APPALACHIAN POWER COMPANY
BEFORE THE
VIRGINIA STATE CORPORATION COMMISSION
CASE NO. PUR-2023-00024

APPLICATION FOR APPROVAL AND CERTIFICATION OF ELECTRICAL TRANSMISSION LINE

Stuart Area 138-kV Transmission Improvements Project

VOLUME 1 OF 4
PART 2 of 2

Exhibits 8 through 38

July 2023

VOLUME 1, PART 1 OF 2 - Application, Testimony, Response to Guidelines, and Exhibits 1 through 7

VOLUME 1, PART 2 OF 2 – Exhibits 8 through 38

VOLUME 1, PART 1 OF 2

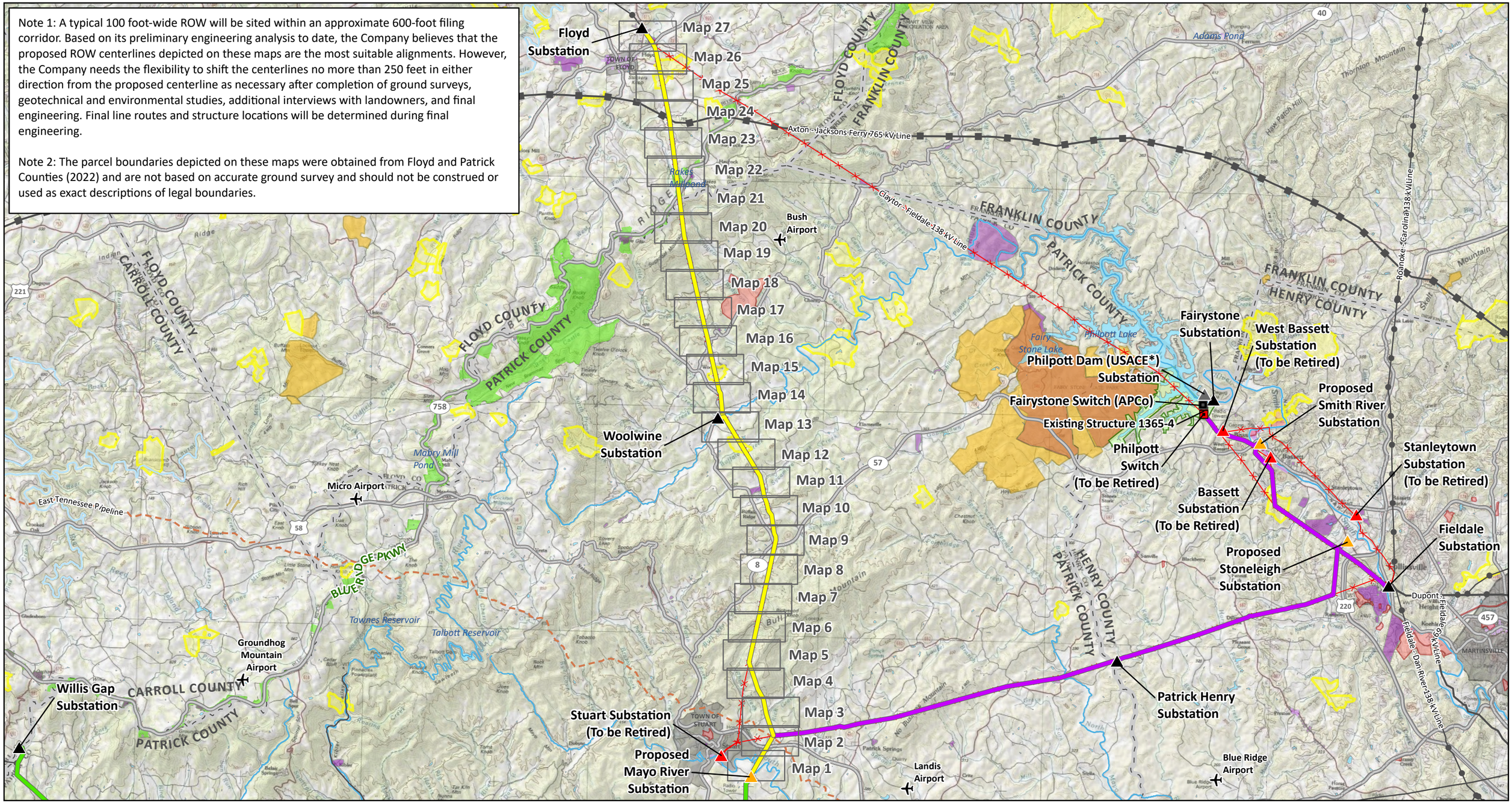
EXHIBITS

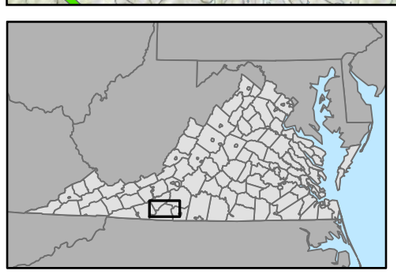
VOLUME 1, PART 2 OF 2

Exhibit 8: Component 2 GIS Constraints Map

Note 1: A typical 100 foot-wide ROW will be sited within an approximate 600-foot filing corridor. Based on its preliminary engineering analysis to date, the Company believes that the proposed ROW centerlines depicted on these maps are the most suitable alignments. However, the Company needs the flexibility to shift the centerlines no more than 250 feet in either direction from the proposed centerline as necessary after completion of ground surveys, geotechnical and environmental studies, additional interviews with landowners, and final engineering. Final line routes and structure locations will be determined during final engineering.

Note 2: The parcel boundaries depicted on these maps were obtained from Floyd and Patrick Counties (2022) and are not based on accurate ground survey and should not be construed or used as exact descriptions of legal boundaries.





- Proposed APCo Substation
- Existing APCo Substation to be Retired
- Existing APCo Substation
- Non-APCo Generation Facility
- Existing Switch Station to be Retired
- Existing Switch Station
- Component 2 Proposed Route
- Component 1 Proposed Route
- Component 3 Proposed Route
- Existing Transmission Line to be Retired
- Existing APCo Transmission Line (69 kv or lower)
- Existing APCo Transmission Line (115 kV - 230 kV)
- Existing APCo Transmission Line (345 kV +)
- Existing Non-APCo Transmission Line
- Airport
- Highway
- Natural Gas Pipeline
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Local Conservation Land
- State Conservation Land
- VOF Easement
- Philpott Lake Recreation Area (USACE)
- Blue Ridge Parkway National Parkway
- Historic District (VDHR)
- Architectural Resource (VDHR)
- Town Boundary
- County Boundary
- Map Tile

* USACE = U.S. Army Corps of Engineers

Patrick & Floyd Counties, Virginia

Date: 7/10/2023; Author: ckunde; Project: 158529

0 2.5 5

Miles

INDEX

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Developmental Rd
Rome Trl
Woodland Dr
TOWN OF STUART
South Mayo River
Commerce St
Commerce Dr
Rhody Creek
Rich Creek
PAGE 2

Prop. Str. 6
Prop. Ht. 81.5'

Prop. Str. 5
Prop. Ht. 81.5'

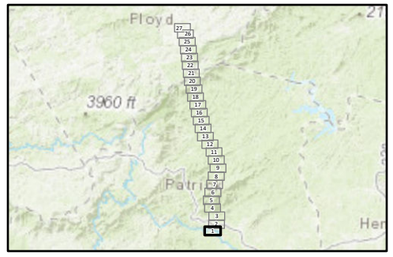
Prop. Str. 4
Prop. Ht. 95'

Prop. Str. 3
Prop. Ht. 144'

Prop. Str. 1
Prop. Ht. 106.3'

Proposed Mayo River Substation

Existing Structures: N/A
Proposed Structures: 1 to 6



- Proposed APCo Substation
- Proposed Structure
- Component 2 Proposed Route (Double Circuit)
- Component 1 Proposed Route
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cell Tower (FCC)
- Road
- South Mayo River (Scenic River)
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Town Boundary
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 1 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 3

Tudor Orchard Rd

Prop. Str. 11
Prop. Ht. 90.5'

East Tennessee Pipeline

Rich Creek

Animal Clinic Rd

Lucky Ln

State Rte 694

Jim Ln

Rhody Creek

Fieldale - Stuart 69 kV Line

Prop. Str. 10
Prop. Ht. 96.3'

Dr Kay Ln

58

Prop. Str. 9
Prop. Ht. 99.5'

Rhody Creek Loop

Wilderness Ln

Mercy Church

Twin Ford Loop

Powell Cir

Prop. Str. 8
Prop. Ht. 86'

TOWN OF STUART

Jeb Stuart Hwy

58

FAIN HOUSE (DHR)

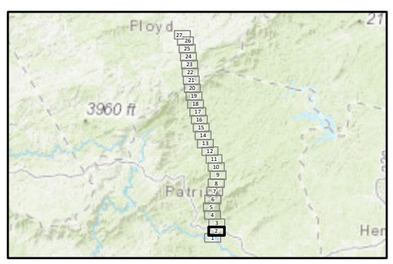
Prop. Str. 7
Prop. Ht. 104'

PAGE 1

Poplar Dr

Prop. Str. 6
Prop. Ht. 81.5'

Existing Structures: N/A
Proposed Structures: 6 to 11



- Proposed Structure
- Component 2 Proposed Route (Single Circuit)
- Component 2 Proposed Route (Double Circuit)
- Component 3 Proposed Route
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Cemetery
- Highway
- Road
- Natural Gas Pipeline
- South Mayo River (Scenic River)
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Town Boundary
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 2 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 4

Prop. Str. 15
Prop. Ht. 86'

Prop. Str. 14
Prop. Ht. 95'

Tudor Orchard Rd

Rich Creek

Prop. Str. 13
Prop. Ht. 86'

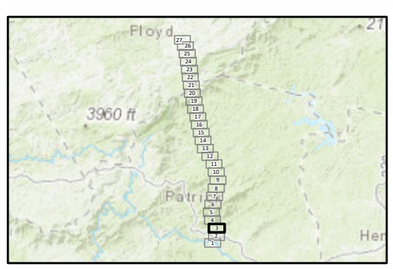
Prop. Str. 12
Prop. Ht. 99.5'

East Tennessee Pipeline

Rhody Creek

PAGE 2

Existing Structures: N/A
Proposed Structures: 12 to 15



- Proposed Structure
- Component 2 Proposed Route (Single Circuit)
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Natural Gas Pipeline
- Stream (NHD)
- Floodplain
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 3 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 19
Prop. Ht. 63.5'

PAGE 5

Rhody Creek

Prop. Str. 18
Prop. Ht. 68'

Fire Trail Ln

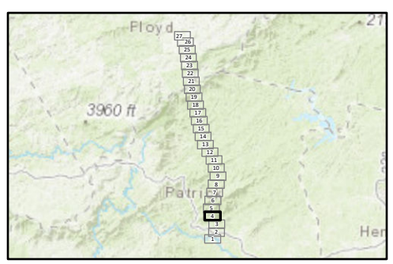
Floyd - Stuart 69 kV Line

Prop. Str. 17
Prop. Ht. 95'

Prop. Str. 16
Prop. Ht. 99.5'

PAGE 3

Existing Structures: N/A
Proposed Structures: 16 to 19



- Proposed Structure
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 4 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 114
Exist. Ht. 43'

Prop. Str. 23
Prop. Ht. 99.5'

PAGE 6

Exist. Str. 115
Exist. Ht. 47.5'

Exist. Str. 116
Exist. Ht. 56.5'

Prop. Str. 22
Prop. Ht. 95'

Rhody Creek

Exist. Str. 117
Exist. Ht. 52'

Prop. Str. 21
Prop. Ht. 63.5'

Exist. Str. 118
Exist. Ht. 61'

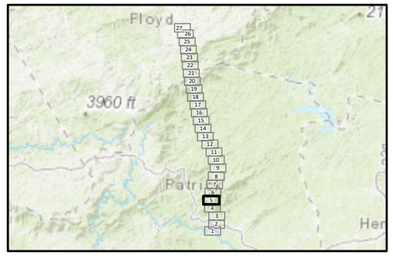
Prop. Str. 20
Prop. Ht. 77'

Floyd - Stuart 69 kV Line

PAGE 4

Prop. Str. 19
Prop. Ht. 63.5'

Existing Structures: 114 to 118
Proposed Structures: 19 to 23



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 5 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 110
Exist. Ht. 52'

Prop. Str. 26
Prop. Ht. 72.5'

PAGE 7

Townley Creek

Prop. Str. 25
Prop. Ht. 90.5'

BULL MOUNTAIN

Exist. Str. 111
Exist. Ht. 74.5'

Exist. Str. 112
Exist. Ht. 74.5'

Rhody Creek

Exist. Str. 113
Exist. Ht. 47.5'

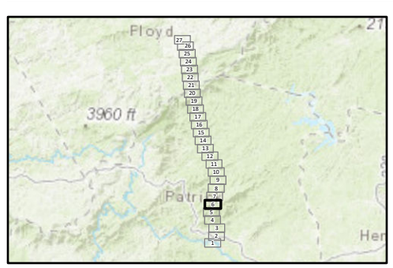
Prop. Str. 24
Prop. Ht. 113'

PAGE 5

Exist. Str. 114
Exist. Ht. 43'

Prop. Str. 23
Prop. Ht. 99.5'

Existing Structures: 110 to 114
Proposed Structures: 23 to 26



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Stream (NHD)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 6 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 8

Exist. Str. 107
Exist. Ht. 56.5'

Prop. Str. 29
Prop. Ht. 68'

Townley Creek

Sycamore Creek

Woolwine Hwy

8

Central Academy Rd

Exist. Str. 108
Exist. Ht. 56.5'

Prop. Str. 28
Prop. Ht. 95'

Exist. Str. 109
Exist. Ht. 56.5'

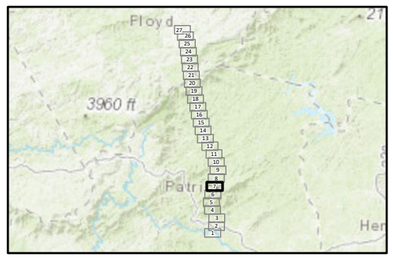
Prop. Str. 27
Prop. Ht. 81.5'

PAGE 6

Exist. Str. 110
Exist. Ht. 52'

Prop. Str. 26
Prop. Ht. 72.5'

Existing Structures: 107 to 110
Proposed Structures: 26 to 29



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Wetland (NWI)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 7 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 9

Valley Ln

Blue Ridge Land Conservancy

Woolwine Hwy

GOV. GERALD BALLES HOUSE

8

Sycamore Creek

Townley Creek

Exist. Str. 102
Exist. Ht. 47.5'

Prop. Str. 33
Prop. Ht. 86'

Exist. Str. 103
Exist. Ht. 47.5'

Prop. Str. 32
Prop. Ht. 68'

Exist. Str. 104
Exist. Ht. 47.5'

Prop. Str. 31
Prop. Ht. 68'

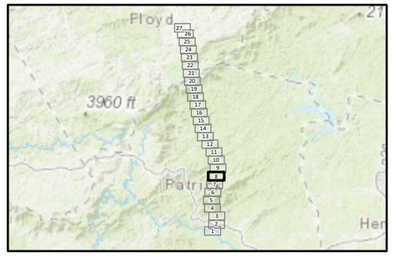
Exist. Str. 105
Exist. Ht. 47.5'

Exist. Str. 106
Exist. Ht. 43'

Prop. Str. 30
Prop. Ht. 63.5'

PAGE 7

Existing Structures: 102 to 106
Proposed Structures: 30 to 33



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Local Conservation Land
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 8 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 10

Prop. Str. 38
Prop. Ht. 59'

Exist. Str. 96
Exist. Ht. 52'

Floyd-Stuart 69 kV Line

Prop. Str. 37
Prop. Ht. 85'

Exist. Str. 97
Exist. Ht. 43'

Prop. Str. 36
Prop. Ht. 95'

State Rte 775

Exist. Str. 98
Exist. Ht. 43'

Prop. Str. 35
Prop. Ht. 81.5'

Exist. Str. 99
Exist. Ht. 47.5'

Exist. Str. 100
Exist. Ht. 47.5'

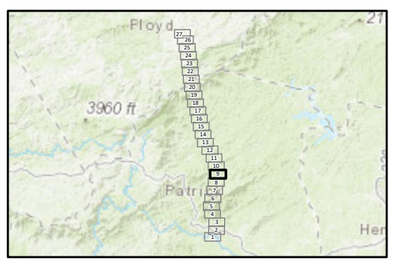
Prop. Str. 34
Prop. Ht. 90.5'

Exist. Str. 101
Exist. Ht. 43'

Woolwine Hwy
Bob Kat Ln
Red Oak Ln
Valley Ln
Crestview Rd
Fairystone Park Hwy
Sycamore Creek
Blue Ridge Land Conservancy
8
57

PAGE 8

Existing Structures: 96 to 101
Proposed Structures: 34 to 38



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Local Conservation Land
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 9 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The existing ROW of the Floyd - Stuart 69-kV Transmission Line is generally 100 feet wide. Based on preliminary engineering, the Company expects the ROW of the rebuilt line will be 100 feet wide and will follow the existing ROW for most of its length. However, several residential structures have encroached on the existing ROW in a few limited locations. The Company will work with affected landowners during ROW negotiations as needed.

PAGE 11

Prop. Str. 44
Prop. Ht. 95'

Prop. Str. 43
Prop. Ht. 104'

Exist. Str. 91
Exist. Ht. 47.5'

Exist. Str. 92
Exist. Ht. 47.5'

Prop. Str. 42
Prop. Ht. 59'

Exist. Str. 93
Exist. Ht. 47.5'

Prop. Str. 41
Prop. Ht. 68'

Exist. Str. 94
Exist. Ht. 65.5'

Prop. Str. 40
Prop. Ht. 81.5'

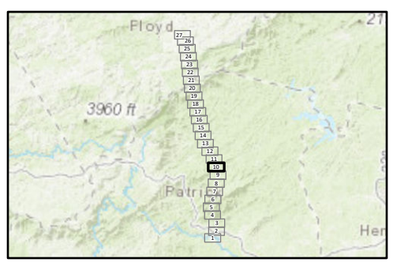
Exist. Str. 95
Exist. Ht. 65.5'

Prop. Str. 39
Prop. Ht. 59'

Little Sycamore Creek
Waterfall Rd
Waterfall Ln
Pilson Sawmill Rd
Spring Branch
BUFFALO RIDGE
8
Woolwine Hwy
Floyd - Stuart 69 kV Line
Crestview Rd
Buffalo Park Ln
Village L...
Buffalo Ridge Church

PAGE 9

Existing Structures: 91 to 95
Proposed Structures: 39 to 44



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Residential Structure (within proposed 100' ROW) (See Note 3)
- Place of Worship
- Populated Place
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 10 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 12

Exist. Str. 87
Exist. Ht. 56.5'

Prop. Str. 47
Prop. Ht. 63.5'

Pilson Sawmill Rd

Exist. Str. 88
Exist. Ht. 65.5'

Prop. Str. 46
Prop. Ht. 99.5'

Oak Ln

Exist. Str. 89
Exist. Ht. 52'

Prop. Str. 45
Prop. Ht. 77'

Woolwine Hwy

8

AKERS GENERAL MERCHANDISE

Little Sycamore Creek

Sycamore Church Rd

Floyd-Stuart 69 kV Line

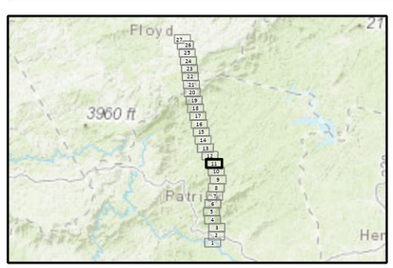
Exist. Str. 90
Exist. Ht. 52'

Sycamore Baptist Church

Sycamore Court Ln

PAGE 10

Existing Structures: 87 to 90
Proposed Structures: 44 to 47



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Cemetery
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 11 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 53
Prop. Ht. 72.5'

PAGE 13

Exist. Str. 81
Exist. Ht. 38.5'

Prop. Str. 52
Prop. Ht. 81.5'

Exist. Str. 82
Exist. Ht. 47.5'

Bob White Rd

Buffalo Creek

Prop. Str. 51
Prop. Ht. 86'

Exist. Str. 83
Exist. Ht. 56.5'

Prop. Str. 50
Prop. Ht. 81.5'

Exist. Str. 84
Exist. Ht. 47.5'

Prop. Str. 49
Prop. Ht. 68'

Exist. Str. 85
Exist. Ht. 52'

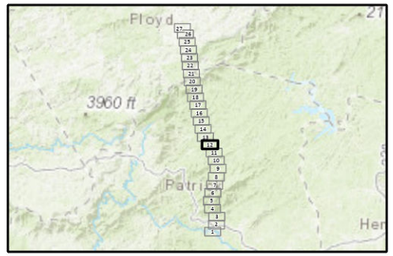
Prop. Str. 48
Prop. Ht. 90.5'

Piney Forest Dr

Exist. Str. 86
Exist. Ht. 56.5'

PAGE 11

Existing Structures: 81 to 86
Proposed Structures: 48 to 53



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- VOF Easement
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 12 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 14

Exist. Str. 74A
Exist. Ht. 70'

Exist. Str. 74
Exist. Ht. 56.5'

Prop. Str. 55
Prop. Ht. 68'

Prop. Str. 53
Prop. Ht. 77'

Exist. Str. 75A/2
Exist. Ht. 61'

Exist. Str. 75
Exist. Ht. 47.5'

Prop. Str. 54
Prop. Ht. 68'

Exist. Str. 75A/3
Exist. Ht. 56.5'

Exist. Str. 75A
Exist. Ht. 56.5'

Woolwine
Substation

Prop. Str. 58
Prop. Ht. 100'

Exist. Str. 75B
Exist. Ht. 65.5'

Exist. Str. 75B/4
Exist. Ht. 56.5'

Prop. Str. 57
Prop. Ht. 63.5'

Exist. Str. 75B/5
Exist. Ht. 61'

Exist. Str. 75B/6
Exist. Ht. 61'

Prop. Str. 59
Prop. Ht. 72.5'

Exist. Str. 76
Exist. Ht. 52'

Prop. Str. 56
Prop. Ht. 72.5'

Exist. Str. 75A/1
Exist. Ht. 61'

Exist. Str. 77
Exist. Ht. 56.5'

Prop. Str. 55
Prop. Ht. 63.5'

Exist. Str. 78
Exist. Ht. 43'

Prop. Str. 54
Prop. Ht. 63.5'

Exist. Str. 79
Exist. Ht. 47.5'

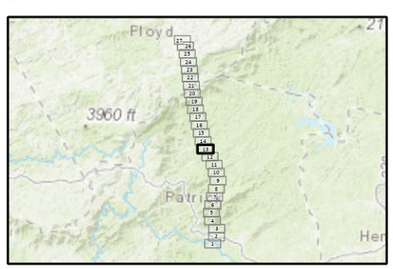
Exist. Str. 80
Exist. Ht. 47.5'

PAGE 12

Prop. Str. 53
Prop. Ht. 72.5'

Existing Structures: 74 to 80, 75A to 75B
Proposed Structures: 53 to 59, 53 to 55

Conners Creek
Woolwine Hwy
Smith River
8
Hillside Rd
Bob White Rd
Jacks Creek Church
Jacks Creek Rd
Mills Hs Rd



- Existing APCo Substation
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- VOF Easement
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

