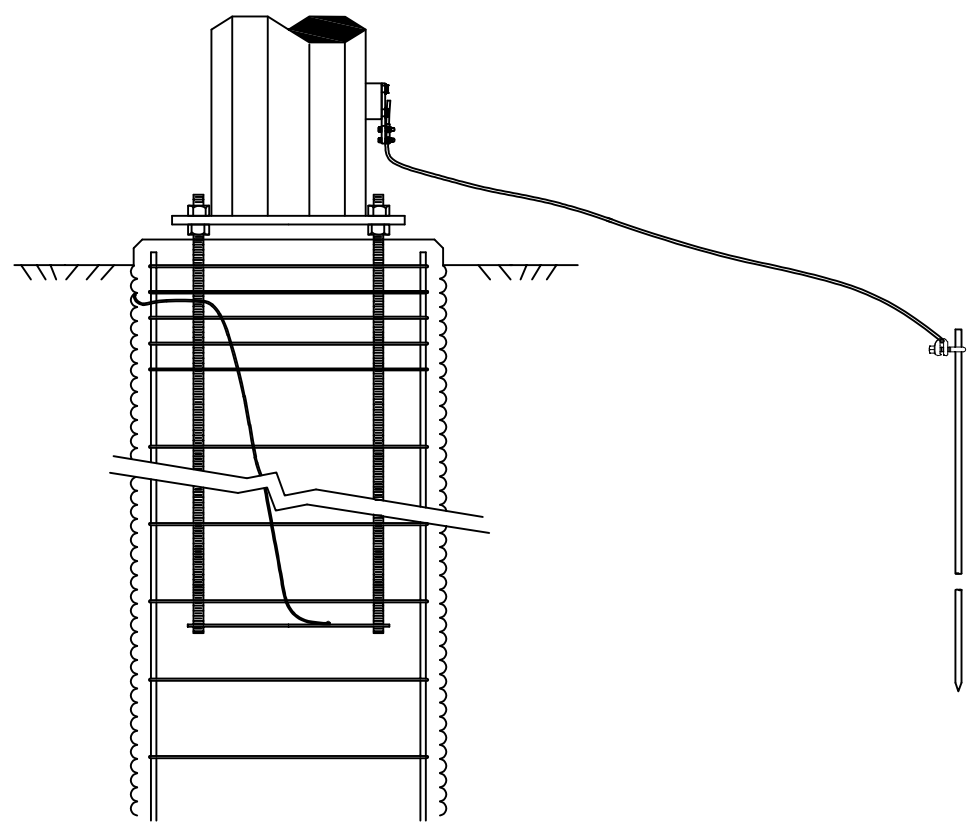


FRONT ELEVATION



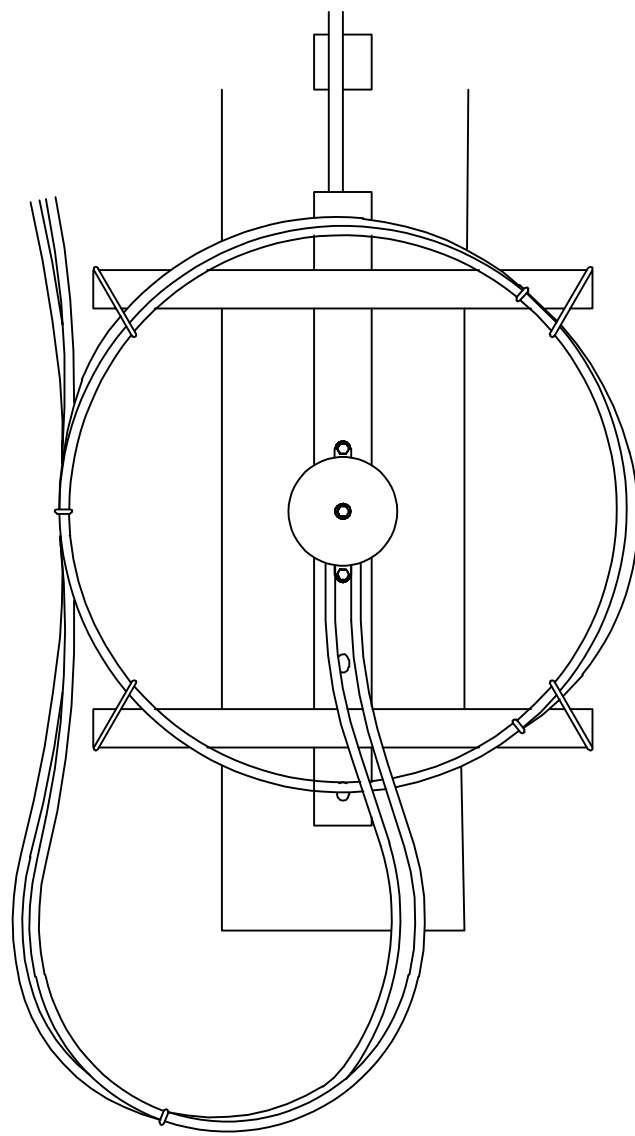
SIDE ELEVATION

DETAIL 3
795 KCMIL "DRAKE"
HORIZONTAL POST JUMPER ASSEMBLY
(NY-6.0-4.6-00055)



DETAIL 5
GROUNDING
(NY-6.0-4.6-00015)

SPLICE LOCATIONS:
36, 200



DETAIL 4
DNO-12019 SX-28/61/506
OPGW SPLICE BOX ASSEMBLY
(NY-6.0-4.6-00027)

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00008	2
DETAIL 2A (AHD)	NY-6.0-4.6-00051	3
DETAIL 2B (BCK)	NY-6.0-4.6-00030	3
DETAIL 3	NY-6.0-4.6-00055	3
DETAIL 4	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 5	NY-6.0-4.6-00015	1

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

STR. NO.	STR. HT. (FT) "H"	DESIGN LINE ANGLE RANGE	ACTUAL LINE ANGLE "θ"	LINE ANGLE / 2 "α"	LOAD DIAGRAM	VOLTAGE
36	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
108	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
200	80'-0"	20° - 45°	-31.47°	-15.74°	100786-C-S-204	115kV

VERSION DESCRIPTION				ISSUED FOR BID			
VER	DATE	REVISION	DESCRIPTION	AIR	CJR	SA	
1	02/15/21						
2							
3							
4							
5							
6							
7							

T1510 LOCKPORT — BATAVIA				PREPARED BY	AIR	02/12/21
112 LINE REBUILD PROJECT				REVIEWED BY	CJR	02/12/21
SINGLE CIRCUIT MONOPOLE DEAD-END				APPROVED BY	SA	02/12/21
STEEL POLE CONCEPT DRAWING				SCALE	SEE NOTES	
CONCRETE CAISSON FOUNDATION				SHEET	1	OF 1
				INDEX	100786	

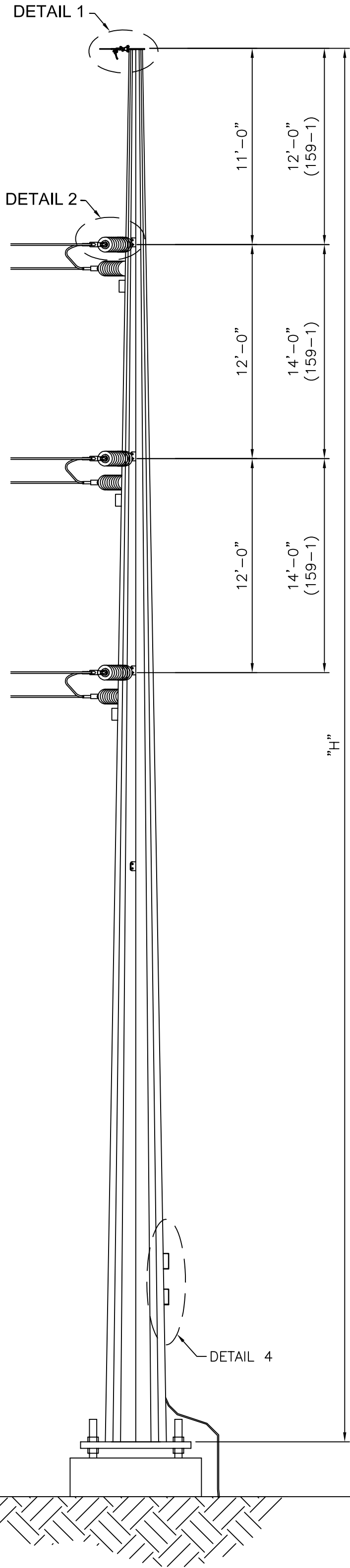
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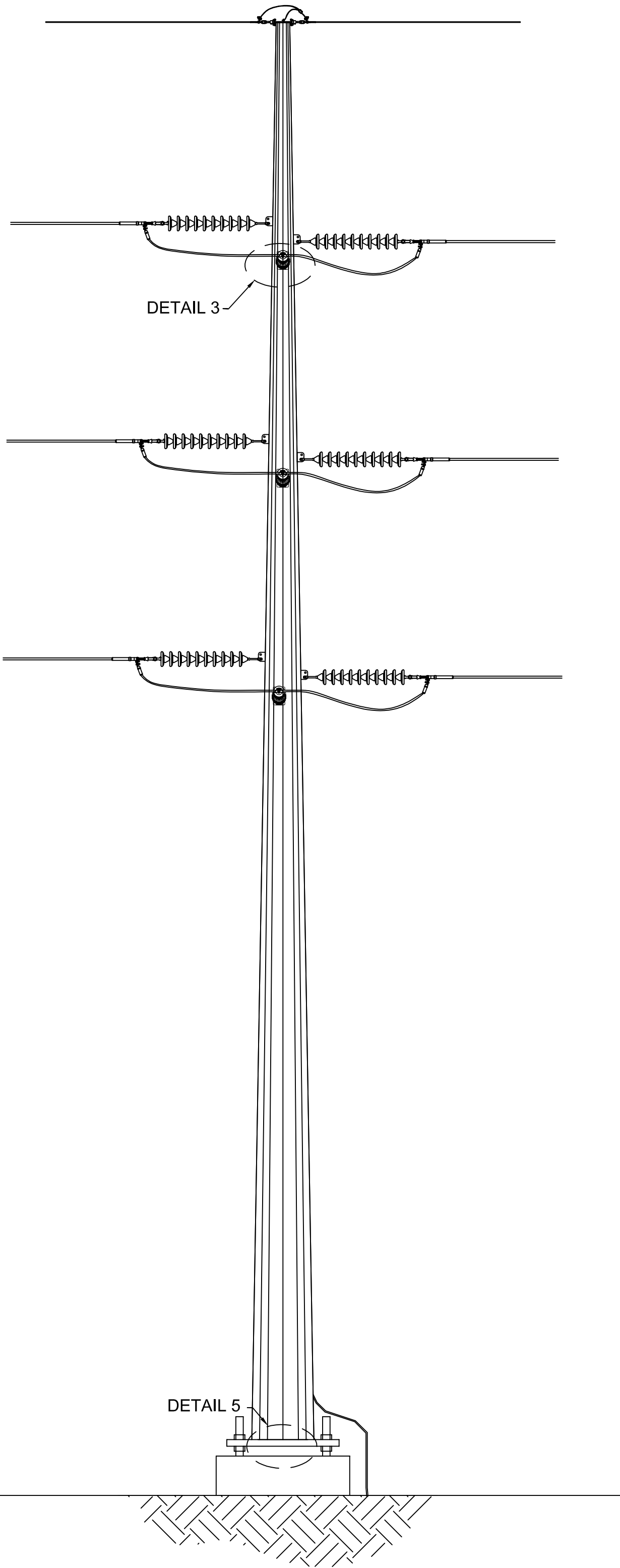
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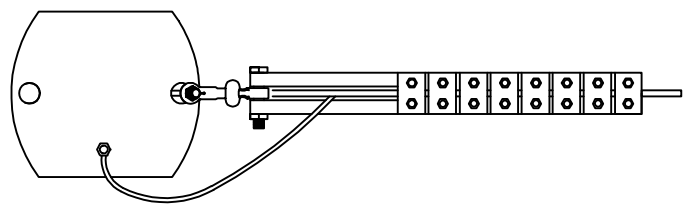
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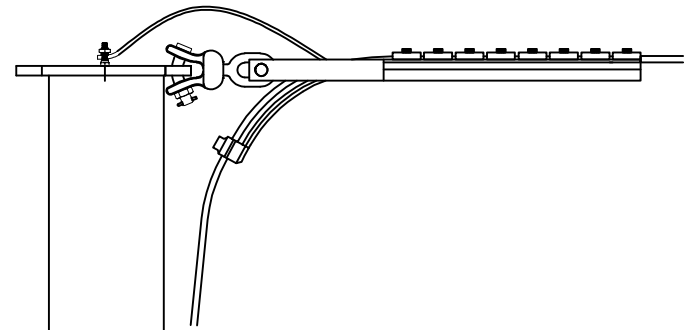
FRONT ELEVATION



SIDE ELEVATION



PLAN VIEW



SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)

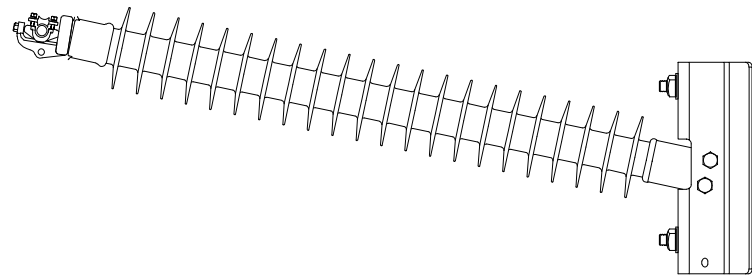


SIDE ELEVATION

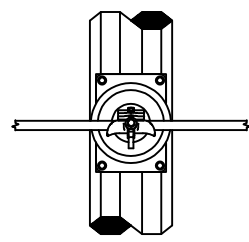


PLAN VIEW

DETAIL 2
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00030)

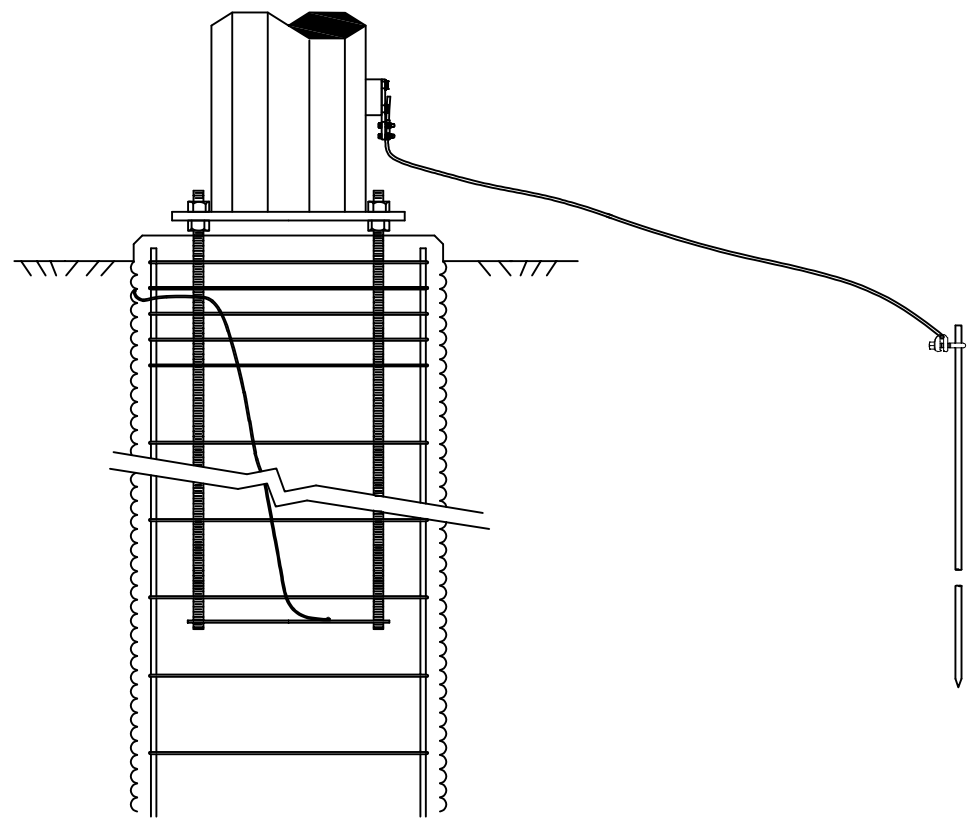


FRONT ELEVATION

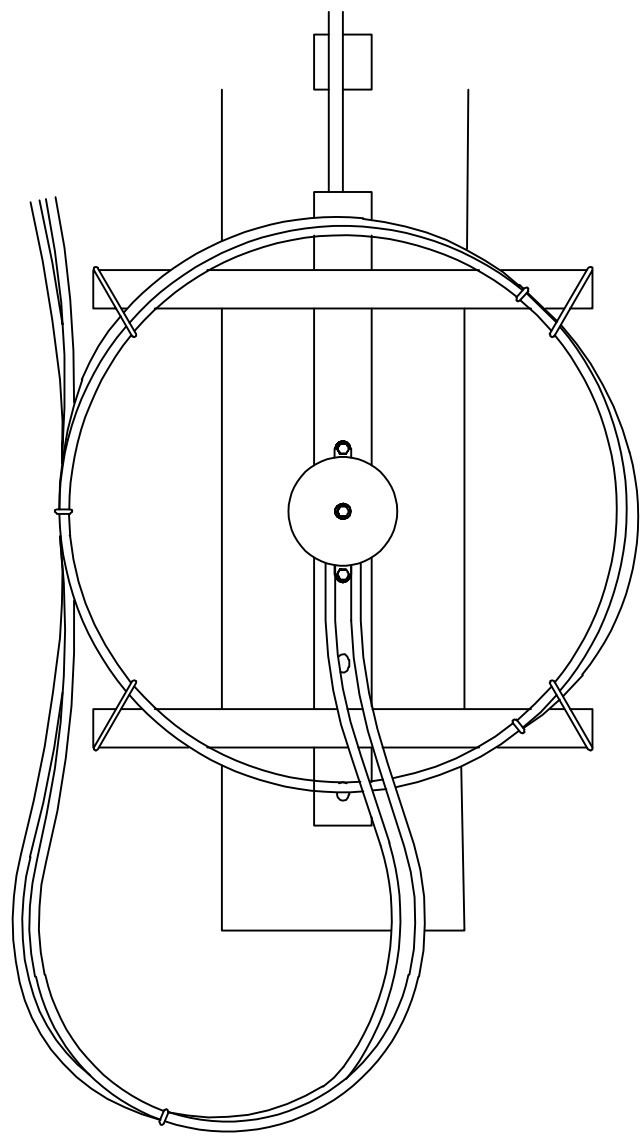


SIDE ELEVATION

DETAIL 3
795 KCMIL "DRAKE"
HORIZONTAL POST JUMPER ASSEMBLY
(NY-6.0-4.6-00055)



DETAIL 5
GROUNDING
(NY-6.0-4.6-00015)



DETAIL 4
DNO-12019 SX-28/61/506
OPGW SPLICE BOX ASSEMBLY
(NY-6.0-4.6-00027)

SPLICE LOCATIONS:
56

STR. NO.	STR. HT. (FT) "H"	DESIGN LINE ANGLE RANGE	ACTUAL LINE ANGLE "θ"	LINE ANGLE / 2 "α"	LOAD DIAGRAM	VOLTAGE
56	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
92 - T1510; LINE 112	75'-0"	0° - 10°	-9.74°	-4.87°	100786-C-S-104	115kV
115	90'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
119	75'-0"	20° - 45°	30.41°	15.21°	100786-C-S-204	115kV
129	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
143	80'-0"	20° - 45°	42.62°	21.31°	100786-C-S-204	115kV
153	80'-0"	20° - 45°	-22.38°	-11.19°	100786-C-S-204	115kV
155	95'-0"	0° - 10°	10°	5°	100786-C-S-104	115kV
156	80'-0"	75° - 100°	95.86°	47.93°	100786-C-S-304	115kV
159	90'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
159-1	80'-0"	75° - 100°	-72.61°	-36.31°	100786-C-S-304	115kV