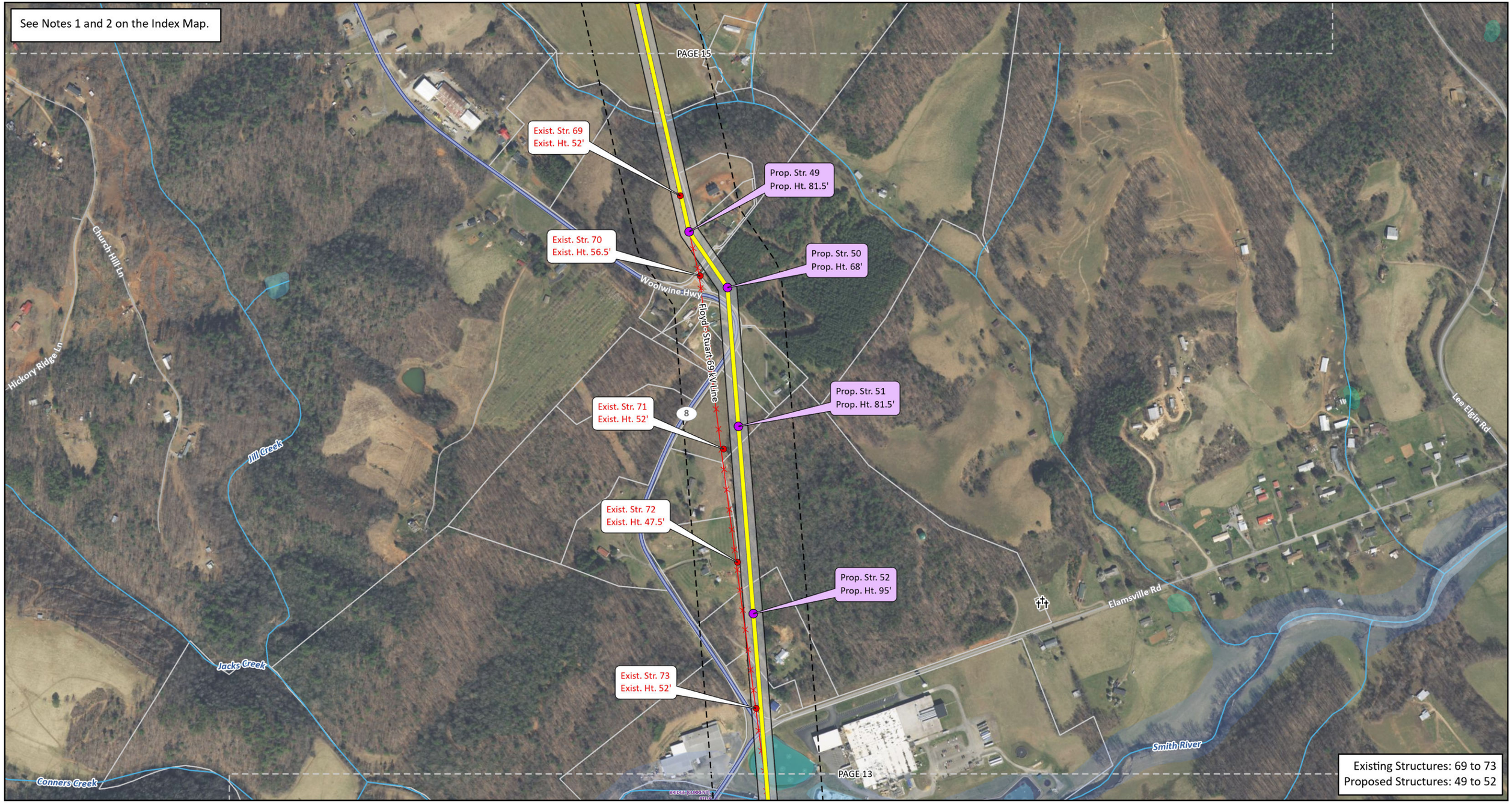
Map 13 of 27

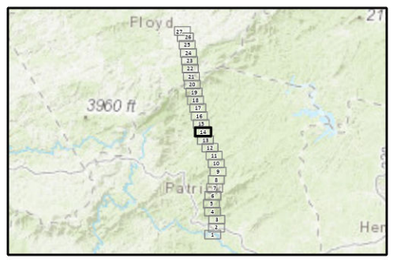
Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.





- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 14 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 63
Exist. Ht. 61'

Prop. Str. 45
Prop. Ht. 72.5'

PAGE 16

Exist. Str. 64
Exist. Ht. 52'

Prop. Str. 46
Prop. Ht. 95'

Exist. Str. 65
Exist. Ht. 52'

Exist. Str. 66
Exist. Ht. 47.5'

Exist. Str. 67
Exist. Ht. 52'

Prop. Str. 47
Prop. Ht. 95'

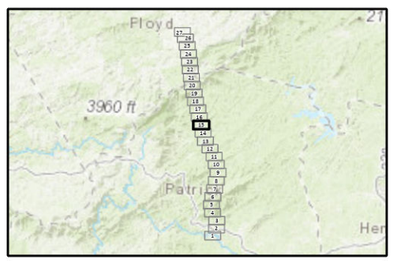
Exist. Str. 68
Exist. Ht. 47.5'

Prop. Str. 48
Prop. Ht. 95'

PAGE 14

Existing Structures: 63 to 68
Proposed Structures: 45 to 48

Charity Hwy
40
Rock Castle Creek
Ridge Rd
WOOLWINE
Woolwine Hwy
Dan Atkin Ln
Woolwine United Methodist Church
8
Woolwine Elementary School
Jill Creek
Mill House Rd
Church Hill Ln



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- School
- Cemetery
- Populated Place
- Highway
- Scenic Route 8
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- VOF Easement
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 15 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 58
Exist. Ht. 52'

Prop. Str. 41
Prop. Ht. 81.5'

PAGE 17

Woods Gap Rd

MOUNTAIN ROSE (HISTORIC)

The Mountain Rose Inn Bed & Breakfast

Griffith Valley Ln

Charity Hwy

Prop. Str. 42
Prop. Ht. 99.5'

Exist. Str. 59
Exist. Ht. 47.5'

Floyd-Stuart 69kV Line

Exist. Str. 60
Exist. Ht. 52'

Prop. Str. 43
Prop. Ht. 68'

Exist. Str. 61
Exist. Ht. 70'

40

Rock Castle Creek

Stone Creek Rd

Exist. Str. 62
Exist. Ht. 52'

Prop. Str. 44
Prop. Ht. 81.5'

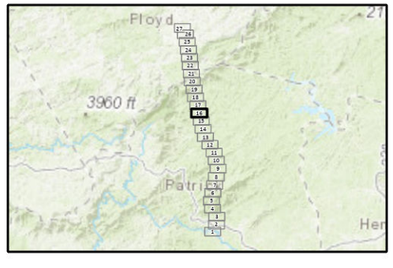
Ridge Rd

PAGE 15

Exist. Str. 63
Exist. Ht. 61'

Prop. Str. 45
Prop. Ht. 72.5'

Existing Structures: 58 to 63
Proposed Structures: 41 to 45



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Birding and Wildlife Trail Sites
- Highway
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 16 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 37
Prop. Ht. 77'

PAGE 18

Exist. Str. 52
Exist. Ht. 52'

Prop. Str. 38
Prop. Ht. 86'

Exist. Str. 53
Exist. Ht. 38.5'

Exist. Str. 54
Exist. Ht. 38.5'

Prop. Str. 39
Prop. Ht. 72.5'

Exist. Str. 55
Exist. Ht. 38.5'

Rock Castle Creek

Prop. Str. 40
Prop. Ht. 72.5'

Exist. Str. 56
Exist. Ht. 38.5'

Exist. Str. 57
Exist. Ht. 43'

Griffith Valley Ln

Woods Gap Rd

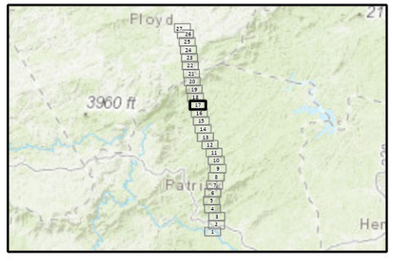
PAGE 16

Exist. Str. 58
Exist. Ht. 52'

Prop. Str. 41
Prop. Ht. 81.5'

40

Existing Structures: 52 to 58
Proposed Structures: 37 to 41



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Highway
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Local Conservation Land
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 17 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 19

Exist. Str. 46
Exist. Ht. 52'

Prop. Str. 33
Prop. Ht. 77'

Exist. Str. 47
Exist. Ht. 52'

Prop. Str. 34
Prop. Ht. 77'

Exist. Str. 48
Exist. Ht. 52'

Exist. Str. 49
Exist. Ht. 43'

Prop. Str. 35
Prop. Ht. 95'

Woods Gap Rd

Little Widgeon Creek

Prop. Str. 36
Prop. Ht. 95'

Exist. Str. 50
Exist. Ht. 61'

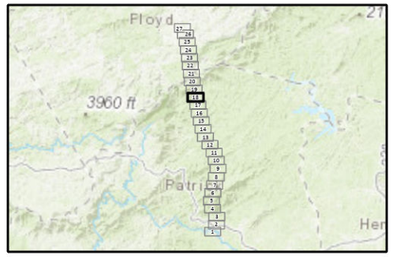
Eans Mountain Rd

Exist. Str. 51
Exist. Ht. 47.5'

PAGE 17

Prop. Str. 37
Prop. Ht. 77'

Existing Structures: 46 to 51
Proposed Structures: 33 to 37



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 18 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 20

Exist. Str. 42
Exist. Ht. 47.5'

Prop. Str. 31
Prop. Ht. 95'

Exist. Str. 43
Exist. Ht. 61'

Prop. Str. 32
Prop. Ht. 99.5'

Exist. Str. 44
Exist. Ht. 56.5'

Exist. Str. 45
Exist. Ht. 47.5'

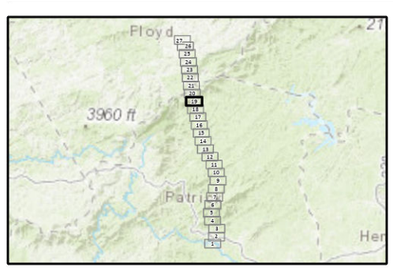
Widgeon Creek Rd

Widgeon Creek

Little Widgeon Creek

PAGE 18

Existing Structures: 42 to 45
Proposed Structures: 31 to 32



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 19 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 38
Exist. Ht. 47.5'

PAGE 21

Exist. Str. 39
Exist. Ht. 38.5'

Prop. Str. 29
Prop. Ht. 104'

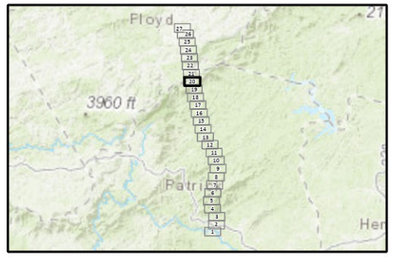
Exist. Str. 40
Exist. Ht. 52'

Prop. Str. 30
Prop. Ht. 99.5'

Exist. Str. 41
Exist. Ht. 61'

PAGE 19

Existing Structures: 38 to 41
Proposed Structures: 29 to 30



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Highway
- Road
- Stream (NHD)
- County Boundary
- Waterbody (NHD)
- Wetland (NWI)
- Federal Easement
- Blue Ridge Parkway National Parkway
- Federal Conservation Land
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 20 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 22

Exist. Str. 33
Exist. Ht. 52'

Exist. Str. 34
Exist. Ht. 56.5'

Prop. Str. 26
Prop. Ht. 90.5'

Exist. Str. 35
Exist. Ht. 56.5'

Prop. Str. 27
Prop. Ht. 86'

Exist. Str. 36
Exist. Ht. 52'

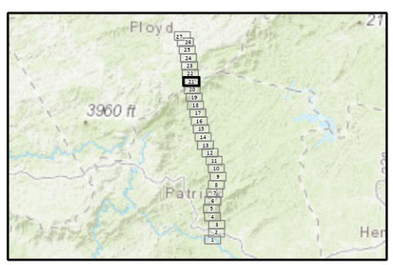
Exist. Str. 37
Exist. Ht. 61'

Prop. Str. 28
Prop. Ht. 104'

Exist. Str. 38
Exist. Ht. 47.5'

PAGE 20

Existing Structures: 33 to 38
Proposed Structures: 26 to 28



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Highway
- Road
- Stream (NHD)
- County Boundary
- Waterbody (NHD)
- Wetland (NWI)
- Blue Ridge Parkway National Parkway
- Federal Conservation Land
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 21 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 27
Exist. Ht. 56.5'

Prop. Str. 21
Prop. Ht. 95'

PAGE 23

Exist. Str. 28
Exist. Ht. 52'

Exist. Str. 29
Exist. Ht. 56.5'

Prop. Str. 22
Prop. Ht. 90.5'

LOG CABIN

Dodd Creek

Blue Ridge Pkwy

BLUE RIDGE PARKWAY NATIONAL PARK

State Rte 714

BLUE RIDGE PKWY

James Ln SE

Exist. Str. 30
Exist. Ht. 52'

Prop. Str. 23
Prop. Ht. 77'

Prop. Str. 24
Prop. Ht. 77'

AUSTIN HOUSE

Morning Dew Ln SE

Buffalo Ln SE

Exist. Str. 31
Exist. Ht. 47.5'

Exist. Str. 32
Exist. Ht. 56.5'

Prop. Str. 25
Prop. Ht. 90.5'

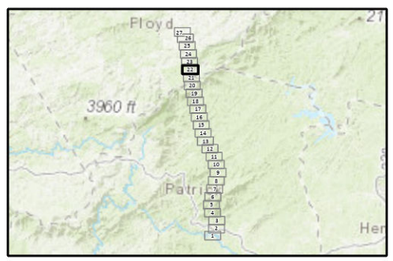
Roberson Mill Rd SE

Woods Gap Rd SE

PAGE 21

RKWAY NATIONAL PARK

Existing Structures: 27 to 32
Proposed Structures: 21 to 25



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- Highway
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Federal Easement
- Blue Ridge Parkway National Parkway
- Federal Conservation Land
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 22 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 18
Prop. Ht. 81.5'

PAGE 24

Exist. Str. 23
Exist. Ht. 43'

Prop. Str. 19
Prop. Ht. 86'

Exist. Str. 24
Exist. Ht. 52'

Exist. Str. 25
Exist. Ht. 56.5'

Prop. Str. 20
Prop. Ht. 95'

Exist. Str. 26
Exist. Ht. 56.5'

Exist. Str. 27
Exist. Ht. 56.5'

Prop. Str. 21
Prop. Ht. 95'

PAGE 22

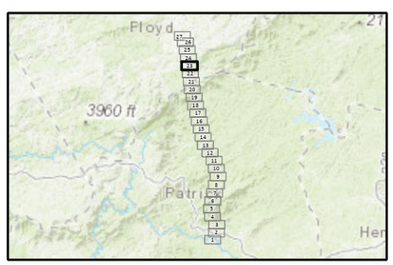
Woods Gap Rd SE

Dodd Creek

Whispering Rock Rd SE

Rock Rd SE

Existing Structures: 23 to 27
Proposed Structures: 18 to 21



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 23 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 25

Taylor Ln SE

Barberry Rd SE

Roberts Ln SE

Woods Gap Rd SE

Exist. Str. 18
Exist. Ht. 56.5'

Prop. Str. 14
Prop. Ht. 81.5'

Exist. Str. 19
Exist. Ht. 43'

Prop. Str. 15
Prop. Ht. 72.5'

Soapstone Ridge Rd SE

Exist. Str. 20
Exist. Ht. 47.5'

New Haven Rd SE

Prop. Str. 16
Prop. Ht. 86'

Exist. Str. 21
Exist. Ht. 56.5'

State Rte 707

Axton - Jacksons Ferry 765 kV Line

Prop. Str. 17
Prop. Ht. 77'

Exist. Str. 22
Exist. Ht. 61'

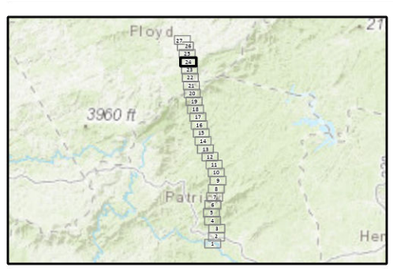
Forest Ridge Rd SE

Whispering Rock Rd SE

PAGE 23

Prop. Str. 18
Prop. Ht. 81.5'

Existing Structures: 18 to 22
Proposed Structures: 14 to 18



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing APCo Transmission Line (345 kV +)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 24 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 26

Exist. Str. 13
Exist. Ht. 52'

Prop. Str. 10
Prop. Ht. 72.5'

Exist. Str. 14
Exist. Ht. 52'

Exist. Str. 15
Exist. Ht. 52'

Prop. Str. 11
Prop. Ht. 77'

Prop. Str. 12
Prop. Ht. 68'

Exist. Str. 16
Exist. Ht. 56.5'

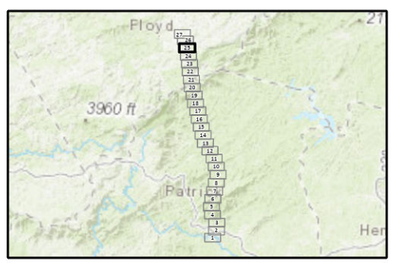
Prop. Str. 13
Prop. Ht. 77'

Exist. Str. 17
Exist. Ht. 52'

PAGE 24

Barberry Rd SE
Oldfield Creek
Alderman Dr SE
Sams Rd SE
Austin Ln SE
New Haven Rd SE
Crestview Dr SE
White Oak Dr SE
Storkers Knob Rd SE
Woods Gap Rd SE
Transfer Station Rd SE
Taylor Ln SE

Existing Structures: 13 to 17
Proposed Structures: 10 to 13



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- School
- Road
- Stream (NHD)
- Wetland (NWI)
- VOF Easement
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 25 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 5
Prop. Ht. 81.5'

Exist. Str. 7
Exist. Ht. 47.5'

Prop. Str. 6
Prop. Ht. 90.5'

Exist. Str. 8
Exist. Ht. 47.5'

Claytor - Fieldale 138 kV Line

Franklin Pike SE

Floyd Hwy N

Christiansburg Pike NE

PAGE 27

Clearview Dr NE

BEN HOPP HOUSE

GEORGE SHELOR HOUSE

221

Willis Ave SE

E Main St

FLOYD HISTORIC DISTRICT

Sweeney St SE

Rocky Creek Ln SE

Exist. Str. 9
Exist. Ht. 52'

Radford Cir SE

McCrays Gr SE

E Oxford St

Floyd Baptist Church

Prop. Str. 7
Prop. Ht. 90.5'

Exist. Str. 10
Exist. Ht. 47.5'

Midkiff Rd SE

Trouble Dr SE

Oldfield Creek

Exist. Str. 11
Exist. Ht. 52'

Prop. Str. 8
Prop. Ht. 77'

Pine St SE

Floyd Elementary School

Oak Hill Dr SW

Floyd Church of God

Baker St SW

Floyd County High School

Connies Ln SE

Barberry Rd SE

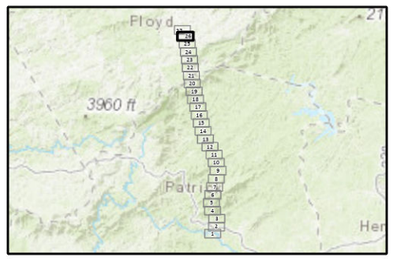
Prop. Str. 9
Prop. Ht. 72.5'

Exist. Str. 12
Exist. Ht. 52'

PAGE 25

Woods Gap Rd SE

Existing Structures: 7 to 12
Proposed Structures: 5 to 9



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- School
- Cemetery
- Cell Tower (FCC)
- Highway
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- VOF Easement
- Architectural Resource (VDHR)
- Historic District (NHRP)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 26 of 27

Exhibit 8:
Component 2
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

See Notes 1 and 2 on the Index Map.

Blue Mountain School

Claytor - Fieldale 138 kV Line

Floyd Substation

Zion Church

ZION CHURCH

Commerce Center Dr

Prop. Str. 1
Prop. Ht. 96.3'

PHLEGAR FARM, PHLEGAR HOUSE

Christiansburg Pike NE

Prop. Str. 2
Prop. Ht. 95'

Exist. Str. 112
Exist. Ht. 65.5'

Floyd - Stuart 69 kV Line

Prop. Str. 3
Prop. Ht. 99.5'

Prop. Str. 4
Prop. Ht. 116.3'

Exist. Str. 113
Exist. Ht. 65.5'

Exist. Str. 114
Exist. Ht. 61'

PAGE 26

Exist. Str. 7
Exist. Ht. 47.5'

Exist. Str. 8
Exist. Ht. 47.5'

Prop. Str. 5
Prop. Ht. 81.5'

Prop. Str. 6
Prop. Ht. 90.5'

Claytor - Fieldale 138 kV Line

Existing Structures: 7 to 8, 112 to 114
Proposed Structures: 1 to 6

Parkview Rd NE

Needmore Ln NE

Three Rocks Rd NE

Randolph Ln NE

Lance Dr NE

Grants Ln NE

Newtown Rd NE

Ellies View Ln NE

Mt. Zion Church

Scales Rd NE

Clearview Dr NE

Blue Ridge Cir NE

SMITH-STIGLEMAN HOUSE

Floyd Hwy N

Hillcrest Dr NE

Church of Jesus Christ

PINE TAVERN, PINE TAVERN-PINE LODGE

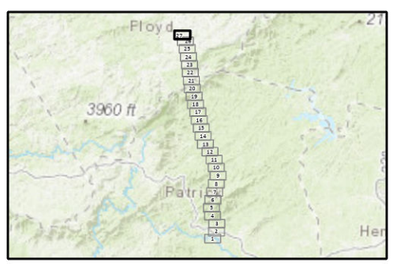
Phlegar Hill Rd NE

THE PINES (HISTORIC)

221

Oldfield Creek

Franklin Pike SE



- Existing APCo Substation
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 2 Proposed Route (Single Circuit)
- Component 2 Proposed Route (Double Circuit)
- Existing APCo Transmission Line (115 kV - 230 kV)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- School
- Cemetery
- NRHP Building
- Highway
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Map Tile
- Parcel Boundary (See Note 2)

Patrick & Floyd Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 27 of 27

Exhibit 8: Component 2 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project
Component 2:
Mayo River (Stuart) to Floyd Transmission Improvements

Exhibit 9: Component 3 GIS Constraints Map

Note 1: A typical 100 foot-wide ROW will be sited within an approximate 600-foot filing corridor. Based on its preliminary engineering analysis to date, the Company believes that the proposed ROW centerlines depicted on these maps are the most suitable alignments. However, the Company needs the flexibility to shift the centerlines no more than 250 feet in either direction from the proposed centerline as necessary after completion of ground surveys, geotechnical and environmental studies, additional interviews with landowners, and final engineering. Final line routes and structure locations will be determined during final engineering.

Note 2: The parcel boundaries depicted on these maps were obtained from Henry and Patrick Counties (2022) and are not based on accurate ground survey and should not be construed or used as exact descriptions of legal boundaries.

Philpott Dam (USACE*) Substation
Fairystone Switch
Existing Structure 1365-4
Philpott Switch (To be Retired)
Fairystone Substation
Proposed Smith River Substation
West Bassett Substation (To be Retired)
Bassett Substation (To be Retired)
Stanleytown Substation (To be Retired)
Proposed Stoneleigh Substation
Fieldale Substation
Proposed Mayo River Substation
Stuart Substation (To be Retired)
Patrick Henry Substation
Landis Airport
Blue Ridge Airport
Map 1
Map 2
Map 3
Map 4
Map 5
Map 6
Map 7
Map 8
Map 9
Map 10
Map 11
Map 12
Map 13
Map 14
Map 15
Map 16
Map 17
Map 18
Map 19
Map 20
Claytor - Fieldale 138 kV Line
Roanoke - Carolina 138 kV Line
Floyd - Stuart 69 kV Line
Fieldale - Dan River 138 kV Line
Pinnacles - Hydro 69 kV Line (City of Danville)
Dupont - Fieldale 69 kV Line
TOWN OF STUART
PATRICK COUNTY
HENRY COUNTY
MARTINSVILLE
PATRICK HENRY CORRECTIONAL UNIT NO 28

Proposed APCo Substation
Existing APCo Substation
Existing APCo Substation to be Retired
Non-APCo Generation Facility
Existing Switch Station
Existing Switch Station to be Retired

Component 3 Proposed Route
Component 1 Proposed Route
Component 2 Proposed Route
Existing APCo Transmission Line (69 kv or lower)
Existing APCo Transmission Line (115 kV - 230 kV)
Existing Non-APCo Transmission Line
Existing Transmission Line to be Retired

Airport
Highway
Stream (NHD)
River (NHD)
Waterbody (NHD)
State Conservation Land
VOF Easement

Local Conservancy
Philpott Lake Recreation Area (USACE)
Historic District (VDHR)
Architectural Resource (VDHR)
Town Boundary
County Boundary
Map Tile

* USACE = U.S. Army Corps of Engineers

Patrick & Henry Counties, Virginia

Date: 7/10/2023; Author: ckunde; Project: 158529

0 1.5 3
Miles

INDEX

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Tudor Orchard Rd

Rich Creek

East Tennessee Pipeline

Fieldale - Stuart 69 kV Line

Exist. Str. 267
Exist. Ht. 38.5'

Exist. Str. 266
Exist. Ht. 38.5'

Exist. Str. 265
Exist. Ht. 38.5'

Exist. Str. 264
Exist. Ht. 34'

Exist. Str. 263
Exist. Ht. 43'

Exist. Str. 260
Exist. Ht. 34'

Exist. Str. 261
Exist. Ht. 34'

Exist. Str. 259
Exist. Ht. 47.5'

Exist. Str. 258
Exist. Ht. 34'

Exist. Str. 256
Exist. Ht. 34'

Exist. Str. 255
Exist. Ht. 34'

Exist. Str. 268
Exist. Ht. 43'

Prop. Str. 1
Prop. Ht. 95'

Prop. Str. 2
Prop. Ht. 81.5'

Exist. Str. 262
Exist. Ht. 47.5'

Prop. Str. 3
Prop. Ht. 81.5'

Exist. Str. 257
Exist. Ht. 34'

Prop. Str. 4
Prop. Ht. 86'

Prop. Str. 5
Prop. Ht. 86'

State Rte 694

Lucky Ln

Jim Ln

Dr Kay Ln

Animal Clinic Rd

Twin Ford Loop

Powell Cir

Mercy Church

Wilderness Ln

PATRICK COUNTY
TOWN OF STUART

Jeb Stuart Hwy

TOWN OF STUART

Campbell Farm Loop

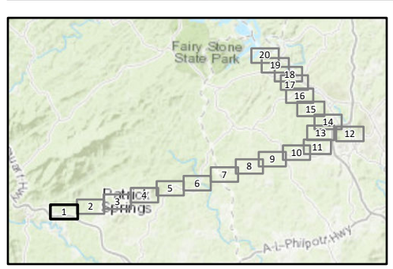
Fairystone Loop

Poplar Dr

Rhody Creek

PAGE 2

Existing Structures: 255 to 268
Proposed Structures: 1 to 5



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Component 2 Proposed Route (Single Circuit)
- Component 2 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Road
- Natural Gas Pipeline
- Recreation Trail
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Town Boundary
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 1 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The existing ROW of the Fieldale - Stuart 69-kV Transmission Line is generally 50 to 100 feet wide. Based on preliminary engineering, the Company expects the ROW of the rebuilt line will be 100 feet wide and will follow the existing ROW for most of its length. However, several residential structures have encroached on the existing ROW in a few limited locations. Based on its engineering analysis to date, the rebuilt line can be designed as to avoid some of the affected buildings in the ROW. Accordingly, and subject to completion of final engineering and ROW negotiations with affected landowners, the Company does not expect that all of the residences and/or public buildings will need to be removed to accommodate the rebuilt line.

Exist. Str. 254
Exist. Ht. 34'

Exist. Str. 250
Exist. Ht. 43'

Exist. Str. 253
Exist. Ht. 43'

Exist. Str. 252
Exist. Ht. 34'

Exist. Str. 246
Exist. Ht. 34'

Exist. Str. 247
Exist. Ht. 34'

Exist. Str. 248
Exist. Ht. 34'

Exist. Str. 249
Exist. Ht. 34'

Exist. Str. 251
Exist. Ht. 34'

Prop. Str. 12
Prop. Ht. 90.5'

Exist. Str. 243
Exist. Ht. 34'

Exist. Str. 244
Exist. Ht. 34'

Exist. Str. 245
Exist. Ht. 38.5'

Exist. Str. 238
Exist. Ht. 34'

Exist. Str. 239
Exist. Ht. 34'

Exist. Str. 240
Exist. Ht. 34'

Exist. Str. 241
Exist. Ht. 38.5'

Exist. Str. 242
Exist. Ht. 34'

Exist. Str. 235
Exist. Ht. 34'

Exist. Str. 236
Exist. Ht. 34'

Exist. Str. 233
Exist. Ht. 34'

Exist. Str. 234
Exist. Ht. 43'

Exist. Str. 231
Exist. Ht. 38.5'

Exist. Str. 232
Exist. Ht. 34'

See Note 3

Exist. Str. 237
Exist. Ht. 52'

Prop. Str. 17
Prop. Ht. 81.5'

Prop. Str. 16
Prop. Ht. 86'

Prop. Str. 15
Prop. Ht. 99.5'

Prop. Str. 14
Prop. Ht. 68'

Prop. Str. 13
Prop. Ht. 81.5'

Prop. Str. 11
Prop. Ht. 86'

Prop. Str. 9
Prop. Ht. 72.5'

Prop. Str. 8
Prop. Ht. 68'

Prop. Str. 10
Prop. Ht. 72.5'

Prop. Str. 6
Prop. Ht. 90.5'

Prop. Str. 7
Prop. Ht. 68'

PAGE 3

PAGE 1

Fairystone Loop

Avalin Branch

Vfw Rd

Kit Kat Ln

Circle Dr

Tot-Tot Ln

Hoolee Ln

Spring Rd

Clearview Dr

Phillips Dr

Maple St

Tudor Orchard Rd

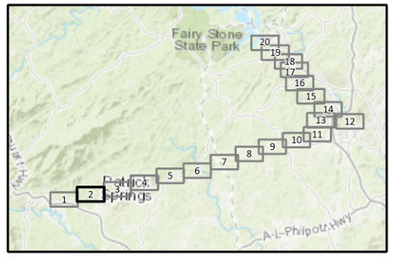
Tudor Orchard St

Animal Clinic Rd

Providence Dr

Rte 885

Existing Structures: 231 to 254
Proposed Structures: 6 to 17



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Residential Structure (within proposed 100' ROW) (See Note 3)
- Road
- Recreation Trail
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 2 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

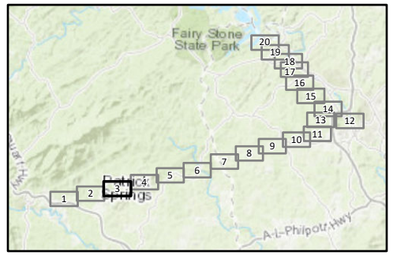
See Notes 1 and 2 on the Index Map.

Mountain Valley Dr
Spring Rd
Spoon Creek
Cut Off Ln
Dillon Ln
Laurens Ln
Old Mill Rd
NO BUSINESS MOUNTAIN
PAGE 2
PAGE 4

Exist. Str. 230
Exist. Ht. 43'
Exist. Str. 226
Exist. Ht. 43'
Exist. Str. 227
Exist. Ht. 38.5'
Exist. Str. 228
Exist. Ht. 34'
Exist. Str. 225
Exist. Ht. 43'
Exist. Str. 229
Exist. Ht. 43'
Exist. Str. 222
Exist. Ht. 43'
Exist. Str. 223
Exist. Ht. 38.5'
Exist. Str. 221
Exist. Ht. 38.5'
Exist. Str. 220
Exist. Ht. 38.5'
Exist. Str. 219
Exist. Ht. 34'
Exist. Str. 224
Exist. Ht. 34'
Exist. Str. 218
Exist. Ht. 34'
Exist. Str. 217
Exist. Ht. 34'
Exist. Str. 216
Exist. Ht. 34'
Exist. Str. 214
Exist. Ht. 38.5'
Exist. Str. 213
Exist. Ht. 34'
Exist. Str. 212
Exist. Ht. 43'
Exist. Str. 211
Exist. Ht. 34'
Exist. Str. 210
Exist. Ht. 47.5'
Exist. Str. 209
Exist. Ht. 34'
Exist. Str. 208
Exist. Ht. 34'
Exist. Str. 207
Exist. Ht. 47.5'
Exist. Str. 206
Exist. Ht. 43'
Exist. Str. 215
Exist. Ht. 34'

Prop. Str. 18
Prop. Ht. 77'
Prop. Str. 19
Prop. Ht. 81.5'
Prop. Str. 20
Prop. Ht. 77'
Prop. Str. 21
Prop. Ht. 72.5'
Prop. Str. 22
Prop. Ht. 63.5'
Prop. Str. 23
Prop. Ht. 86'
Prop. Str. 24
Prop. Ht. 72.5'
Prop. Str. 25
Prop. Ht. 68'
Prop. Str. 26
Prop. Ht. 95'
Prop. Str. 27
Prop. Ht. 95'
Prop. Str. 28
Prop. Ht. 90.5'

Existing Structures: 206 to 230
Proposed Structures: 18 to 28



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cell Tower (FCC)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 3 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

NO BUSINESS MOUNTAIN

Exist. Str. 205
Exist. Ht. 34'

Exist. Str. 204
Exist. Ht. 34'

Exist. Str. 203
Exist. Ht. 34'

Exist. Str. 202
Exist. Ht. 34'

Exist. Str. 201
Exist. Ht. 34'

Exist. Str. 200
Exist. Ht. 34'

Exist. Str. 199
Exist. Ht. 34'

Exist. Str. 198
Exist. Ht. 38.5'

Exist. Str. 197
Exist. Ht. 38.5'

Exist. Str. 196
Exist. Ht. 38.5'

Exist. Str. 195
Exist. Ht. 38.5'

Exist. Str. 194
Exist. Ht. 34'

Exist. Str. 193
Exist. Ht. 43'

Exist. Str. 192
Exist. Ht. 38.5'

Exist. Str. 191
Exist. Ht. 38.5'

Exist. Str. 190
Exist. Ht. 38.5'

Exist. Str. 189
Exist. Ht. 52'

Exist. Str. 188
Exist. Ht. 43'

Exist. Str. 187
Exist. Ht. 34'

Exist. Str. 186
Exist. Ht. 43'

Exist. Str. 185
Exist. Ht. 43'

Prop. Str. 29
Prop. Ht. 72.5'

Prop. Str. 30
Prop. Ht. 77'

Prop. Str. 31
Prop. Ht. 72.5'

Prop. Str. 32
Prop. Ht. 63.5'

Prop. Str. 33
Prop. Ht. 81.5'

Prop. Str. 34
Prop. Ht. 86'

Prop. Str. 35
Prop. Ht. 68'

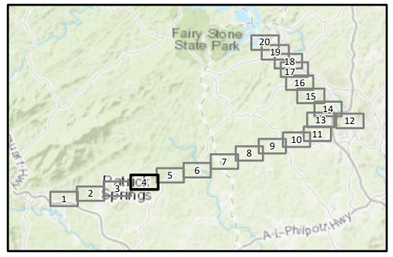
Prop. Str. 36
Prop. Ht. 72.5'

PAGE 3

PAGE 5

Mill Creek

Existing Structures: 185 to 205
Proposed Structures: 29 to 36



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 4 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart)
to Bassett Area
Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 185
Exist. Ht. 43'

Exist. Str. 184
Exist. Ht. 34'

Exist. Str. 182
Exist. Ht. 34'

Exist. Str. 181
Exist. Ht. 34'

Exist. Str. 180
Exist. Ht. 34'

Exist. Str. 179
Exist. Ht. 34'

Exist. Str. 178
Exist. Ht. 47.5'

Exist. Str. 177
Exist. Ht. 34'

Exist. Str. 176
Exist. Ht. 34'

Exist. Str. 175
Exist. Ht. 47.5'

Exist. Str. 174
Exist. Ht. 43'

Exist. Str. 173
Exist. Ht. 34'

Exist. Str. 172
Exist. Ht. 47.5'

Exist. Str. 171
Exist. Ht. 38.5'

Exist. Str. 170
Exist. Ht. 34'

Exist. Str. 169
Exist. Ht. 34'

Exist. Str. 168
Exist. Ht. 43'

Exist. Str. 167
Exist. Ht. 34'

Exist. Str. 166
Exist. Ht. 34'

Exist. Str. 165
Exist. Ht. 34'

Exist. Str. 164
Exist. Ht. 38.5'

Exist. Str. 163
Exist. Ht. 34'

Exist. Str. 183
Exist. Ht. 34'

Prop. Str. 37
Prop. Ht. 90.5'

Prop. Str. 38
Prop. Ht. 90.5'

Prop. Str. 39
Prop. Ht. 68'

Prop. Str. 40
Prop. Ht. 68'

Prop. Str. 41
Prop. Ht. 68'

Prop. Str. 42
Prop. Ht. 72.5'

Prop. Str. 43
Prop. Ht. 77'

Prop. Str. 44
Prop. Ht. 77'

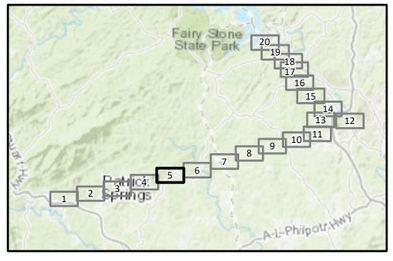
Prop. Str. 45
Prop. Ht. 81.5'

Prop. Str. 46
Prop. Ht. 86'

Happy Branch
Salem Church Rd
Salem Church
Abram Penn Hwy
Grays Fork
Twin Valley Farm Ln

PAGE 4
PAGE 6

Existing Structures: 163 to 185
Proposed Structures: 37 to 46



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 5 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 138
Exist. Ht. 34'

Exist. Str. 139
Exist. Ht. 43'

Exist. Str. 141
Exist. Ht. 34'

Exist. Str. 140
Exist. Ht. 43'

Exist. Str. 142
Exist. Ht. 34'

Exist. Str. 143
Exist. Ht. 34'

Exist. Str. 145
Exist. Ht. 43'

Exist. Str. 146
Exist. Ht. 34'

Exist. Str. 147
Exist. Ht. 34'

Exist. Str. 148
Exist. Ht. 34'

Exist. Str. 149
Exist. Ht. 34'

Exist. Str. 150
Exist. Ht. 34'

Exist. Str. 151
Exist. Ht. 34'

Exist. Str. 152
Exist. Ht. 43'

Exist. Str. 153
Exist. Ht. 34'

Exist. Str. 154
Exist. Ht. 34'

Exist. Str. 155
Exist. Ht. 38.5'

Exist. Str. 156
Exist. Ht. 34'

Exist. Str. 157
Exist. Ht. 38.5'

Exist. Str. 158
Exist. Ht. 34'

Exist. Str. 159
Exist. Ht. 52'

Exist. Str. 160
Exist. Ht. 38.5'

Exist. Str. 161
Exist. Ht. 34'

Exist. Str. 162
Exist. Ht. 38.5'

Exist. Str. 144
Exist. Ht. 34'

Prop. Str. 58
Prop. Ht. 81.5'

Prop. Str. 56
Prop. Ht. 81.5'

Prop. Str. 57
Prop. Ht. 81.5'

Prop. Str. 55
Prop. Ht. 72.5'

Prop. Str. 54
Prop. Ht. 90.5'

Prop. Str. 53
Prop. Ht. 99.5'

Prop. Str. 52
Prop. Ht. 81.5'

Prop. Str. 51
Prop. Ht. 77'

Prop. Str. 50
Prop. Ht. 68'

Prop. Str. 49
Prop. Ht. 63.5'

Prop. Str. 48
Prop. Ht. 77'

Prop. Str. 47
Prop. Ht. 95'

Happy Branch

Abram Penn Hwy

Howard Roop Ln

North Mayo River

Hollandsworth Dr

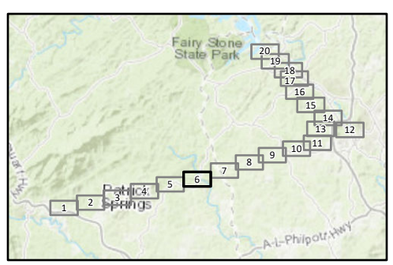
Cecil Ln

Via Farm Ln

PAGE 7

PAGE 5

Existing Structures: 138 to 162
Proposed Structures: 47 to 58



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- North Mayo Scenic River
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 6 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

PATRICK COUNTY
HENRY COUNTY
HENRY COUNTY
PATRICK COUNTY

Existing Separate Project: Patrick Henry Substation and Associated Transmission Line Structures (See Section I, Response to Guidelines)

Patrick Henry Substation

Exist. Str. 113
Exist. Ht. 34'

Exist. Str. 114
Exist. Ht. 43'

Exist. Str. 115
Exist. Ht. 56.5'

Exist. Str. 116
Exist. Ht. 52'

Exist. Str. 117
Exist. Ht. 38.5'

Exist. Str. 118
Exist. Ht. 38.5'

Exist. Str. 119
Exist. Ht. 34'

Exist. Str. 120
Exist. Ht. 34'

Exist. Str. 121
Exist. Ht. 34'

Exist. Str. 122
Exist. Ht. 34'

Exist. Str. 123A
Exist. Ht. 38'

Exist. Str. 127
Exist. Ht. 34'

Exist. Str. 128
Exist. Ht. 47.5'

Exist. Str. 129
Exist. Ht. 43'

Exist. Str. 130
Exist. Ht. 52'

Exist. Str. 131
Exist. Ht. 52'

Exist. Str. 132
Exist. Ht. 34'

Exist. Str. 133
Exist. Ht. 43'

Exist. Str. 134
Exist. Ht. 34'

Exist. Str. 135
Exist. Ht. 34'

Exist. Str. 136
Exist. Ht. 34'

Exist. Str. 137
Exist. Ht. 43'

Prop. Str. 59
Prop. Ht. 90.5'

Prop. Str. 60
Prop. Ht. 77'

Prop. Str. 61
Prop. Ht. 77'

Prop. Str. 62
Prop. Ht. 77'

Prop. Str. 63
Prop. Ht. 68'

Prop. Str. 64
Prop. Ht. 72.5'

Prop. Str. 68
Prop. Ht. 90.5'

Prop. Str. 69
Prop. Ht. 90.5'

Prop. Str. 70
Prop. Ht. 81.5'

Prop. Str. 71
Prop. Ht. 81.5'

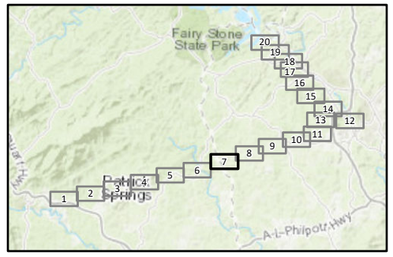
Prop. Str. 72
Prop. Ht. 63.5'

Prop. Str. 73
Prop. Ht. 86'

Koger Creek
Montclair Dr
T J Ct
Salinas Dr
Country Line Rd
Co Rd 627
Sara Ln
Hollandsworth Dr
Ford Mercury Ln

PAGE 8
PAGE 6

Existing Structures: 113 to 137
Proposed Structures: 59 to 73



- Existing APCo Substation
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing APCo Transmission Line (115 kV - 230 kV)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- County Boundary
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 7 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The existing ROW of the Fieldale - Stuart 69-kV Transmission Line is generally 50 to 100 feet wide. Based on preliminary engineering, the Company expects the ROW of the rebuilt line will be 100 feet wide and will follow the existing ROW for most of its length. Based on its engineering analysis to date, the rebuilt line can be designed as to avoid some of the affected buildings in the ROW. Accordingly, and subject to completion of final engineering and ROW negotiations with affected landowners, the Company does not expect that all of the residences and/or public buildings will need to be removed to accommodate the rebuilt line.