- GENERAL NOTES:
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DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00008	2
DETAIL 2 (AHD & BCK)	NY-6.0-4.6-00030	6
DETAIL 3	NY-6.0-4.6-00055	3
DETAIL 4	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 5	NY-6.0-4.6-00015	1

T1510 LOCKPORT – BATAVIA
112 LINE REBUILD PROJECT
SINGLE CIRCUIT MONOPOLE DEAD-END
STEEL POLE CONCEPT DRAWING
CONCRETE CAISSON FOUNDATION

PREPARED BY: AIR 02/12/21
REVIEWED BY: CJR 02/12/21
APPROVED BY: SA 02/12/21
SCALE: 1 OF 1
SHEET INDEX

100786

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100786-C-S-04C

VERSION DESCRIPTION
ISSUED FOR BID

1 02/15/21

2 02/15/21

3 02/15/21

4 02/15/21

5 02/15/21

6 02/15/21

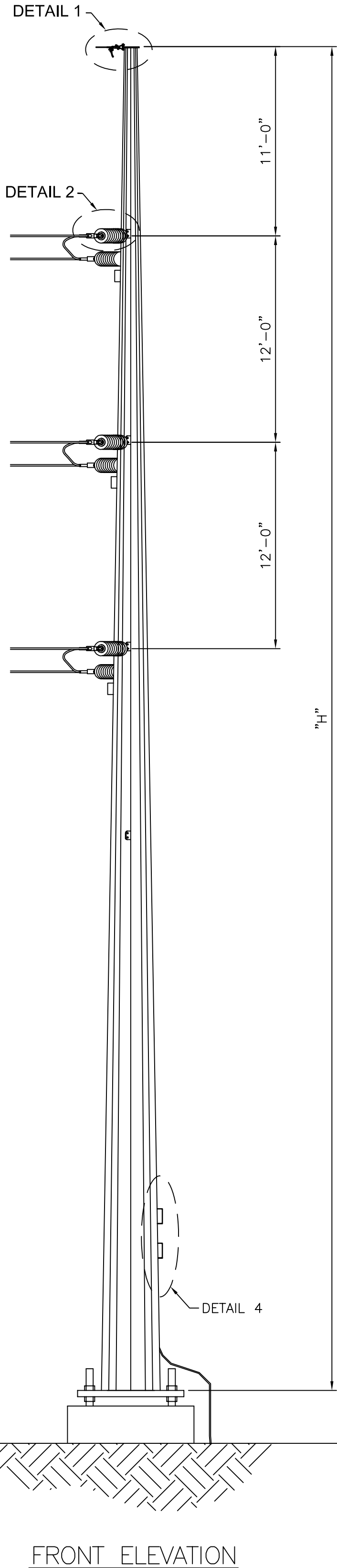
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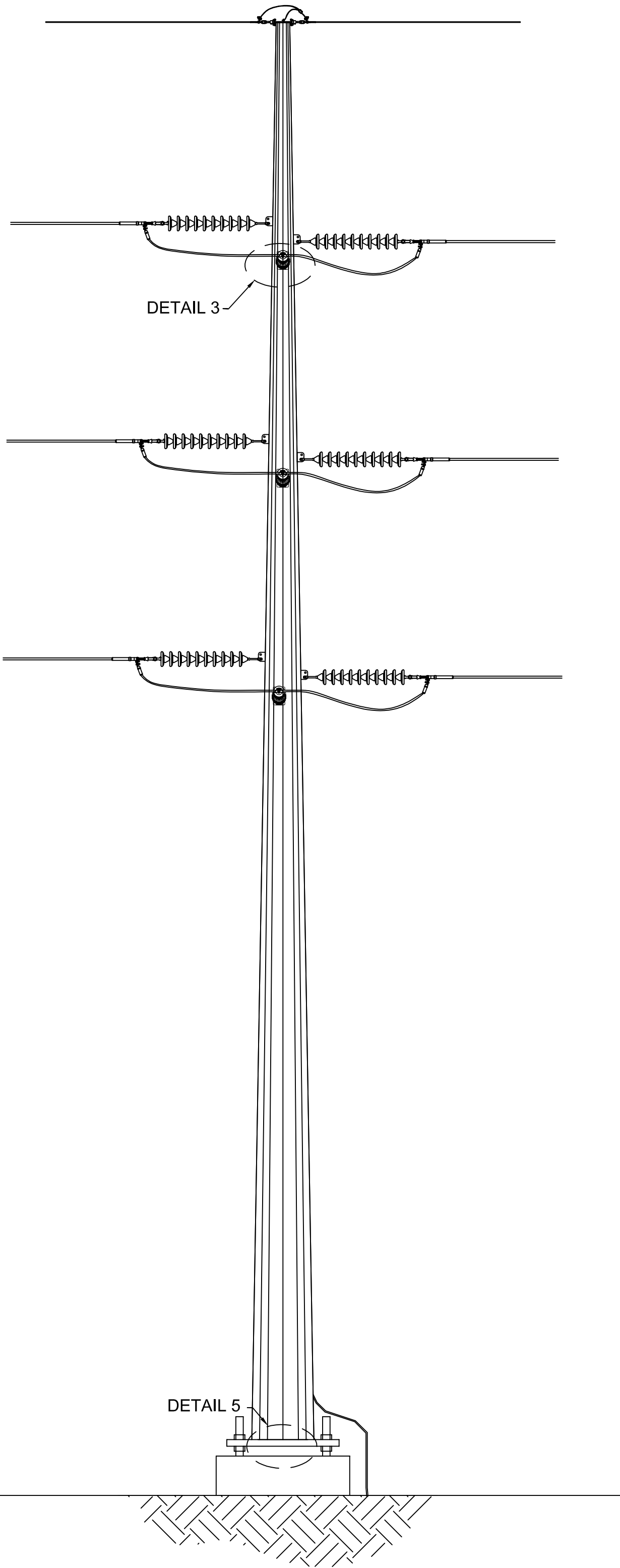
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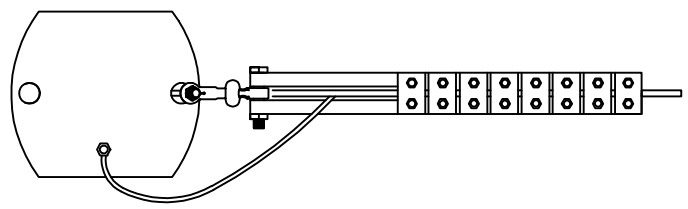
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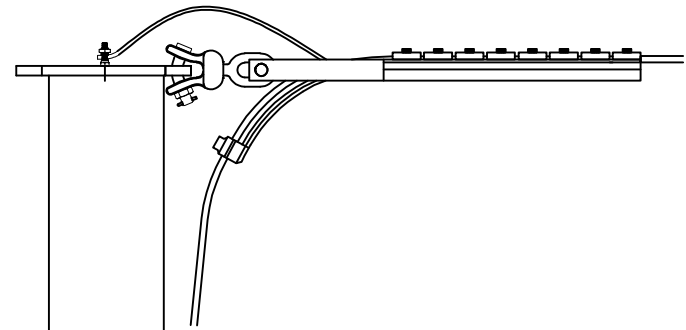
FRONT ELEVATION



SIDE ELEVATION

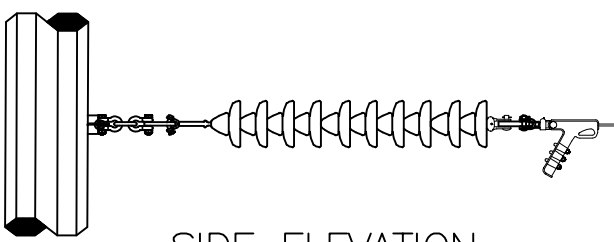


PLAN VIEW



SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)



SIDE ELEVATION



SIDE ELEVATION



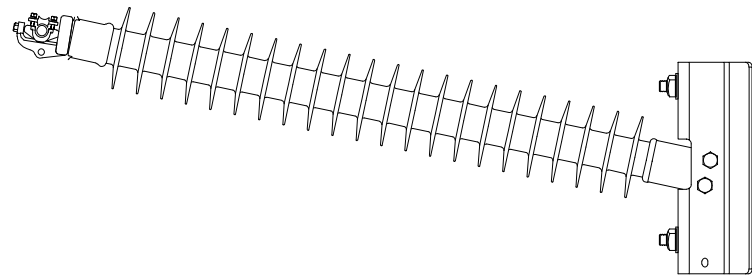
PLAN VIEW



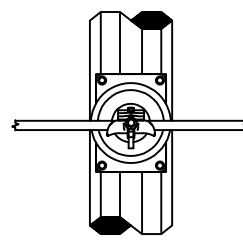
PLAN VIEW

DETAIL 2A
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00051)

DETAIL 2B
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00030)

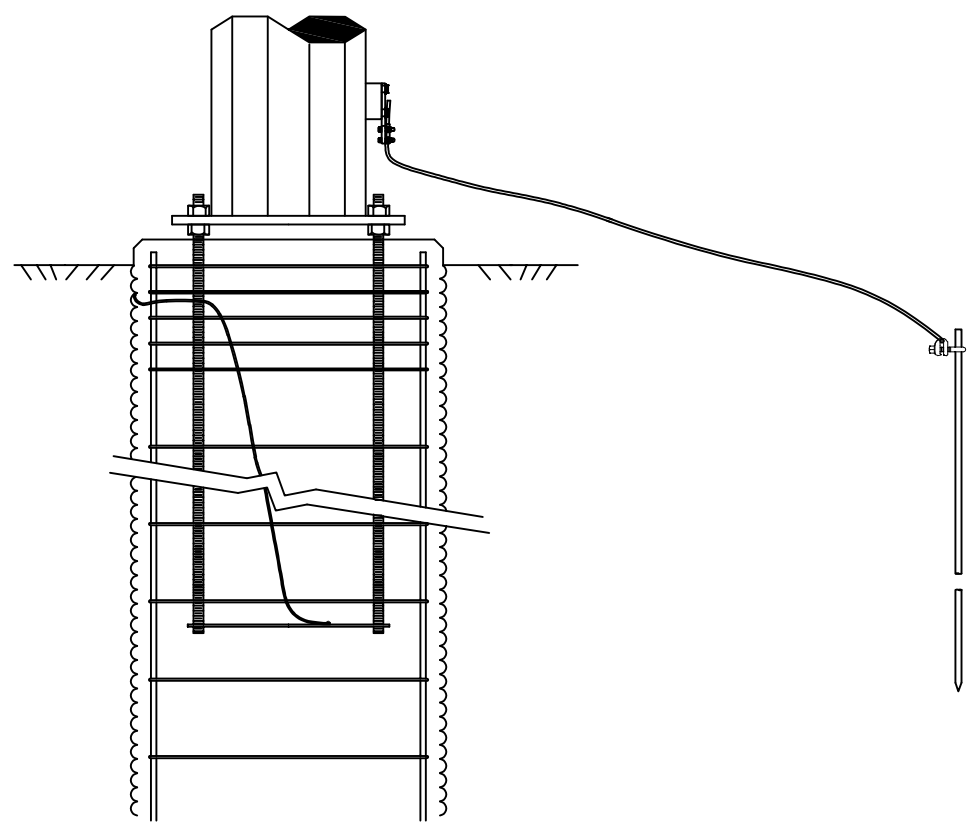


FRONT ELEVATION



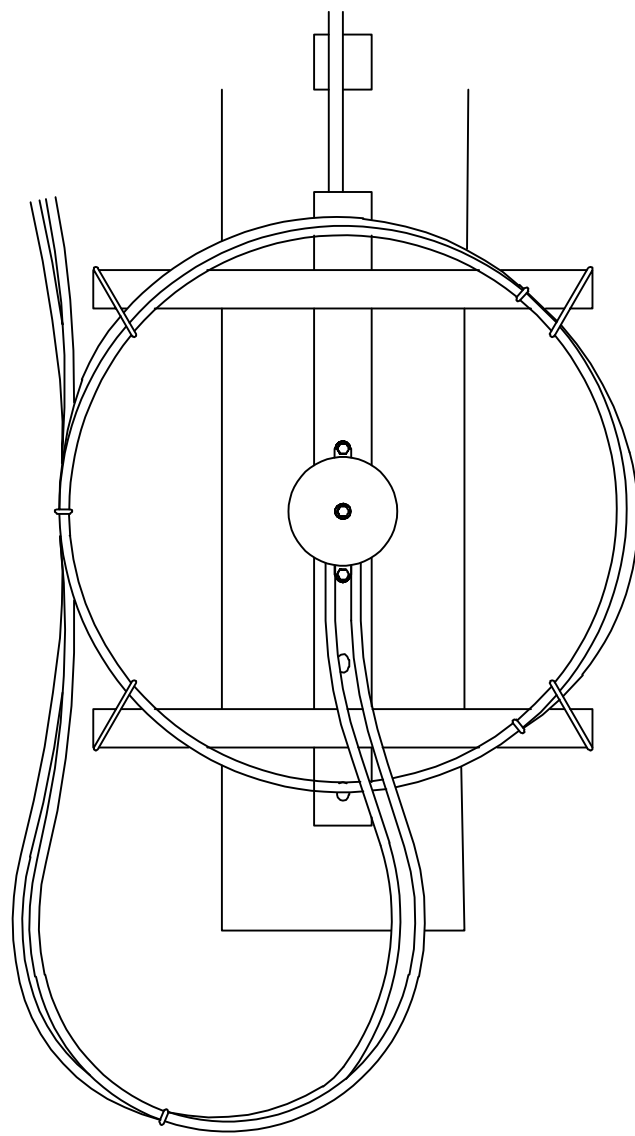
SIDE ELEVATION

DETAIL 3
795 KCMIL "DRAKE"
HORIZONTAL POST JUMPER ASSEMBLY
(NY-6.0-4.6-00055)



DETAIL 5
GROUNDING
(NY-6.0-4.6-00015)

SPLICE LOCATIONS:
141



DETAIL 4
DNO-12019 SX-28/61/506
OPGW SPLICE BOX ASSEMBLY
(NY-6.0-4.6-00027)

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

STR. NO.	STR. HT. (FT) "H"	DESIGN LINE ANGLE RANGE	ACTUAL LINE ANGLE "G"	LINE ANGLE / 2 "a"	LOAD DIAGRAM	VOLTAGE
67	80'-0"	0° - 10°	0°	0°	100786-C-S-104	115kV
141	90'-0"	20° - 45°	-45.00°	-22.50°	100786-C-S-204	115kV

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00008	2
DETAIL 2A (BCK)	NY-6.0-4.6-00051	3
DETAIL 2B (AHD)	NY-6.0-4.6-00030	3
DETAIL 3	NY-6.0-4.6-00055	3
DETAIL 4	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 5	NY-6.0-4.6-00015	1

T1510 LOCKPORT – BATAVIA
112 LINE REBUILD PROJECT
SINGLE CIRCUIT MONOPOLE DEAD-END
STEEL POLE CONCEPT DRAWING
CONCRETE CAISSON FOUNDATION

nationalgrid

ISSUED FOR BID

100786

PREPARED BY: AIR 02/12/21
REVIEWED BY: CJR 02/12/21
APPROVED BY: SA 02/12/21
SCALE: 1 OF 1
SHEET: 1 OF 1
INDEX: 100786

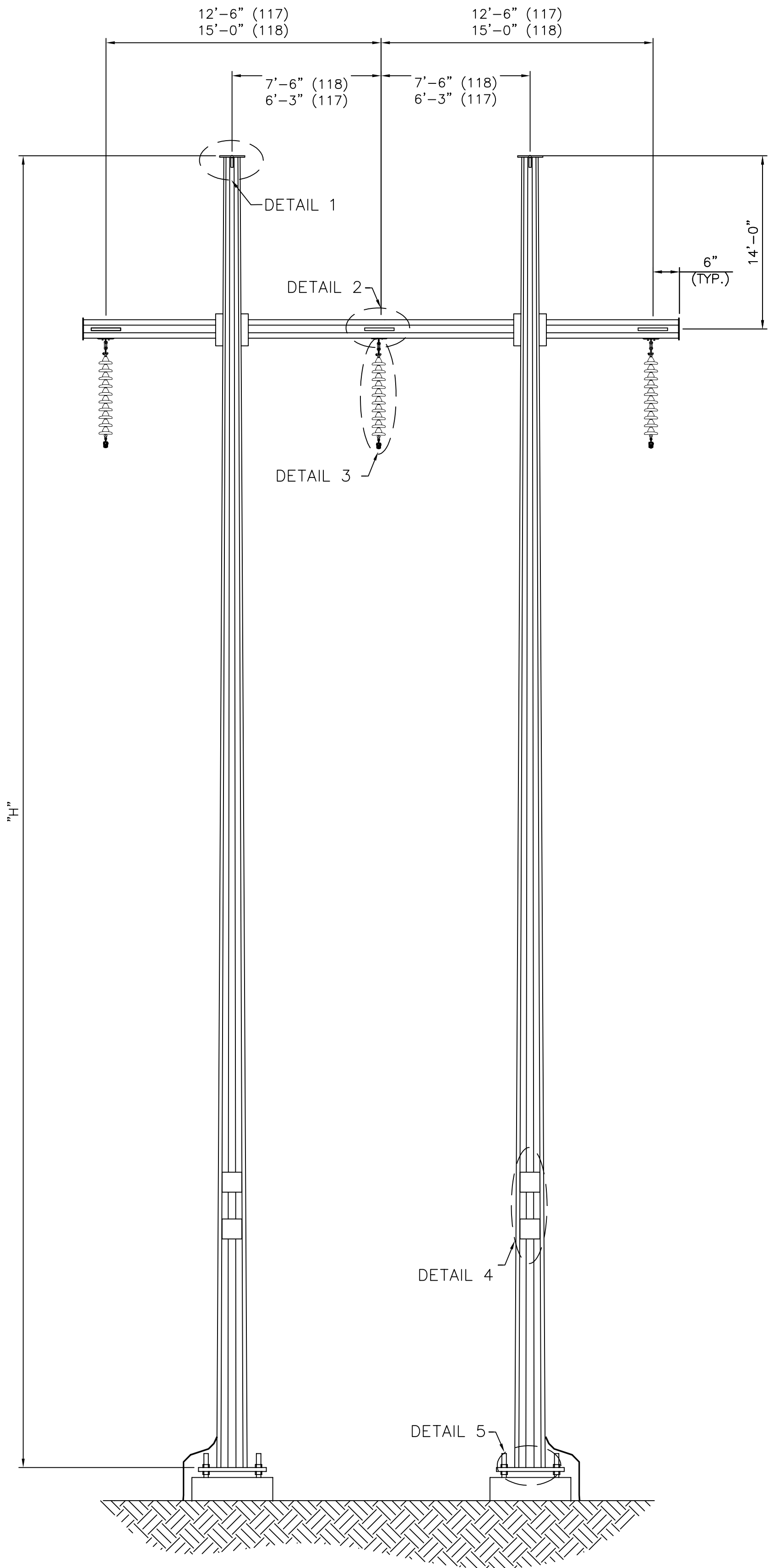
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7 02/15/21