Exist. Str. 113
Exist. Ht. 34'

Exist. Str. 110
Exist. Ht. 52'

Exist. Str. 109
Exist. Ht. 52'

Exist. Str. 108
Exist. Ht. 47.5'

Exist. Str. 107
Exist. Ht. 34'

Exist. Str. 106
Exist. Ht. 34'

Exist. Str. 105
Exist. Ht. 34'

Exist. Str. 104
Exist. Ht. 52'

Exist. Str. 102
Exist. Ht. 56.5'

Exist. Str. 100
Exist. Ht. 34'

Exist. Str. 99
Exist. Ht. 38.5'

Exist. Str. 98
Exist. Ht. 38.5'

Exist. Str. 97
Exist. Ht. 34'

Exist. Str. 96
Exist. Ht. 34'

Exist. Str. 95
Exist. Ht. 43'

Exist. Str. 94
Exist. Ht. 43'

Exist. Str. 93
Exist. Ht. 34'

Exist. Str. 91
Exist. Ht. 43'

Exist. Str. 90
Exist. Ht. 43'

Exist. Str. 92
Exist. Ht. 34'

Exist. Str. 101
Exist. Ht. 34'

Exist. Str. 103
Exist. Ht. 34'

Exist. Str. 111
Exist. Ht. 47.5'

Exist. Str. 112
Exist. Ht. 34'

Exist. Str. 114
Exist. Ht. 43'

Prop. Str. 73
Prop. Ht. 86'

Prop. Str. 74
Prop. Ht. 81.5'

Prop. Str. 75
Prop. Ht. 95'

Prop. Str. 76
Prop. Ht. 95'

Prop. Str. 77
Prop. Ht. 95'

Prop. Str. 78
Prop. Ht. 81.5'

Prop. Str. 79
Prop. Ht. 68'

Prop. Str. 80
Prop. Ht. 86'

Prop. Str. 81
Prop. Ht. 77'

Prop. Str. 82
Prop. Ht. 72.5'

Prop. Str. 83
Prop. Ht. 72.5'

Prop. Str. 84
Prop. Ht. 72.5'

Prop. Str. 85
Prop. Ht. 90.5'

PAGE 7

PAGE 9

Co Rd 627

Co Rd 830

Co Rd 698

Softwin Dr

Koger Creek

Bull Run

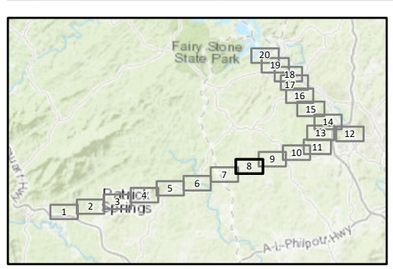
Indian Village Rd

Allward Ct

Reliance Dr

Community Baptist Church

Existing Structures: 90 to 114
Proposed Structures: 73 to 85



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Residential Structure (within proposed 100' ROW) (See Note 3)
- Place of Worship
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 8 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 93
Exist. Ht. 34'

Exist. Str. 90
Exist. Ht. 43'

Exist. Str. 91
Exist. Ht. 43'

Exist. Str. 87
Exist. Ht. 34'

Exist. Str. 88
Exist. Ht. 43'

Exist. Str. 85
Exist. Ht. 38.5'

Exist. Str. 84
Exist. Ht. 38.5'

Exist. Str. 82
Exist. Ht. 52'

Exist. Str. 81
Exist. Ht. 34'

Exist. Str. 79
Exist. Ht. 34'

Exist. Str. 78
Exist. Ht. 34'

Exist. Str. 77
Exist. Ht. 34'

Exist. Str. 76
Exist. Ht. 52'

Exist. Str. 75
Exist. Ht. 34'

Exist. Str. 74
Exist. Ht. 34'

Exist. Str. 73
Exist. Ht. 34'

Exist. Str. 71
Exist. Ht. 34'

Exist. Str. 72
Exist. Ht. 34'

Exist. Str. 70
Exist. Ht. 43'

Exist. Str. 68
Exist. Ht. 38.5'

Exist. Str. 69
Exist. Ht. 47.5'

Exist. Str. 80
Exist. Ht. 34'

Exist. Str. 83
Exist. Ht. 38.5'

Exist. Str. 86
Exist. Ht. 34'

Exist. Str. 89
Exist. Ht. 34'

Exist. Str. 92
Exist. Ht. 34'

Prop. Str. 84
Prop. Ht. 72.5'

Prop. Str. 85
Prop. Ht. 90.5'

Prop. Str. 86
Prop. Ht. 95'

Prop. Str. 87
Prop. Ht. 81.5'

Prop. Str. 88
Prop. Ht. 77'

Prop. Str. 89
Prop. Ht. 90.5'

Prop. Str. 90
Prop. Ht. 72.5'

Prop. Str. 91
Prop. Ht. 77'

Prop. Str. 92
Prop. Ht. 77'

Prop. Str. 93
Prop. Ht. 77'

Prop. Str. 94
Prop. Ht. 77'

PAGE 8

PAGE 10

Mitchell Farm Ln

Co Rd 609

Stones Dairy Rd

Plasters Park Cir

Sam Earls Rd

Harvey Ln

Horse Pasture Creek

Pleasant Dr

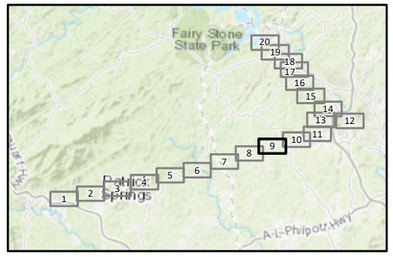
Wingfield Orchard Rd

Davis Rd

Shirley Dr

Reliance Dr

Existing Structures: 68 to 93
Proposed Structures: 84 to 94



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Populated Place
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 9 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The existing ROW of the Fieldale - Stuart 69-kV Transmission Line is generally 50 to 100 feet wide. Based on preliminary engineering, the Company expects the ROW of the rebuilt line will be 100 feet wide and will follow the existing ROW for most of its length. Based on its engineering analysis to date, the rebuilt line can be designed as to avoid some of the affected buildings in the ROW. Accordingly, and subject to completion of final engineering and ROW negotiations with affected landowners, the Company does not expect that all of the residences and/or public buildings will need to be removed to accommodate the rebuilt line.

Exist. Str. 70
Exist. Ht. 43'

Exist. Str. 68
Exist. Ht. 38.5'

Exist. Str. 69
Exist. Ht. 47.5'

Prop. Str. 96
Prop. Ht. 77'

Exist. Str. 62
Exist. Ht. 38.5'

Exist. Str. 63
Exist. Ht. 38.5'

Exist. Str. 64
Exist. Ht. 34'

Exist. Str. 60
Exist. Ht. 34'

Exist. Str. 61
Exist. Ht. 43'

Exist. Str. 58
Exist. Ht. 47.5'

Exist. Str. 59
Exist. Ht. 38.5'

Exist. Str. 56
Exist. Ht. 47.5'

Exist. Str. 57
Exist. Ht. 34'

Exist. Str. 54
Exist. Ht. 52'

Exist. Str. 55
Exist. Ht. 34'

Exist. Str. 52
Exist. Ht. 34'

Exist. Str. 53
Exist. Ht. 34'

Exist. Str. 50
Exist. Ht. 34'

Exist. Str. 49
Exist. Ht. 43'

Exist. Str. 48
Exist. Ht. 52'

Exist. Str. 47
Exist. Ht. 38.5'

Exist. Str. 46
Exist. Ht. 52'

Prop. Str. 106
Prop. Ht. 99.5'

Prop. Str. 105
Prop. Ht. 104'

Prop. Str. 104
Prop. Ht. 90.5'

Exist. Str. 51
Exist. Ht. 34'

Prop. Str. 103
Prop. Ht. 86'

Prop. Str. 102
Prop. Ht. 81.5'

Prop. Str. 101
Prop. Ht. 68'

Prop. Str. 100
Prop. Ht. 81.5'

Prop. Str. 99
Prop. Ht. 81.5'

Prop. Str. 98
Prop. Ht. 81.5'

Prop. Str. 97
Prop. Ht. 81.5'

Exist. Str. 66
Exist. Ht. 38.5'

Exist. Str. 67
Exist. Ht. 34'

Exist. Str. 65
Exist. Ht. 43'

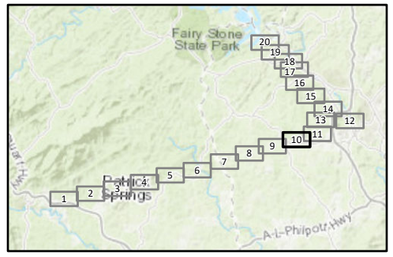
Prop. Str. 95
Prop. Ht. 72.5'

Prop. Str. 94
Prop. Ht. 77'

Prop. Str. 93
Prop. Ht. 77'

Co Rd 1802
Tilley Dr
Co Rd 774
Co Rd 609
Stones Dairy Rd
Hyl Dr
Sam Earls Rd
Valley Drive Baptist Church
Valley Dr
Pruitt Dr
Co Rd 1812
Artwood Dr
Hylton Ct
Co Rd 1000
Rangeley Creek
PAGE 9
PAGE 11

Existing Structures: 46 to 70
Proposed Structures: 93 to 106



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Residential Structure (within proposed 100' ROW) (See Note 3)
- Place of Worship
- Populated Place
- Road
- Stream (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 10 of 20

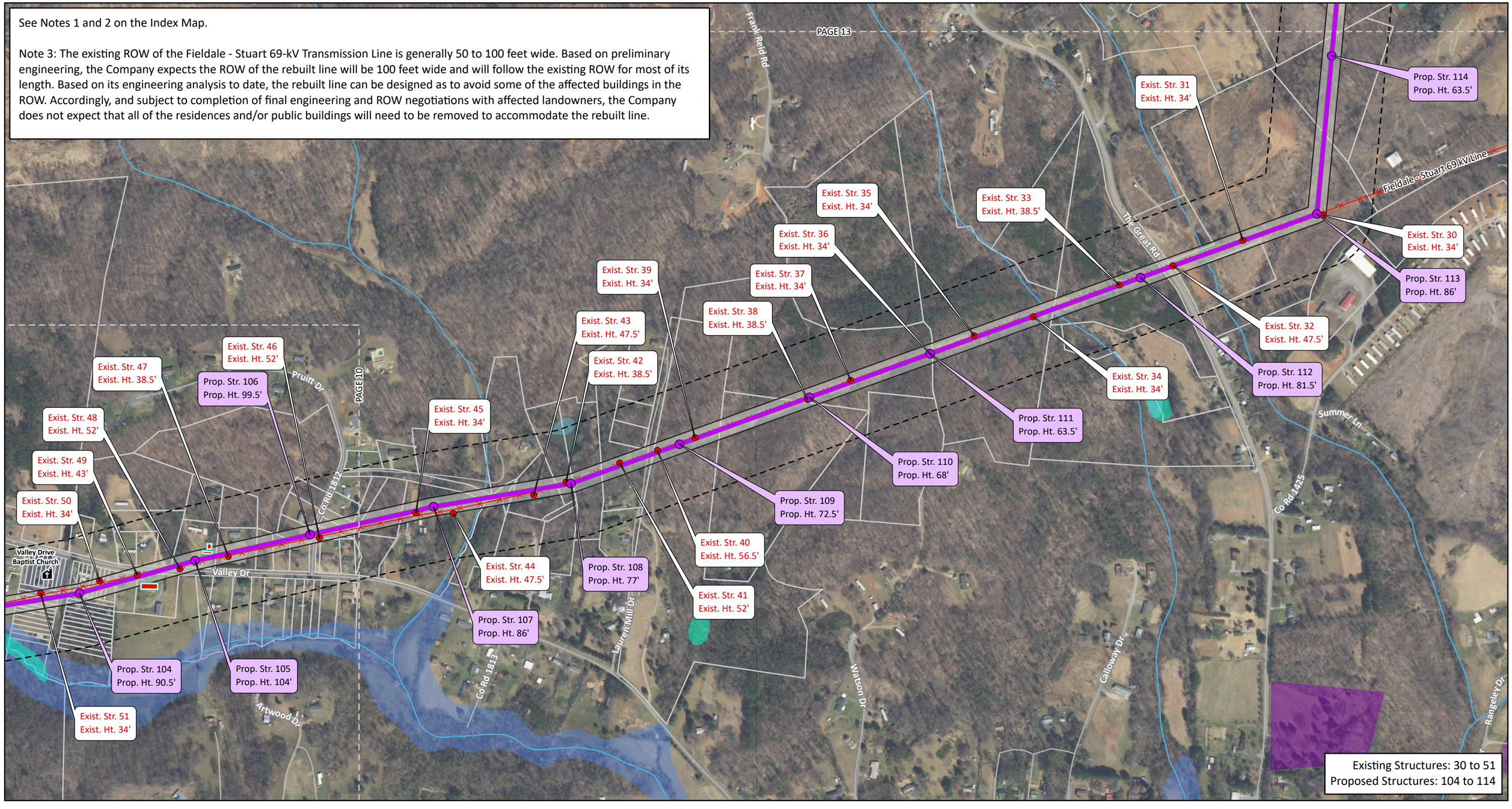
Exhibit 9:
Component 3
GIS Constraints Map

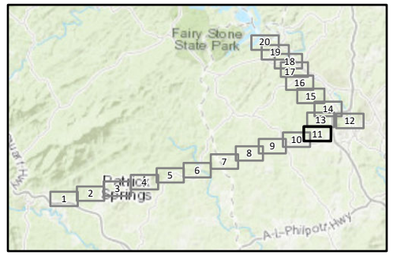
APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The existing ROW of the Fieldale - Stuart 69-kV Transmission Line is generally 50 to 100 feet wide. Based on preliminary engineering, the Company expects the ROW of the rebuilt line will be 100 feet wide and will follow the existing ROW for most of its length. Based on its engineering analysis to date, the rebuilt line can be designed as to avoid some of the affected buildings in the ROW. Accordingly, and subject to completion of final engineering and ROW negotiations with affected landowners, the Company does not expect that all of the residences and/or public buildings will need to be removed to accommodate the rebuilt line.





- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Residential Structure (within proposed 100' ROW) (See Note 3)
- Place of Worship
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000

Feet

Map 11 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 4
Prop. Ht. 63.5'

Exist. Str. 8
Exist. Ht. 65.5'

Prop. Str. 5
Prop. Ht. 99.5'

PAGE 14

Exist. Str. 7
Exist. Ht. 47.5'

Prop. Str. 6
Prop. Ht. 104'

Exist. Str. 6
Exist. Ht. 56.5'

Prop. Str. 7
Prop. Ht. 72.5'

Exist. Str. 5
Exist. Ht. 47.5'

Prop. Str. 8
Prop. Ht. 95'

Prop. Str. 9
Prop. Ht. 81.5'

Exist. Str. 4
Exist. Ht. 65.5'

Exist. Str. 3
Exist. Ht. 65.5'

Prop. Str. 10
Prop. Ht. 70'

Exist. Str. 2
Exist. Ht. 56.5'

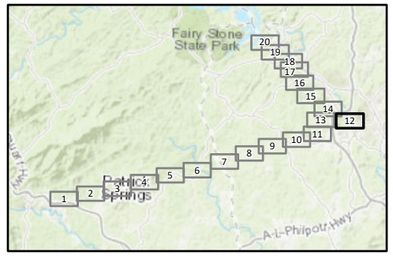
Exist. Str. 263A
Exist. Ht. 61'

Prop. Str. 11
Prop. Ht. 70'

Exist. Str. 264
Exist. Ht. 65.5'

River Rd
Shadyview Rd
Brentwood Dr
Autumn Dr
Roanoke - Carolina 138 kV Line
Fieldale - West Bassett No. 1 69 kV Line
PAYNE
57
Co Rd 1797
Hudson Rd
Macarthur Dr
Daniel Creek Rd
Gaytor - Fieldale 138 kV Line
Co Rd 682
Smith River
Appalachian Dr
Fieldale - Morris Novelty 34 kV Line
Dan's Creek
Fieldale - Stuart 69 kV Line
Co Rd 746
Co Rd 868
Hill St
9th St
Tenth St
Co Rd 701
Fieldale Substation
Dupont - Fieldale 69 kV Line
Fieldale - Dan River 138 kV Line

Existing Structures: 2 to 8, 263A to 264
Proposed Structures: 4 to 11



- Existing APCo Substation
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing APCo Transmission Line (69 kv or lower)
- Existing APCo Transmission Line (115 kV - 230 kV)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Populated Place
- Highway
- Road
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 12 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

ROCK RUN

Rock Run Church

New Bethel Church

Saint James Church

Co Rd 1406

Co Rd 767

Co Rd 681

Co Rd 1810

Co Rd 924

Idlewild Dr

Idlewilde Dr

Briarhill Dr

Canton Dr

Arrowood Dr

Brandermill Dr

Frank Redd Rd

Frank Reid Rd

The Great Rd

William F Stone Hwy

PAGE 14

PAGE 11

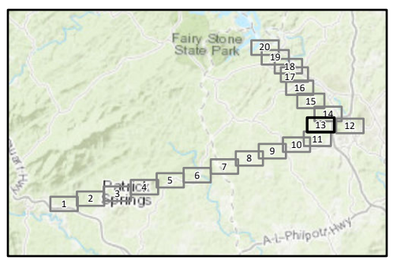
Prop. Str. 118
Prop. Ht. 59'

Prop. Str. 117
Prop. Ht. 59'

Prop. Str. 116
Prop. Ht. 81.5'

Prop. Str. 115
Prop. Ht. 81.5'

Existing Structures: N/A
Proposed Structures: 115 to 118



- Proposed Structure
- Component 3 Proposed Route (Single Circuit)
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Populated Place
- NRHP Building
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 13 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 17
Exist. Ht. 52'

Prop. Str. 125
Prop. Ht. 99.5'

PAGE 15

Prop. Str. 124
Prop. Ht. 81.5'

Exist. Str. 16
Exist. Ht. 38.5'

Claytor - Fieldale 138kV Line

Co Rd 9201

Bassett High School

Exist. Str. 14
Exist. Ht. 52'

Prop. Str. 122
Prop. Ht. 104'

Appalachian Service Center

Hordsville Cemetery

Prop. Str. 3
Prop. Ht. 86.25'

Proposed Stoneleigh Substation

Smith River

Eastman (Manufacturer)

Virgie Dr

Prop. Str. 2
Prop. Ht. 90.5'

Prop. Str. 123
Prop. Ht. 95'

The Great Rd

Prop. Str. 1
Prop. Ht. 90.5'

Exist. Str. 15
Exist. Ht. 43'

Prop. Str. 121
Prop. Ht. 86'

Exist. Str. 12
Exist. Ht. 47.5'

Exist. Str. 13
Exist. Ht. 52'

Exist. Str. 11
Exist. Ht. 47.5'

Prop. Str. 120A
Prop. Ht. 96.3'

Co Rd 907

Exist. Str. 10
Exist. Ht. 43'

Prop. Str. 120B
Prop. Ht. 96.3'

Co Rd 1406

Prop. Str. 2
Prop. Ht. 72.5'

Co Rd 682

Prop. Str. 1
Prop. Ht. 63.5'

Exist. Str. 9
Exist. Ht. 43'

Prop. Str. 119
Prop. Ht. 63.5'

PAGE 13

Idlewilde Dr

Prop. Str. 3
Prop. Ht. 81.5'

ROCK RUN

Idlewild Dr

William F Stone Hwy

PAGE 12

River Rd

Prop. Str. 118
Prop. Ht. 59'

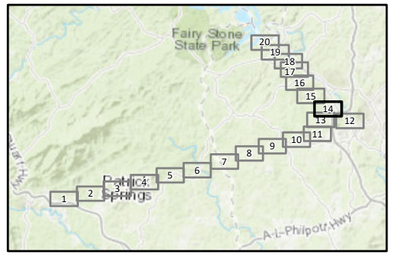
Prop. Str. 4
Prop. Ht. 63.5'

Briarhill Dr

Exist. Str. 8
Exist. Ht. 65.5'

Arrowood Dr

Existing Structures: 8 to 17, 249 to 258
Proposed Structures: 1 to 4, 118 to 125, 1 to 3



- Proposed APCo Substation
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Component 3 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Cemetery
- School
- Populated Place
- Road
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/15/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 14 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

PAGE 16

Exist. Str. 26
Exist. Ht. 56.5'

Prop. Str. 133
Prop. Ht. 106.25'

Exist. Str. 25
Exist. Ht. 47.5'

Prop. Str. 132
Prop. Ht. 86'

Exist. Str. 24
Exist. Ht. 43'

Prop. Str. 131
Prop. Ht. 77'

Exist. Str. 23
Exist. Ht. 43'

Co Rd 767

Prop. Str. 130
Prop. Ht. 104'

Exist. Str. 22
Exist. Ht. 52'

Rock Run

Exist. Str. 21
Exist. Ht. 43'

Prop. Str. 129
Prop. Ht. 86'

Clayton - Fieldale 138 kV Line

Exist. Str. 20
Exist. Ht. 38.5'

Prop. Str. 128
Prop. Ht. 86'

Exist. Str. 19
Exist. Ht. 38.5'

Exist. Str. 18
Exist. Ht. 47.5'

Prop. Str. 127
Prop. Ht. 108.5'

Prop. Str. 126
Prop. Ht. 113'

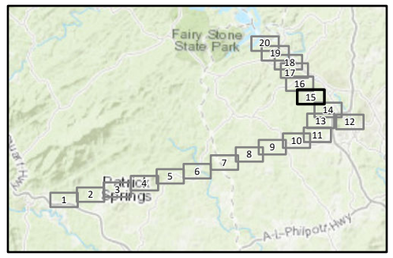
Columbus Dr

PAGE 14

Exist. Str. 17
Exist. Ht. 52'

Prop. Str. 125
Prop. Ht. 99.5'

Existing Structures: 17 to 26
Proposed Structures: 125 to 133



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- VOF Easement
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 15 of 20

Exhibit 9:
Component 3
GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Exist. Str. 32
Exist. Ht. 56.5'

Prop. Str. 138
Prop. Ht. 108.5'

Exist. Str. 31
Exist. Ht. 47.5'

Prop. Str. 137
Prop. Ht. 99.5'

Exist. Str. 30
Exist. Ht. 52'

Prop. Str. 136
Prop. Ht. 86'

Exist. Str. 29
Exist. Ht. 47.5'

Prop. Str. 135
Prop. Ht. 95'

Exist. Str. 28
Exist. Ht. 38.5'

Exist. Str. 27
Exist. Ht. 47.5'

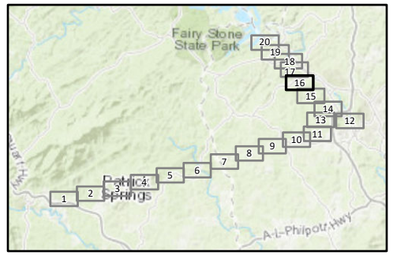
Prop. Str. 134
Prop. Ht. 106'

PAGE 17

PAGE 15

McKinley Dr
Co Rd 712
Foley Dr
Keyser Dr
Co Rd 698
Mayerland Hill Rd
Smith River
Riverside Dr
Blackberry Creek
Bermuda Dr
Co Rd 1260
Youlan Dr
Blackberry Park Cir
Oakhill Ln
Riverview Ln
Co Rd 1235
Reynolds Ridge
Windy Hill Ln
Gaston - Fieldale 138 kV Line
Betty Taylor Rd
Co Rd 780

Existing Structures: 27 to 32
Proposed Structures: 134 to 138



- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Road
- Stream (NHD)
- River (NHD)
- Wetland (NWI)
- Floodplain
- VOF Easement
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 16 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Prop. Str. 143
Prop. Ht. 103'

Exist. Str. 40
Exist. Ht. 43'

Exist. Str. 39
Exist. Ht. 70'

Exist. Str. 37B
Exist. Ht. 61'

Exist. Str. 37A
Exist. Ht. 61'

Exist. Str. 38
Exist. Ht. 61'

Exist. Str. 36
Exist. Ht. 38.5'

Exist. Str. 37
Exist. Ht. 56.5'

Bassett Substation (to be Retired)

Prop. Str. 142
Prop. Ht. 104'

Exist. Str. 35
Exist. Ht. 47.5'

Prop. Str. 141
Prop. Ht. 108.5'

Prop. Str. 140
Prop. Ht. 86.25'

Exist. Str. 34
Exist. Ht. 47.5'

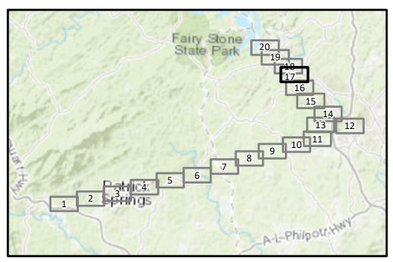
Exist. Str. 33
Exist. Ht. 47.5'

Prop. Str. 139
Prop. Ht. 108.5'

Exist. Str. 32
Exist. Ht. 56.5'

Prop. Str. 138
Prop. Ht. 108.5'

Existing Structures: 32 to 40
Proposed Structures: 138 to 143



- Existing APCo Substation to be Retired
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- School
- Populated Place
- Cell Tower (FCC)
- NRHP Building
- Highway
- Road
- Recreation Trail
- Stream (NHD)
- River (NHD)
- Waterbody (NHD)
- Floodplain
- Historic District (VDHR)
- Architectural Resource (VDHR)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 17 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The filing corridor has been expanded in this area to allow further coordination with landowner(s) per their request(s)

Exist. Str. 47
Exist. Ht. 43'

Exist. Str. 46
Exist. Ht. 38.5'

Exist. Str. 45
Exist. Ht. 34'

Exist. Str. 44
Exist. Ht. 61'

Exist. Str. 43
Exist. Ht. 56.5'

See Note 3

Prop. Str. 10
Prop. Ht. 59'

Prop. Str. 11
Prop. Ht. 81.5'

Prop. Str. 12
Prop. Ht. 77'

Prop. Str. 14
Prop. Ht. 68'

Prop. Str. 13
Prop. Ht. 68'

Exist. Str. 42
Exist. Ht. 47.5'

Prop. Str. 144
Prop. Ht. 99.5'