100786-C-S-04D

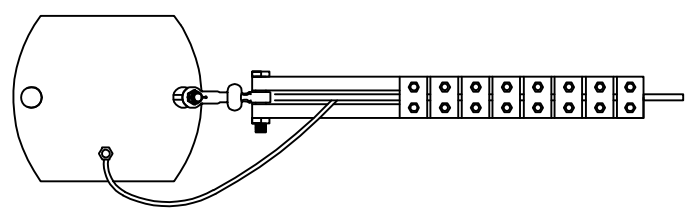
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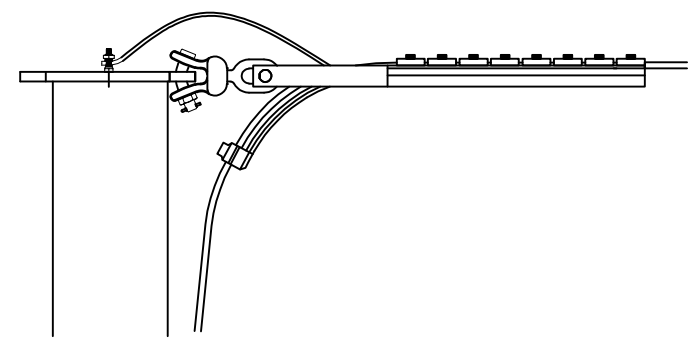
100786-C-S-05



FRONT ELEVATION

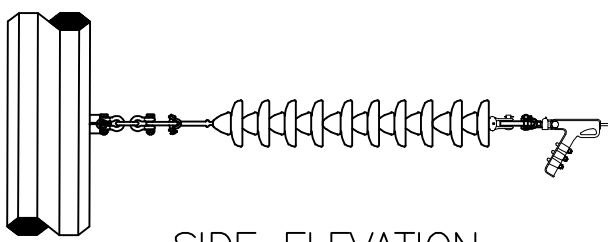


PLAN VIEW



SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)



SIDE ELEVATION

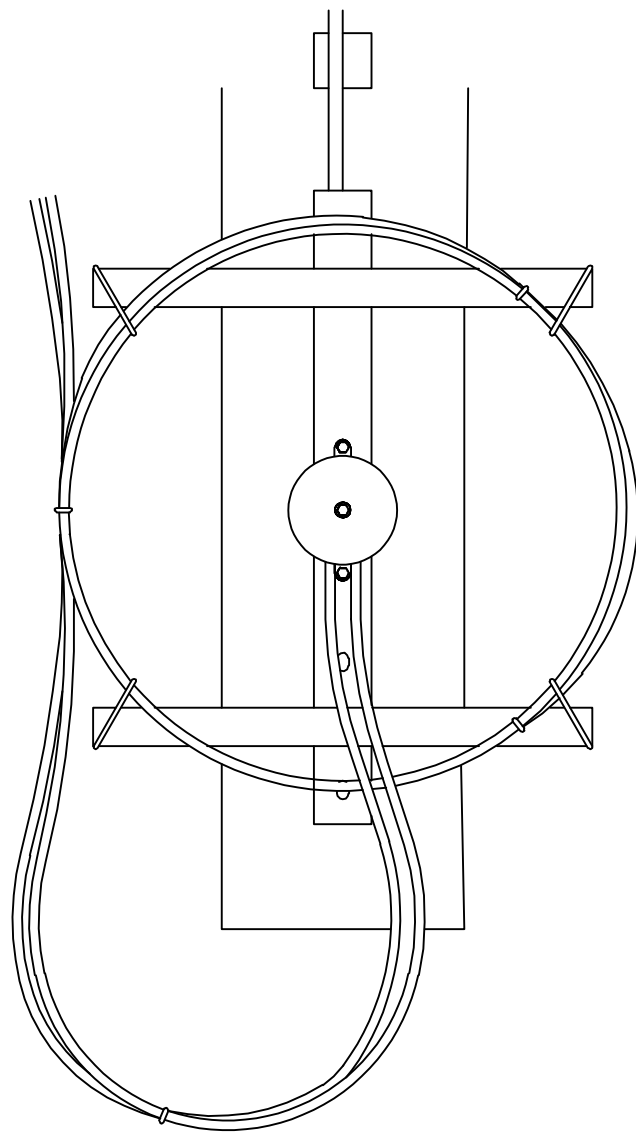


PLAN VIEW

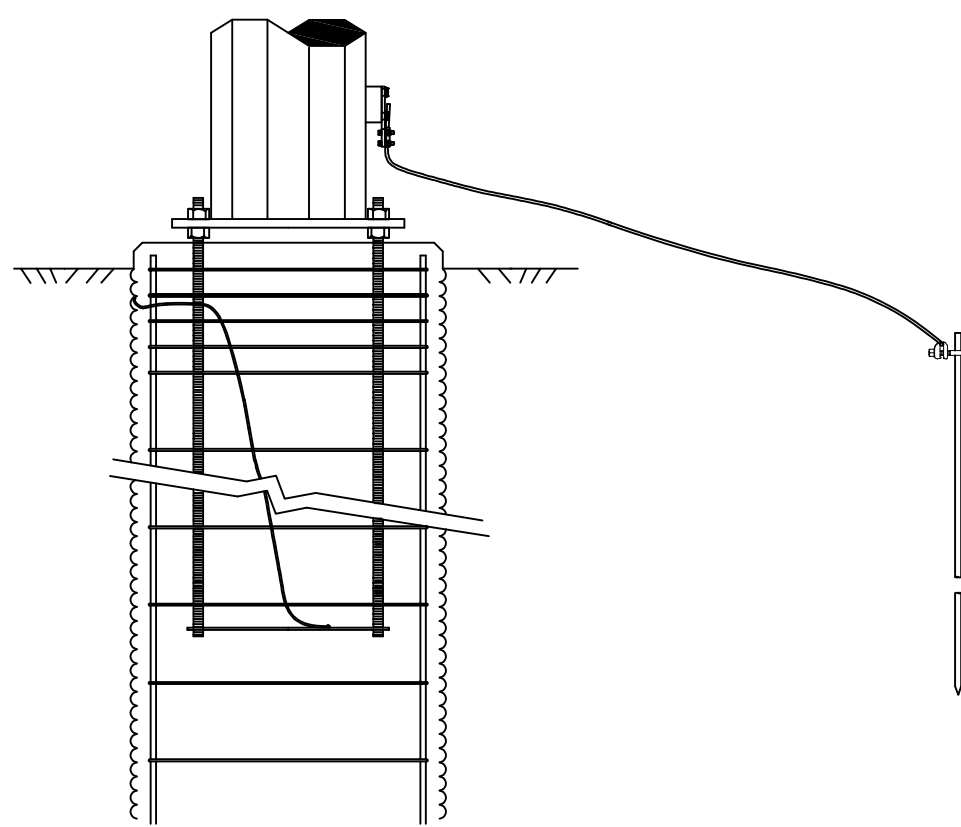
DETAIL 2
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00051)



DETAIL 3
795 KCMIL "DRAKE"
JUMPER ASSEMBLY
(NY-6.0-4.6-00005)



DETAIL 4
DNO-12019 SX-28/61/506
OPGW SPLICER BOX ASSEMBLY
(NY-6.0-4.6-00027)



DETAIL 5
GROUNDING
(NY-6.0-4.6-00015)

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD & BCK)	NY-6.0-4.6-00008	2
DETAIL 2 (AHD & BCK)	NY-6.0-4.6-00051	6
DETAIL 3	NY-6.0-4.6-00005	3
DETAIL 4	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 5	NY-6.0-4.6-00015	2

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	DESIGN LINE ANGLE RANGE
118	45'-0"	0°-10°
117	45'-0"	

T11510 LOCKPORT — BATAVIA
112 LINE REBUILD PROJECT
SINGLE CIRCUIT H-FRAME DEAD-END
STEEL POLE CONCEPT DRAWING
CONCRETE CAISSON FOUNDATION

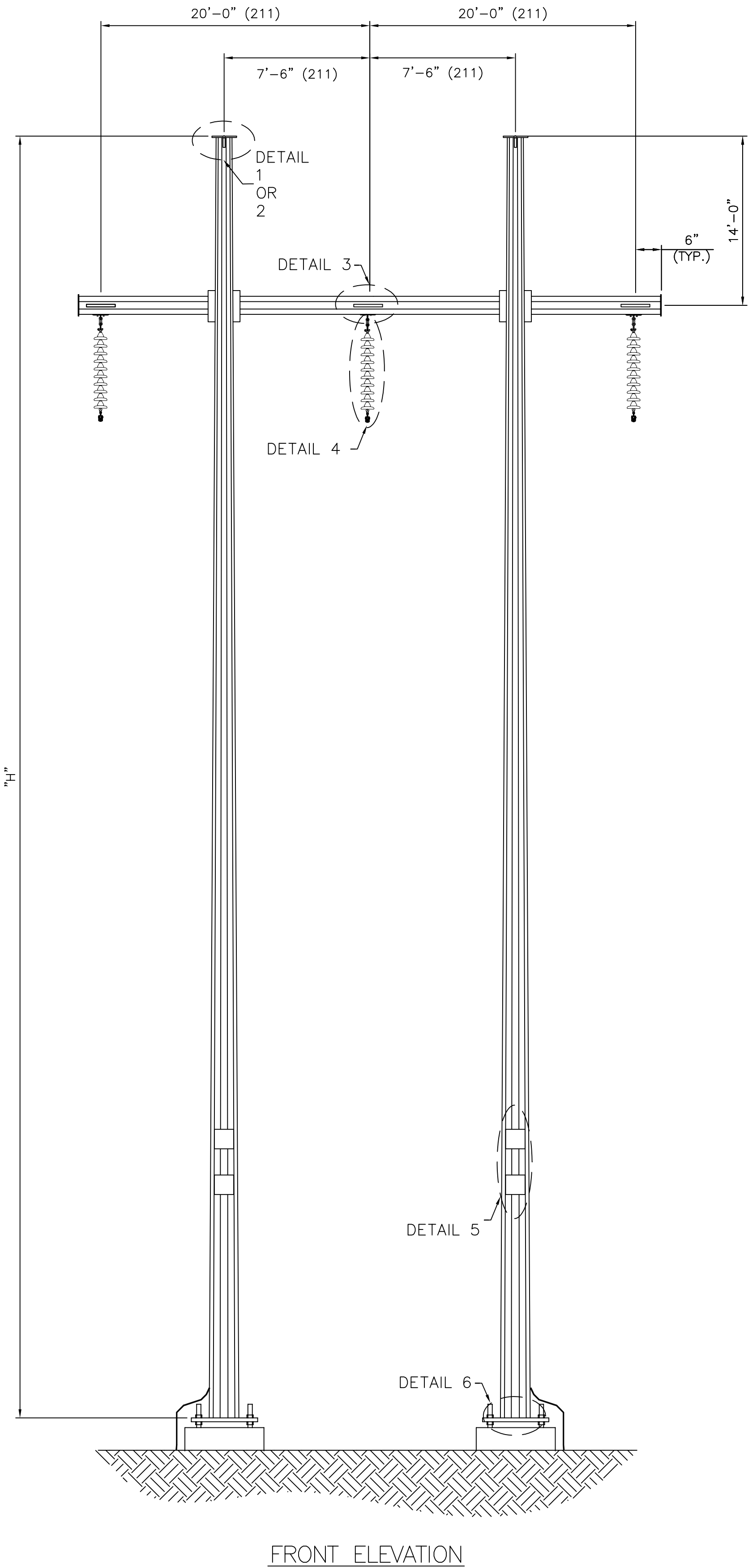
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REVIEWED BY	CJR	01/15/21
APPROVED BY	AIR	02/12/2021
SCALE	NTS	
SHEET	1	OF 1
INDEX		

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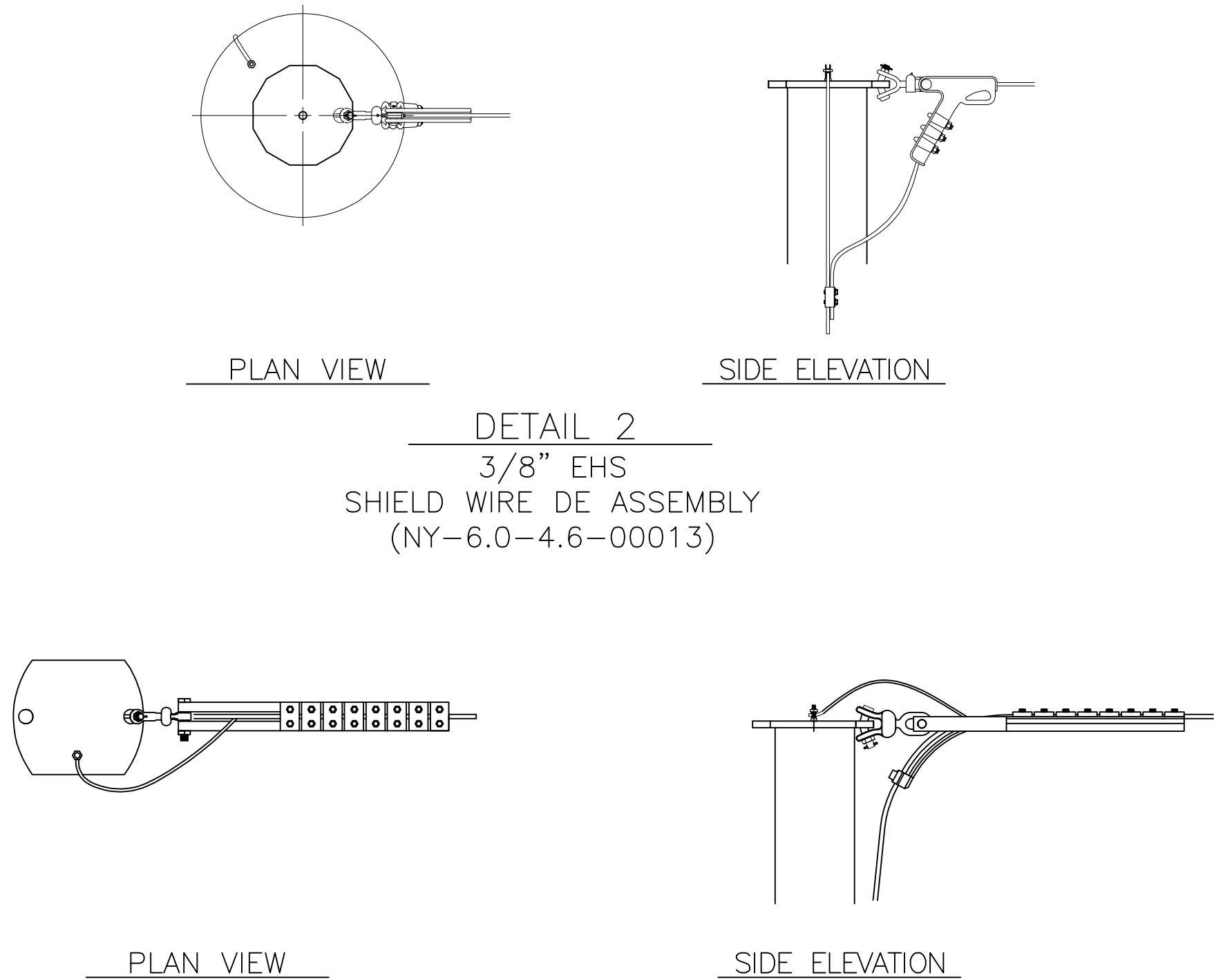
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2			
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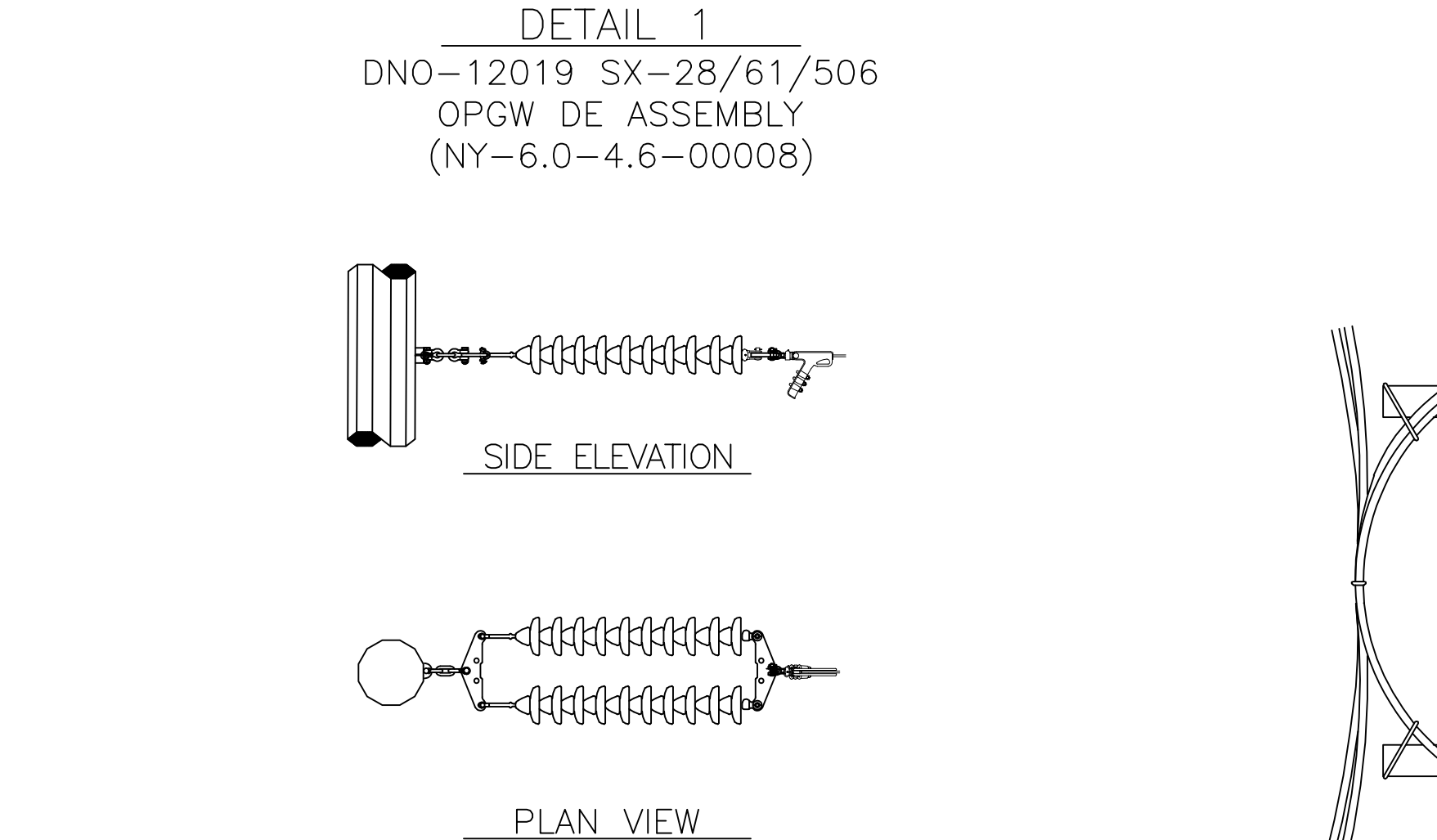
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FRONT ELEVATION