Prop. Str. 143
Prop. Ht. 103'

Prop. Str. 142
Prop. Ht. 104'

Prop. Str. 147
Prop. Ht. 86.25'

Prop. Str. 146
Prop. Ht. 113'

Prop. Str. 145
Prop. Ht. 106.25'

Exist. Str. 41
Exist. Ht. 38.5'

Exist. Str. 40
Exist. Ht. 43'

Exist. Str. 39
Exist. Ht. 70'

Exist. Str. 38
Exist. Ht. 61'

Exist. Str. 37B
Exist. Ht. 61'

Exist. Str. 37A
Exist. Ht. 61'

Exist. Str. 36
Exist. Ht. 38.5'

Exist. Str. 37
Exist. Ht. 56.5'

Proposed Smith River Substation

Bassett Substation (to be Retired)

Fieldale - West Bassett No. 269 kV Line

Fieldale - West Bassett No. 169 kV Line

Claytor - Fieldale 138 kV Line

Blue Ridge Land Conservancy

Former Adult Care Facility

Abandoned Furniture Warehouse

John D. Bassett High School

Star Bethlehem Baptist Church

Bible Way Holy Church

Full Gospel Holiness Church

Hunter School

Smith River

Lenoir St

Warehouse St

Fairystone Park Hwy

Scotts Byp

Wells Hollow Rd

Jackson Dr

Riverside Dr

Co Rd 712

Co Rd 972

Co Rd 673

Lawton Dr

Moses Moore Dr

Easley Dr

Rockland Dr

Cemetery Hill

Sunset Dr

Reed Stone St

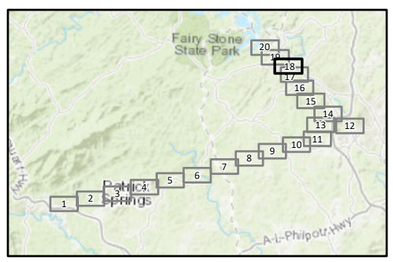
BASSETT

PAGE 19

PAGE 17

57

Existing Structures: 36 to 48
Proposed Structures: 142 to 147, 10 to 14



- Proposed APCo Substation
- Existing APCo Substation to be Retired
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Component 3 Proposed Route (Double Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- School
- Populated Place
- Cell Tower (FCC)
- Highway
- Road
- Recreation Trail
- Stream (NHD)
- River (NHD)
- Floodplain
- Historic District (VDHR)
- Architectural Resource (VDHR)
- Local Conservancy
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/15/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 18 of 20

Exhibit 9: Component 3 GIS Constraints Map

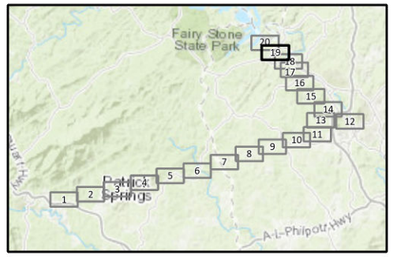
APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project:
Component 3:
Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Note 3: The filing corridor has been expanded in this area to allow further coordination with landowner(s) per their request(s)

Existing Structures: 43 to 50, 222 to 223
Proposed Structures: 6 to 12



- Existing APCo Substation to be Retired
- Proposed Structure
- Existing APCo Structure to be Removed
- Component 3 Proposed Route (Single Circuit)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Place of Worship
- Populated Place
- Cell Tower (FCC)
- Highway
- Road
- Recreation Trail
- Stream (NHD)
- River (NHD)
- Wetland (NWI)
- Floodplain
- Historic District (VDHR)
- Architectural Resource (VDHR)
- Local Conservancy
- Philpott Lake Recreation Area (USACE)
- Parcel Boundary (See Note 2)
- Map Tile

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000
Feet

Map 19 of 20

Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

See Notes 1 and 2 on the Index Map.

Bowens Creek Recreation Area

Co Rd 838

Philpott Lake

Cow Branch

Philpott Dam (USACE*) Substation

Riverbrook Rd

Fairystone Substation

FRANKLIN COUNTY

HENRY COUNTY

Smith River

Dam Spillway Rd

Philpott Lake Dam Overlook and Visitor Assistance Center

Co Rd 904

Philpott Park

Fairystone Switch

Smith River 138 kV Line

Philpott Dam

Co Rd 719

Existing Project: Rebuild of 1,700 feet of Line (See Section I, Response to Guidelines)

Lake View Ln

Claytor - Fieldale 138 kV Line

Existing Structure 1365-4

Philpott Switch (to be Retired)

Exist. Str. 221
Exist. Ht. 61'

Exist. Str. 221A
Exist. Ht. 61'

Prop. Str. 5
Prop. Ht. 72.5'

Philpott Lake Recreation Area

Boat Dock Rd

Fairystone Loop

PAGE 19

Ironwood Dr

Old Ridge Rd

Wesley Pl

Flamingo Rd

Christina Dr

Kings Park Ln

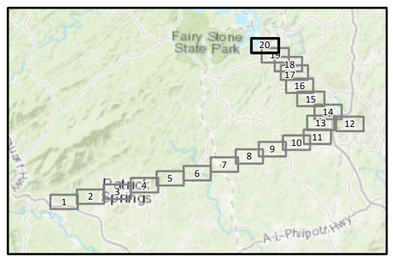
Philpott Dam Rd

Co Rd 674

Exist. Str. 222
Exist. Ht. 47.5'

Prop. Str. 6
Prop. Ht. 90.5'

Existing Structures: 221 to 222, 1365-4
Proposed Structures: 5 to 6



- Existing APCo Substation
- Non-APCo Generation Facility
- Proposed Structure
- Existing Structure
- Existing APCo Structure to be Removed
- Existing Switch Station to be Retired
- Existing Switch Station
- Component 3 Proposed Route (Single Circuit)
- Existing APCo Transmission Line (115 kV - 230 kV)
- Existing Transmission Line to be Retired
- Proposed Right-of-Way (100')
- Filing Corridor (See Note 1)
- Park
- Cell Tower (FCC)
- Birding and Wildlife Trail Sites
- Road
- Recreation Trail
- Stream (NHD)
- County Boundary
- River (NHD)
- Waterbody (NHD)
- Wetland (NWI)
- Floodplain
- Federal Conservation Land
- State Conservation Land
- Philpott Lake Recreation Area (USACE)
- Parcel Boundary (See Note 2)
- Map Tile

* USACE = U.S. Army Corps of Engineers

Patrick & Henry Counties, Virginia

Date: 5/4/2023; Author: elundy; Project: 158529

0 500 1,000

Feet

Map 20 of 20

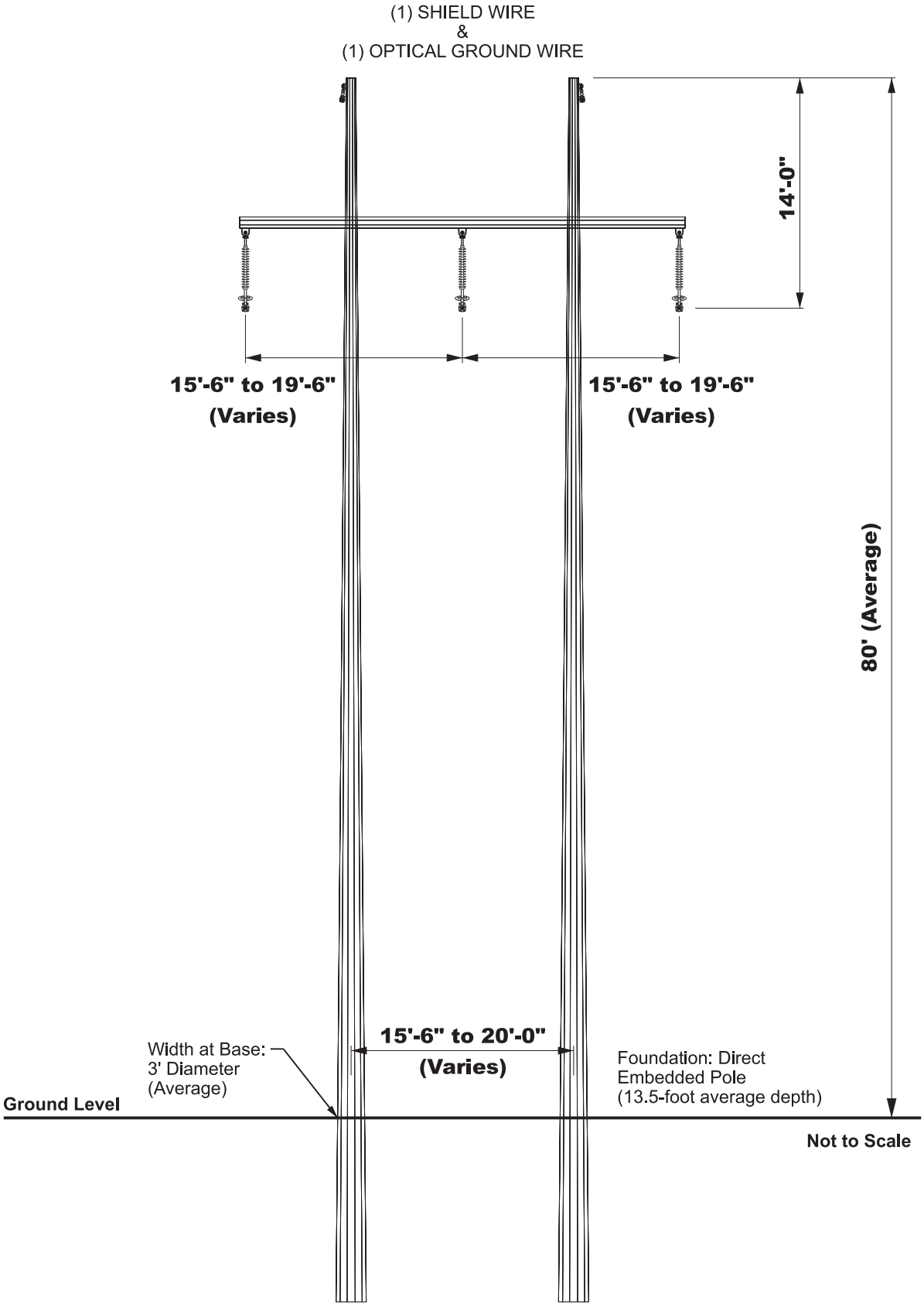
Exhibit 9: Component 3 GIS Constraints Map

APPALACHIAN POWER
An AEP Company

Stuart Area Transmission Improvements Project: Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

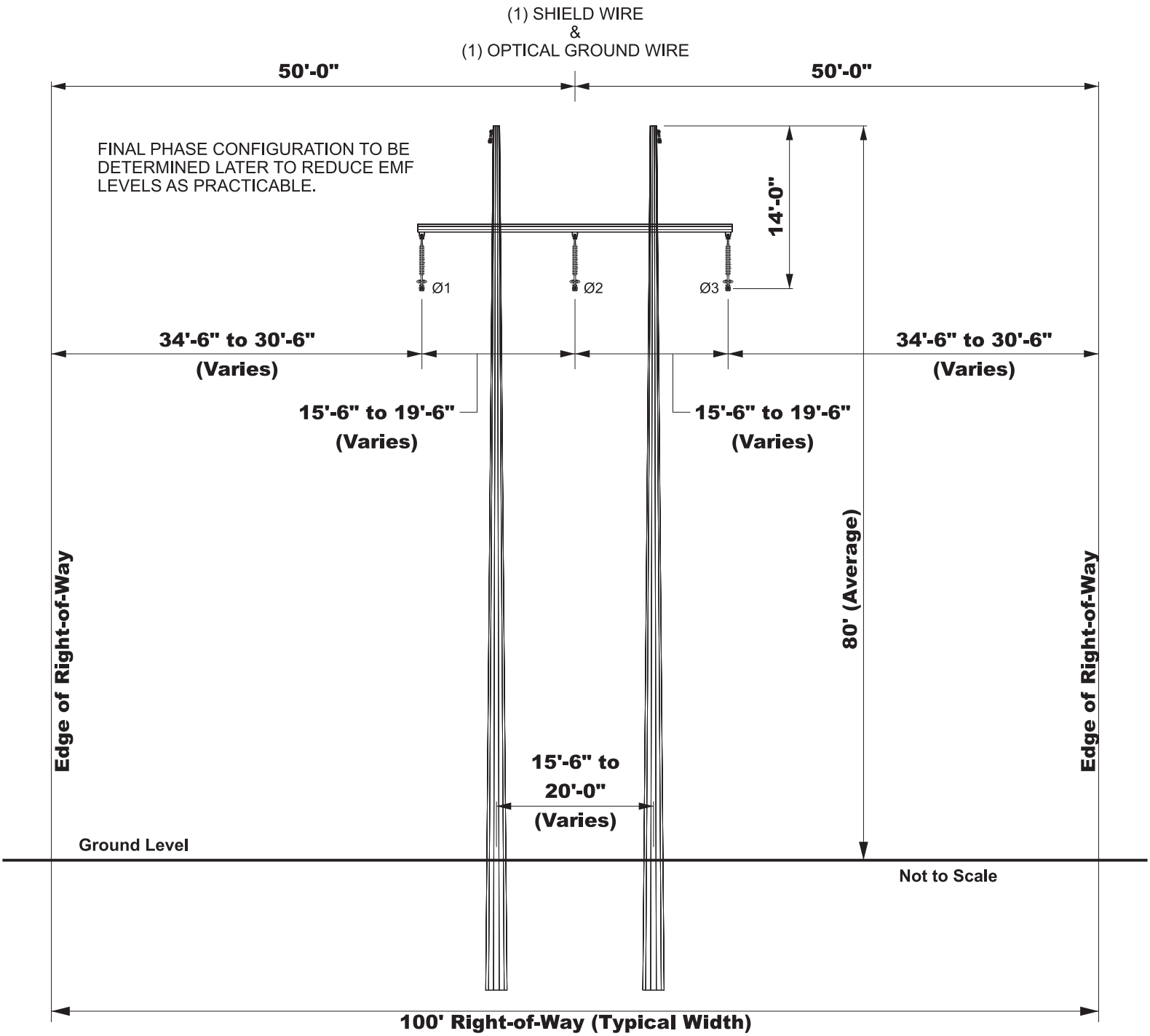
Exhibit 10: Proposed 138-kV Steel H-Frame (Single Circuit)

STEEL H-FRAME (Single Circuit)



TYPICAL SCHEMATIC

STEEL H-FRAME (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

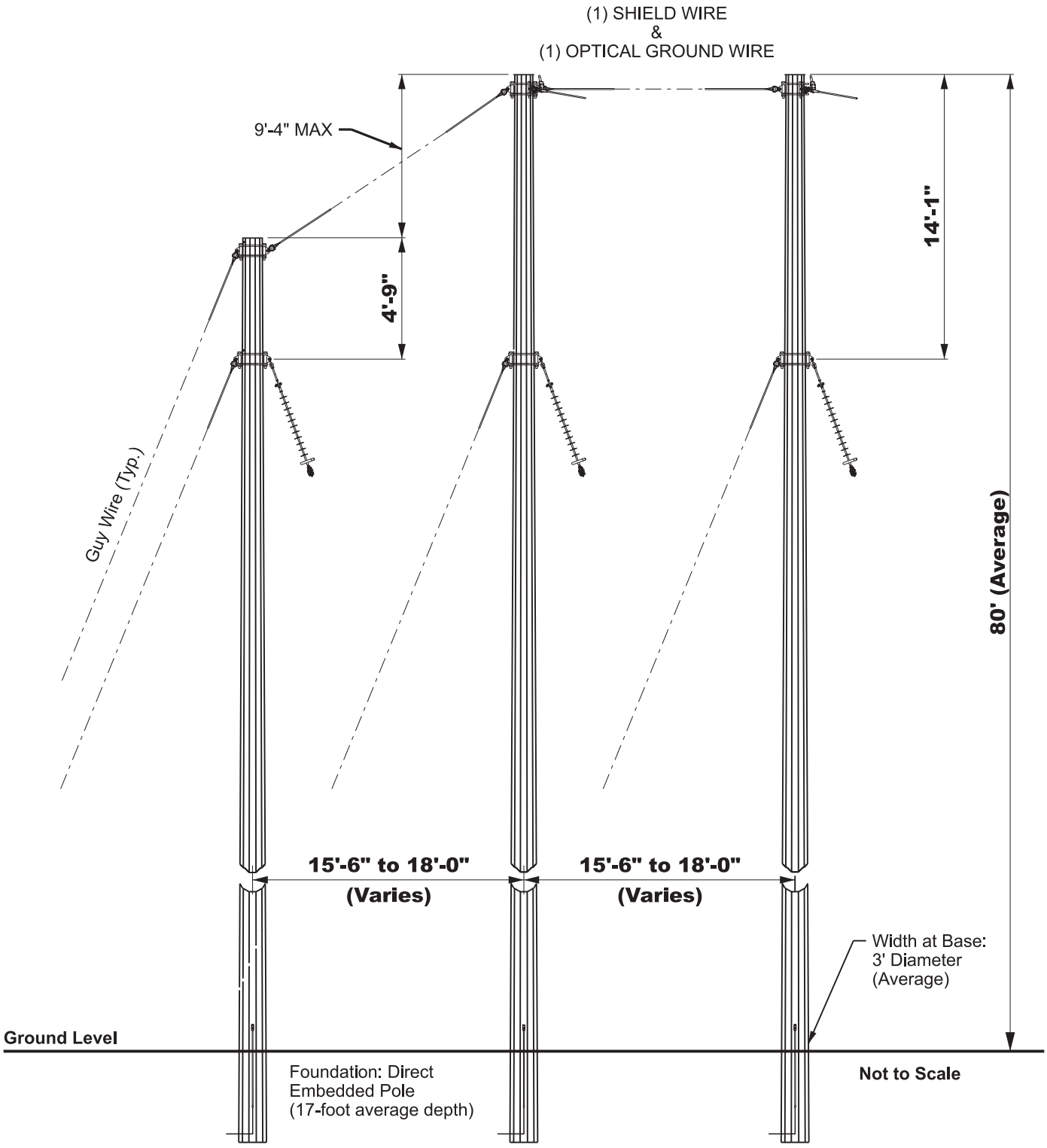
STEEL H-FRAME (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

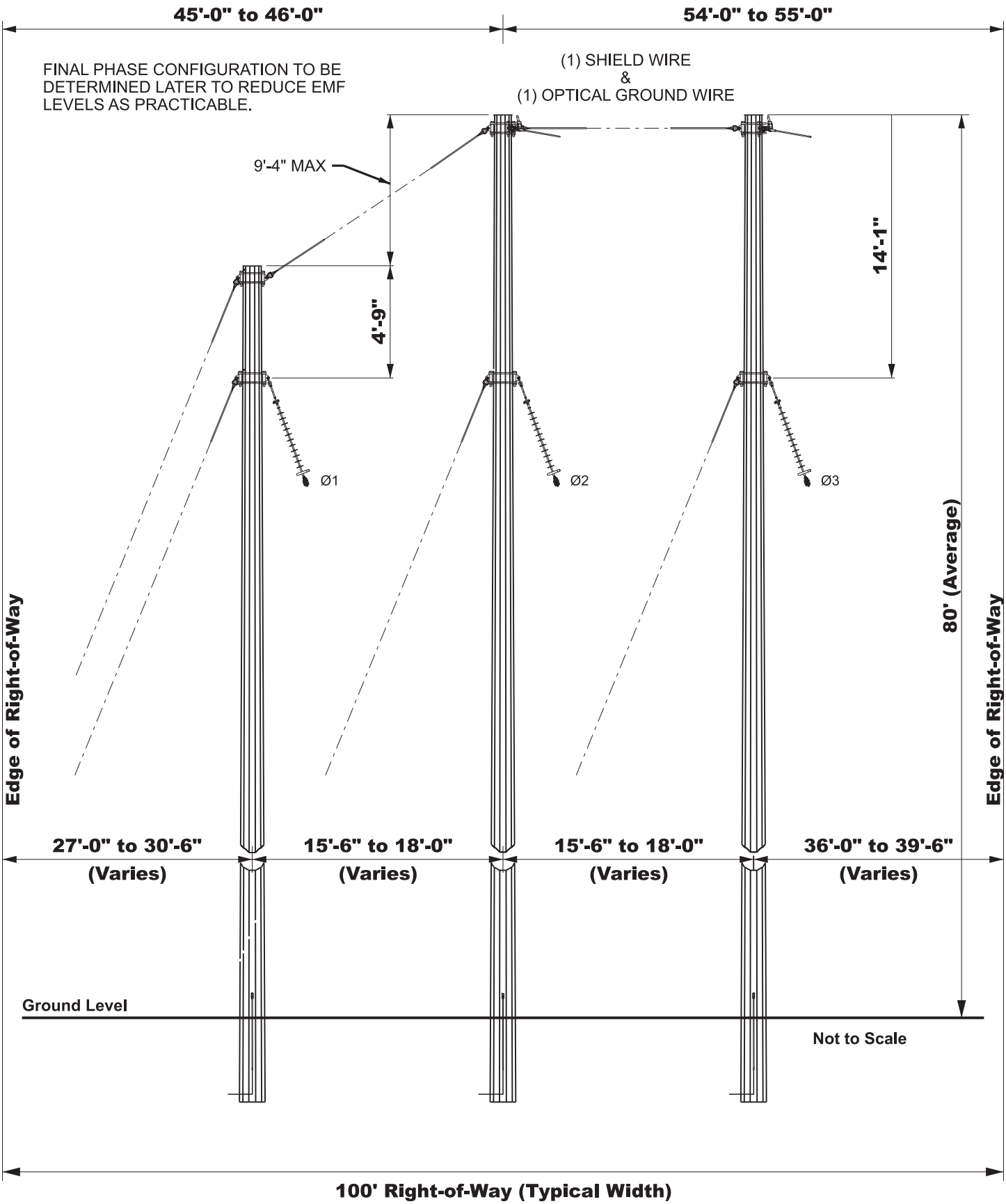
Exhibit 11: Proposed 138-kV Steel Three-Pole Running Angle (Single Circuit)

STEEL THREE-POLE RUNNING ANGLE (Single Circuit)



TYPICAL SCHEMATIC

STEEL THREE-POLE RUNNING ANGLE (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

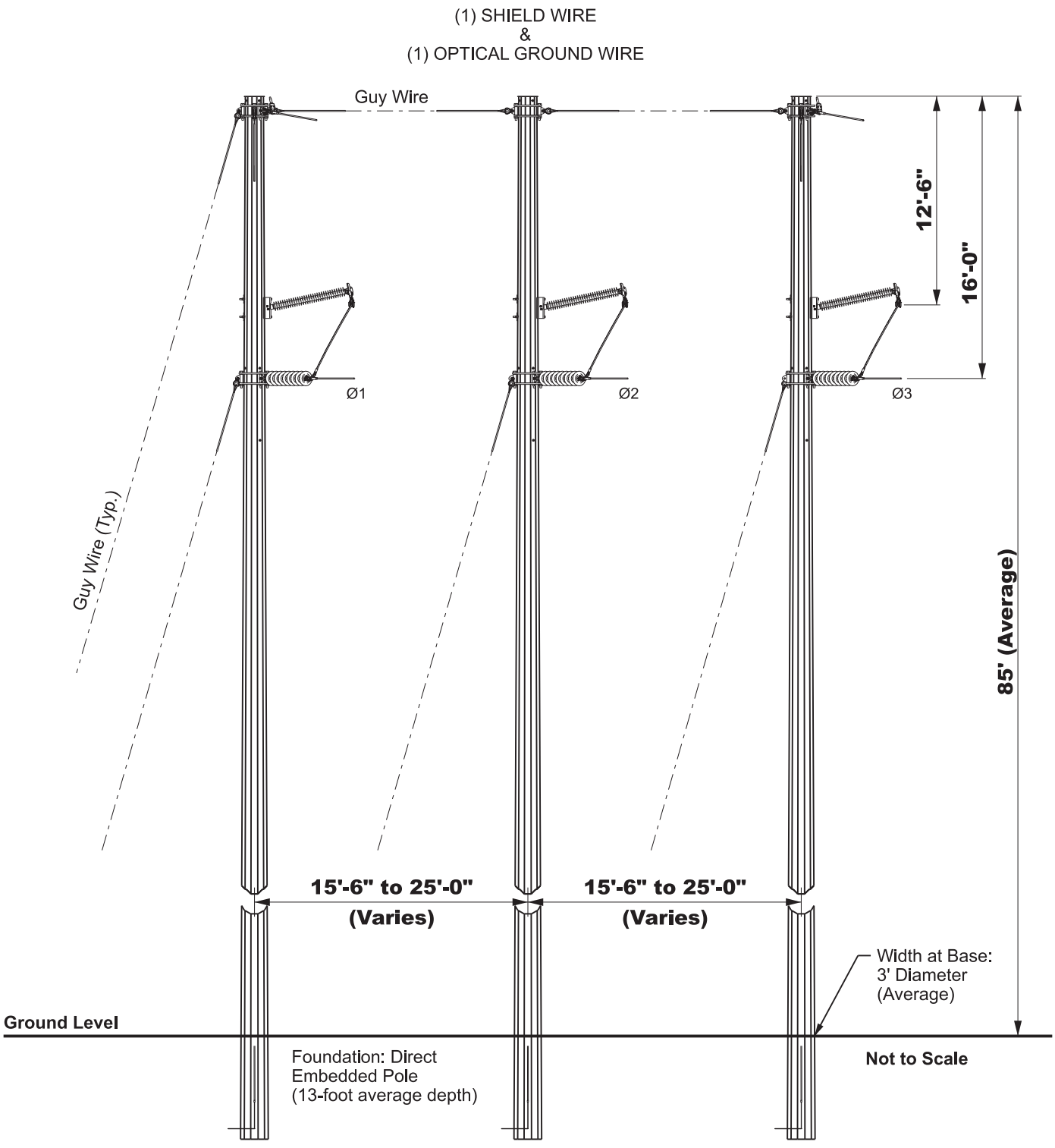
STEEL THREE-POLE RUNNING ANGLE (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

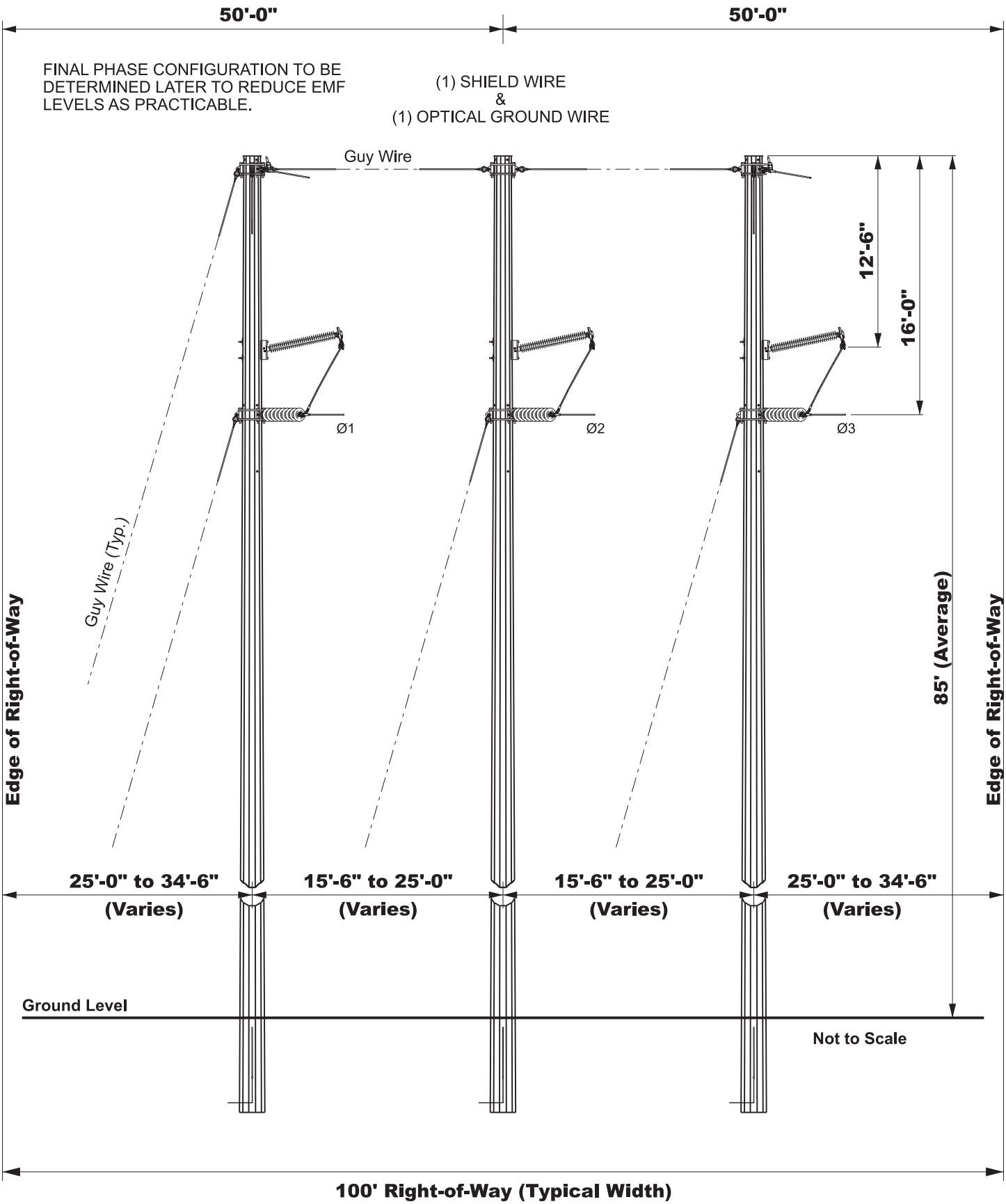
Exhibit 12: Proposed 138-kV Steel Three-Pole Dead-End (Single Circuit)

STEEL THREE-POLE DEAD-END (Single Circuit)



TYPICAL SCHEMATIC

STEEL THREE-POLE DEAD-END (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

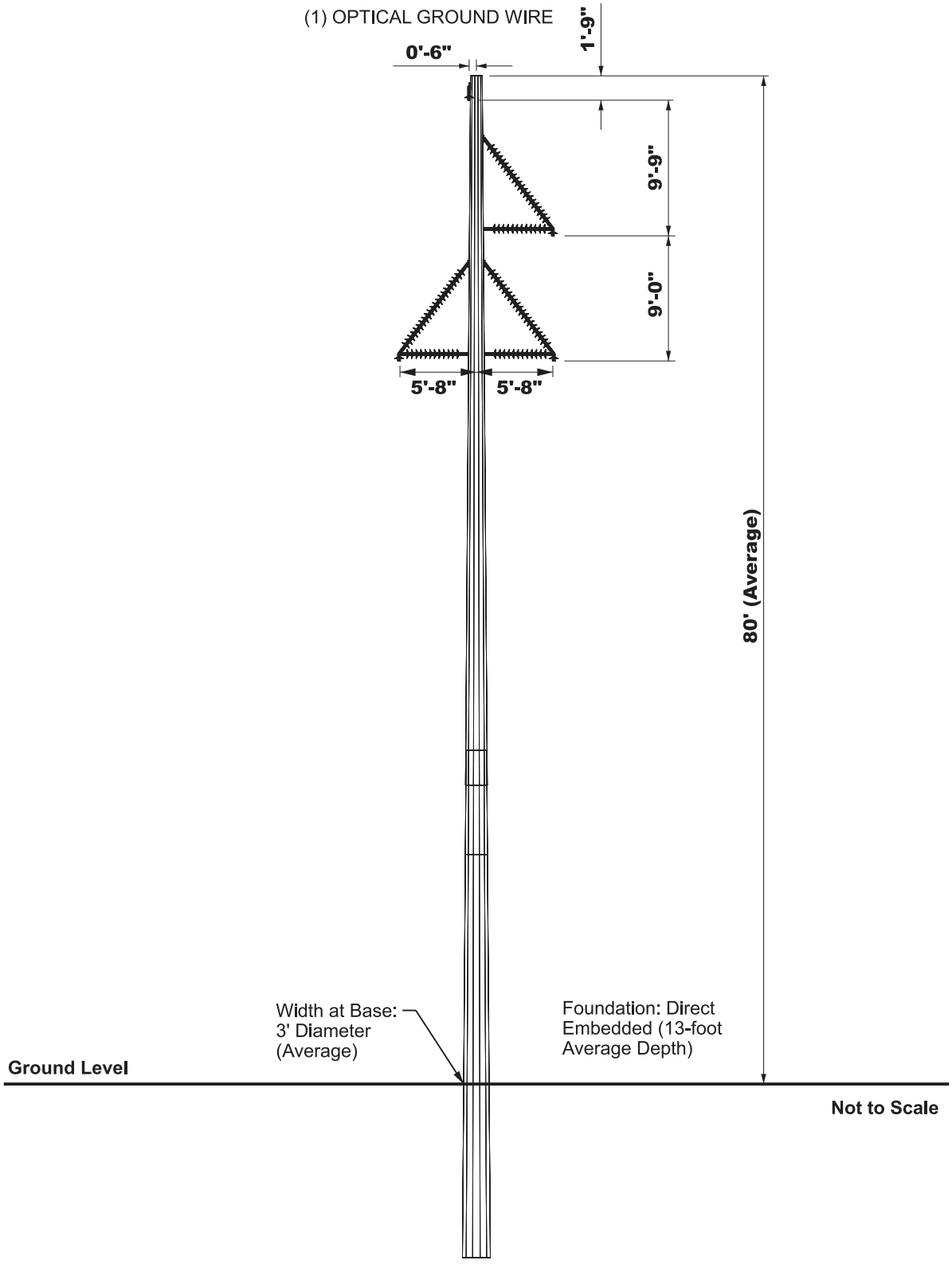
STEEL THREE-POLE DEAD-END (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

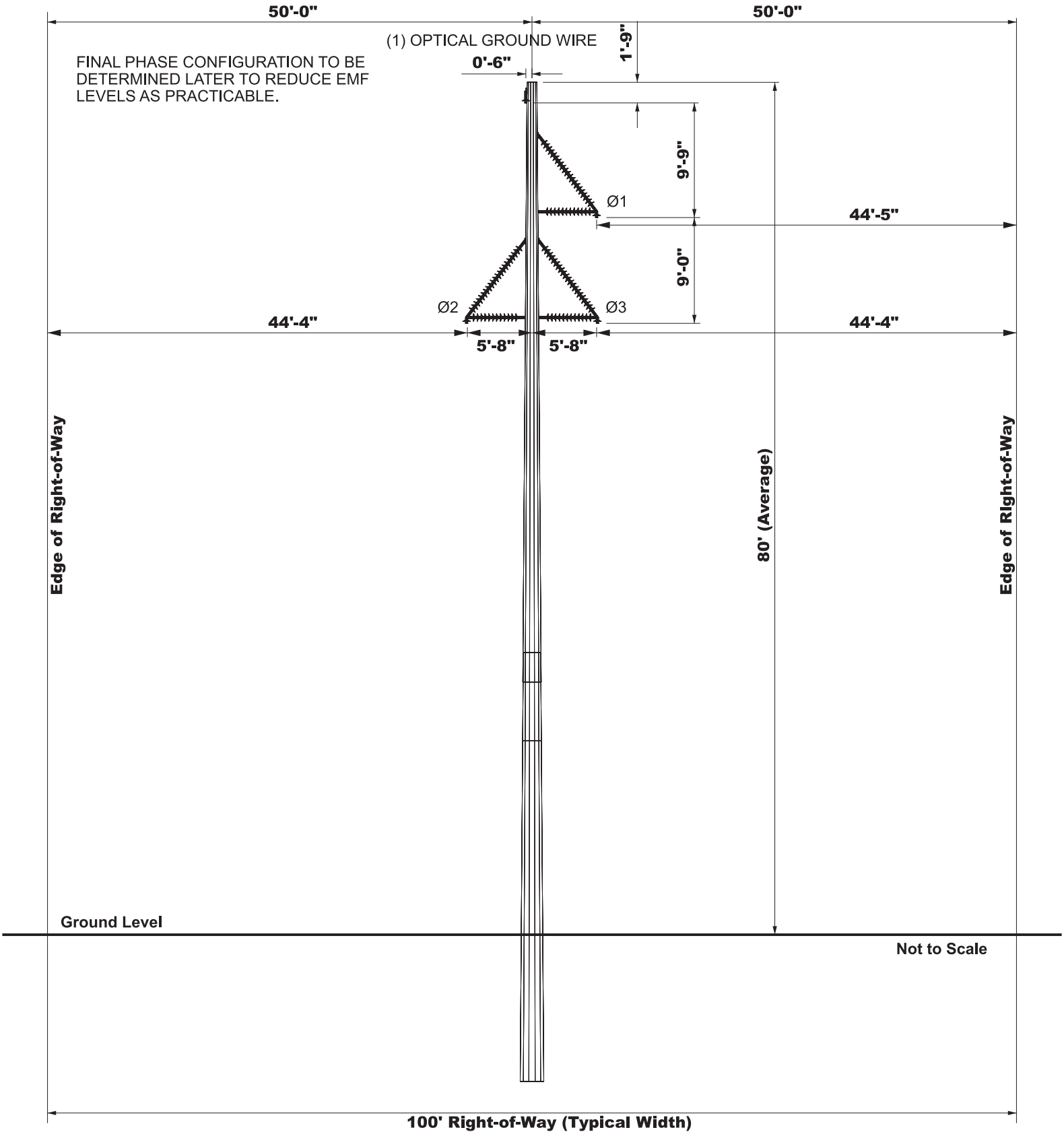
Exhibit 13: Proposed 138-kV Steel Monopole with Braced Posts (Single Circuit)

STEEL MONOPOLE WITH BRACED POSTS (Single Circuit)



TYPICAL SCHEMATIC

STEEL MONOPOLE WITH BRACED POSTS (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

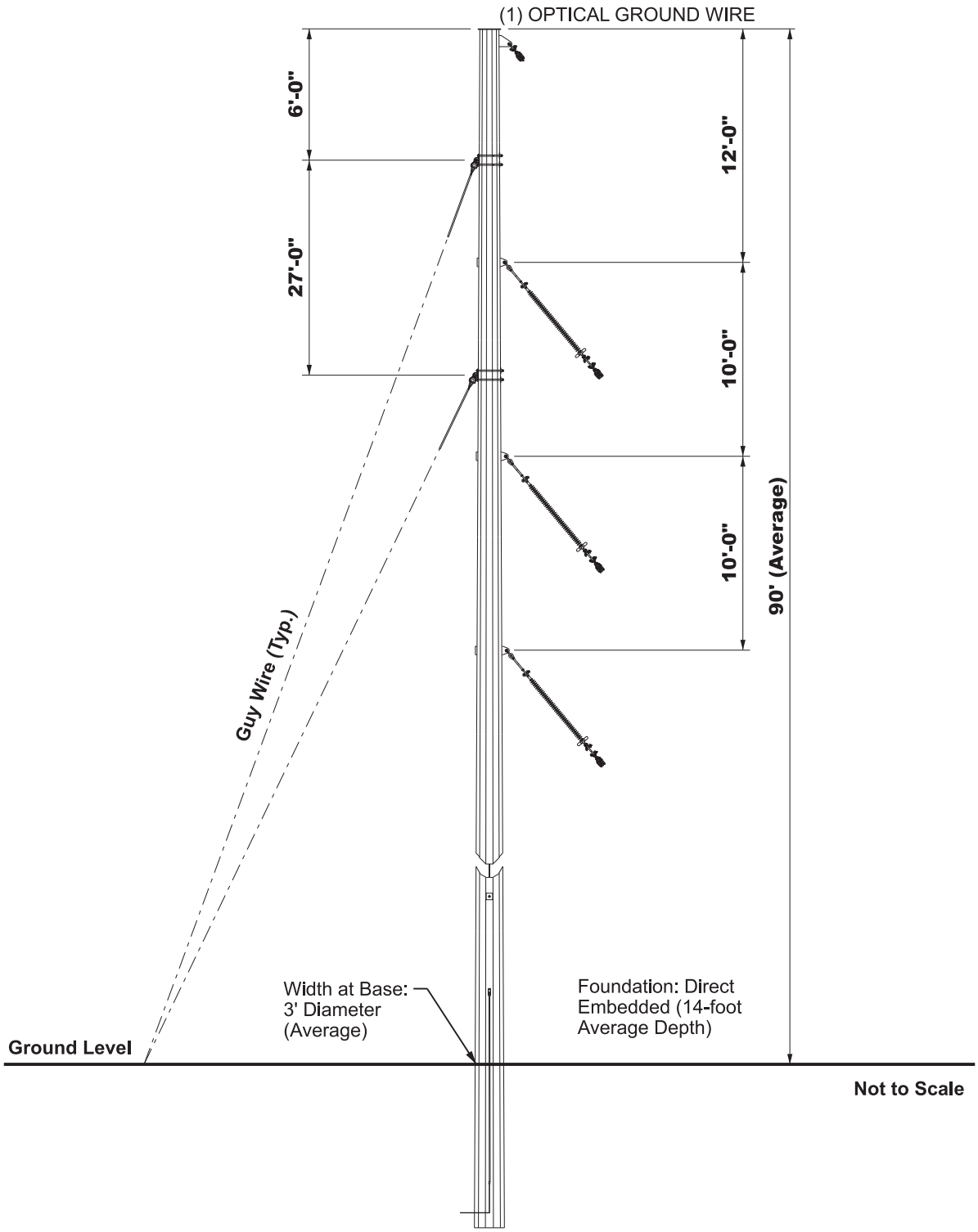
STEEL MONOPOLE WITH BRACED POSTS (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

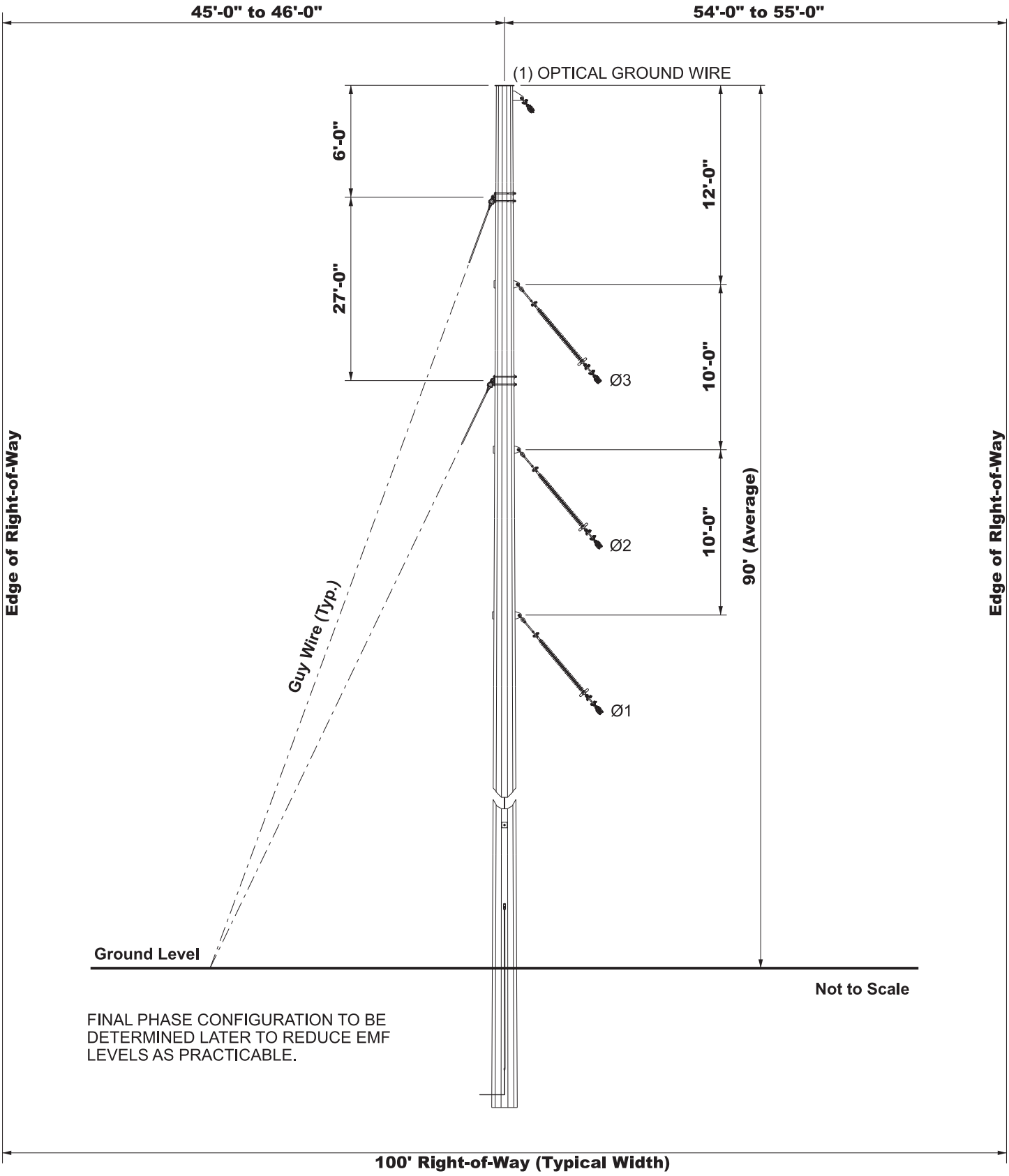
Exhibit 14: Proposed 138-kV Steel Monopole Running Angle (Single Circuit)

STEEL MONOPOLE RUNNING ANGLE (Single Circuit)



TYPICAL SCHEMATIC

STEEL MONOPOLE RUNNING ANGLE (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