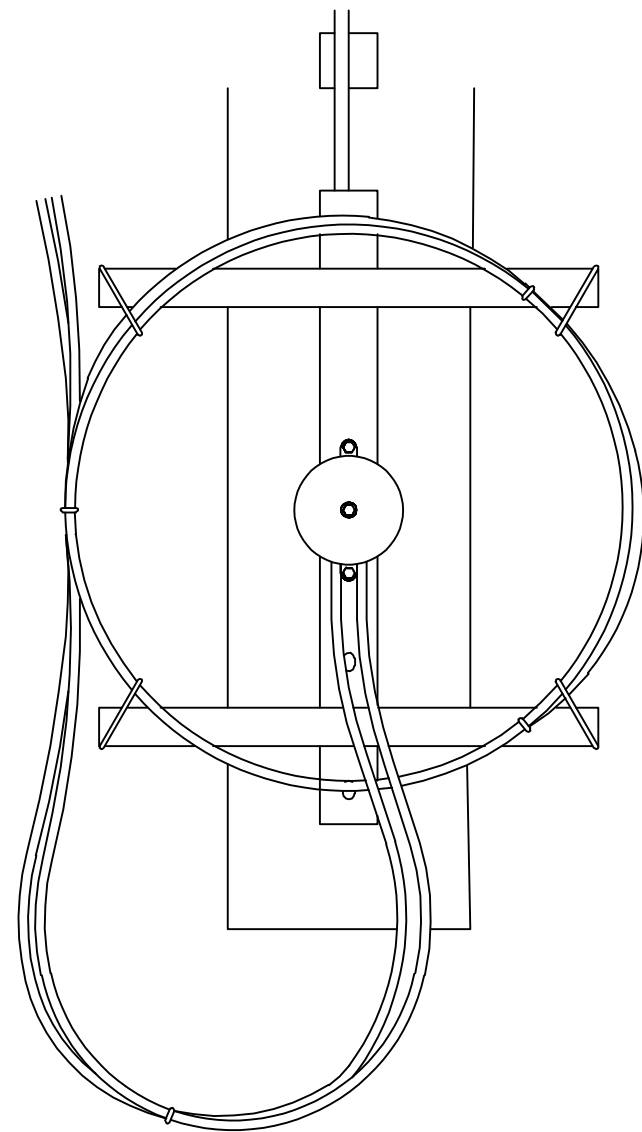


DETAIL 2
3/8" EHS
SHIELD WIRE DE ASSEMBLY
(NY-6.0-4.6-00013)

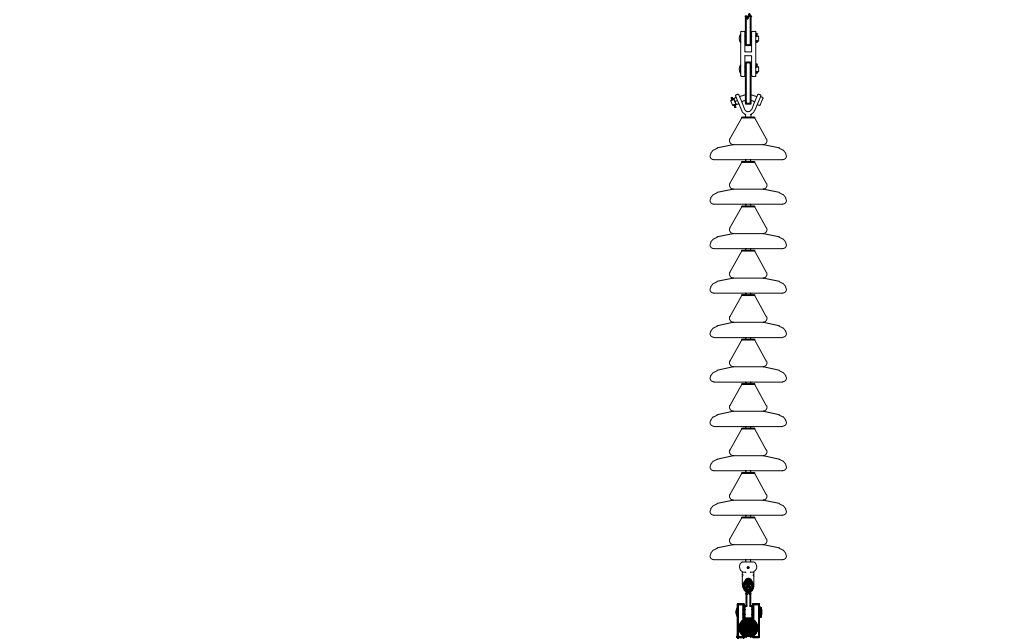


DETAIL 1
DNO-12019 SX-28/61/506
OPGW DE ASSEMBLY
(NY-6.0-4.6-00008)

SPLICE LOCATIONS:
211



DETAIL 5
DNO-12019 SX-28/61/506
OPGW SPLICE BOX ASSEMBLY
(NY-6.0-4.6-00027)

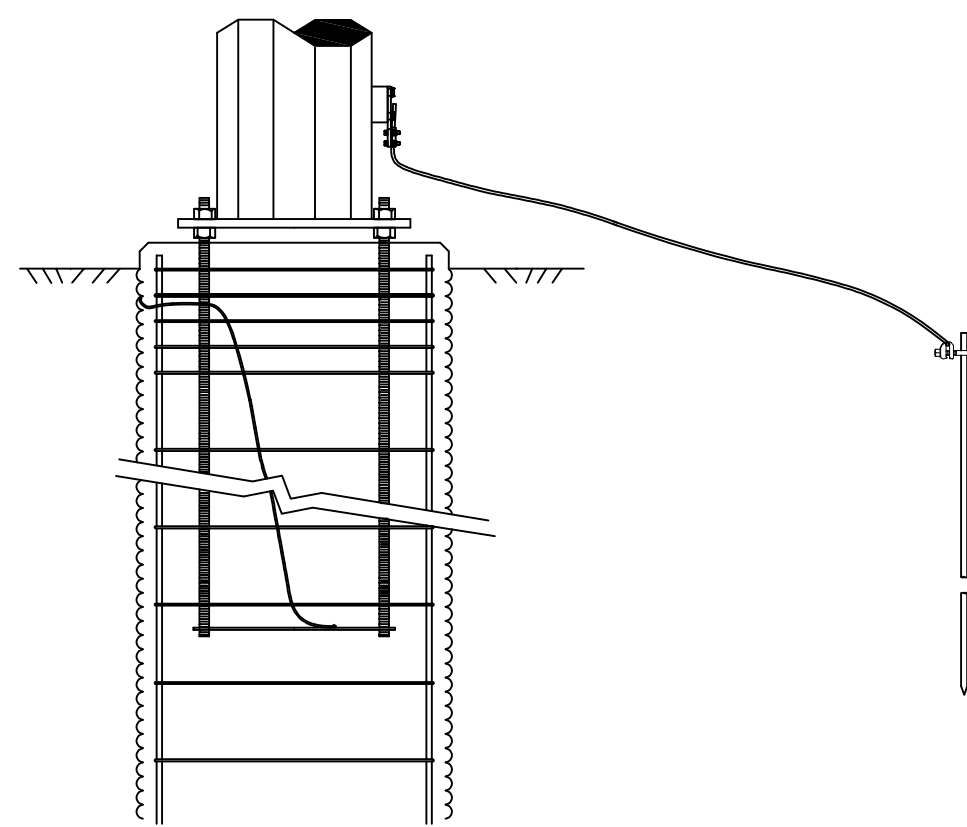


DETAIL 3
795 KCMIL "DRAKE"
DEADEND ASSEMBLY
(NY-6.0-4.6-00051)

DETAIL 4
795 KCMIL "DRAKE"
JUMPER ASSEMBLY
(NY-6.0-4.6-00005)

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (BCK)	NY-6.0-4.6-00008	1
DETAIL 2 (AHD)	NY-6.0-4.6-00013	1
DETAIL 2 (AHD & BCK)	NY-6.0-4.6-00051	6
DETAIL 3	NY-6.0-4.6-00005	3
DETAIL 4	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 5	NY-6.0-4.6-00015	2



DETAIL 6
GROUNDING
(NY-6.0-4.6-00015)

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	DESIGN LINE ANGLE RANGE
211	60'-0"	0°-10°

T1510 LOCKPORT — BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT H-FRAME DEAD-END

STEEL POLE CONCEPT DRAWING

CONCRETE CAISSON FOUNDATION

PREPARED BY: AIR 01/15/21

REVIEWED BY: CAIR 01/15/21

SCALE: NTS

SHEET: 1 OF 1

INDEX

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VERSION

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JCB AIR AIR

1

2

3

4

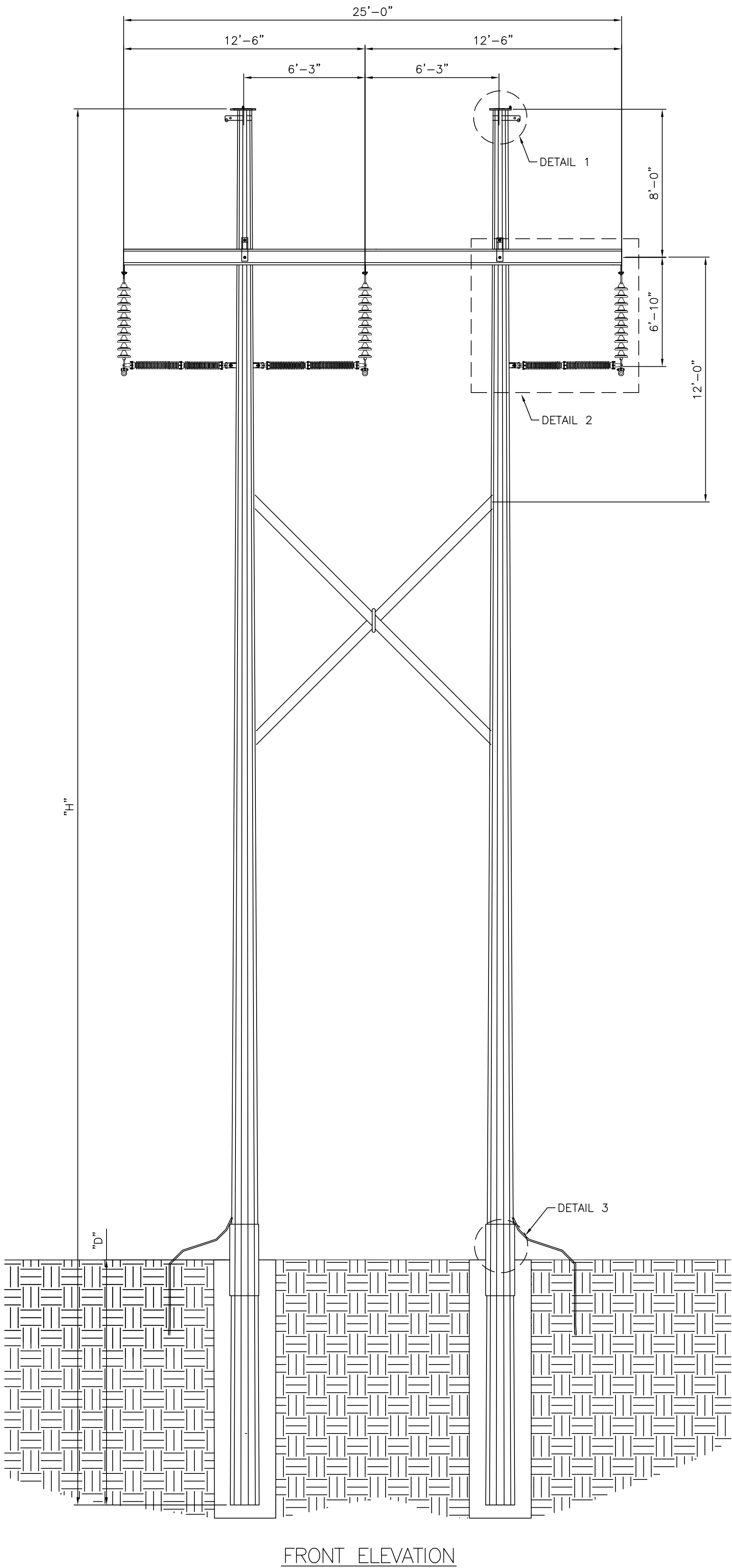
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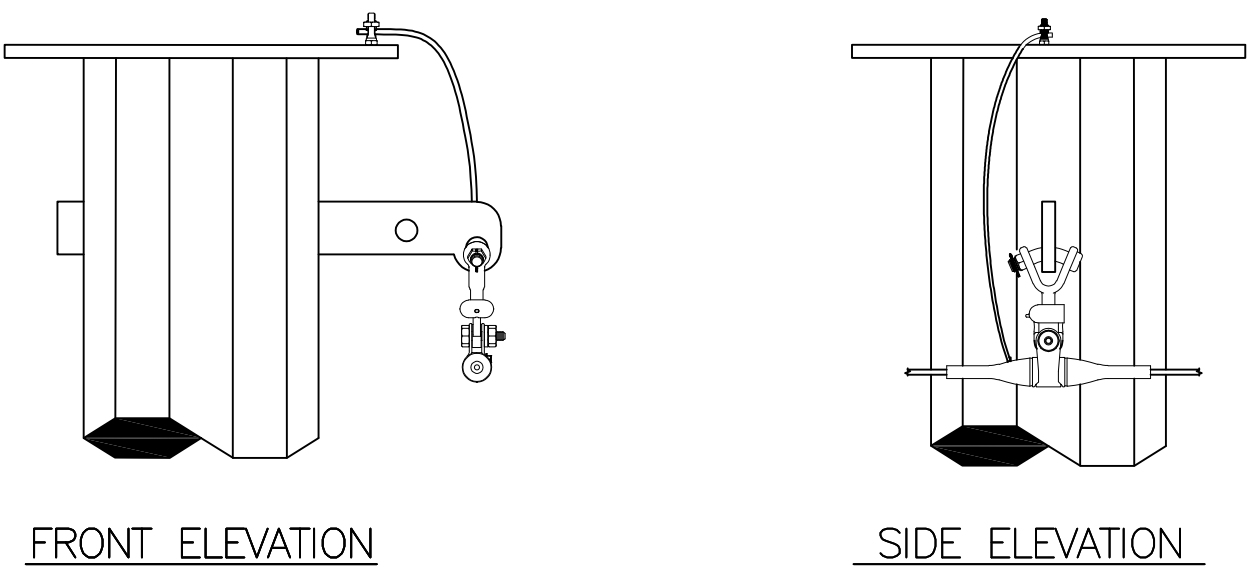
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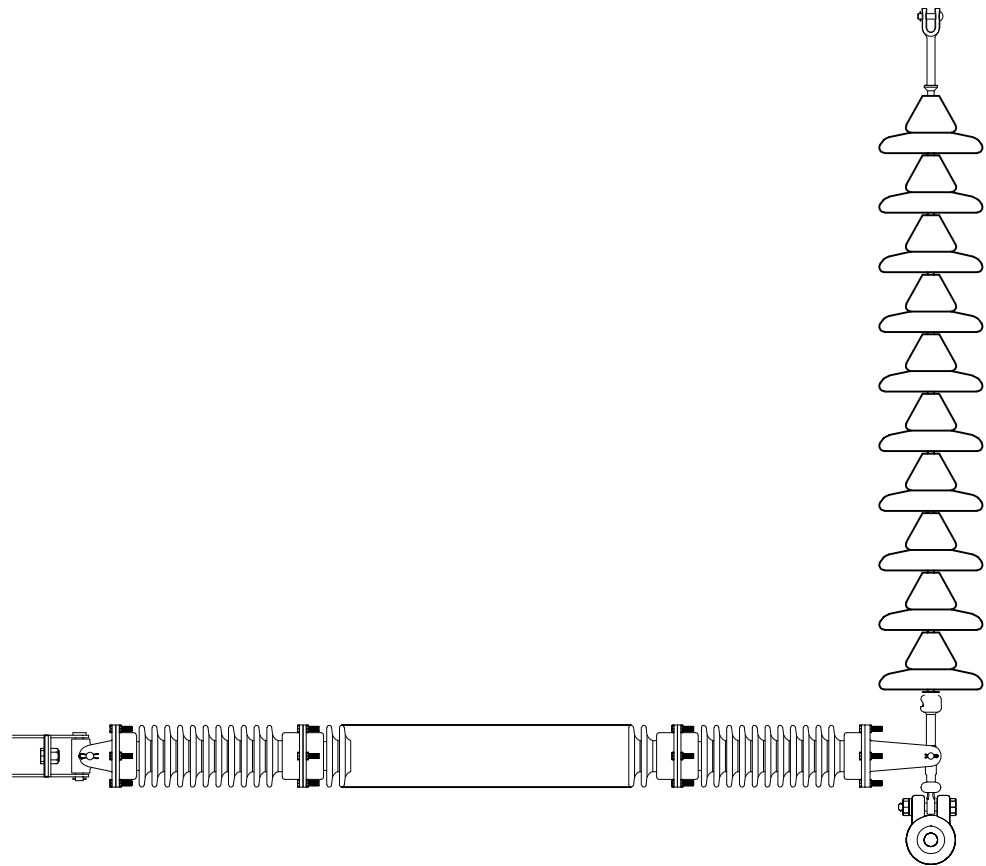
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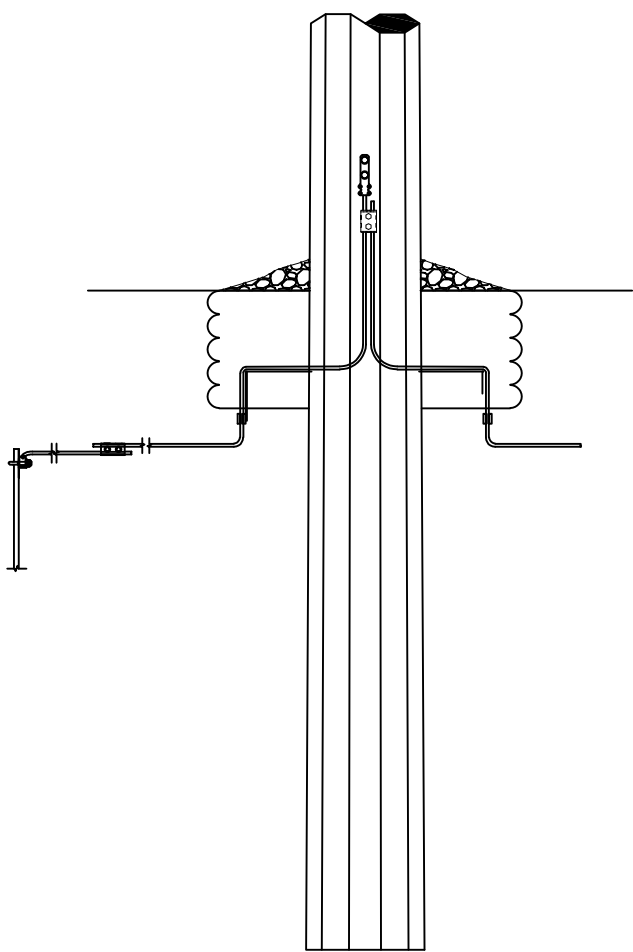
FRONT ELEVATION

SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW SUSPENSION
(NY-6.0-4.6-00007)



DETAIL 2
795 KCMIL "DRAKE"
CONDUCTOR SUSPENSION ASSEMBLY
(NY-6.0-4.6-00056)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00014)

INCHES ON ORIGINAL

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	EMBED (FT) "D"
171	75'-0"	15'-0"
172	75'-0"	

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

T11510 LOCKPORT – BATAVIA
112 LINE REBUILD PROJECT
SINGLE CIRCUIT H-FRAME RESTRAINED SUSPENSION
STEEL POLE CONCEPT DRAWING
DIRECT EMBEDDED FOUNDATION