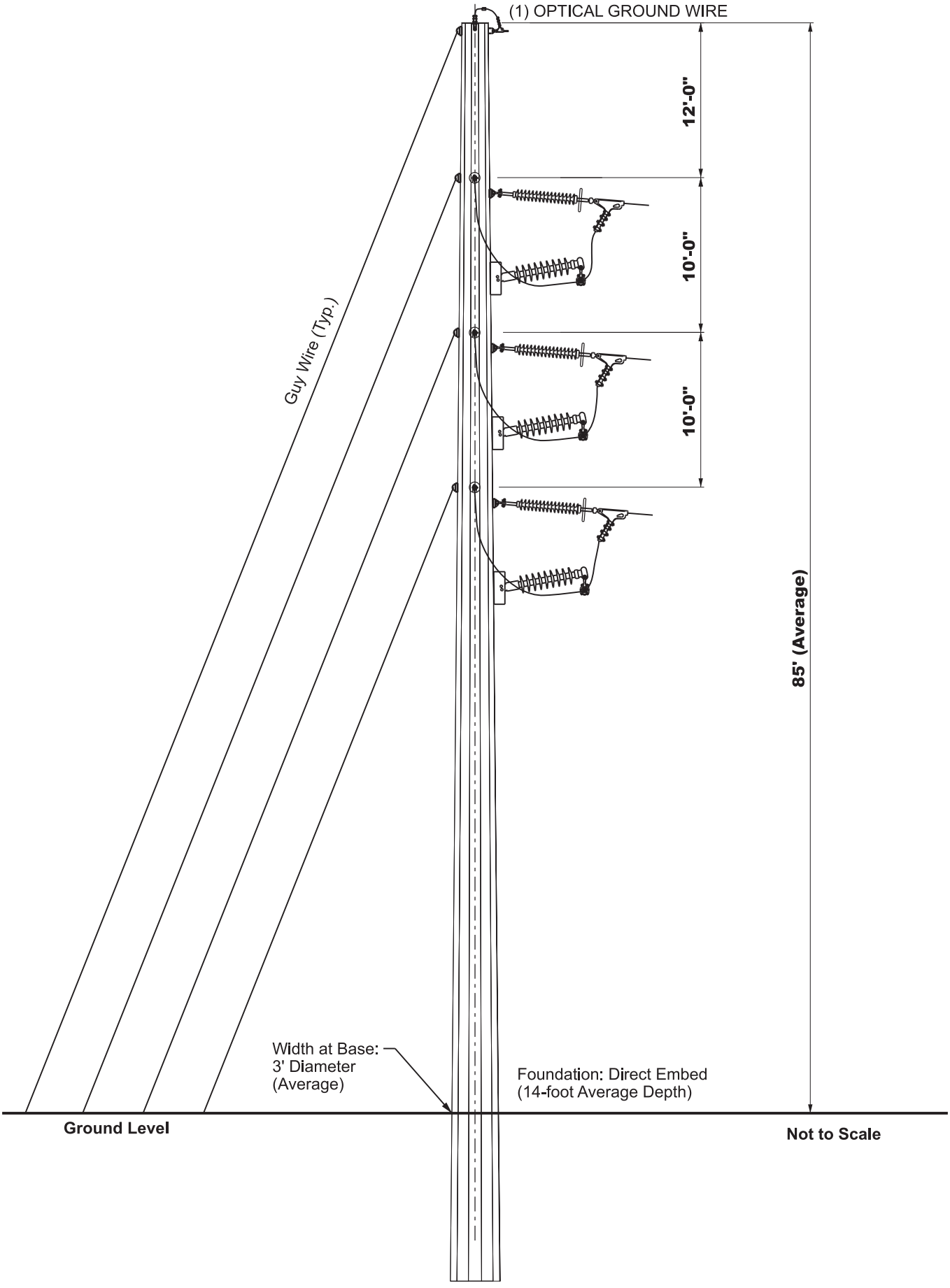
STEEL MONOPOLE RUNNING ANGLE (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

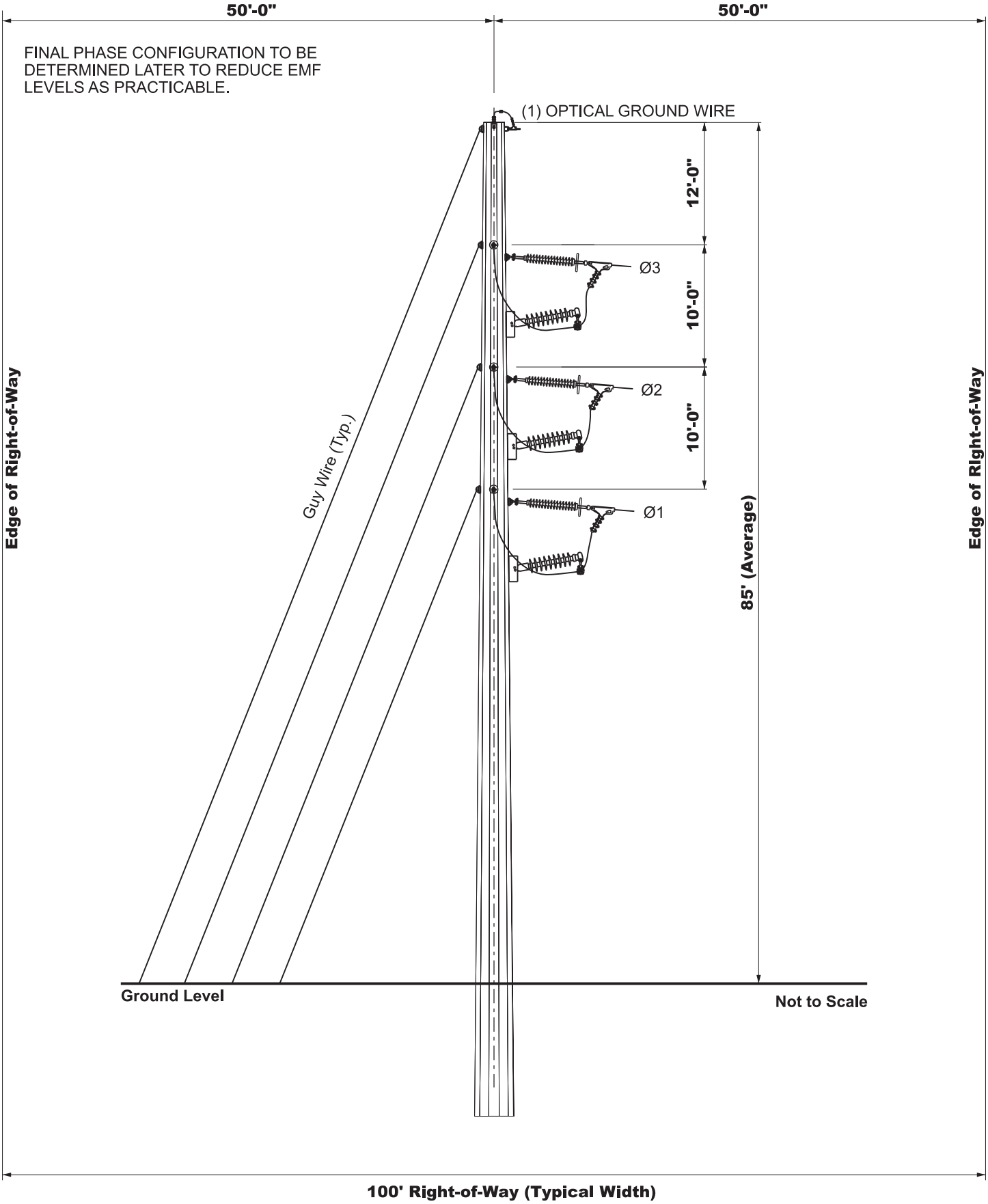
Exhibit 15: Proposed 138-kV Guyed Steel Monopole Dead-End (Single Circuit)

GUYED STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)



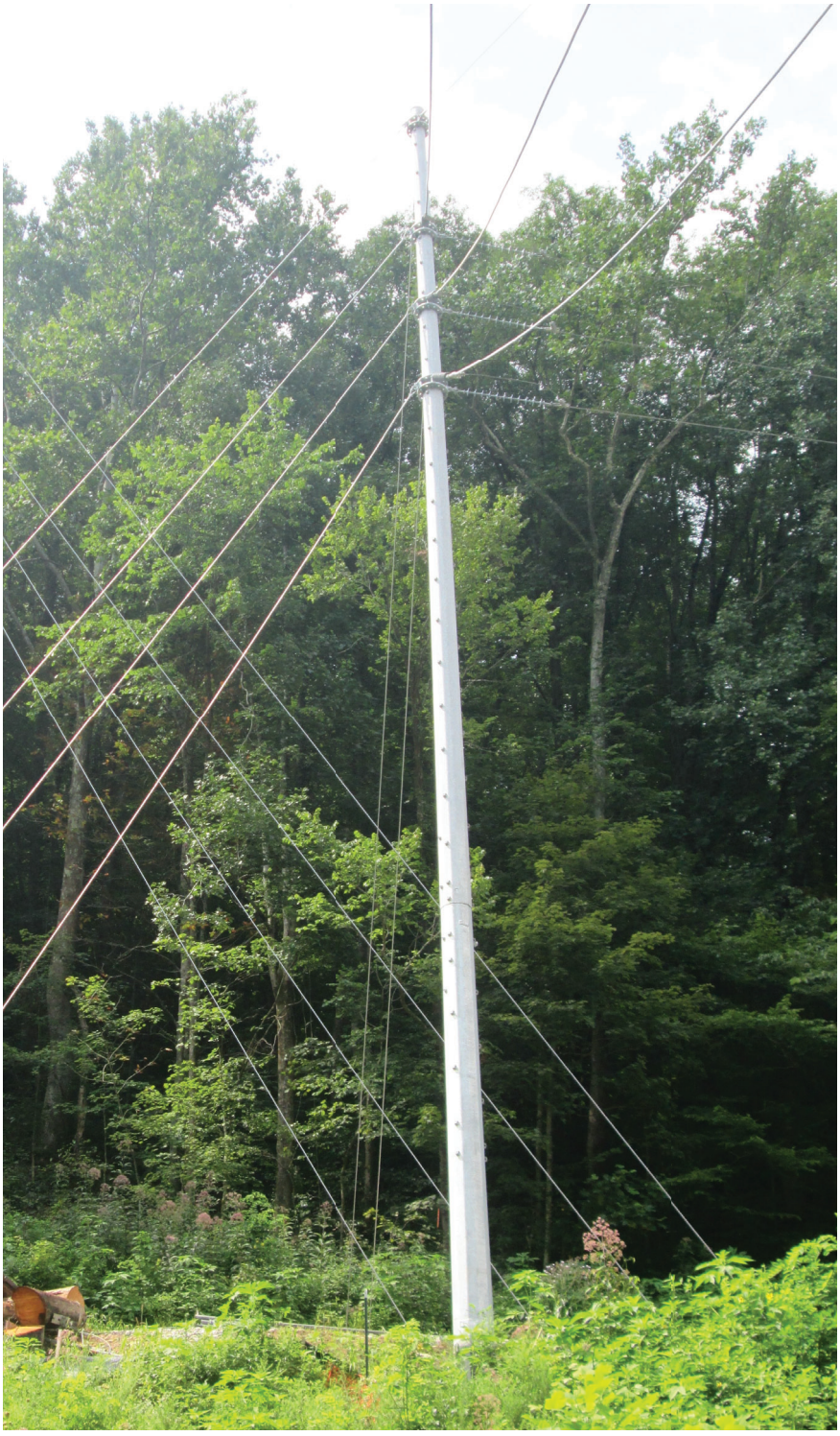
TYPICAL SCHEMATIC

GUYED STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)



TYPICAL RIGHT-OF-WAY CROSS SECTION

GUYED STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)

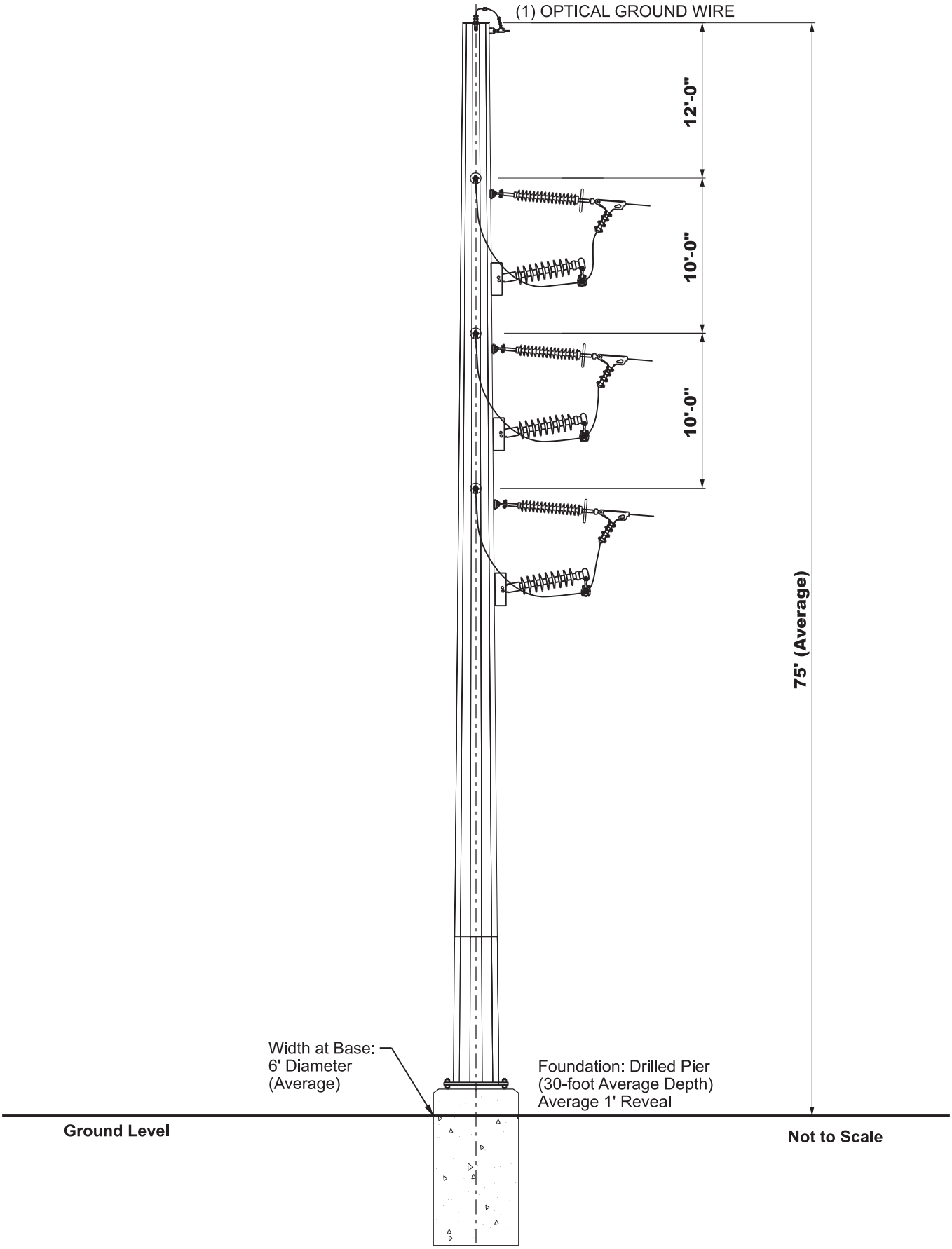


COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

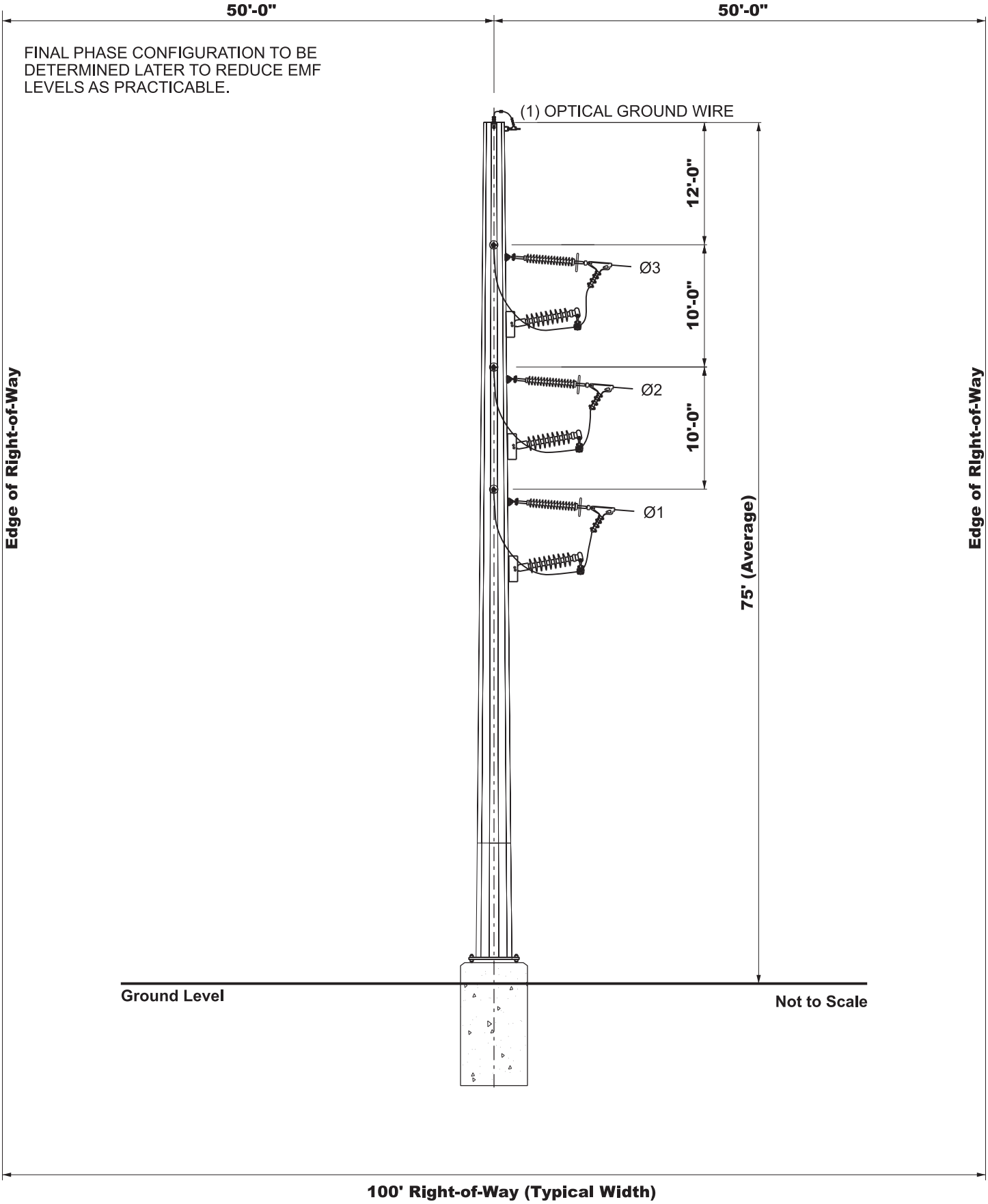
Exhibit 16: Proposed 138-kV Steel Monopole Dead-End (Single Circuit)

STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)



TYPICAL SCHEMATIC

STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)



TYPICAL RIGHT-OF-WAY CROSS SECTION

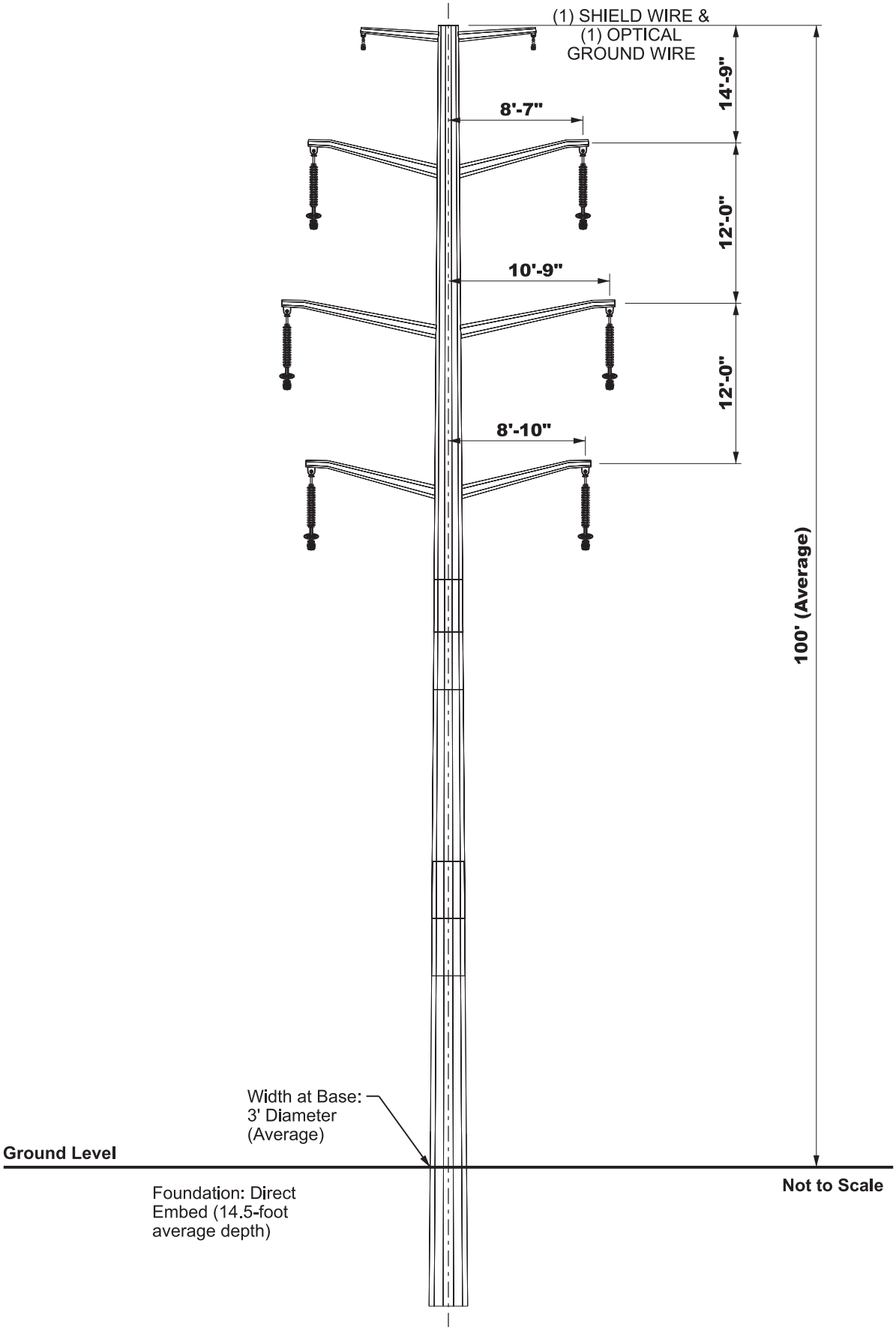
STEEL MONOPOLE DEAD-END (SINGLE CIRCUIT)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

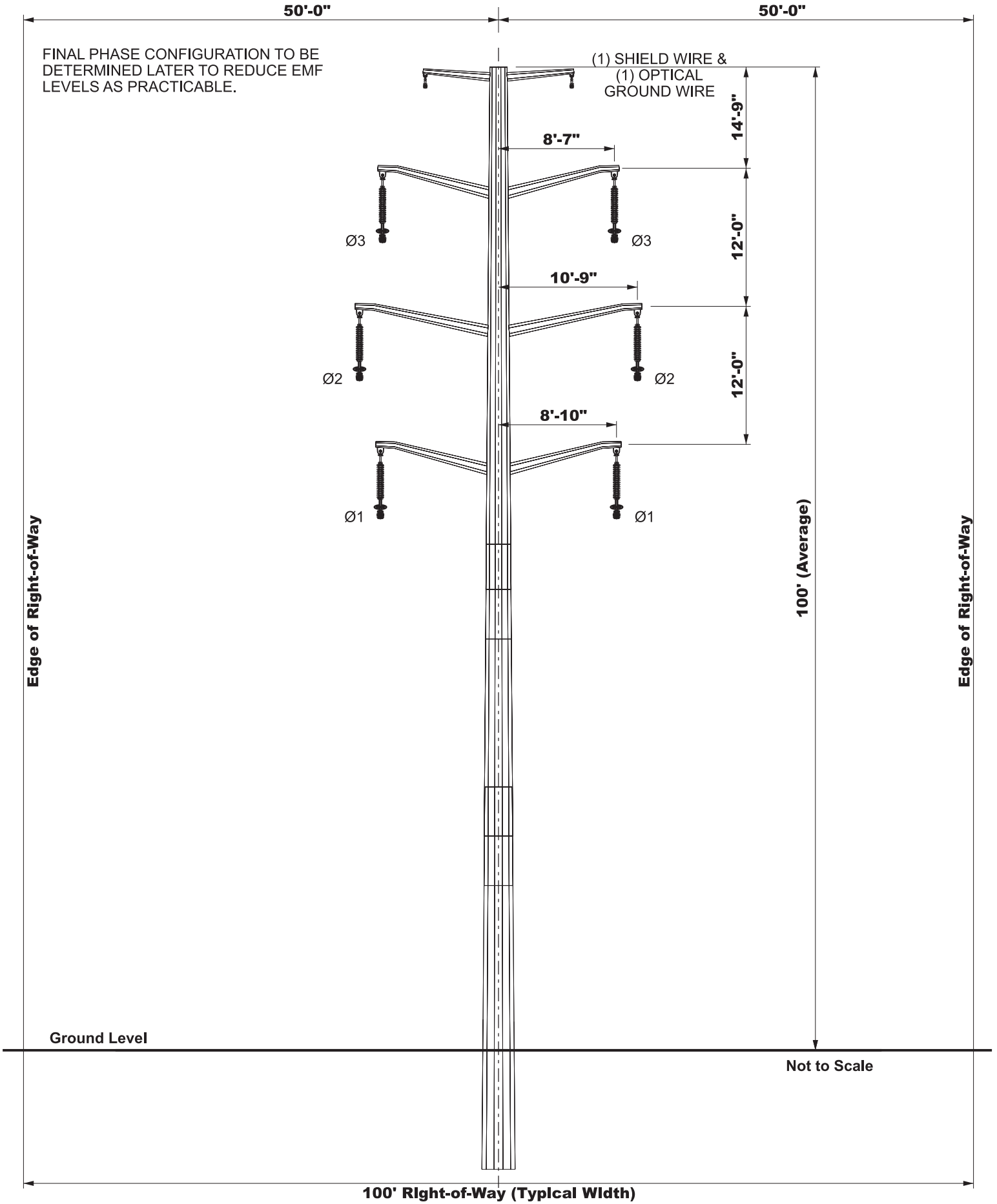
Exhibit 17: Proposed 138-kV Steel Monopole Tangent with Davit Arms (Double Circuit)

STEEL MONOPOLE TANGENT WITH DAVIT ARMS (Double Circuit)



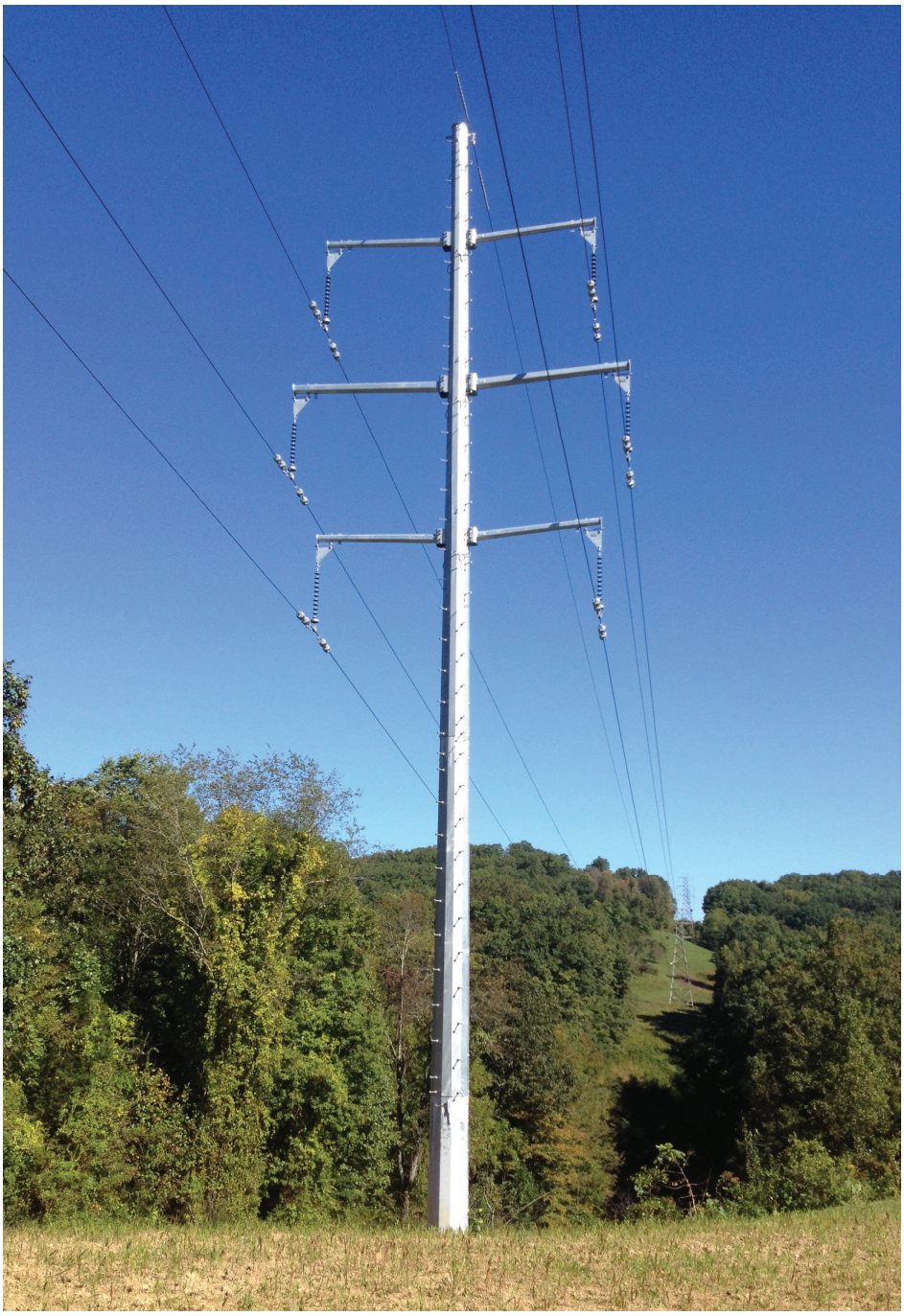
TYPICAL SCHEMATIC

STEEL MONOPOLE TANGENT WITH DAVIT ARMS (Double Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

STEEL MONOPOLE TANGENT WITH DAVIT ARMS (Double Circuit)

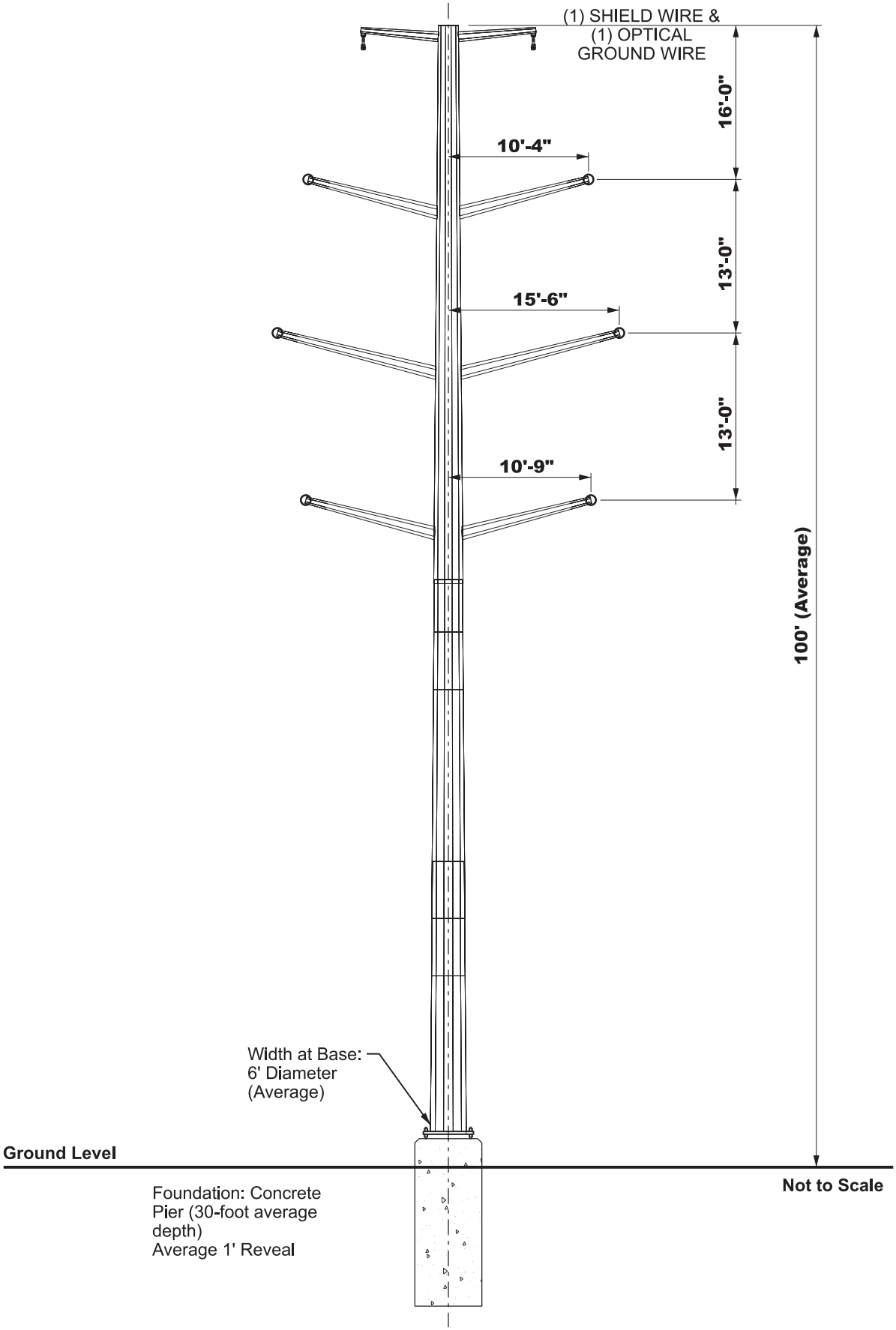


COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

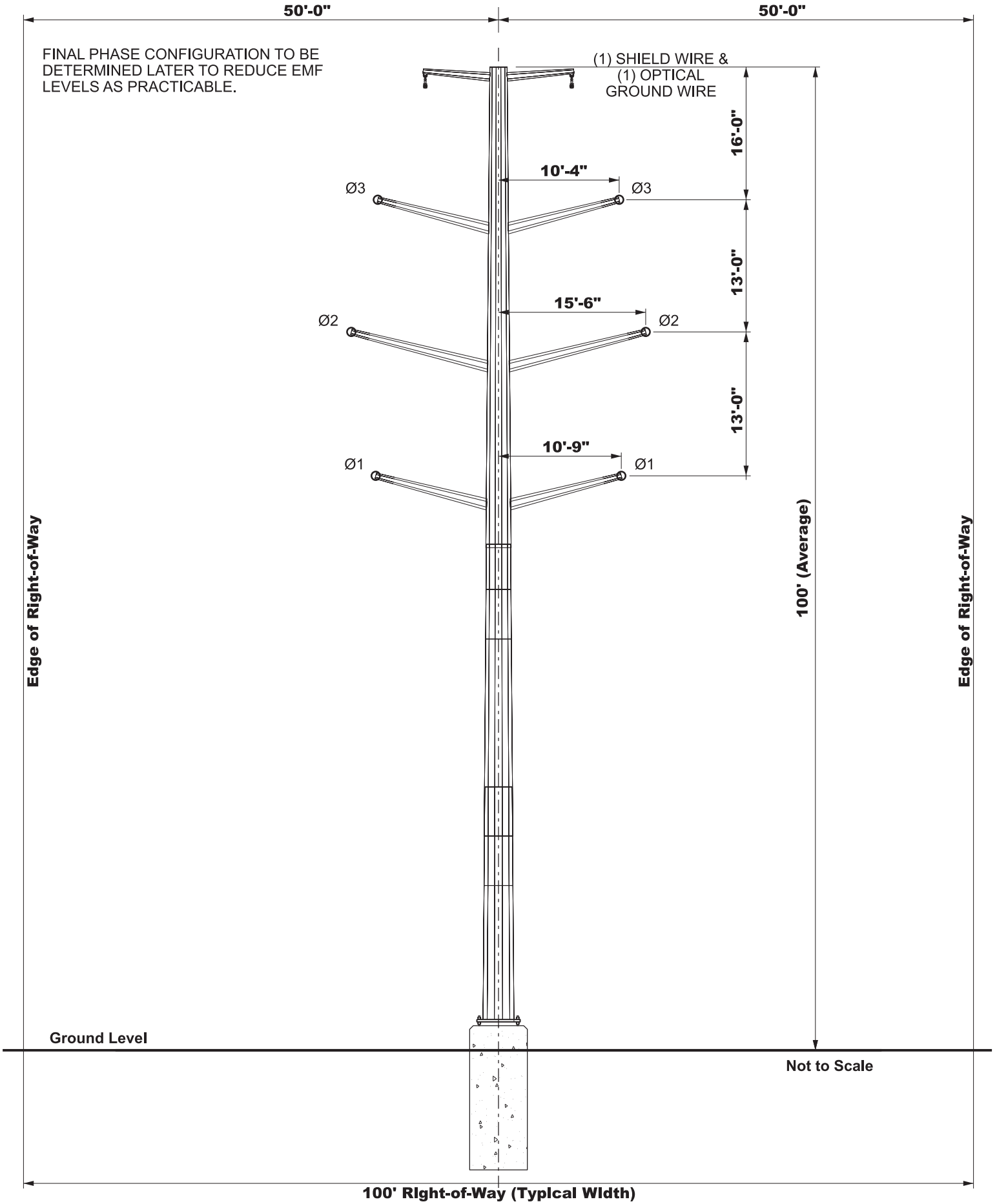
Exhibit 18: Proposed 138-kV Steel Monopole Dead-End with Davit Arms (Double Circuit)

STEEL MONOPOLE DEAD-END WITH DAVIT ARMS (Double Circuit)



TYPICAL SCHEMATIC

STEEL MONOPOLE DEAD-END WITH DAVIT ARMS (Double Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

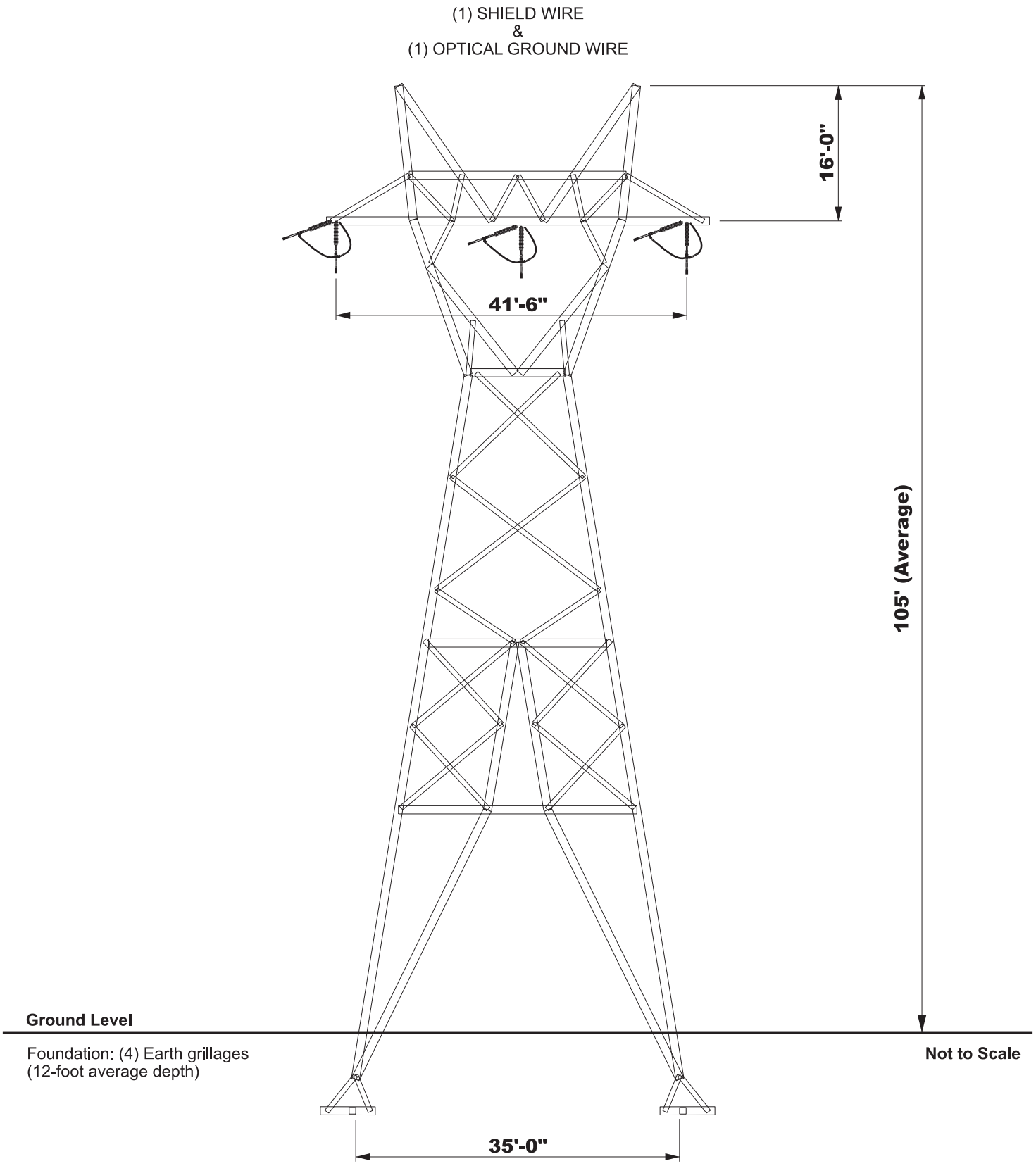
STEEL MONOPOLE DEAD-END WITH DAVIT ARMS (Double Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

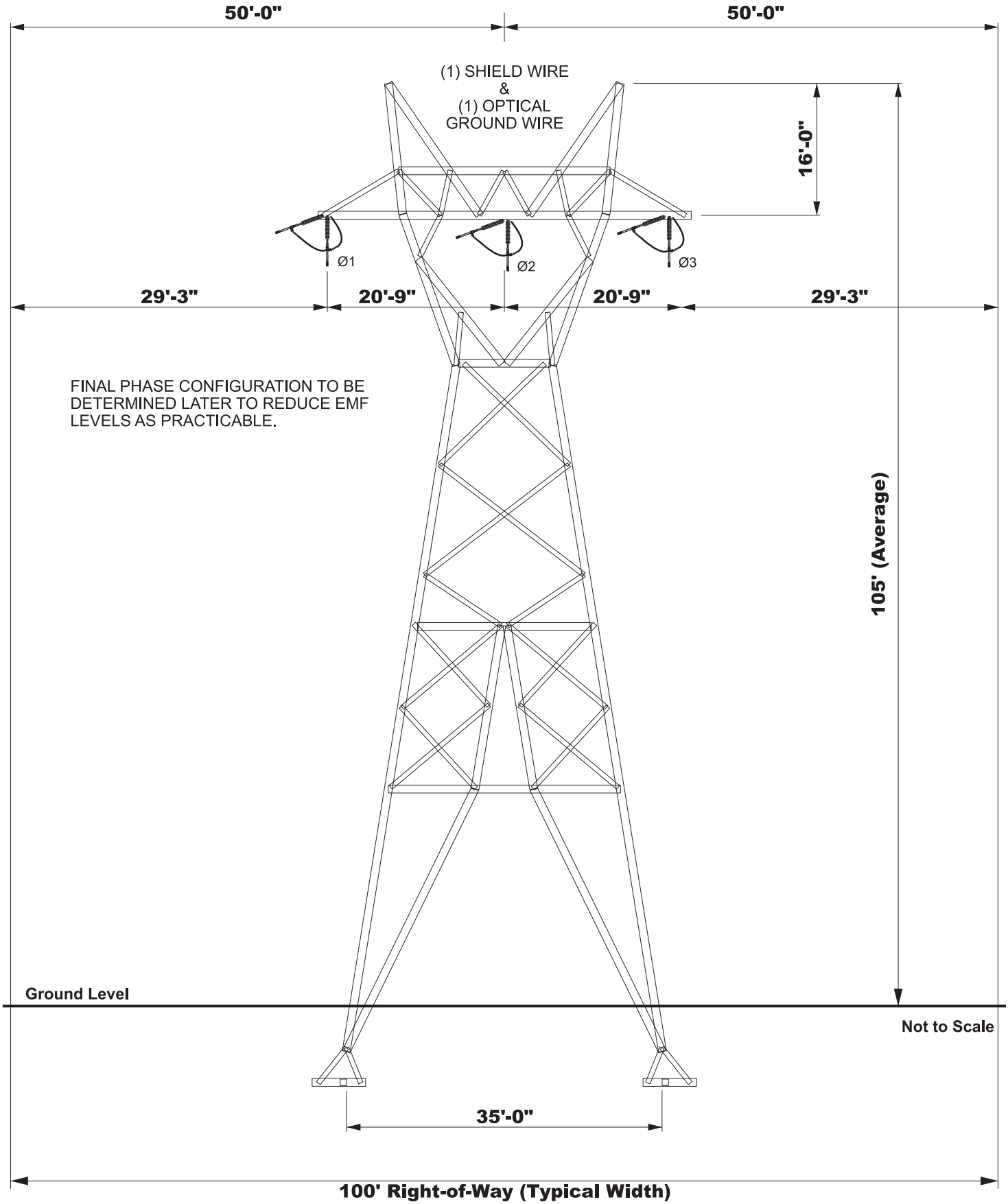
Exhibit 19: Proposed 138-kV Self-Supporting Steel Lattice Tower (Single Circuit)

SELF-SUPPORTING STEEL LATTICE TOWER (Single Circuit)



TYPICAL SCHEMATIC

SELF-SUPPORTING STEEL LATTICE TOWER (Single Circuit)



TYPICAL RIGHT-OF-WAY CROSS SECTION

SELF-SUPPORTING STEEL LATTICE TOWER (Single Circuit)

COMPARABLE EXISTING STRUCTURE PHOTOGRAPH

Note: The proposed material for the typical structure will be galvanized steel with a dulled finish (as shown above)

Exhibit 20: Existing Structure Photographs

Component 1: Mayo River (Stuart) to Willis Gap Transmission Improvements

Existing City of Danville's Pinnacles - Hydro 69-kV Line
H-Frame

Component 2: Mayo River (Stuart) to Floyd Transmission Improvements

Existing Floyd - Stuart 69-kV Line
H-Frame

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Fieldale - Stuart 69-kV Line
Monopole with Cross Arms

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Fieldale - West Bassett No. 1 69-kV Line
Monopole with Post Insulators and Cross Arms

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Fieldale - West Bassett No. 1 69-kV Line
H-Frame

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Fieldale - West Bassett No. 2 69-kV Line
H-Frame

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Claytor - Fieldale 138-kV Line
H-Frame

Component 3: Mayo River (Stuart) to Bassett Area Transmission Improvements

Existing Claytor - Fieldale 138-kV Line (Left)
and Fieldale - West Bassett No. 2 69-kV Line (Right)
H-Frames