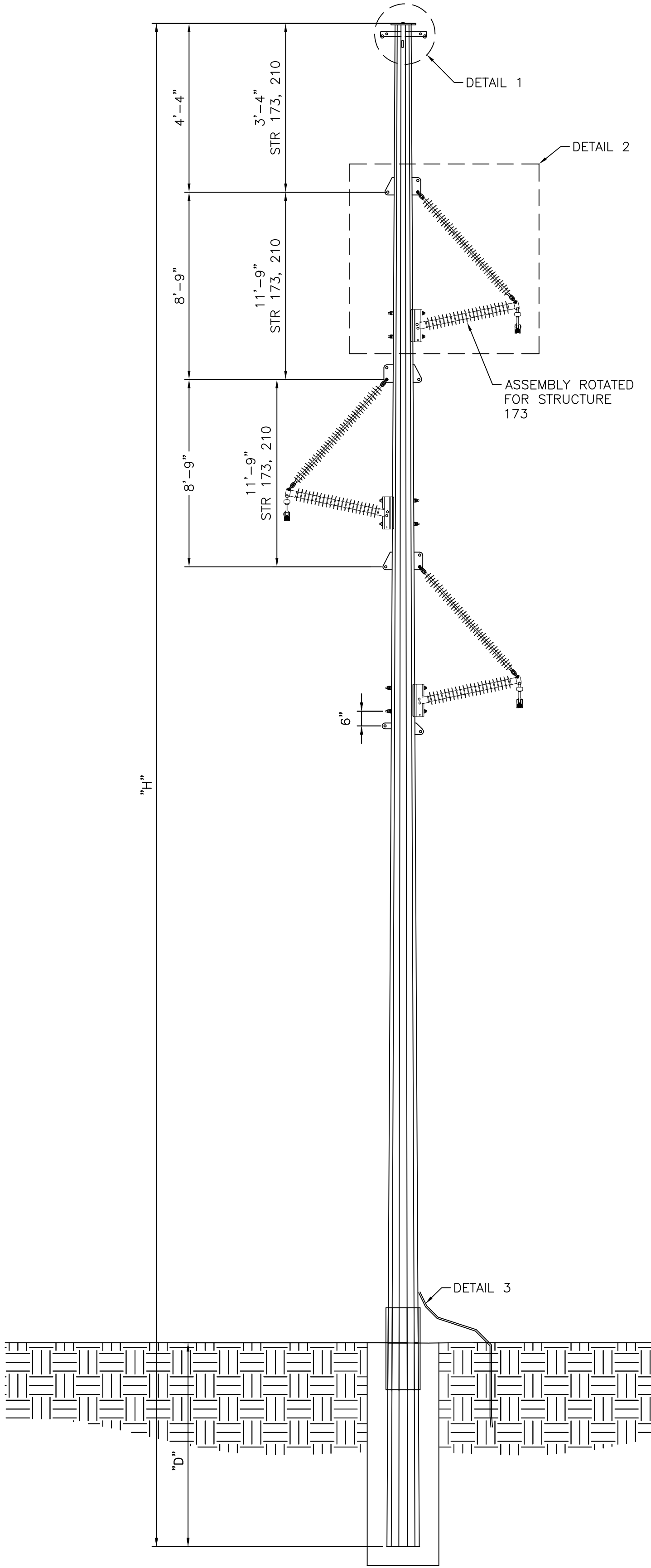
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REVIEWED BY	AIR	02/15/21
APPROVED BY	AIR	02/15/21
SCALE	SEE	NOTES
SHEET	1	OF 1
INDEX		-

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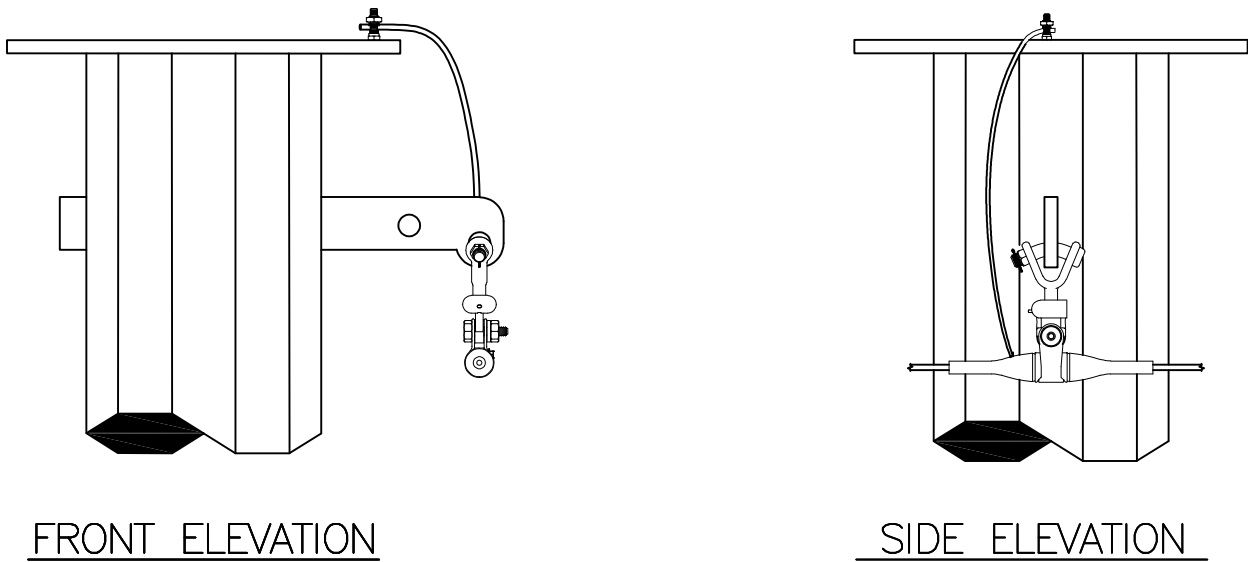
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4		AIR	
5		AIR	
6		AIR	
7		AIR	

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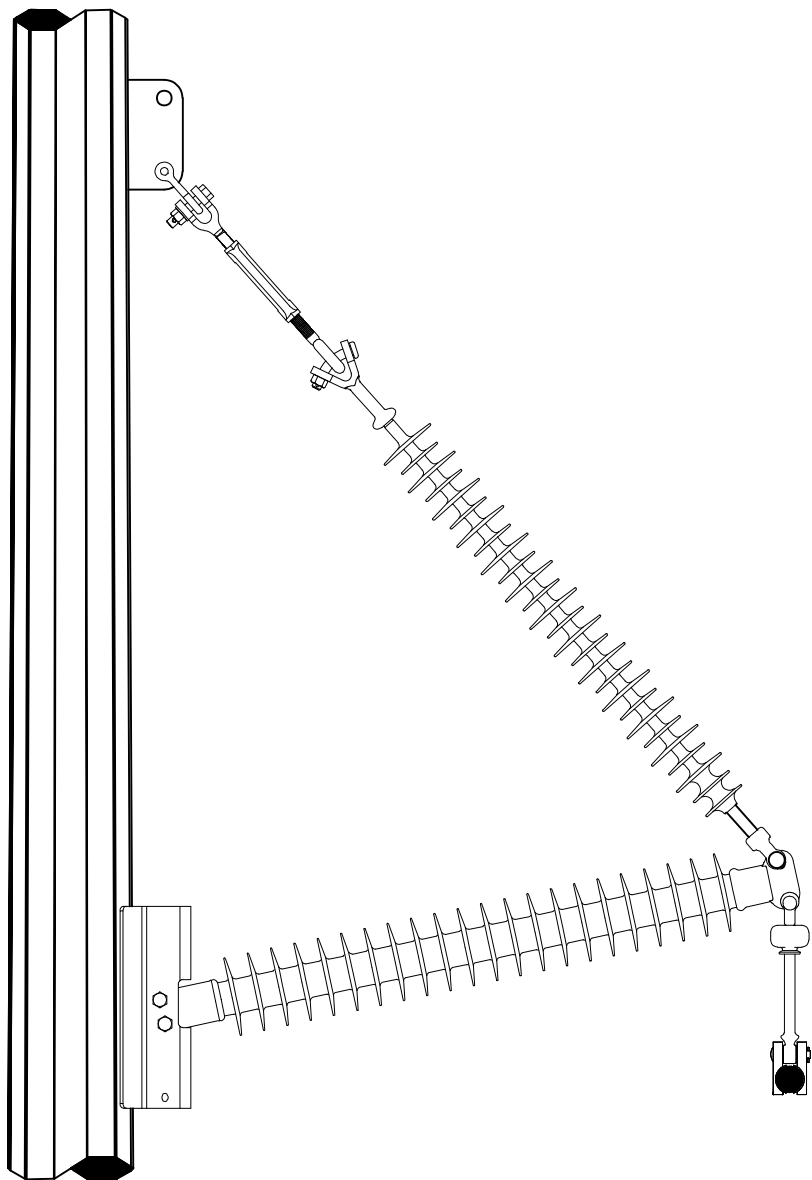
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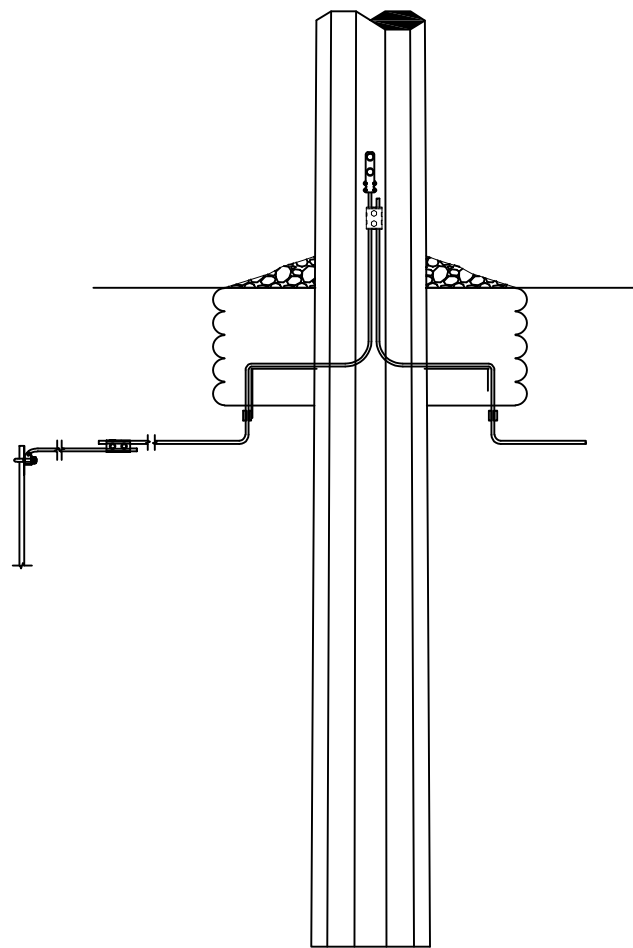
FRONT ELEVATION

SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW SUSPENSION
(NY-6.0-4.6-00007)



DETAIL 2
795 KCMIL "DRAKE"
BRACED LINE POST ASSEMBLY
(NY-6.0-4.6-0054)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00014)

INCHES ON ORIGINAL

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	EMBED (FT) "D"
191-1	80'-0"	16'-0"
21, 208, 208-1	90'-0"	20'-0"
190, 191, 192, 196	90'-0"	16'-0"
195	90'-0"	17'-0"
193, 194	95'-0"	18'-0"
8-1, 19, 20, 22, 23, 25, 26, 28, 29, 30, 31, 32, 34, 35, 76, 77, 86, 97, 98, 99, 100, 102, 103, 104, 105, 110, 111, 113, 122, 125, 127, 135, 136, 205, 205-1, 206, 207, 209	95'-0"	20'-0"
6, 7, 8, 9, 11, 12, 13, 18, 27, 33, 83, 85, 94, 95, 96, 101, 106, 107, 109, 112, 114, 201, 202, 203, 204, 210	100'-0"	20'-0"
5, 10, 14, 17, 84, 93, 120, 199	105'-0"	20'-0"
116, 116-1	110'-0"	20'-0"
44, 45, 46	90'-0"	22'-0"
39, 40, 41, 43, 47, 50, 71, 74, 89	95'-0"	22'-0"
24, 37, 38, 42, 48, 49, 51, 52, 53, 54, 55, 68, 69, 70, 72, 73, 75, 78, 79, 87, 88, 90, 121, 123, 124, 126, 128, 130, 131, 132, 133, 134, 137, 138, 140, 173, 185, 186, 187, 188, 189	100'-0"	22'-0"
91, 139, 142	105'-0"	22'-0"
16	105'-0"	20'-0"
197, 198	105'-0"	18'-0"

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00007	1
DETAIL 2	NY-6.0-4.6-0054	3
DETAIL 3	NY-6.0-4.6-00014	1

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

T1510 LOCKPORT – BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT BRACED POST TANGENT

STEEL POLE CONCEPT DRAWING

DIRECT EMBEDDED FOUNDATION

PREPARED BY: JCB

REVIEWED BY: AIR

SCALE

SHEET 1

INDEX

02/15/21

02/15/21

02/15/21

1

1

1

1

1

nationalgrid

VERSION

ISSUED FOR BID

1

2

3

4

5

6

7

REVISIONS

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1

2

3

4

5

6

7

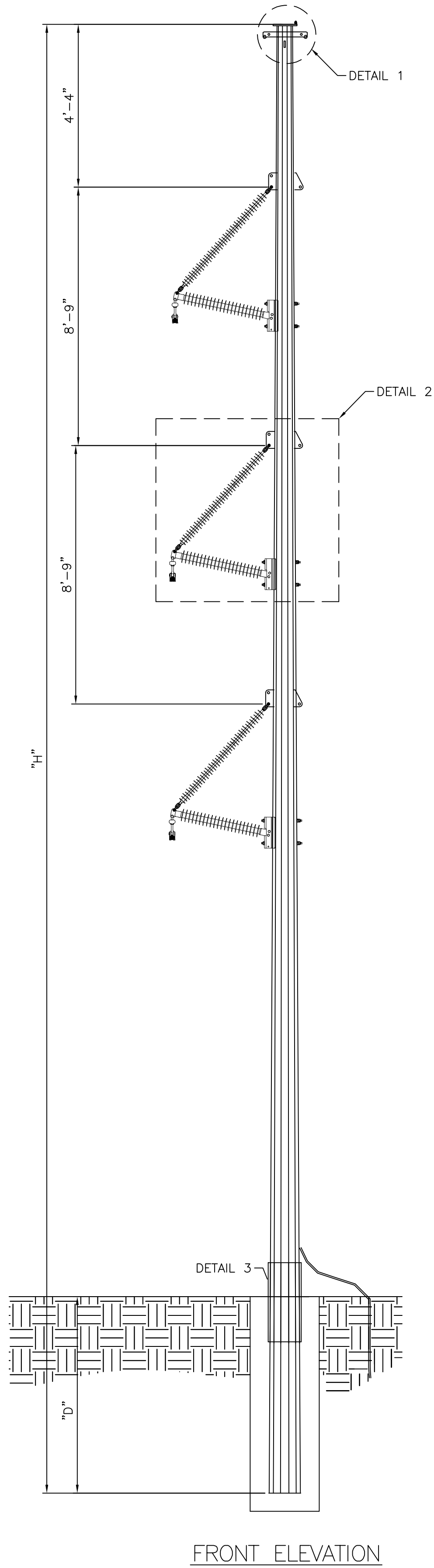
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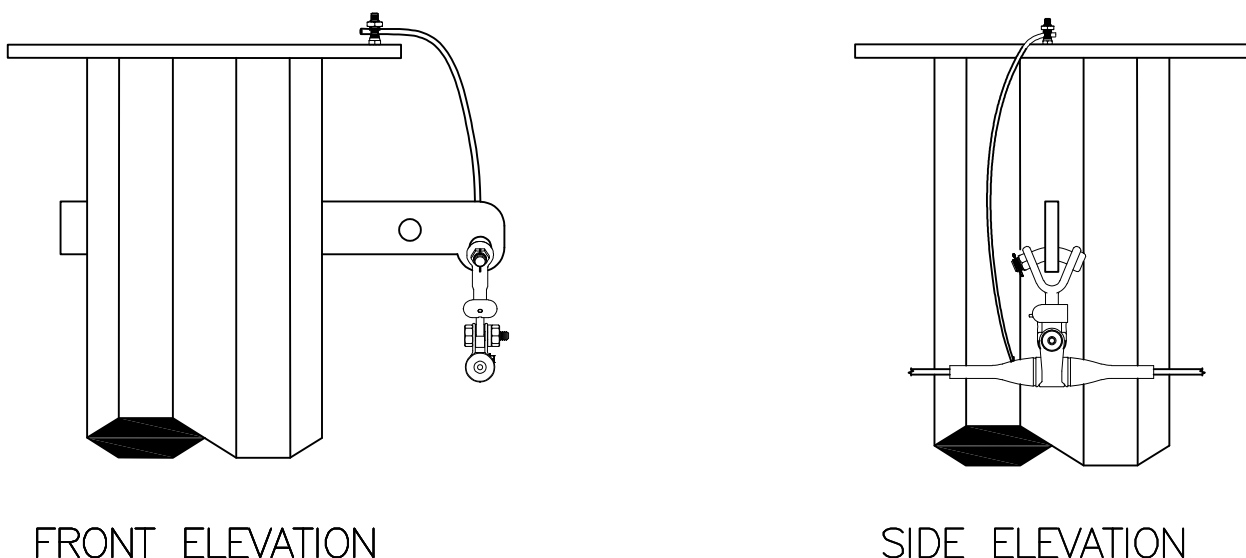
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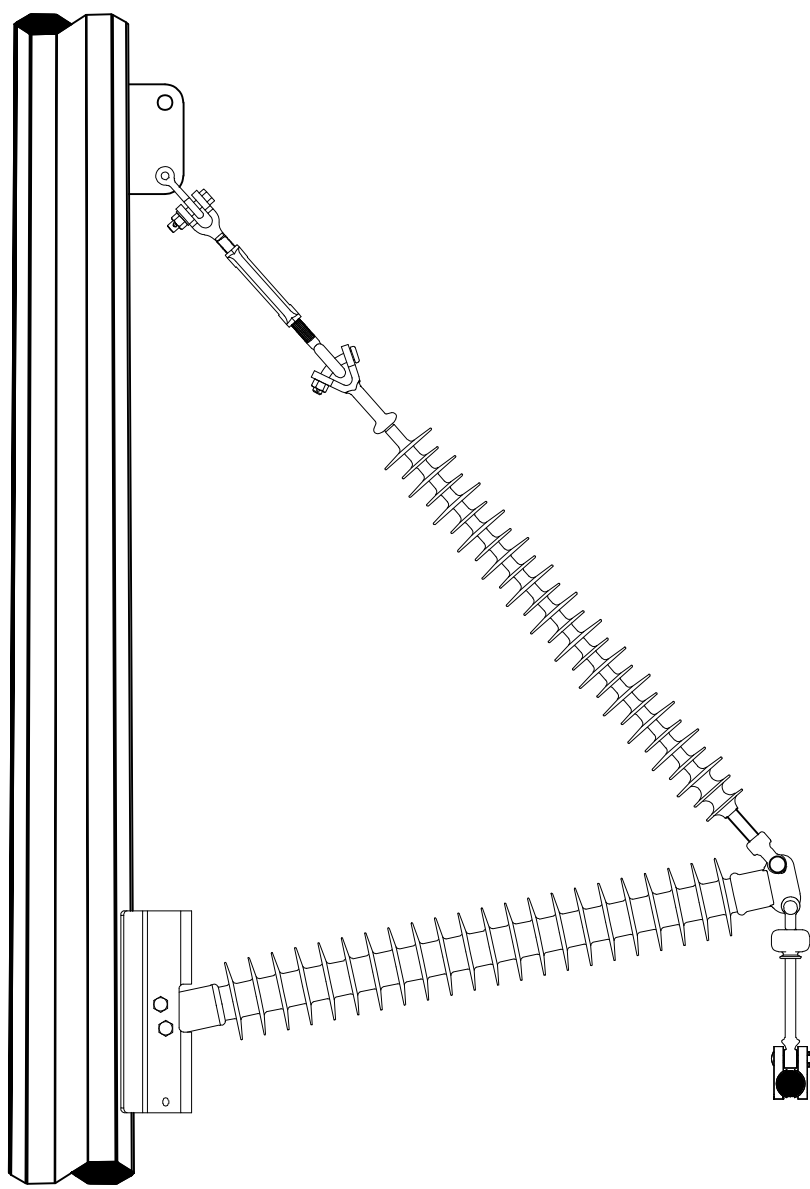
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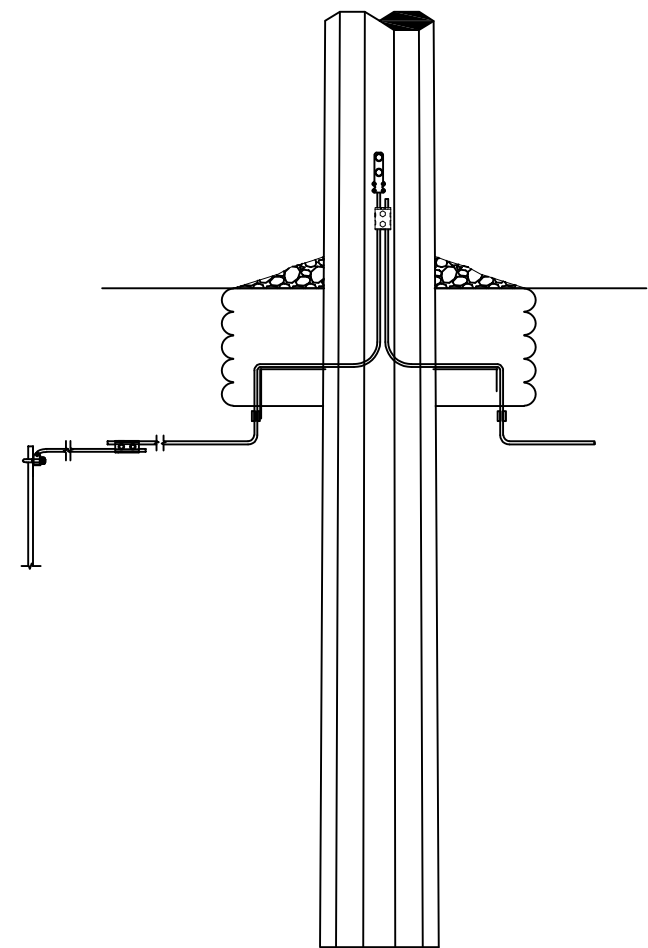
FRONT ELEVATION

SIDE ELEVATION

DETAIL 1
SW SUSPENSION
(NY-6.0-4.6-00038)



DETAIL 2
795 KCMIL "DRAKE"
BRACED LINE POST ASSEMBLY
(NY-6.0-4.6-0054)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00014)

STR. NO.	STR. HT. (FT) "H"	EMBED (FT) "D"
3-1-T1530	125'-0"	20'-0"

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00038	1
DETAIL 2	NY-6.0-4.6-0054	3
DETAIL 3	NY-6.0-4.6-00014	1

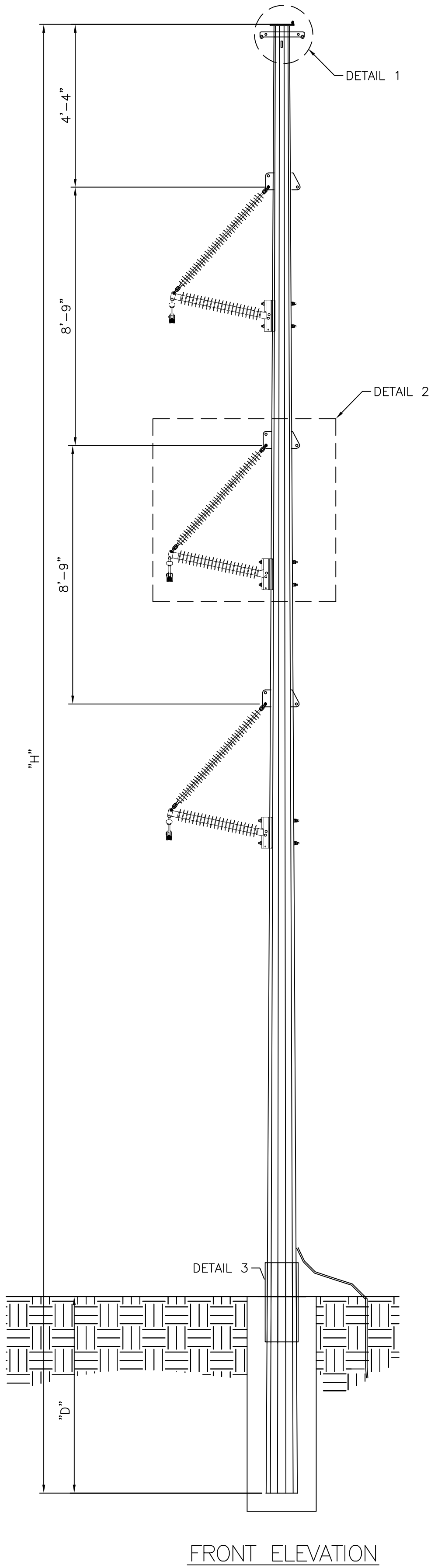
T1510 LOCKPORT — BATAVIA		112 LINE REBUILD PROJECT		SINGLE CIRCUIT BRACED POST TANGENT		STEEL POLE CONCEPT DRAWING		DIRECT EMBEDDED FOUNDATION	
PREPARED BY	JCB	DATE	02/15/21	REVIEWED BY	AIR	DATE	02/15/21	ISSUED FOR	BID
APPROVED BY	AIR	DATE	02/15/21	SCALE	SEE NOTES	SHEET	1	OF	1
INDEX									
nationalgrid									
VERSION									
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2									
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INCHES ON ORIGINAL

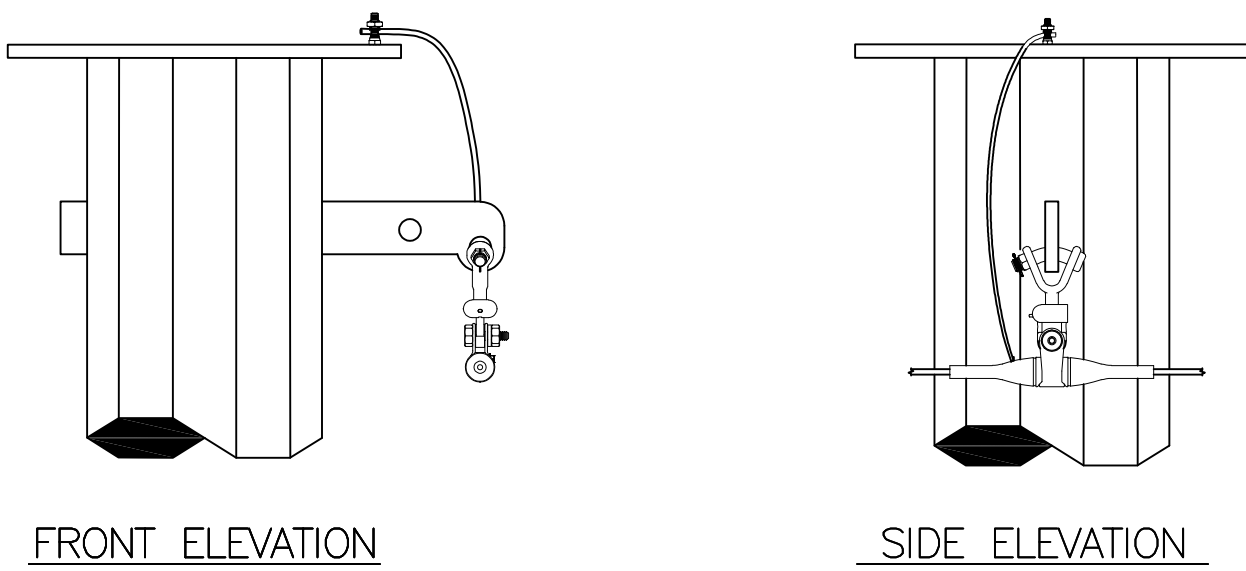
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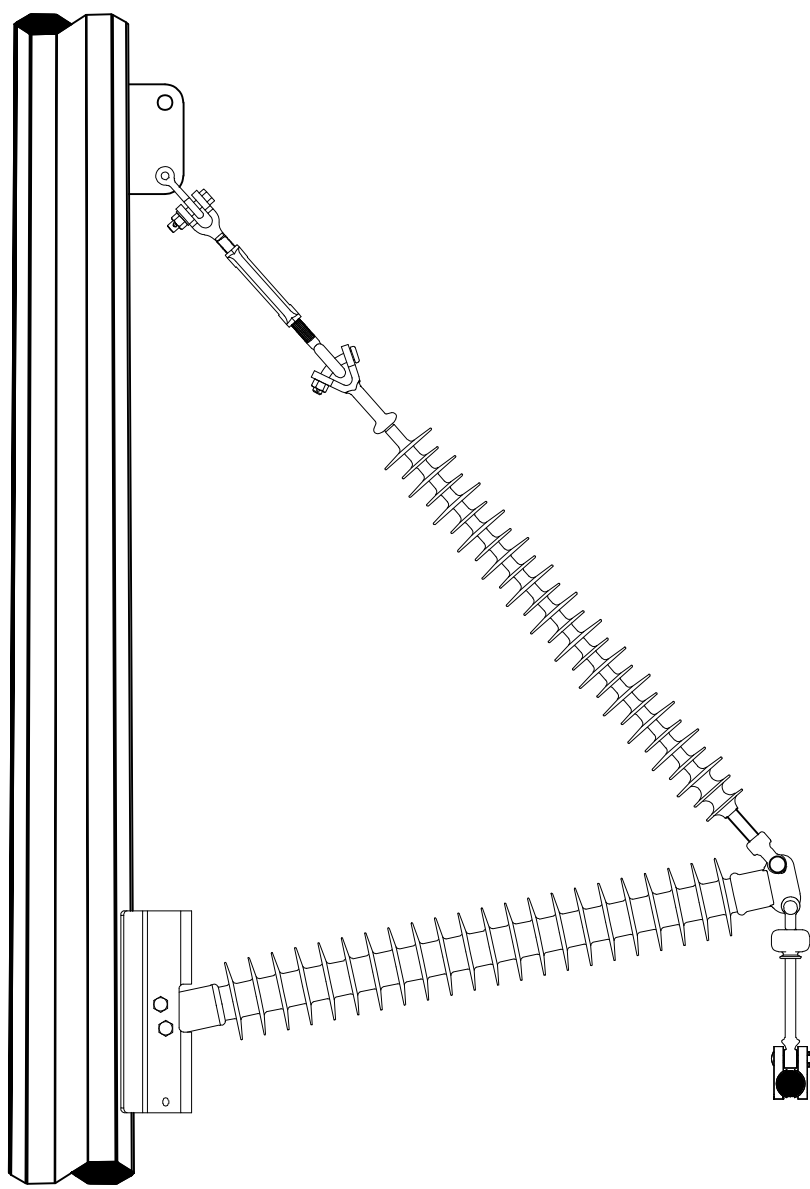
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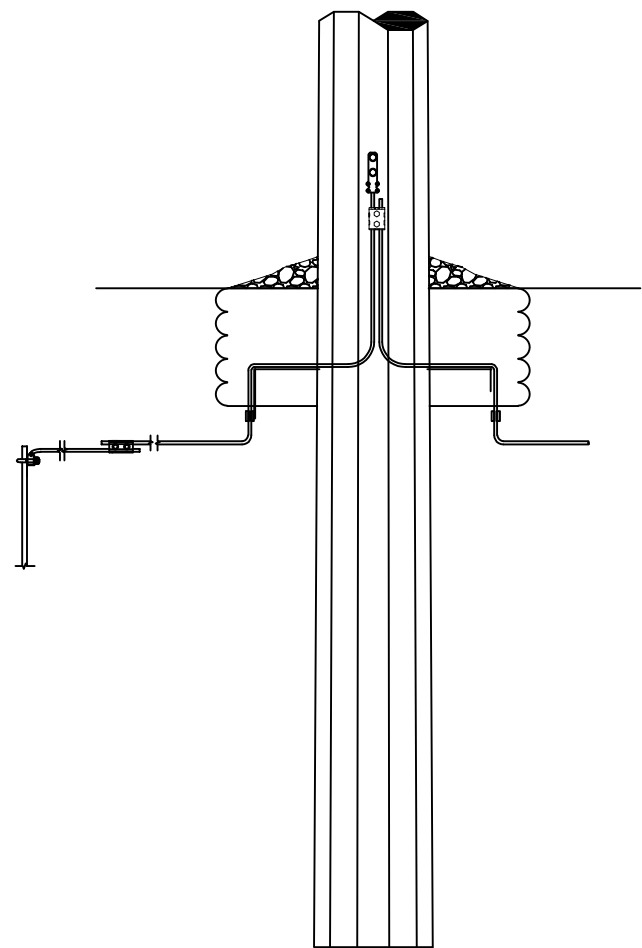
FRONT ELEVATION

SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW SUSPENSION
(NY-6.0-4.6-00007)



DETAIL 2
795 KCMIL "DRAKE"
BRACED LINE POST ASSEMBLY
(NY-6.0-4.6-0054)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00014)

STR. NO.	STR. HT. (FT) "H"	EMBED (FT) "D"
3-1-T1510	125'-0"	20'-0"
81	90'-0"	20'-0"
81-1	90'-0"	20'-0"

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00007	1
DETAIL 2	NY-6.0-4.6-0054	3
DETAIL 3	NY-6.0-4.6-00014	1

T1510 LOCKPORT – BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT BRACED POST TANGENT

STEEL POLE CONCEPT DRAWING

DIRECT EMBEDDED FOUNDATION

PREPARED BY: JCB 02/15/21

REVIEWED BY: AIR 02/15/21

APPROVED BY: AIR 02/15/21

SCALE: SEE NOTES

SHEET: 1 OF 1

INDEX: –

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VER	DATE	DESCRIPTION
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2		
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4		
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6		
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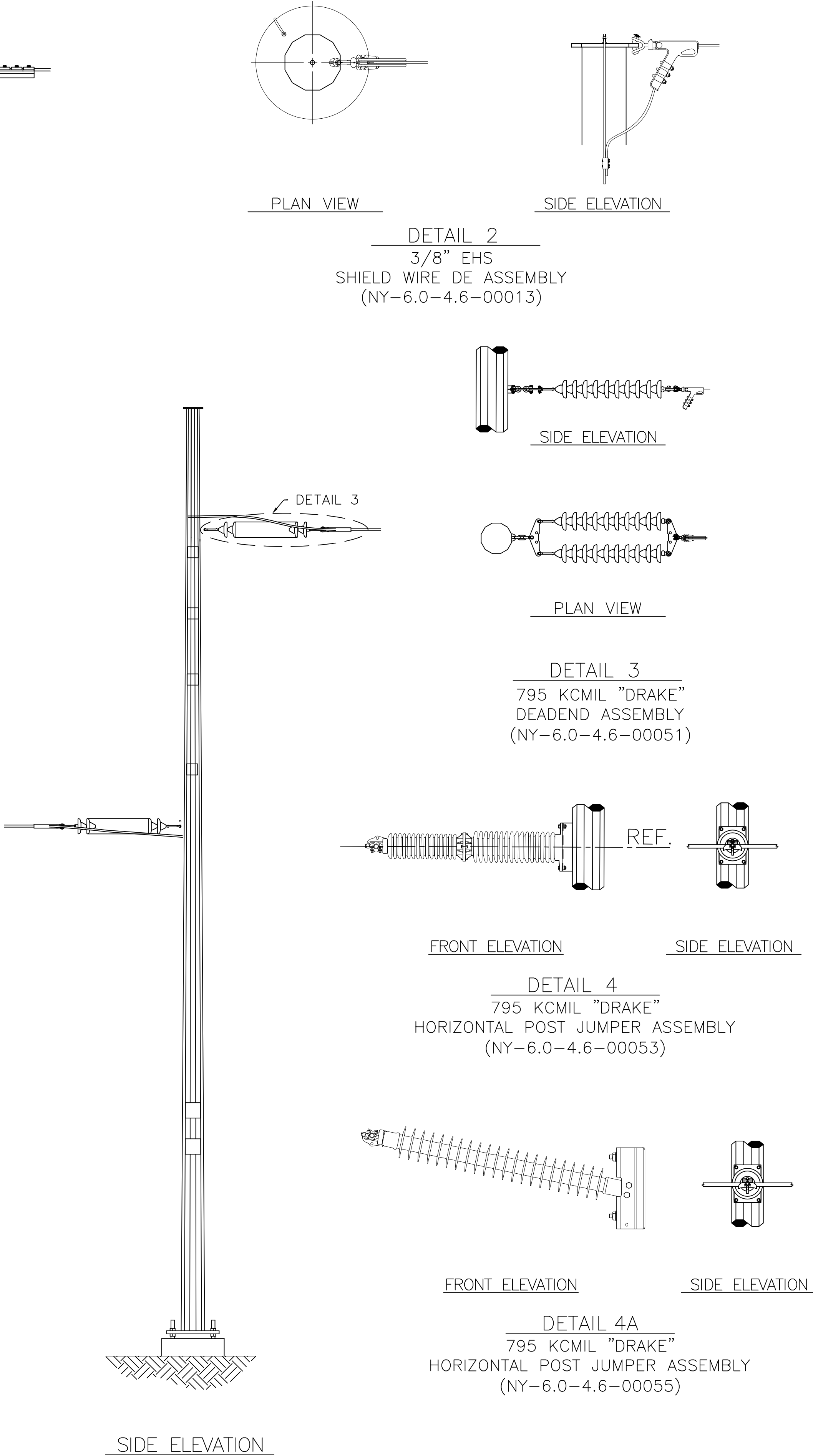
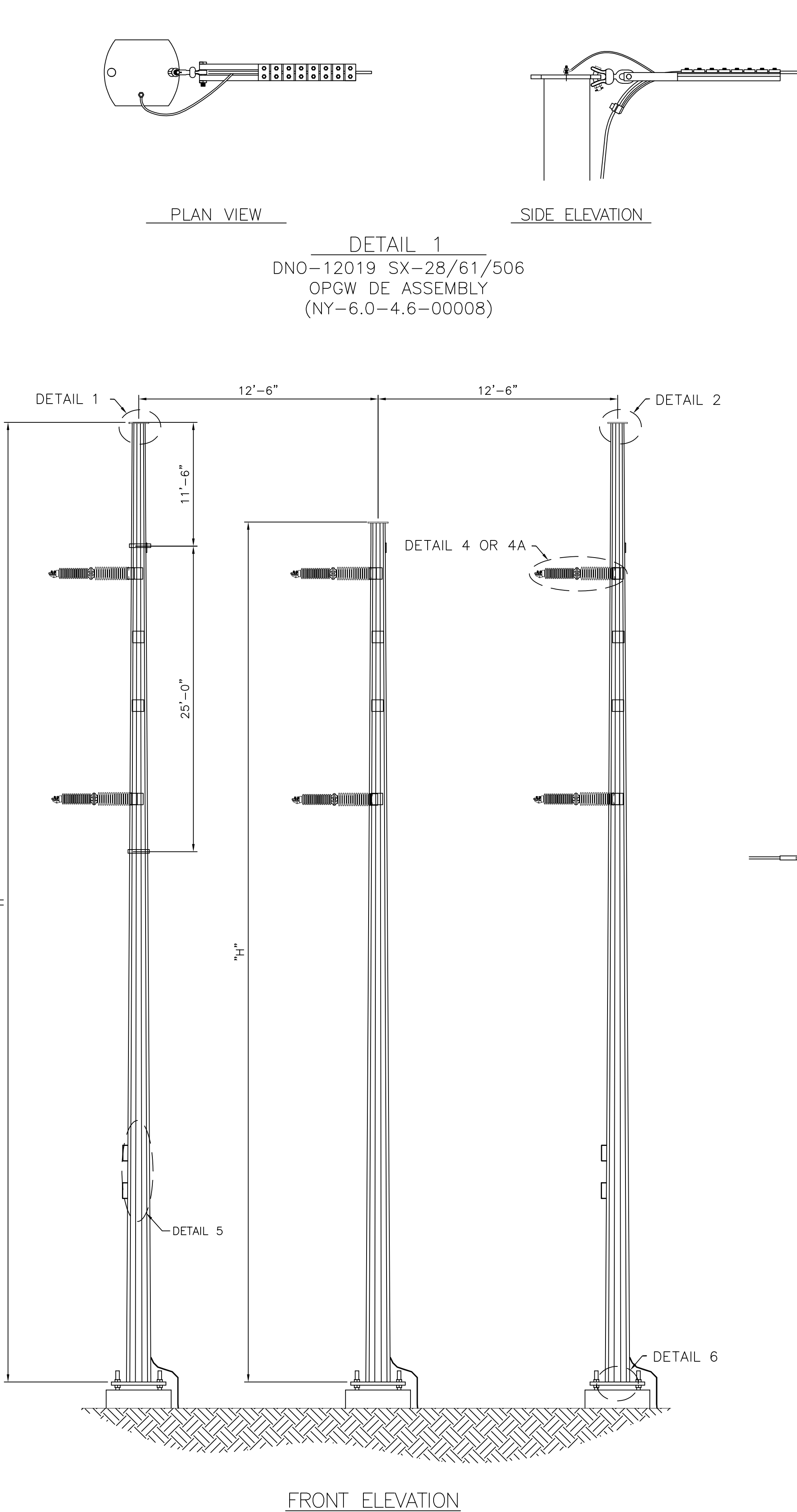
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INCHES ON ORIGINAL

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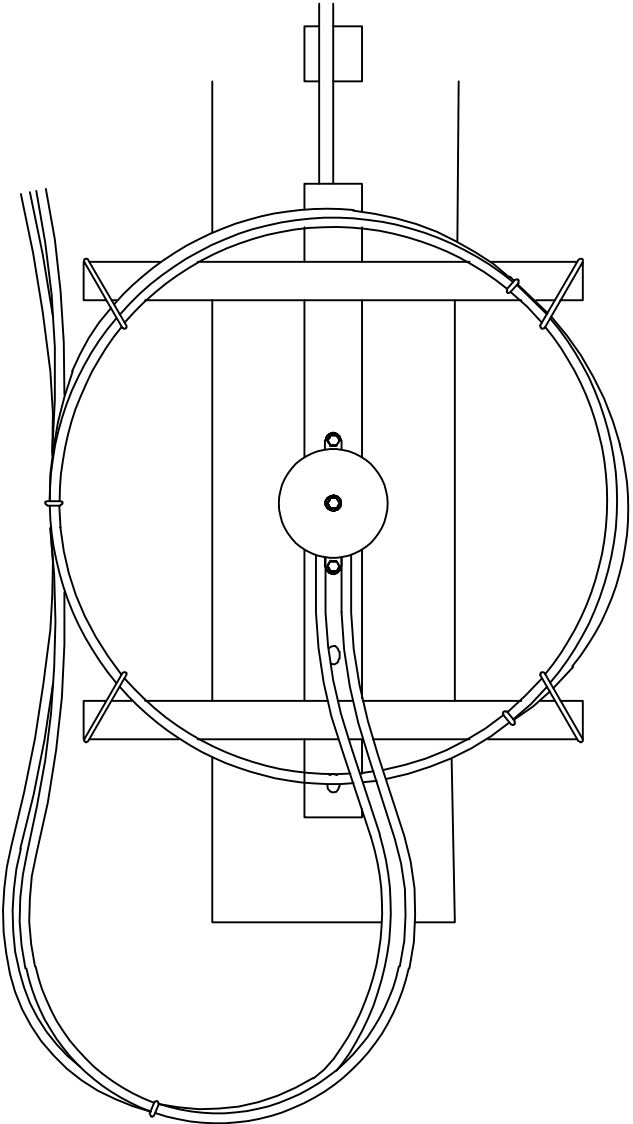
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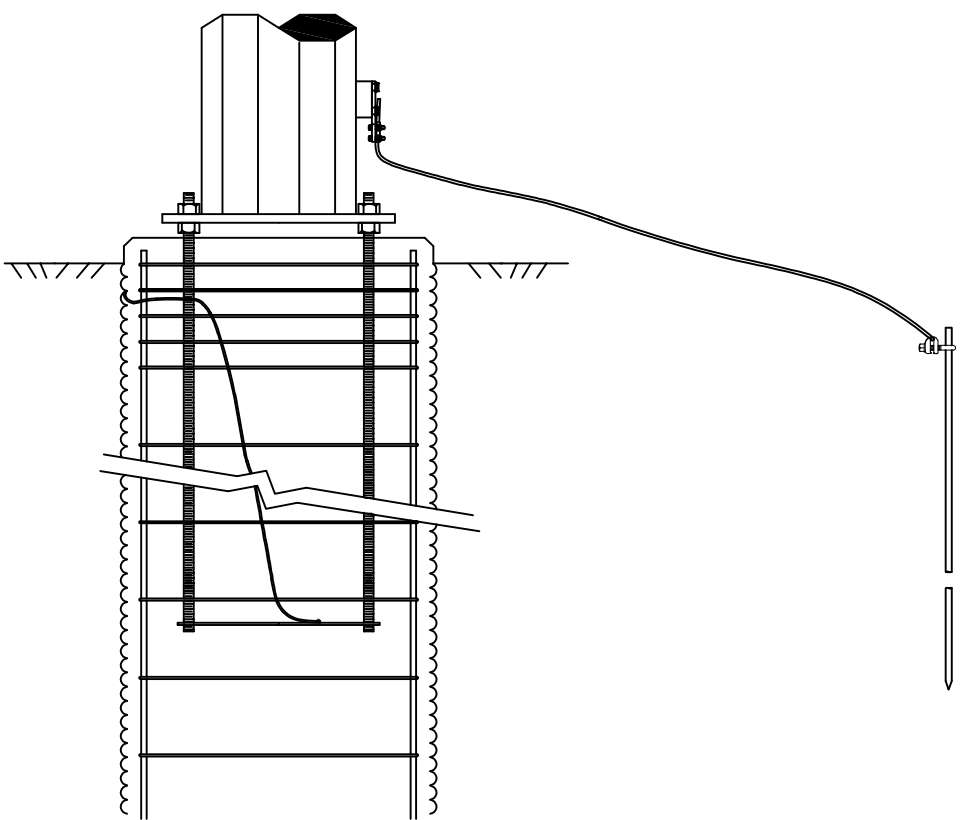


DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1 (AHD ONLY)	NY-6.0-4.6-00008	1
DETAIL 2 (AHD ONLY)	NY-6.0-4.6-00013	1
DETAIL 3 (AHD & BCK)	NY-6.0-4.6-00051	6
DETAIL 4	NY-6.0-4.6-00053	9
DETAIL 4A	NY-6.0-4.6-00055	9
DETAIL 5	NY-6.0-4.6-00027	SPLICE LOCATION
DETAIL 6	NY-6.0-4.6-00015	3

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.



DETAIL 5
DNO-12019 SX-28/61/506
OPGW SPLICE BOX ASSEMBLY
(NY-6.0-4.6-00027)



DETAIL 6
GROUNDING
(NY-6.0-4.6-00015)

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	DESIGN LINE ANGLE RANGE
1-5	65'-0", 55'-0", 65'-0"	0°-5°

T1510 LOCKPORT – BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT 3-POLE DEAD-END

STEEL POLE CONCEPT DRAWING

CONCRETE CAISSON FOUNDATION

PREPARED BY: AIR 04/31/2021

REVIEWED BY: CJR 04/24/2021

APPROVED BY: AIR 04/31/2021

SCALE: NTS

SHEET: 1 OF 1

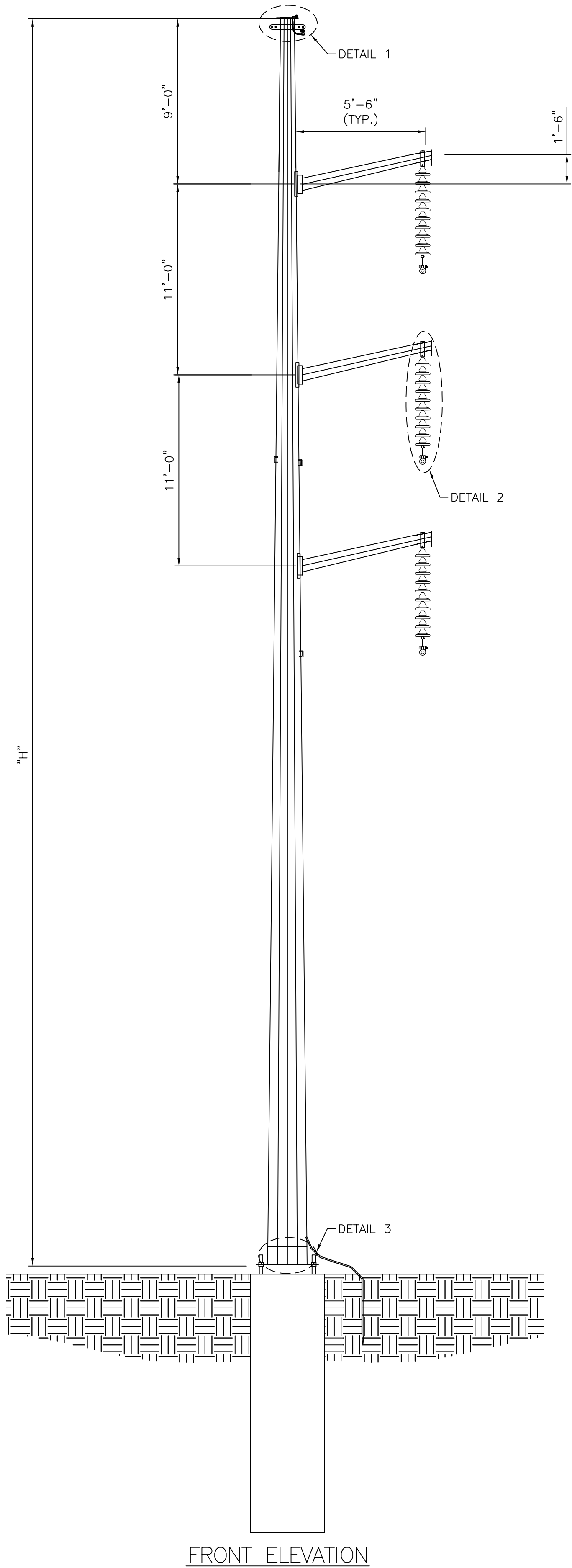
INDEX

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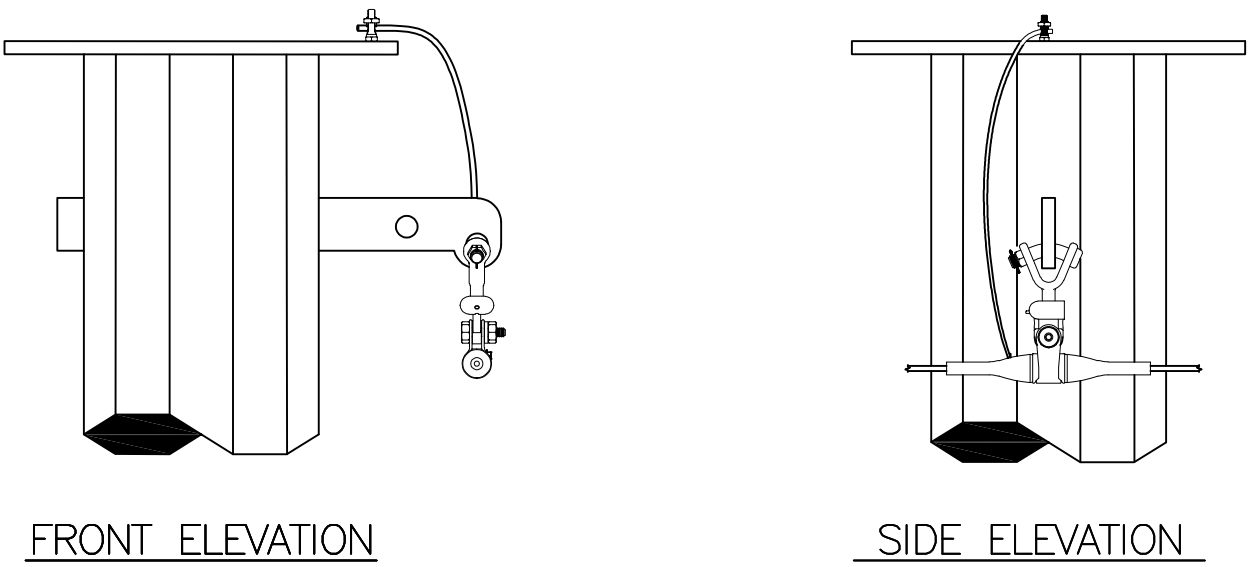
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2		AIR	CJR
3		AIR	CJR
4		AIR	CJR
5		AIR	CJR
6		AIR	CJR
7		AIR	CJR

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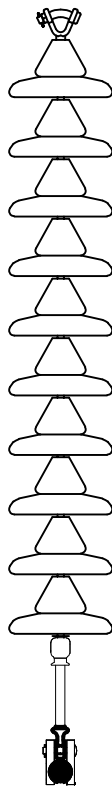
FRONT ELEVATION



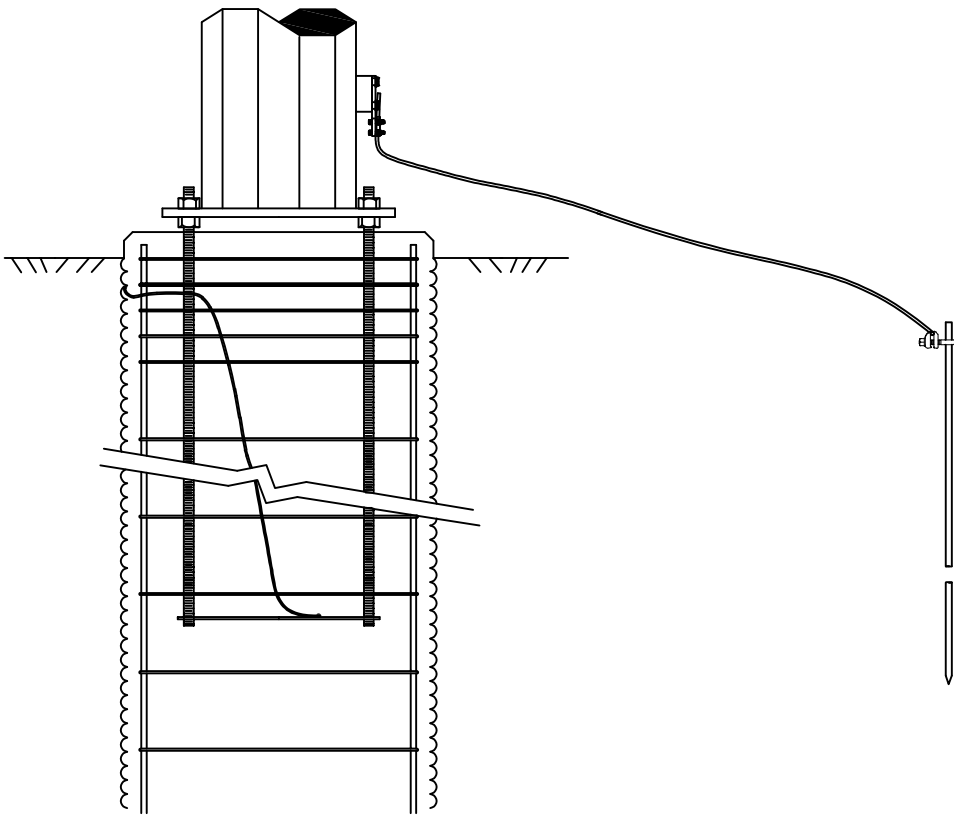
FRONT ELEVATION

SIDE ELEVATION

DETAIL 1
DNO-12019 SX-28/61/506
OPGW SUSPENSION
(NY-6.0-4.6-00007)



DETAIL 2
795 KCMIL "DRAKE"
CONDUCTOR SUSPENSION ASSEMBLY
(NY-6.0-4.6-00005)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00015)

INCHES ON ORIGINAL

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00007	1
DETAIL 2	NY-6.0-4.6-00005	3
DETAIL 3	NY-6.0-4.6-00015	1

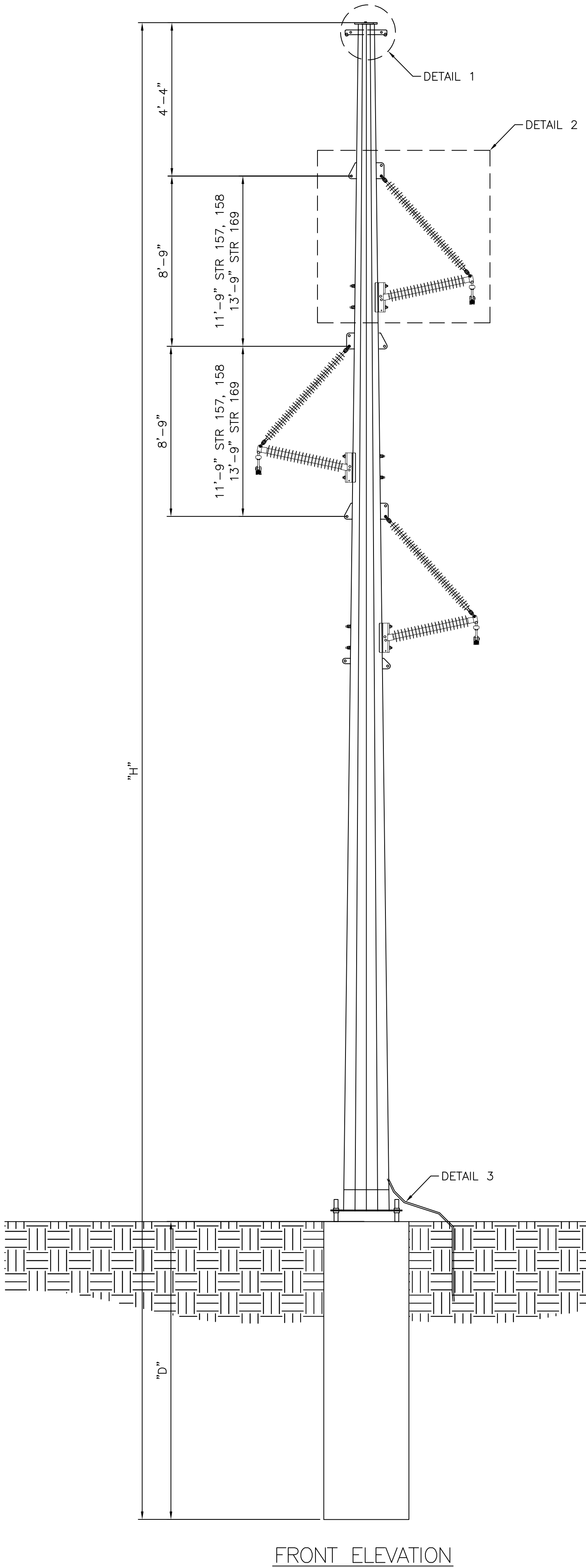
- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	DESIGN LINE ANGLE RANGE
148	90'-0"	0°-20°
149	90'-0"	0°-20°

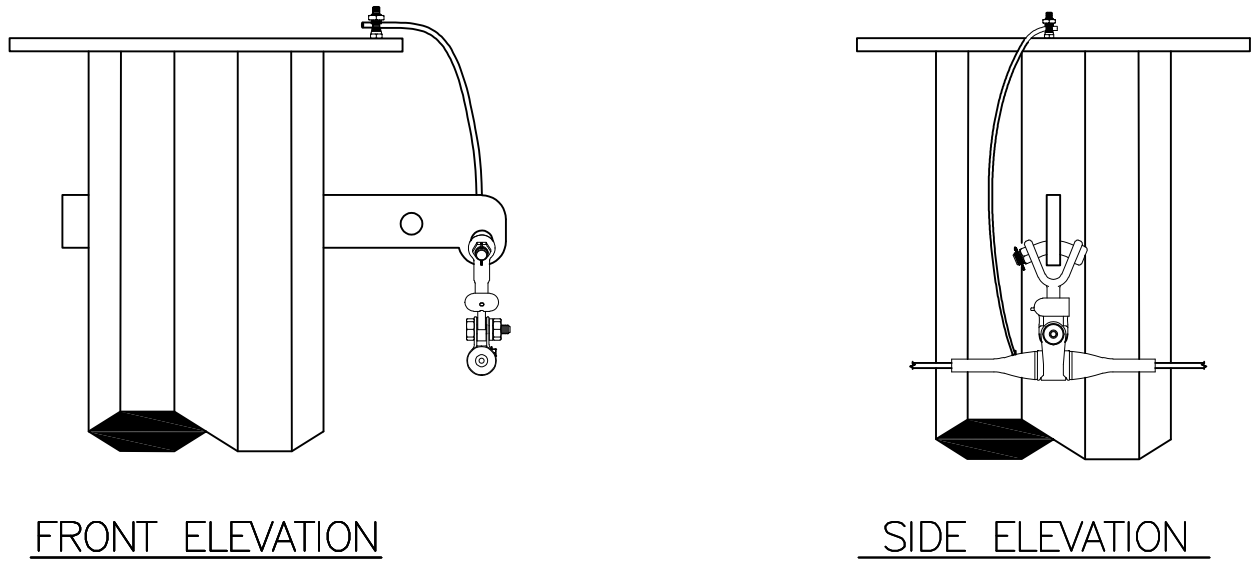
T1510 LOCKPORT – BATAVIA										nationalgrid										1																			
112 LINE REBUILD PROJECT																																							
SINGLE CIRCUIT DAVIT ARM SUSPENSION																																							
STEEL POLE CONCEPT DRAWING																																							
DRILLED SHAFT FOUNDATION																																							
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REVIEWED BY					CJR					02/12/21					PREPARED/REVIEWED/APPROVED																								
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SHEET					1					OF					1																								
INDEX																																							

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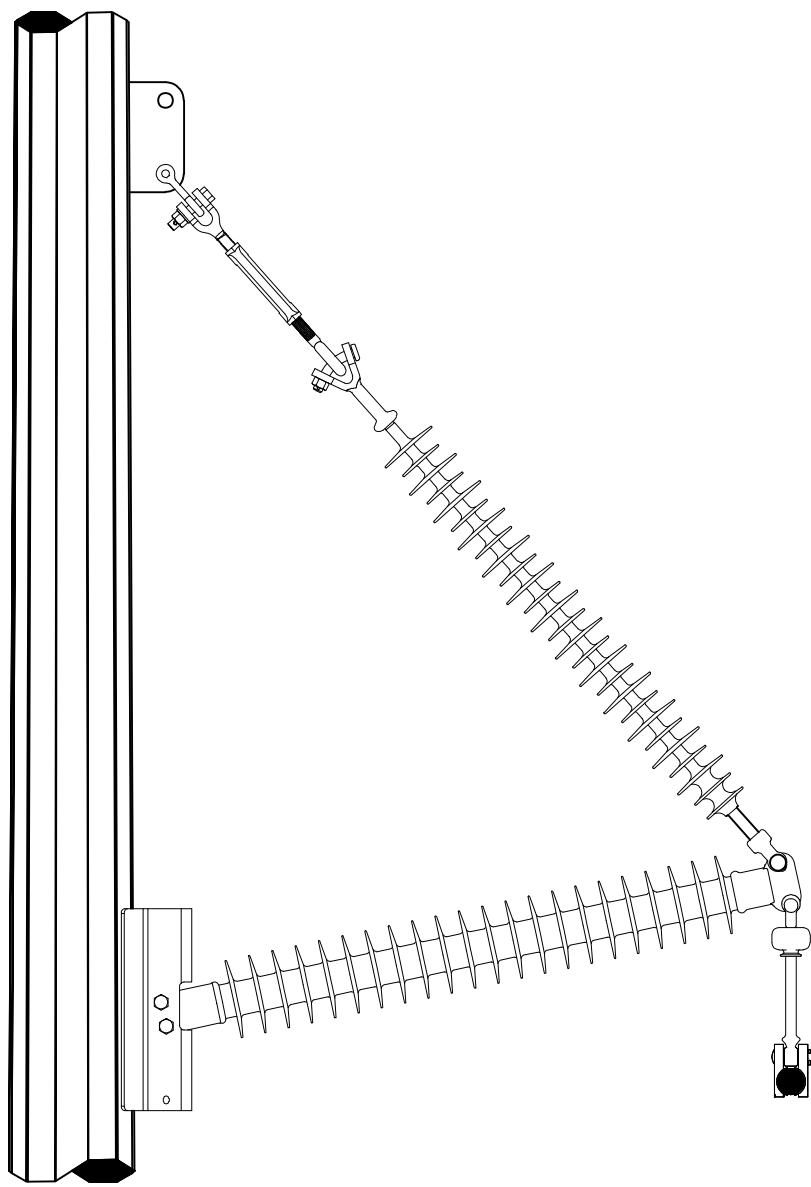
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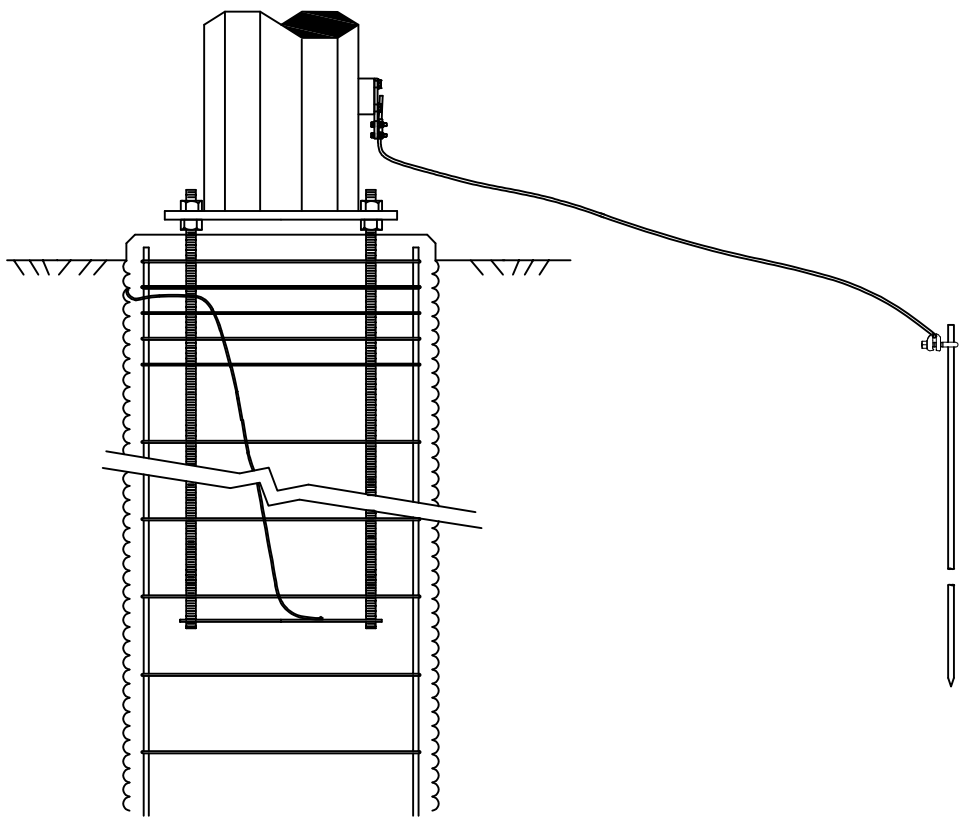
FRONT ELEVATION



DETAIL 1
DNO-12019 SX-28/61/506
OPGW SUSPENSION
(NY-6.0-4.6-00007)



DETAIL 2
795 KCMIL "DRAKE"
BRACED LINE POST ASSEMBLY
(NY-6.0-4.6-0054)



DETAIL 3
GROUNDING
(NY-6.0-4.6-00015)

STRUCTURE TABLE		
STR #	STR HEIGHT (FT) "H"	EMBED (FT) "D"
57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 150, 151, 152, 160, 161, 162, 163, 164, 166	75'-0"	0°-2°
157, 165, 167, 168, 169	80'-0"	
158	85'-0"	
144, 145, 146, 147, 154	95'-0"	

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00007	1
DETAIL 2	NY-6.0-4.6-0054	3
DETAIL 3	NY-6.0-4.6-00015	1

- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

T1510 LOCKPORT – BATAVIA
112 LINE REBUILD PROJECT
SINGLE CIRCUIT BRACED POST TANGENT
STEEL POLE CONCEPT DRAWING
DRILL SHAFT FOUNDATION

PREPARED BY	JCB	02/15/21
REVIEWED BY	AIR	02/15/21
APPROVED BY	AIR	02/15/21
SCALE	SEE NOTES	
SHEET	1	OF 1
INDEX		

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VER	DATE	VERSION DESCRIPTION
1	02/15/21	ISSUED FOR BID
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4		
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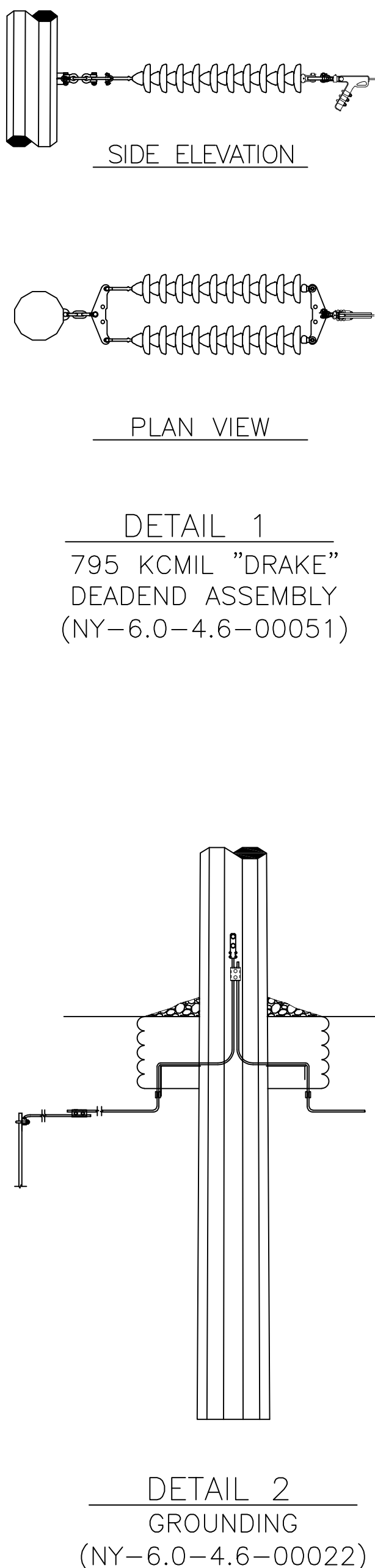
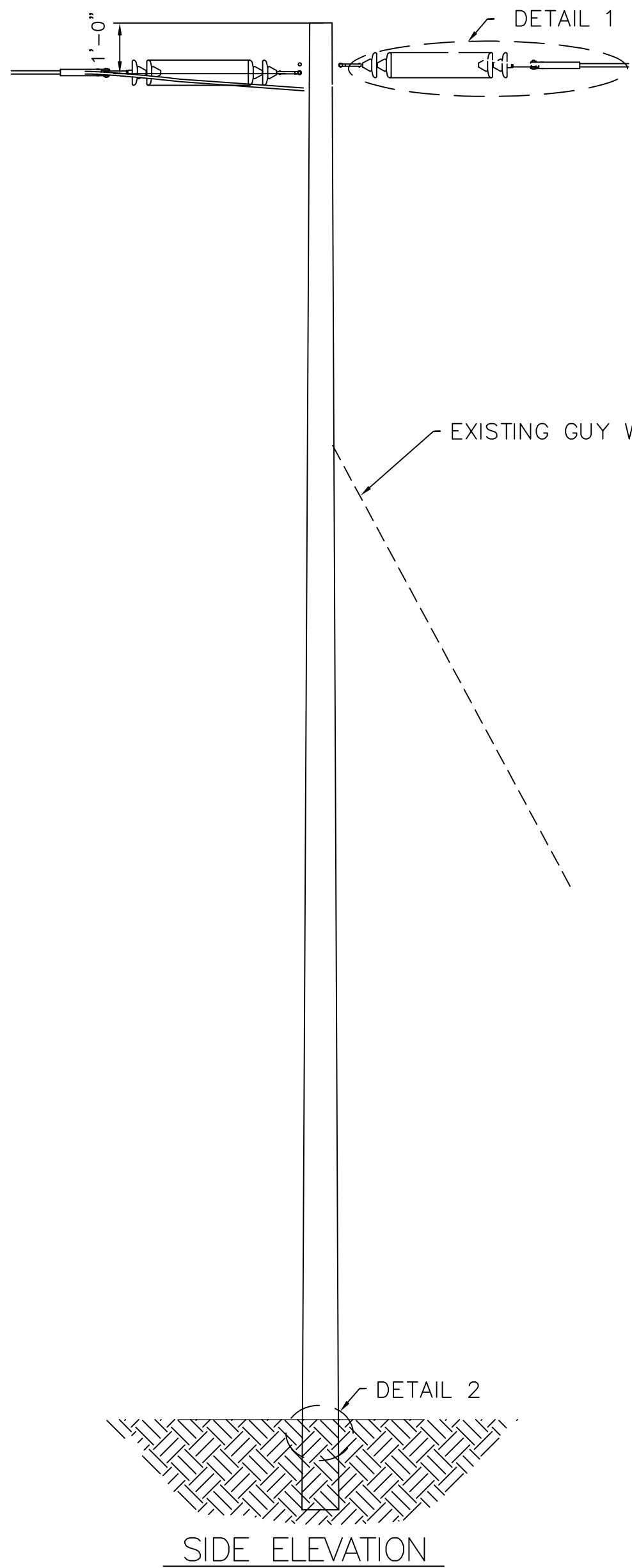
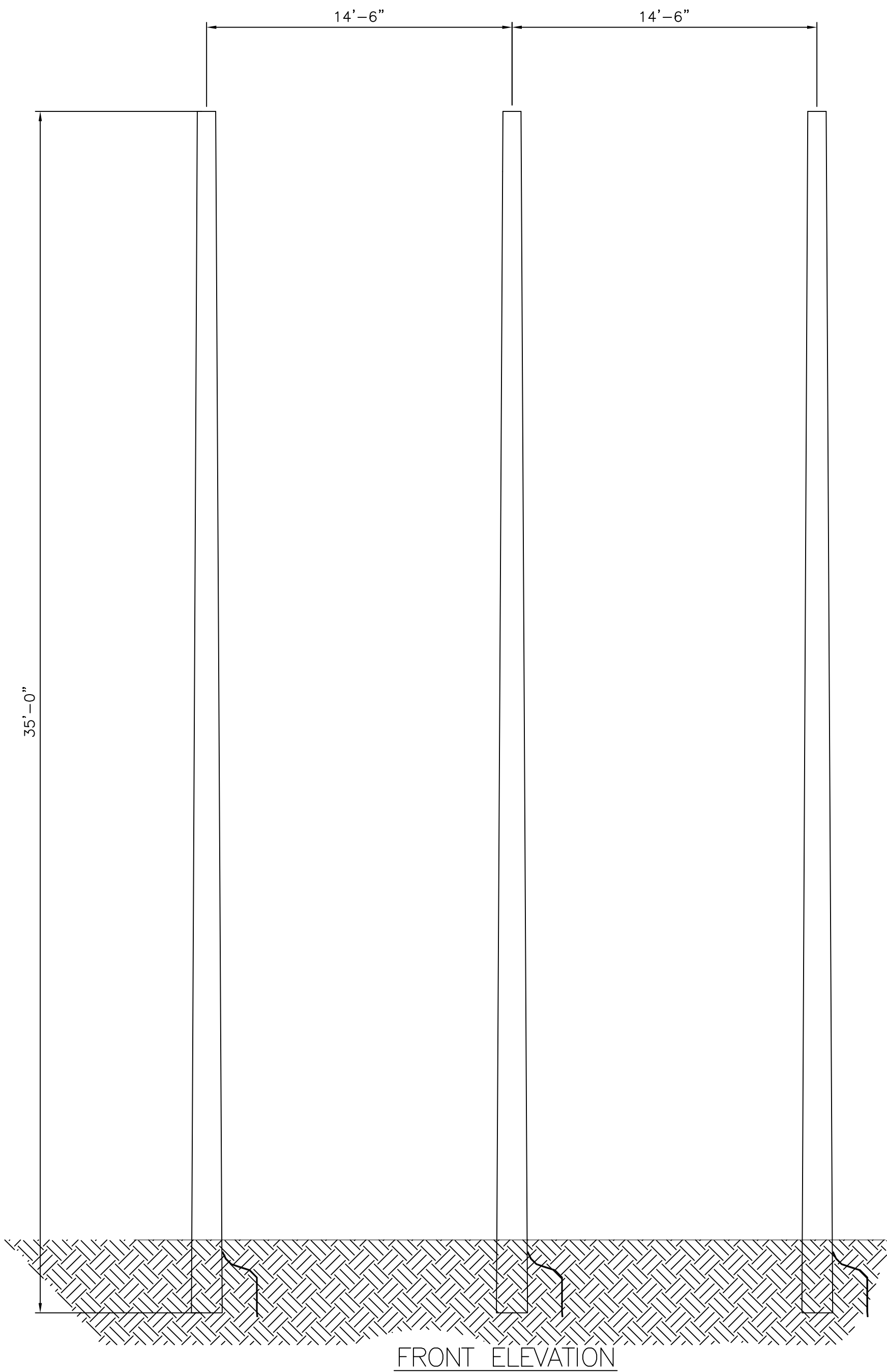
VERSION	REVIEWED BY	DATE
1	AIR	CJR
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- GENERAL NOTES:
- SEE SPECIFICATION SP.06.01.301.101 FOR STRUCTURE GROUNDING DETAILS.
 - SEE SPECIFICATION SP.06.01.301.201 FOR STRUCTURE NUMBERING AND WARNING SIGNS REQUIRED ON ALL STRUCTURES.

STRUCTURE TABLE	
STR #	STR HEIGHT (FT) "H"
1-4	35'

DETAIL	DWG #	ASSEMBLY QTY
DETAIL 1	NY-6.0-4.6-00051	6
DETAIL 2	NY-6.0-4.6-00022	3

T1510 LOCKPORT – BATAVIA

112 LINE REBUILD PROJECT

SINGLE CIRCUIT 3-POLE DEAD-END

WOOD POLE CONCEPT DRAWING

DIRECT EMBEDDED FOUNDATION

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PREPARED BY	AIR	04/31/2021
REVIEWED BY	CJR	04/24/2021
APPROVED BY	AIR	04/31/2021
SCALE	NTS	
SHEET	1	OF 1
INDEX		

VER	DATE	VERSION DESCRIPTION	ISSUED FOR	ISSUED FOR BID
1	02/12/21		AIR	CJR
2				
3				
4				
5				
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REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION