

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

1. **Detail the number of circuits and their design voltage, initial operational voltage, any anticipated voltage upgrade, and transfer capabilities.**

Response: The Rebuild Project will affect two circuits, Chesterfield-Lakeside Line #217 and Chesterfield-Chickahominy Line #287.

Line #217 will be rebuilt for a design and operational voltage of 230 kV with a summer transfer capability of 1047 MVA.

A section of Line #287 will be rebuilt as part of the Rebuild Project, as set forth in Section I.F. This section of Line #287 will be rebuilt for a design and operational voltage of 230 kV with a summer transfer capability of 1047 MVA. But the operational transfer capability of Line #287 will not change as part of the Rebuild Project because it will be limited by the transfer capability of the conductor in the sections of the line not included in the Rebuild Project.

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

2. **Detail the number, size(s), type(s), coating and typical configurations of conductors. Provide the rationale for the type(s) of conductor(s) to be used.**

Response: Chesterfield-Lakeside 230 kV Line #217 will have predominantly 3-phase twin-bundled 636 ACSR conductors arranged horizontally, except at Structures #111 to #112 and #188 to #189 where the conductors will be arranged vertically. The twin-bundled 636 ACSR conductors are the Company's standard for new 230kV construction.

Approximately 0.7 miles of Line #217 will be rebuilt with 3-phase 1233.6 ACSS/TW (HS-285) single conductor, arranged horizontally, from the existing backbone structure (Structure #1A) in Chesterfield Substation to the proposed 3-pole structure (Structure #7) located approximately 1,400 feet north of the James River. The 1233.6 ACSS/TW (HS-285) conductor is a Company standard for ampacity uprates on existing structures or in situations for new construction where the twin-bundled 636 ACSR is not feasible due to sag and tension requirements.

Chesterfield-Chickahominy 230 kV Line #287 will have approximately 0.7 miles rebuilt with 3-phase 1233.6 ACSS/TW (HS-285) single conductor, arranged horizontally, from the existing backbone structure (Structure #1C) in Chesterfield Substation to the proposed 3-pole structure (Structure #6) located approximately 1,400 feet north of the James River. The 3-phase 1233.6 ACSS/TW (HS-285) conductor is a Company standard for ampacity uprates on existing structures or in situations for new construction where the twin-bundled 636 ACSR is not feasible due to sag and tension requirements

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3. With regard to the proposed supporting structures over each portion of the ROW for the preferred route, provide diagrams (including foundation reveal) and descriptions of all the structure types, to include:
 - a. mapping that identifies each portion of the preferred route;
 - b. the rationale for the selection of the structure type;
 - c. the number of each type of structure and the length of each portion of the ROW;
 - d. the structure material and rationale for the selection of such material;
 - e. the foundation material;
 - f. the average width at cross arms;
 - g. the average width at the base;
 - h. the maximum, minimum and average structure heights;
 - i. the average span length; and
 - j. the minimum conductor-to-ground clearances under maximum operating conditions.

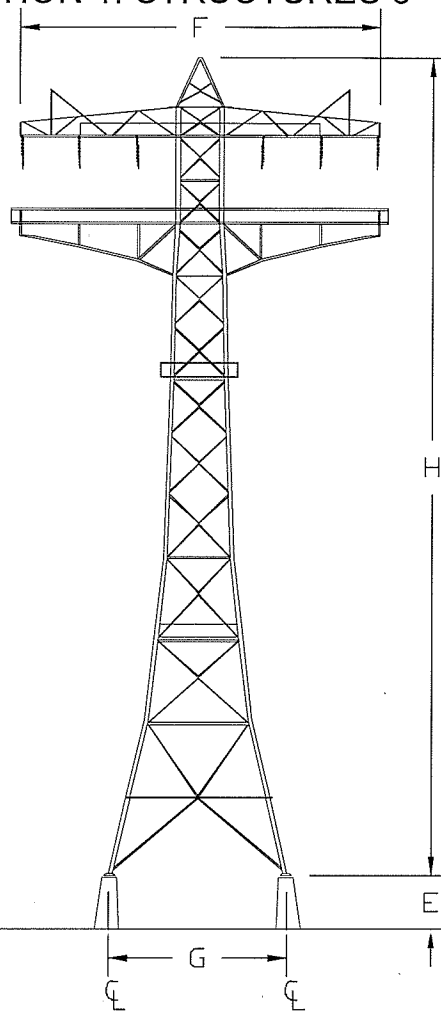
Response: Attachment II.A.2 provides mapping that identifies each portion of the proposed route.

Attachments II.B.3.a through tt provide the data requested for each proposed structure type over each portion of the right-of-way for the Rebuild Project.

SECTION 1: STRUCTURES 6 - 7*

ATTACHMENT II.B.3.a

230KV CIRCUIT
LINE #287



230KV CIRCUIT
LINE #217

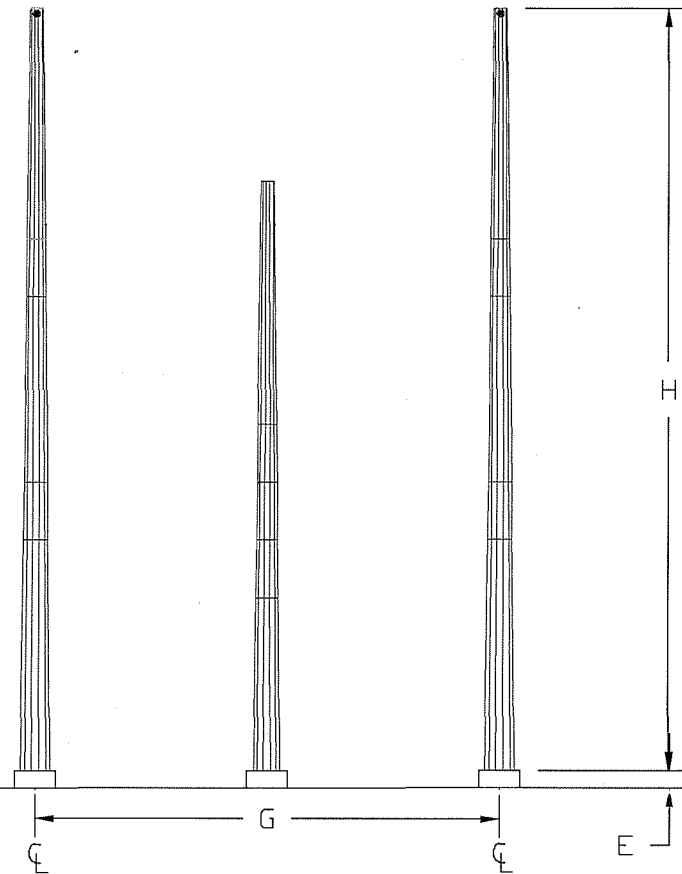
**PROPOSE TO REUSE EXISTING DOUBLE CIRCUIT RIVER CROSSING
SUSPENSION STRUCTURE**

B. RATIONALE FOR STRUCTURE TYPE:	N/A - EXISTING
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.40 MILES (1)
D. STRUCTURE MATERIAL:	PAINTED GALVANIZED STEEL
RATIONALE FOR STRUCTURE MATERIAL:	N/A - EXISTING
E. FOUNDATION MATERIAL:	CONCRETE / STEEL
AVERAGE FOUNDATION REVEAL:	19' (NOTE 1)
F. AVERAGE WIDTH AT CROSSARM:	96'
G. AVERAGE WIDTH AT BASE:	46'
H. MINIMUM STRUCTURE HEIGHT:	212'
MAXIMUM STRUCTURE HEIGHT:	212'
AVERAGE STRUCTURE HEIGHT:	212'
I. AVERAGE SPAN LENGTH:	1053' (1015' - 1090')
J. MINIMUM CONDUCTOR -TO- MHW:	166' (BY PERMIT AT MAX OPERATING TEMPERATURE)

NOTE: 1. EXISTING FOUNDATION REVEAL MAY VARY AT EACH LEG LOCATION DUE TO TERRAIN.

* THE SAME STRUCTURE TYPES ARE UTILIZED FOR STRUCTURES 5 & 6 ON LINE 287

SECTION 1: STRUCTURES 6 - 7*



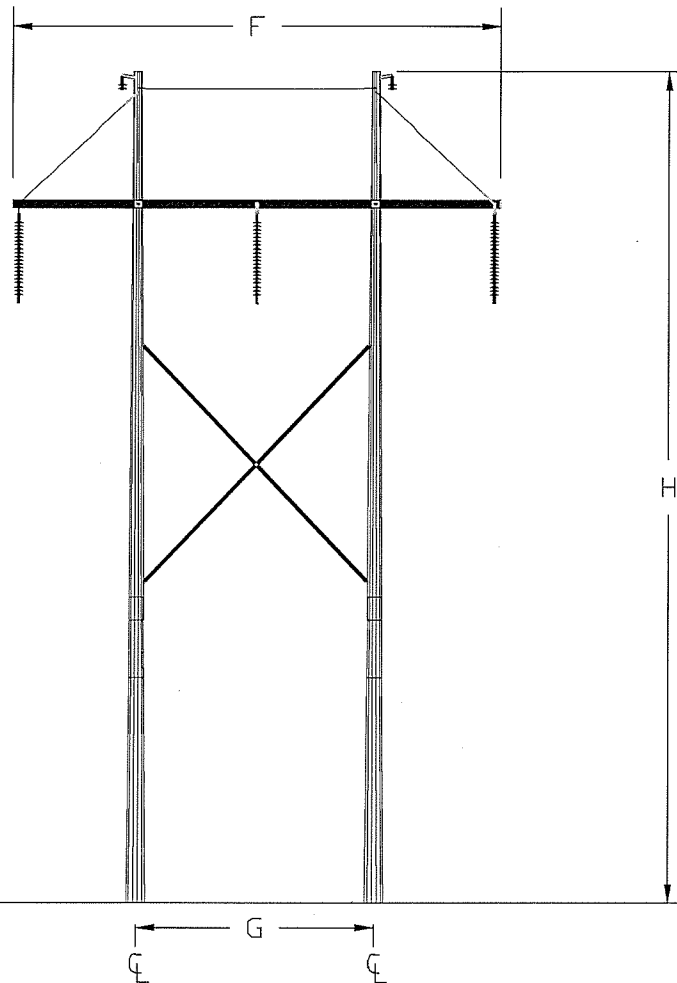
PROPOSED SINGLE CIRCUIT HEAVY ANGLE 3-POLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.40 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	95'
MAXIMUM STRUCTURE HEIGHT:	95'
AVERAGE STRUCTURE HEIGHT:	95'
I. AVERAGE SPAN LENGTH:	1053' (1015' - 1090')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

* THE SAME STRUCTURE TYPES ARE UTILIZED FOR STRUCTURES 5 & 6 ON LINE 287

SECTION 2: STRUCTURES 8 - 14

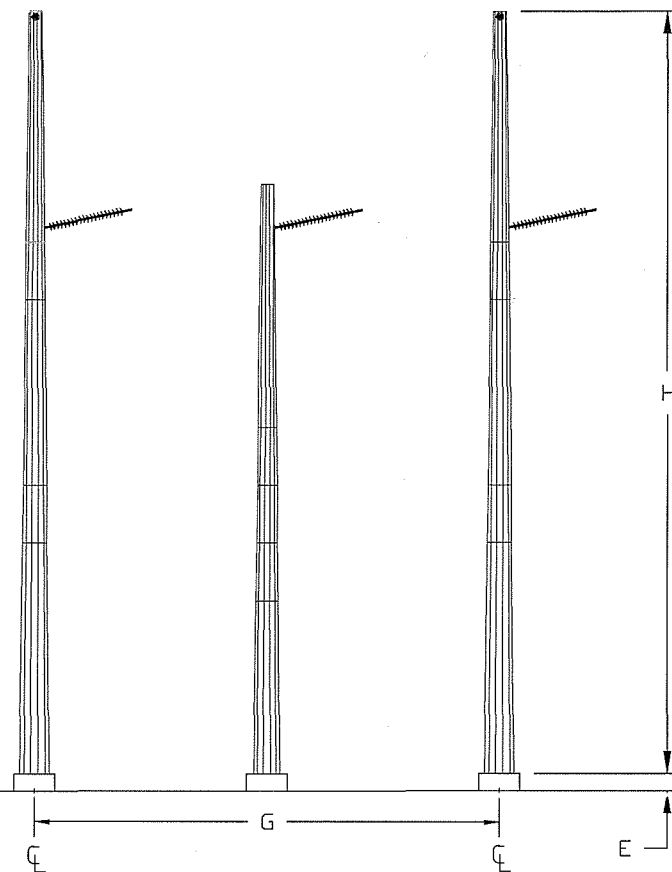


PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.86 MILES (5)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	84'
AVERAGE STRUCTURE HEIGHT:	78'
I. AVERAGE SPAN LENGTH:	646' (501' - 853')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

SECTION 2: STRUCTURES 8 - 14

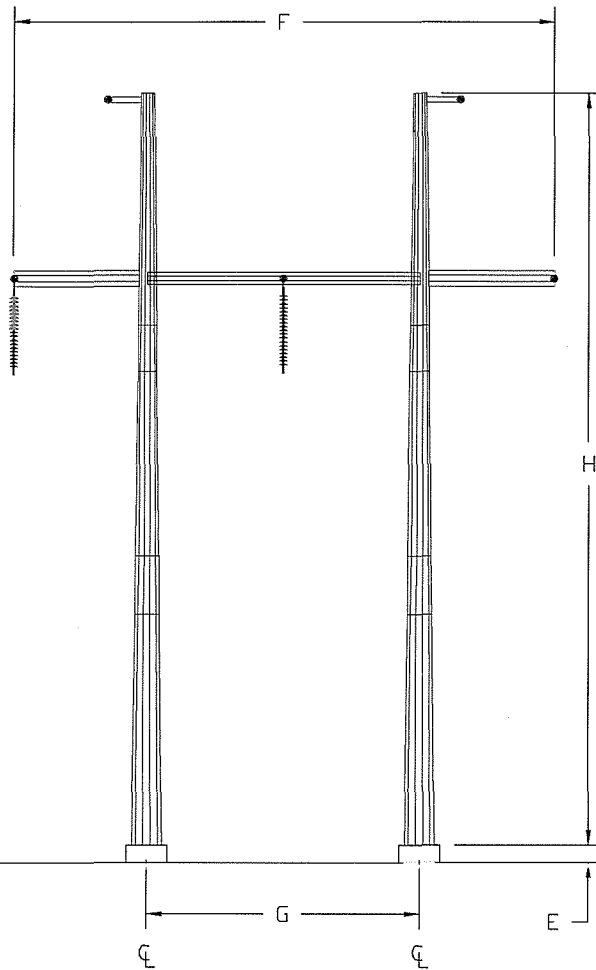


**PROPOSED SINGLE CIRCUIT ANGLE (20 - 60 DEG) 3-
POLE DOUBLE DEAD END STRUCTURE**

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.86 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	646' (501' - 853')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

SECTION 2: STRUCTURES 8 - 14

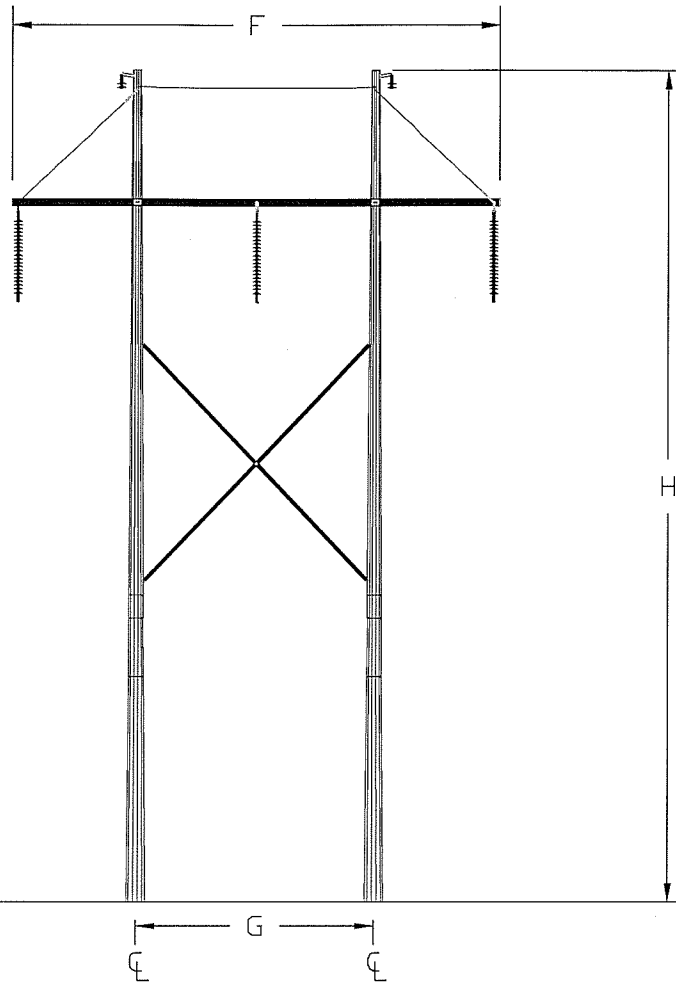


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	0.86 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	90'
MAXIMUM STRUCTURE HEIGHT:	90'
AVERAGE STRUCTURE HEIGHT:	90'
I. AVERAGE SPAN LENGTH:	646' (501' - 853')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
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 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

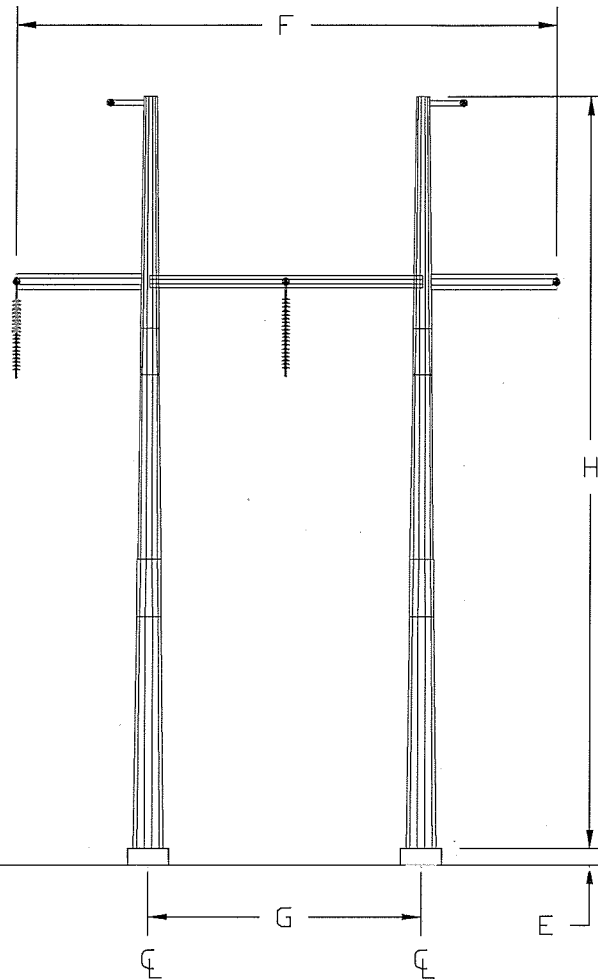
SECTION 3: STRUCTURES 15 - 18



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.36 MILES (2)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	66'
AVERAGE STRUCTURE HEIGHT:	63'
I. AVERAGE SPAN LENGTH:	476' (406' - 500')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

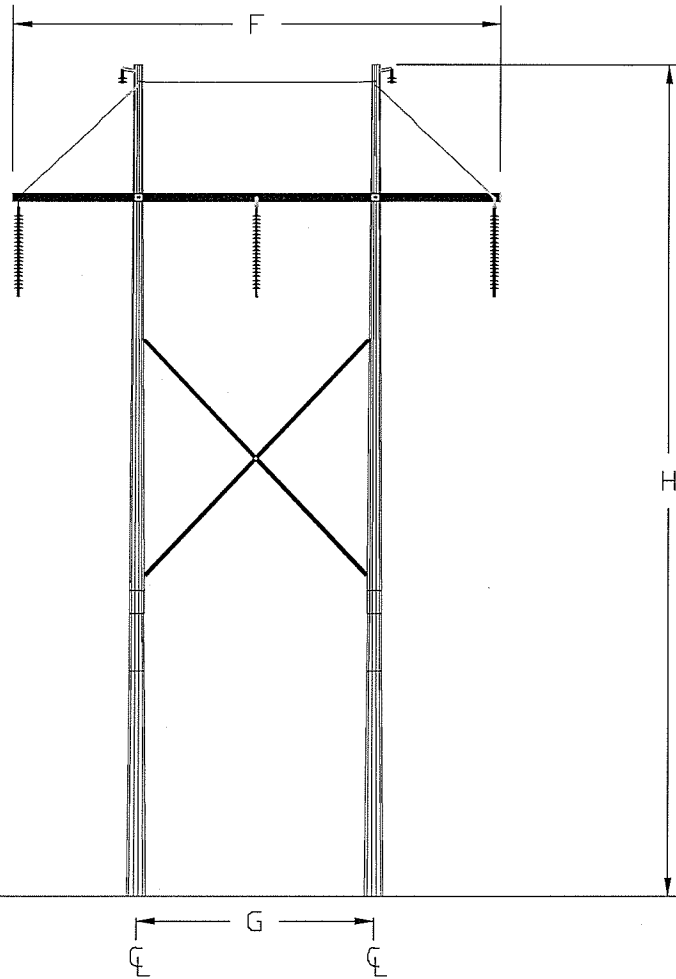


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.36 MILES (2)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	476' (406' - 500')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

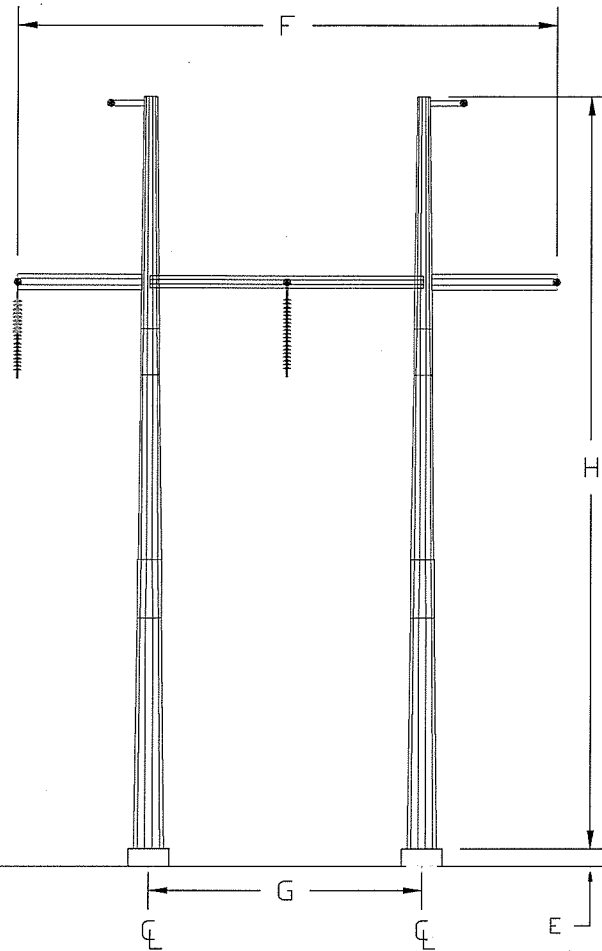
SECTION 4: STRUCTURES 19 - 21



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	0.27 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	70'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	70'
I. AVERAGE SPAN LENGTH:	479' (438' - 505')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

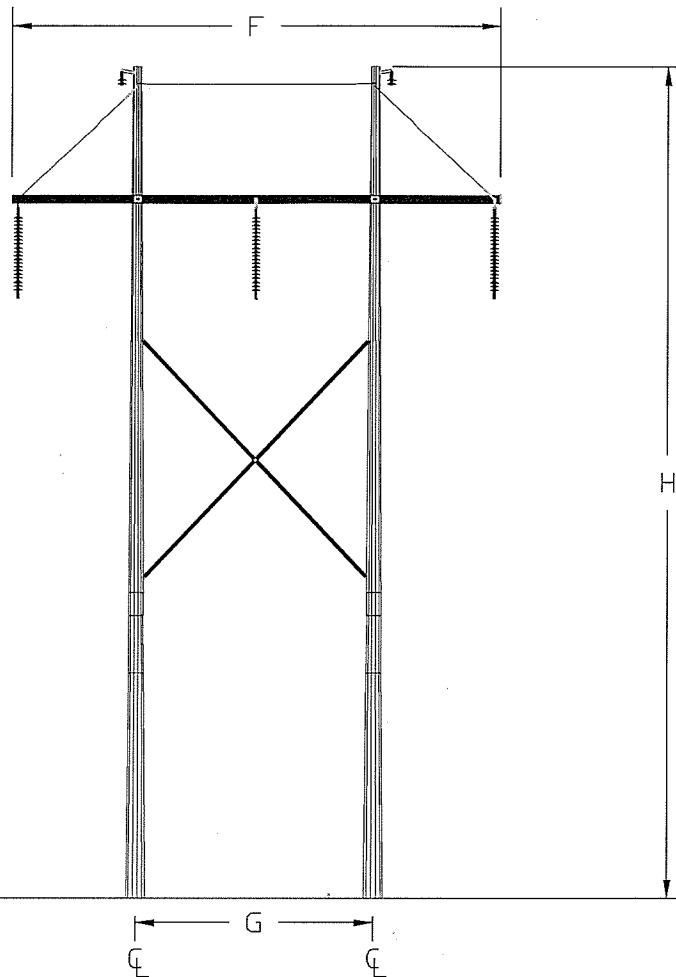
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 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.27 MILES (2)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	60'
AVERAGE STRUCTURE HEIGHT:	60'
I. AVERAGE SPAN LENGTH:	479' (438' - 505')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

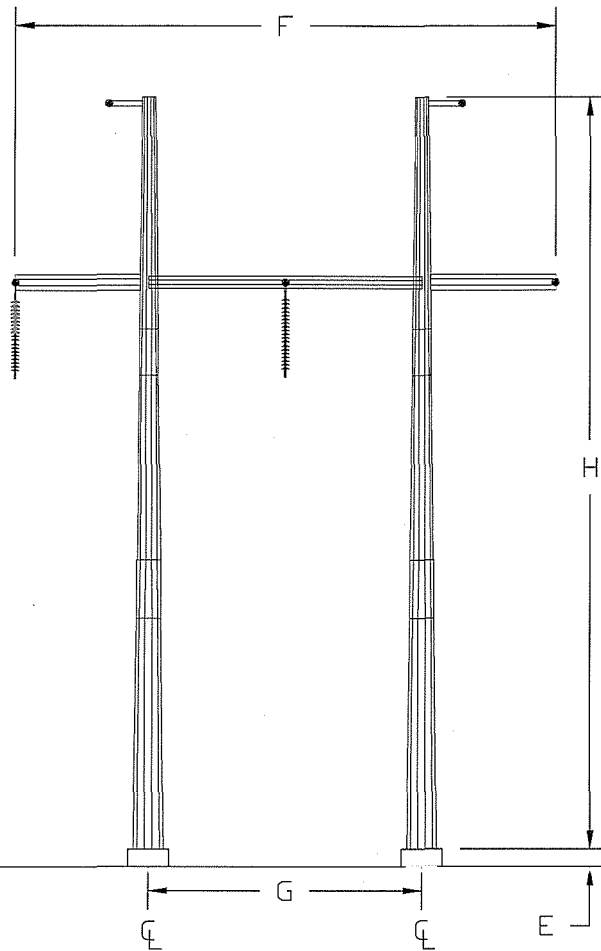
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	0.85 MILES (5)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	67'
I. AVERAGE SPAN LENGTH:	563' (463' - 674')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
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 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

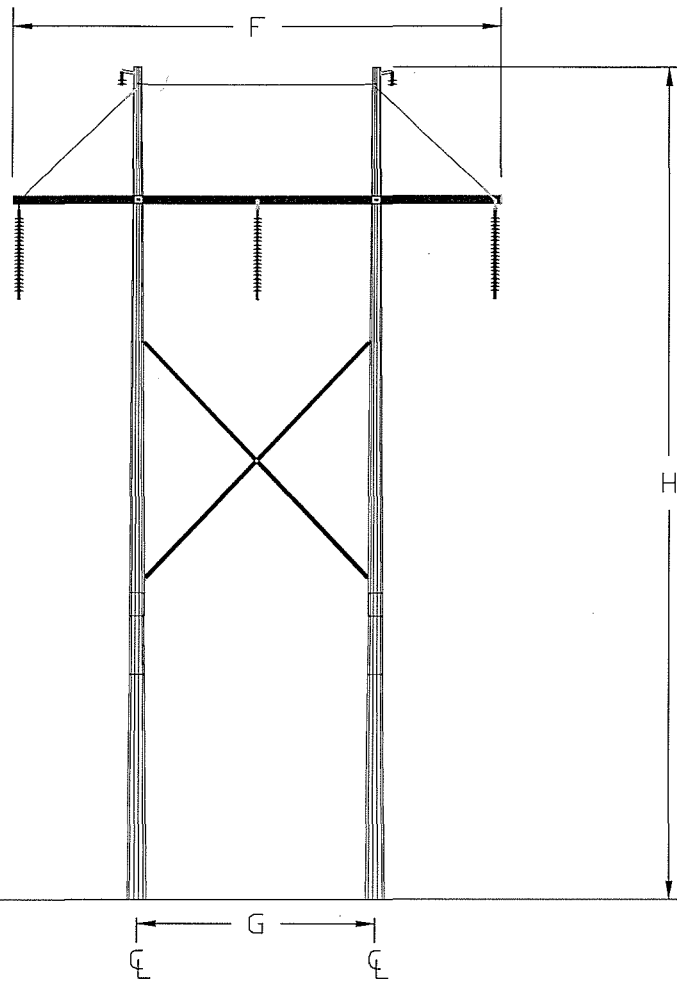


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.85 MILES (3)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	63'
I. AVERAGE SPAN LENGTH:	563' (463' - 674')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

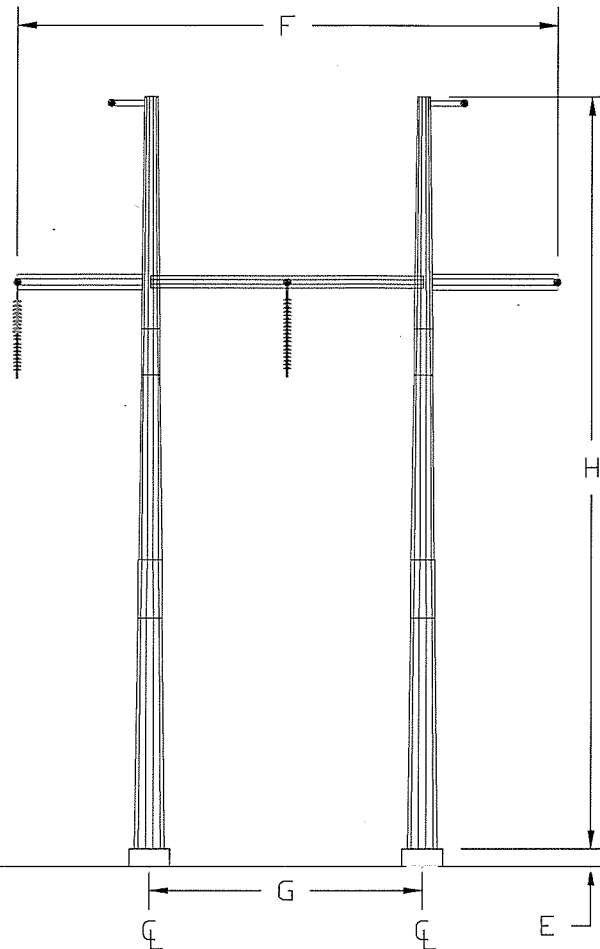
SECTION 6: STRUCTURES 30 - 34



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.58 MILES (4)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	67'
I. AVERAGE SPAN LENGTH:	611' (513' - 815')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

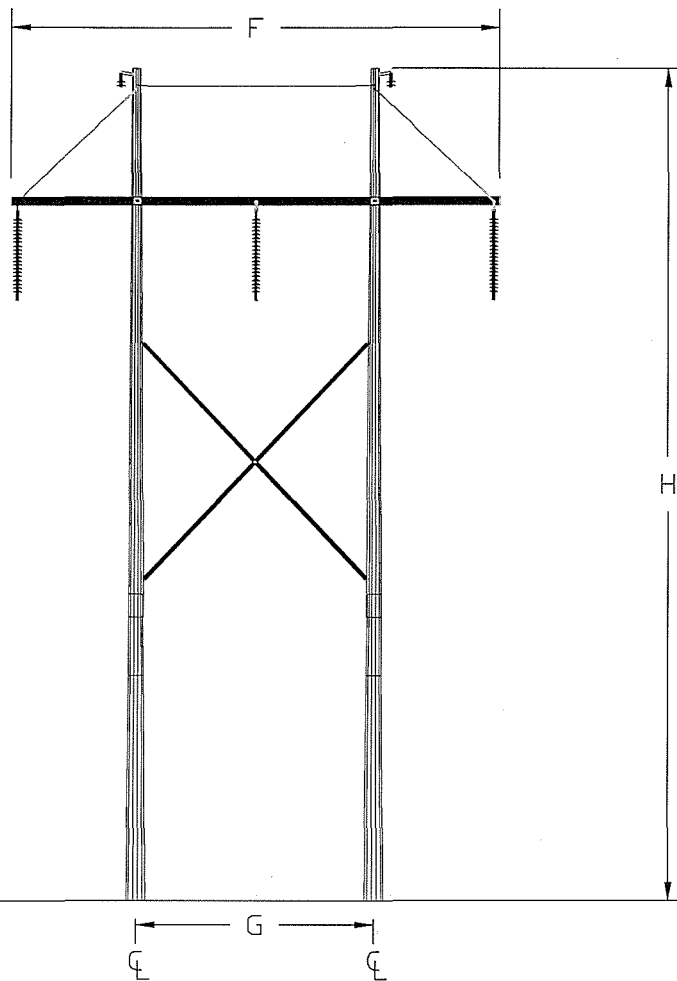


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.58 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	60'
AVERAGE STRUCTURE HEIGHT:	60'
I. AVERAGE SPAN LENGTH:	611' (513' - 815')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

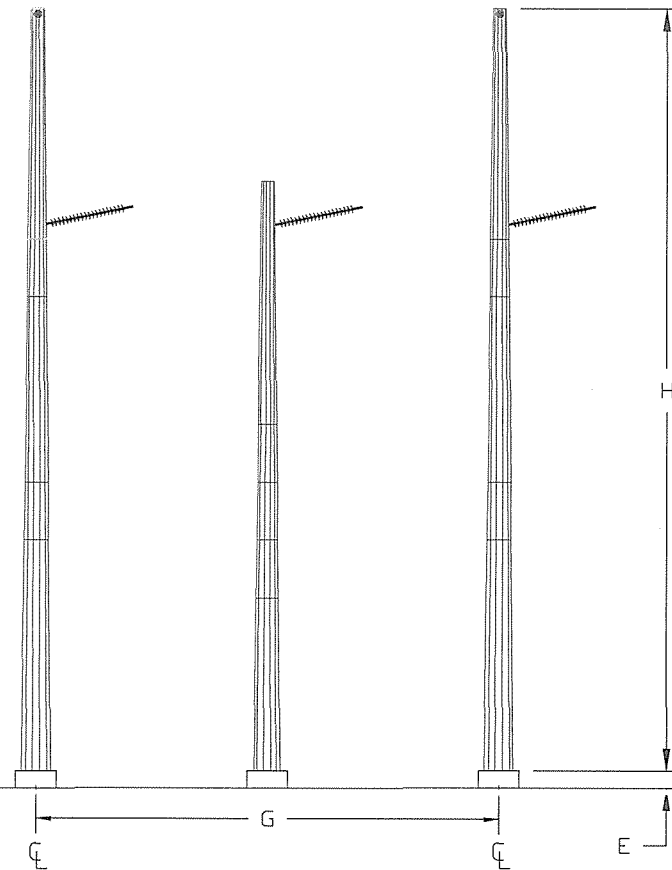
SECTION 8: STRUCTURES 42 - 56



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	1.57 MILES (10)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	66'
MAXIMUM STRUCTURE HEIGHT:	79'
AVERAGE STRUCTURE HEIGHT:	72'
I. AVERAGE SPAN LENGTH:	552' (240' - 797')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

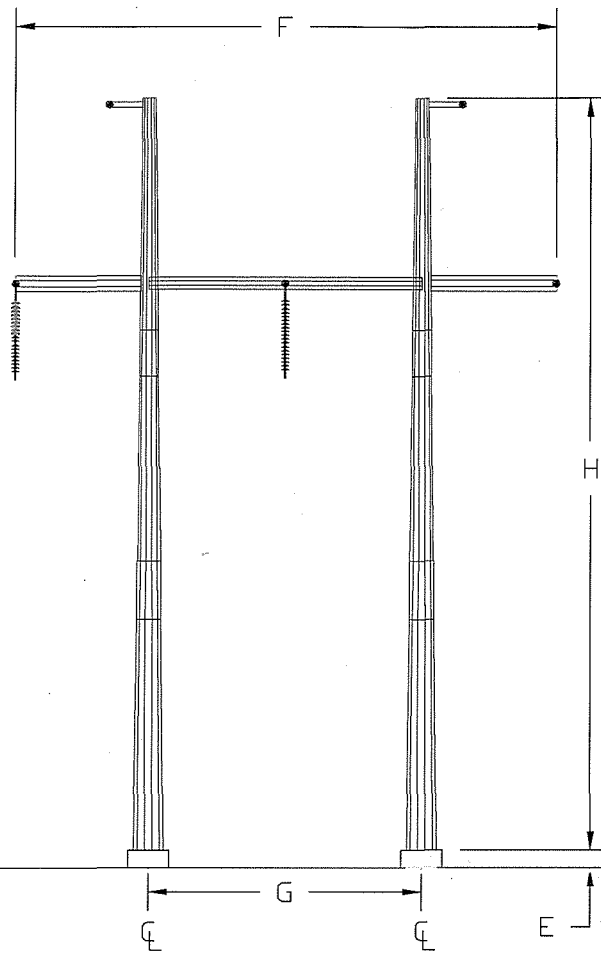
- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT ANGLE (20 - 60 DEG)
3-POLE DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.57 MILES (2)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	552' (240' - 797')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

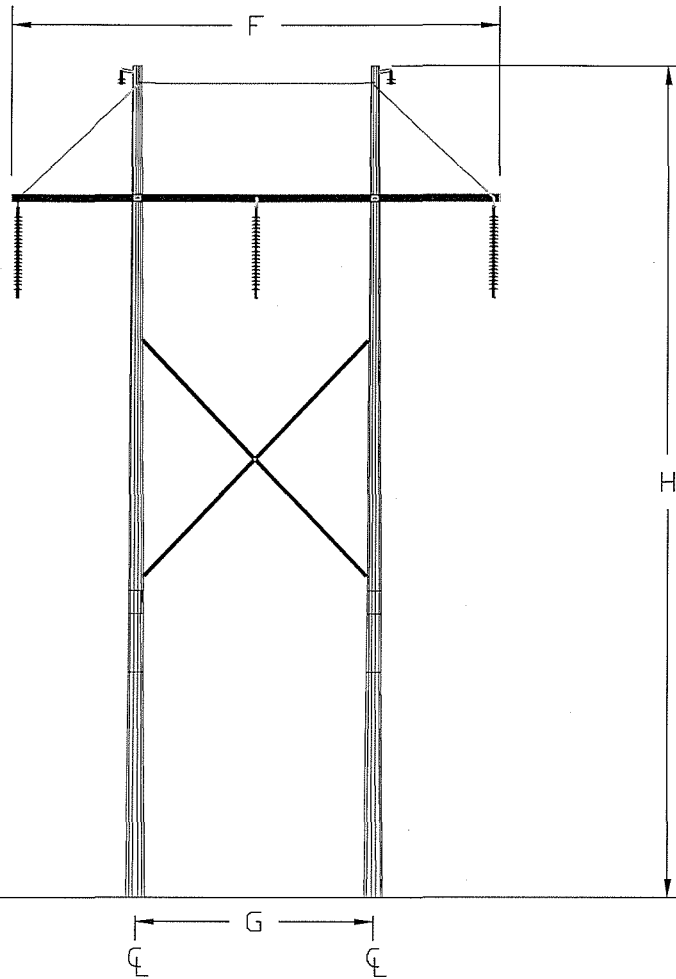


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.57 MILES (3)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	552' (240' - 797')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

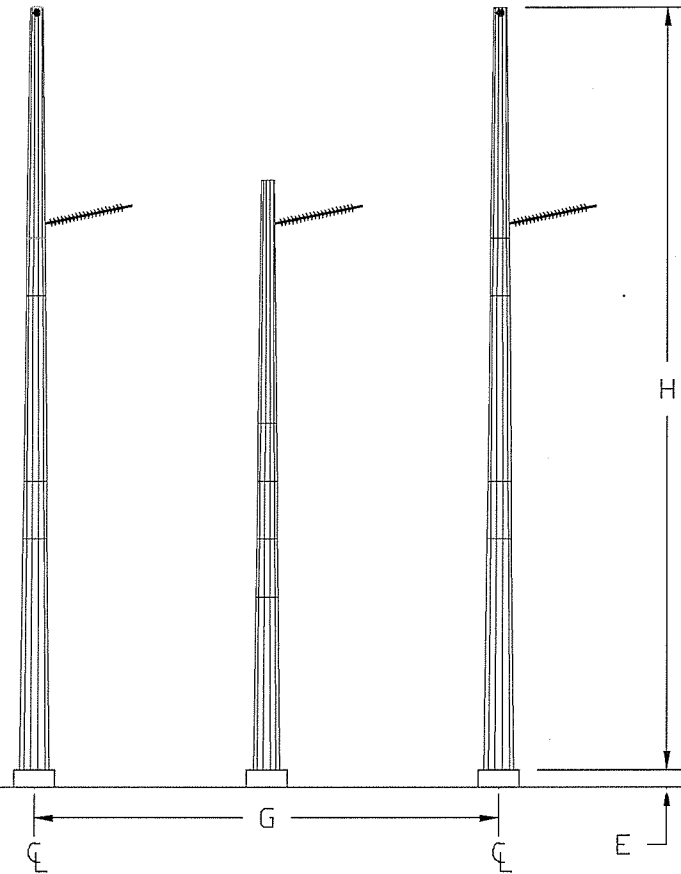
SECTION 9: STRUCTURES 57 - 77



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.47 MILES (18)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	66'
MAXIMUM STRUCTURE HEIGHT:	88'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	621' (377' - 1023')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

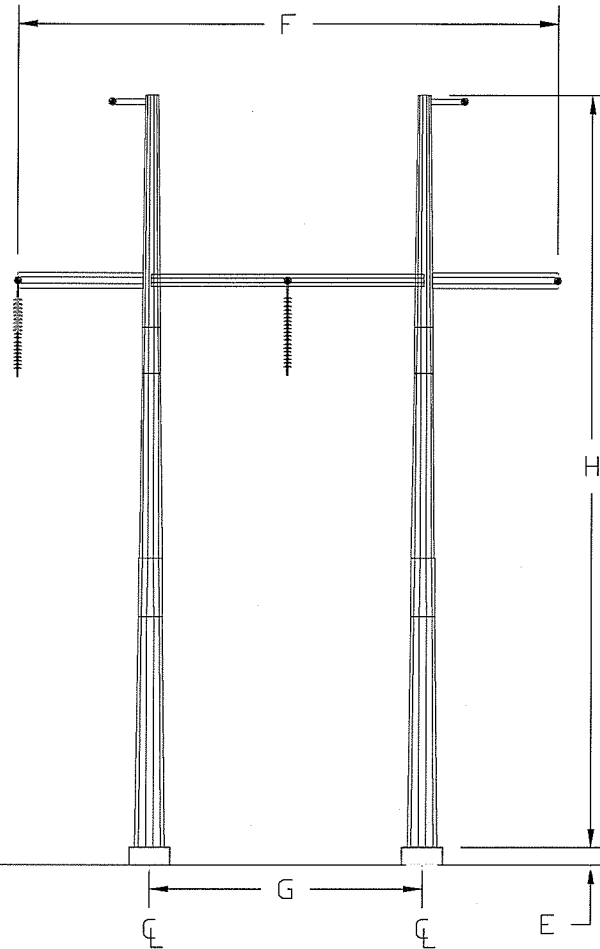
- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES.



**PROPOSED SINGLE CIRCUIT ANGLE (20 - 60 DEG)
3-POLE DOUBLE DEAD END STRUCTURE**

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.47 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	621' (377' - 1023')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

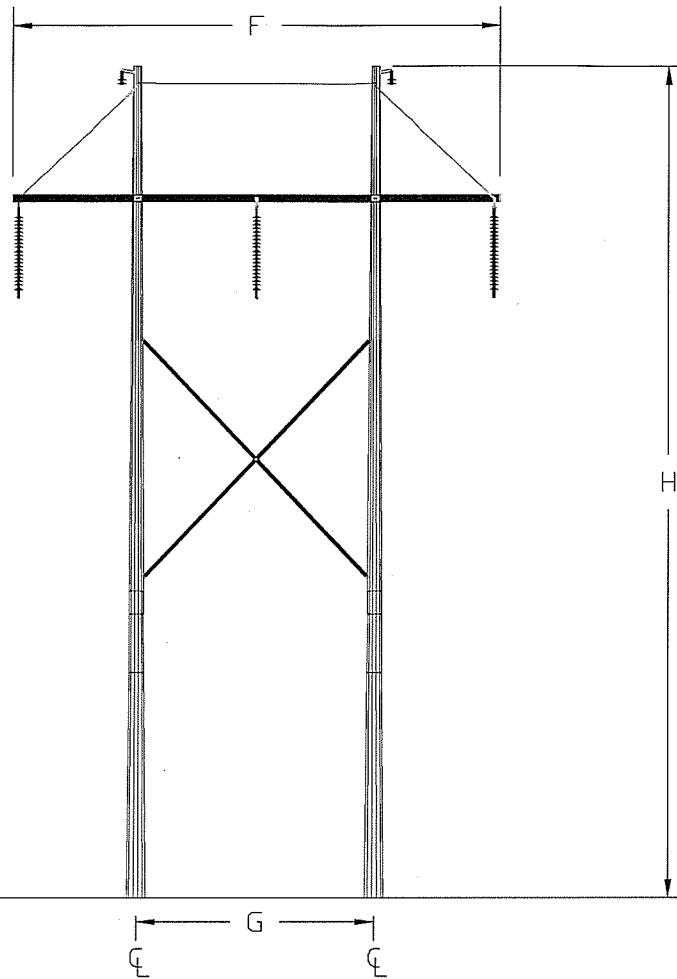


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.47 MILES (2)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	60'
AVERAGE STRUCTURE HEIGHT:	60'
I. AVERAGE SPAN LENGTH:	621' (377' - 1023')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

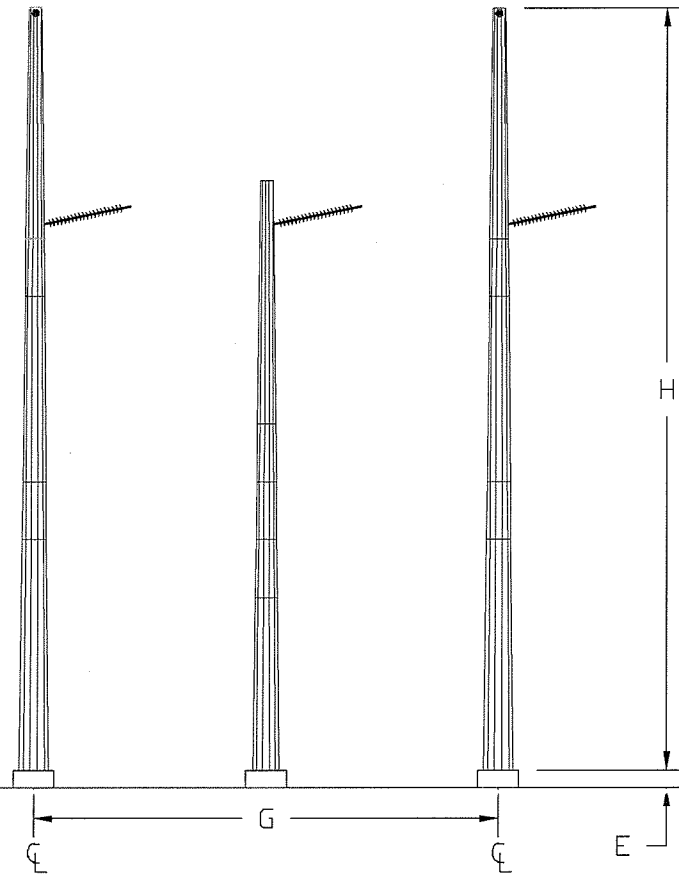
SECTION 10: STRUCTURES 78 - 89



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

- | | |
|--|---|
| B. RATIONALE FOR STRUCTURE TYPE: | RESEMBLES GEOMETRY OF EXISTING FACILITIES |
| C. LENGTH OF R/W (STRUCTURE QUANTITY): | 1.38 MILES (11) |
| D. STRUCTURE MATERIAL: | WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING |
| RATIONALE FOR STRUCTURE MATERIAL: | THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL. |
| E. FOUNDATION MATERIAL: | N/A - DIRECT EMBED (SEE NOTE 4) |
| AVERAGE FOUNDATION REVEAL: | N/A - DIRECT EMBED |
| F. AVERAGE WIDTH AT CROSSARM: | 42' |
| G. AVERAGE WIDTH AT BASE: | 21' |
| H. MINIMUM STRUCTURE HEIGHT: | 66' |
| MAXIMUM STRUCTURE HEIGHT: | 84' |
| AVERAGE STRUCTURE HEIGHT: | 73' |
| I. AVERAGE SPAN LENGTH: | 606' (389' - 878') |
| J. MINIMUM CONDUCTOR -TO- GROUND: | 22.5' (AT MAX OPERATING TEMPERATURE) |

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

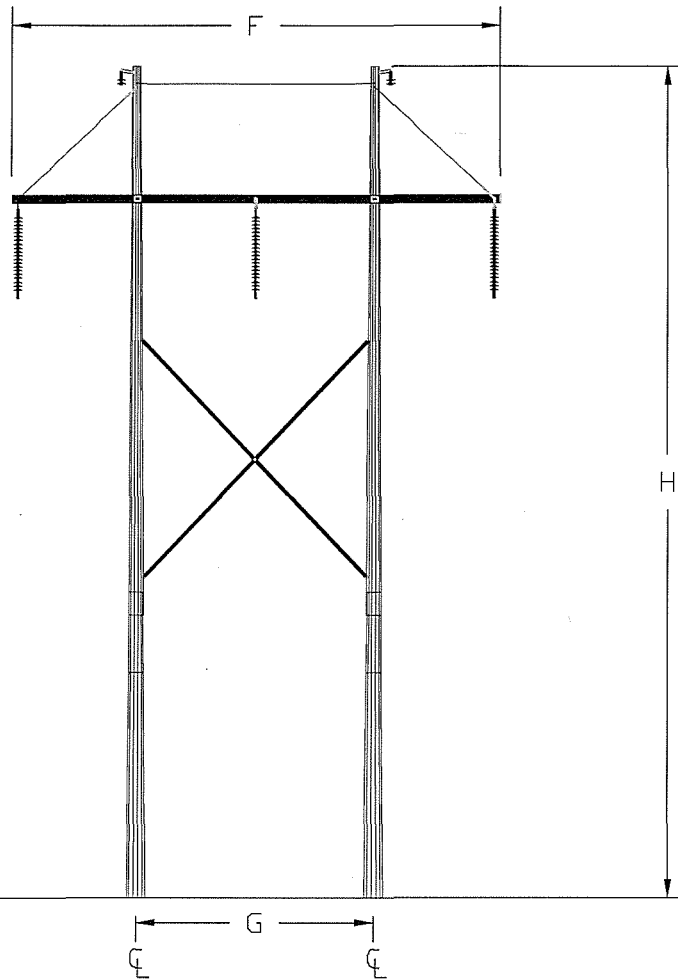


PROPOSED SINGLE CIRCUIT ANGLE (20 - 60 DEG)
3-POLE DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	1.38 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	60'
AVERAGE STRUCTURE HEIGHT:	60'
I. AVERAGE SPAN LENGTH:	606' (389' - 878')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

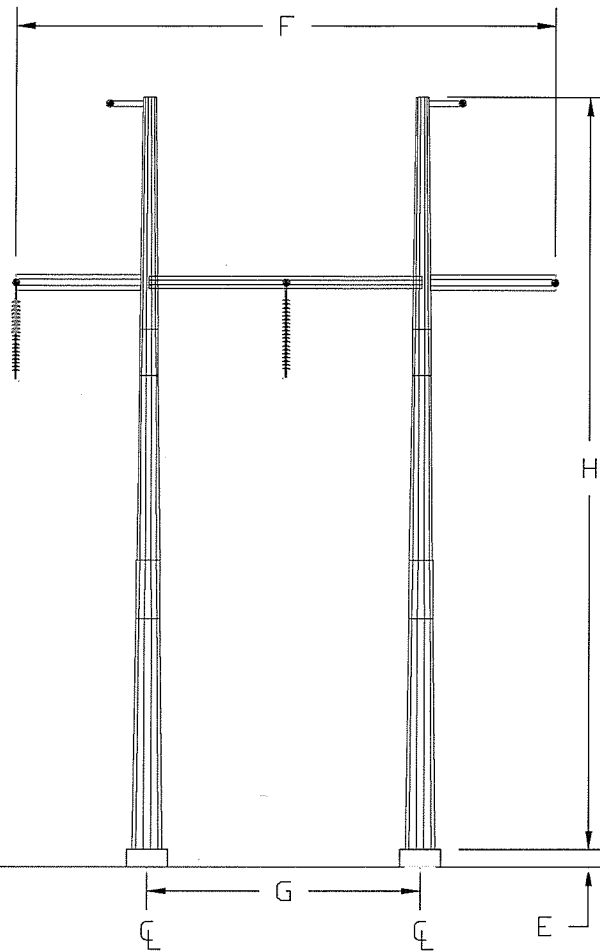
SECTION 11: STRUCTURES 90 - 101



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.16 MILES (11)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	67'
I. AVERAGE SPAN LENGTH:	508' (275' - 768')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES

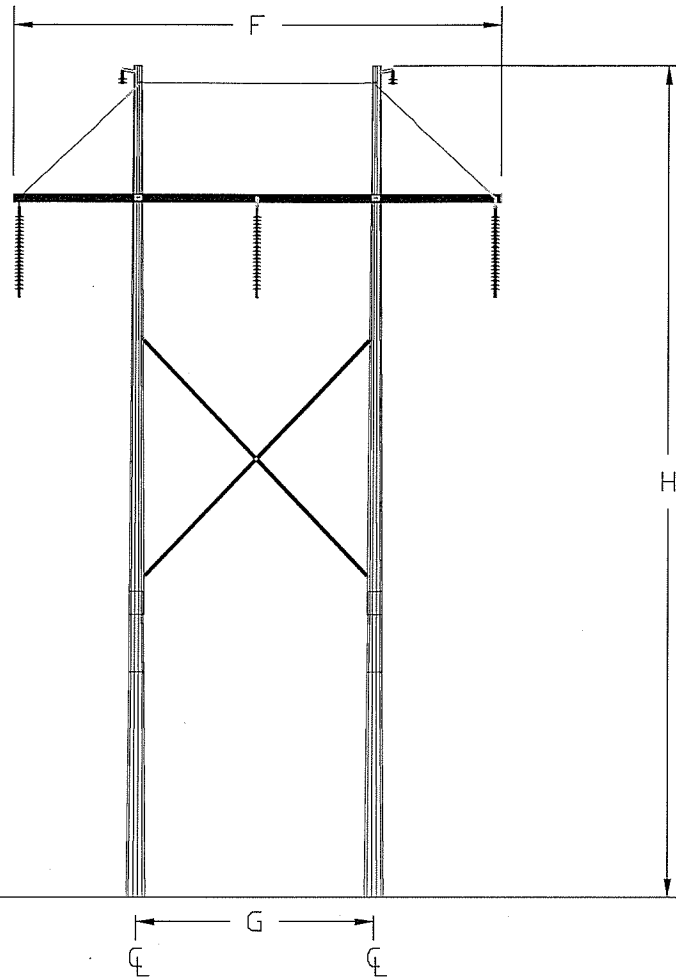


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.16 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	508' (275' - 768')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

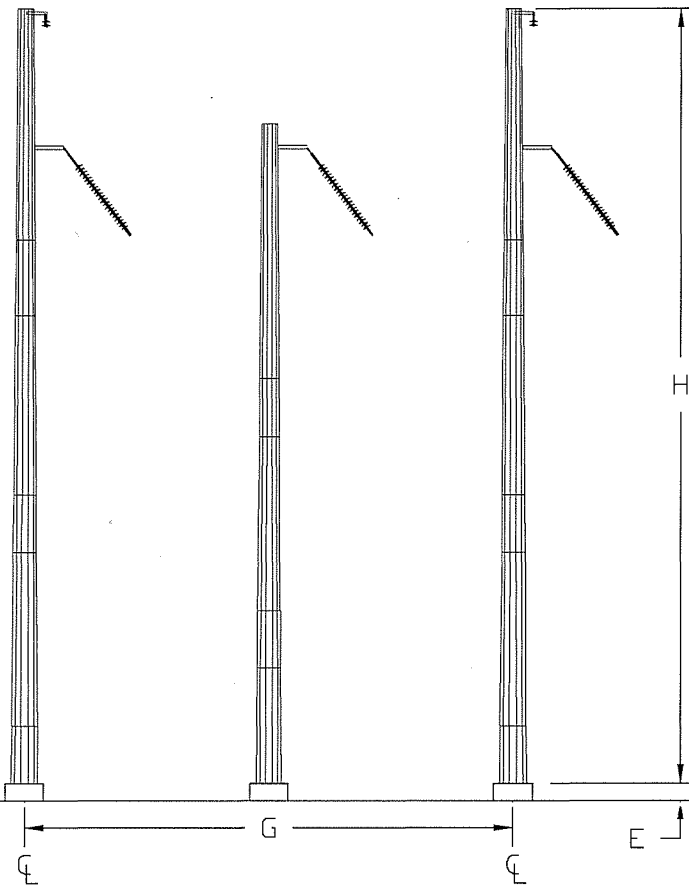
SECTION 12: STRUCTURES 102 - 123



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.30 MILES (15)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	88'
AVERAGE STRUCTURE HEIGHT:	74'
I. AVERAGE SPAN LENGTH:	552' (257' - 876')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

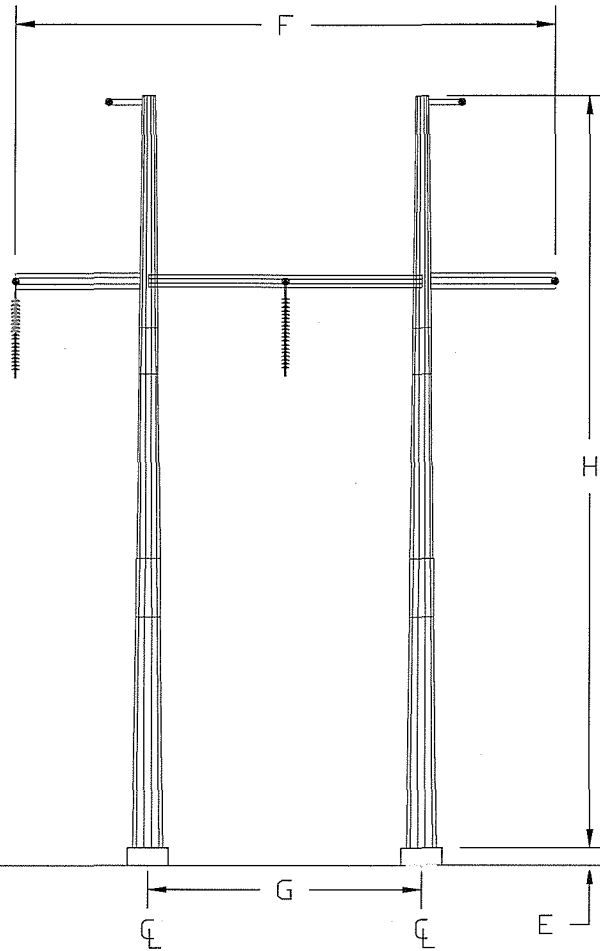
- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT 3-POLE RUNNING ANGLE STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.30 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	42'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	552' (257' - 876')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

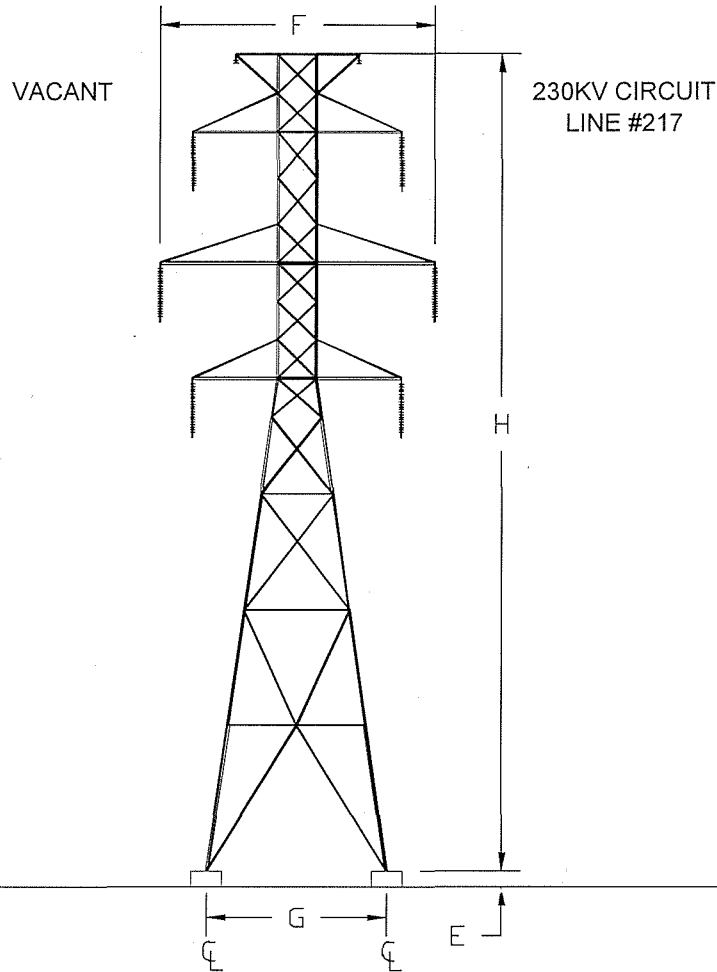


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

- | | |
|--|--|
| B. RATIONALE FOR STRUCTURE TYPE: | RESEMBLES GEOMETRY OF EXISTING FACILITIES |
| C. LENGTH OF R/W (STRUCTURE QUANTITY): | 2.30 MILES (4) |
| D. STRUCTURE MATERIAL: | WEATHERING STEEL |
| RATIONALE FOR STRUCTURE MATERIAL: | TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE |
| E. FOUNDATION MATERIAL: | CONCRETE |
| AVERAGE FOUNDATION REVEAL: | SEE NOTE 3. |
| F. AVERAGE WIDTH AT CROSSARM: | 47' |
| G. AVERAGE WIDTH AT BASE: | 24' |
| H. MINIMUM STRUCTURE HEIGHT: | 70' |
| MAXIMUM STRUCTURE HEIGHT: | 75' |
| AVERAGE STRUCTURE HEIGHT: | 71' |
| I. AVERAGE SPAN LENGTH: | 552' (257' - 876') |
| J. MINIMUM CONDUCTOR -TO- GROUND: | 22.5' (AT MAX OPERATING TEMPERATURE) |

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

SECTION 12: STRUCTURES 102 - 123

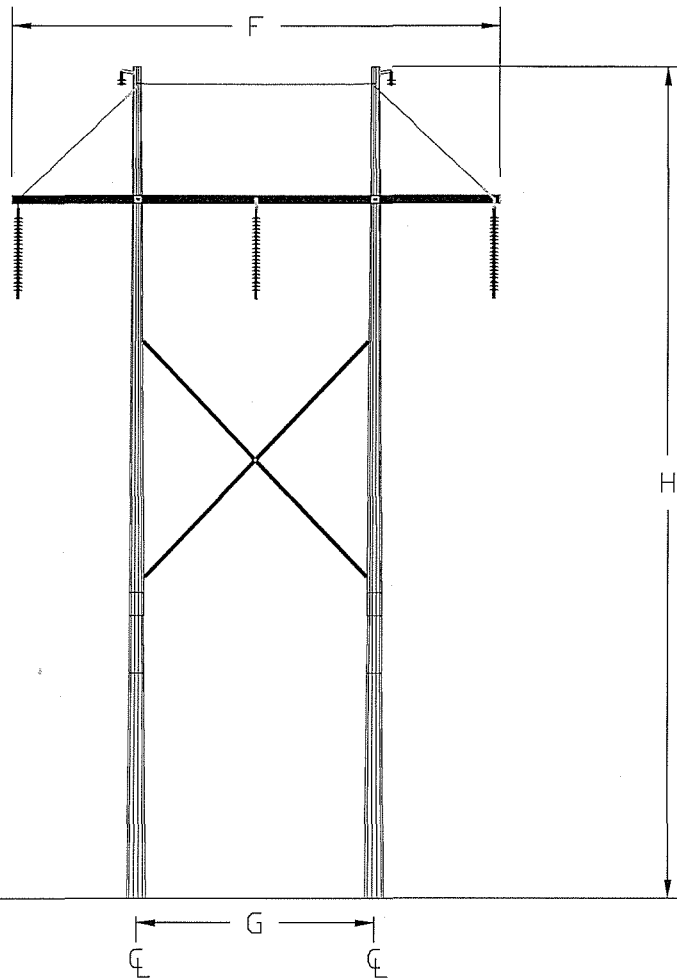


PROPOSE TO REUSE EXISTING DOUBLE CIRCUIT LATTICE SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	N/A - EXISTING
C. LENGTH OF RW (STRUCTURE QUANTITY):	2.30 MILES (2)
D. STRUCTURE MATERIAL:	GALVANIZED STEEL
RATIONALE FOR STRUCTURE MATERIAL:	N/A - EXISTING
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 2
F. AVERAGE WIDTH AT CROSSARM:	36'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	106'
MAXIMUM STRUCTURE HEIGHT:	106'
AVERAGE STRUCTURE HEIGHT:	106'
I. AVERAGE SPAN LENGTH:	552' (257' - 876')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

NOTE: 1. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 2. EXISTING FOUNDATION REVEAL MAY VARY AT EACH LEG LOCATION DUE TO TERRAIN.

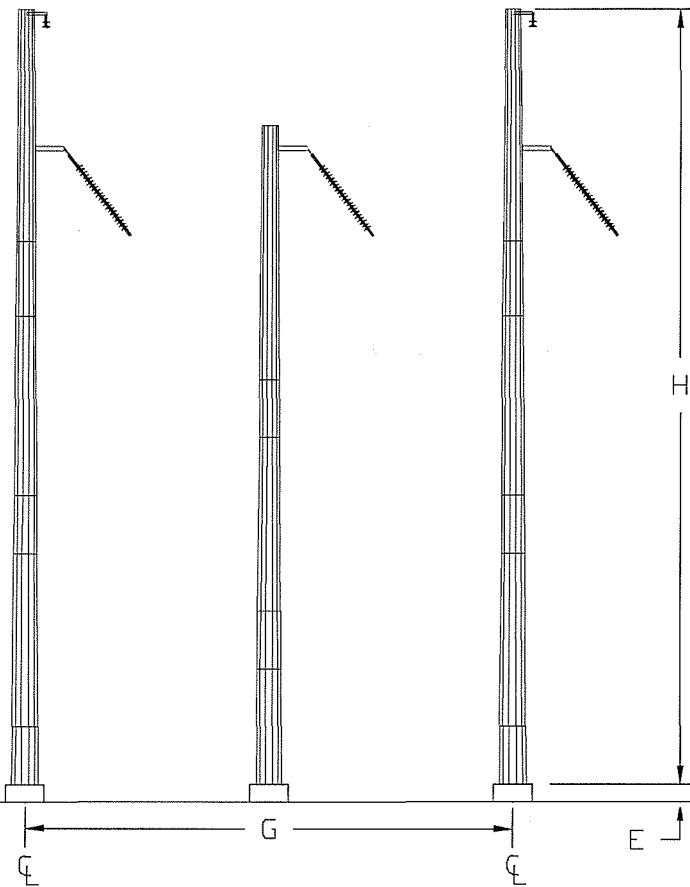
SECTION 13: STRUCTURES 128 - 132



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.52 MILES (3)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	554' (342' - 707')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

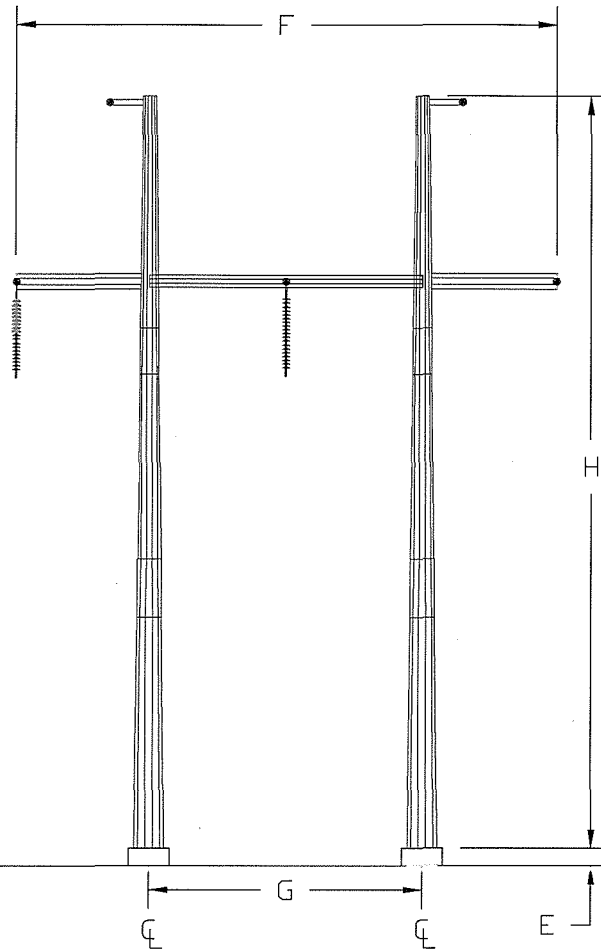
- NOTE:
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 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT 3-POLE RUNNING ANGLE STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	0.52 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	42'
H. MINIMUM STRUCTURE HEIGHT:	70'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	70'
I. AVERAGE SPAN LENGTH:	554' (342' - 707')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

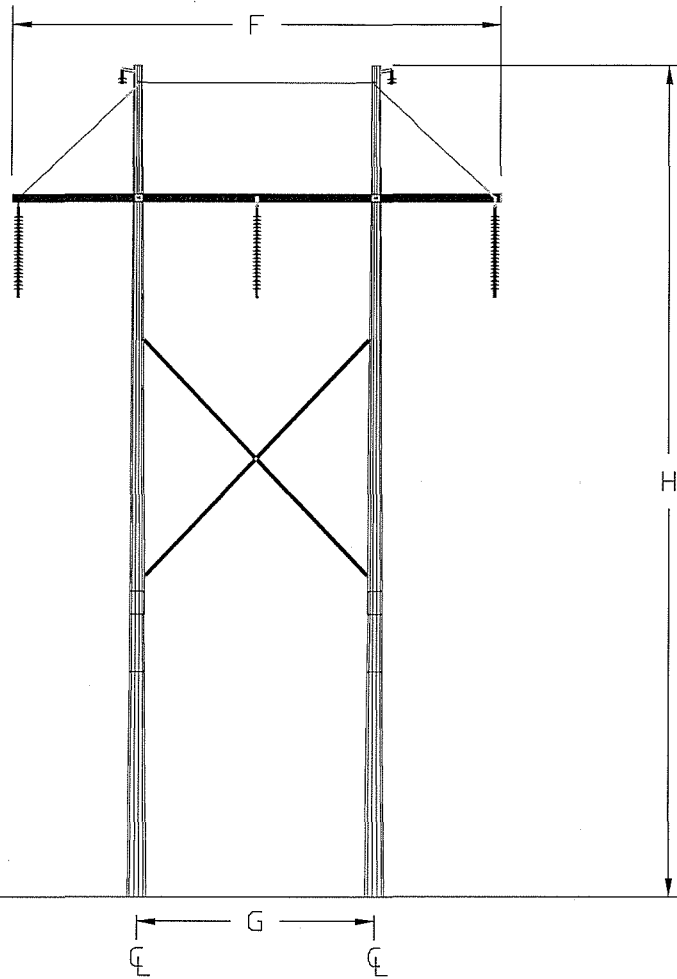


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	0.52 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	554' (342' - 707')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

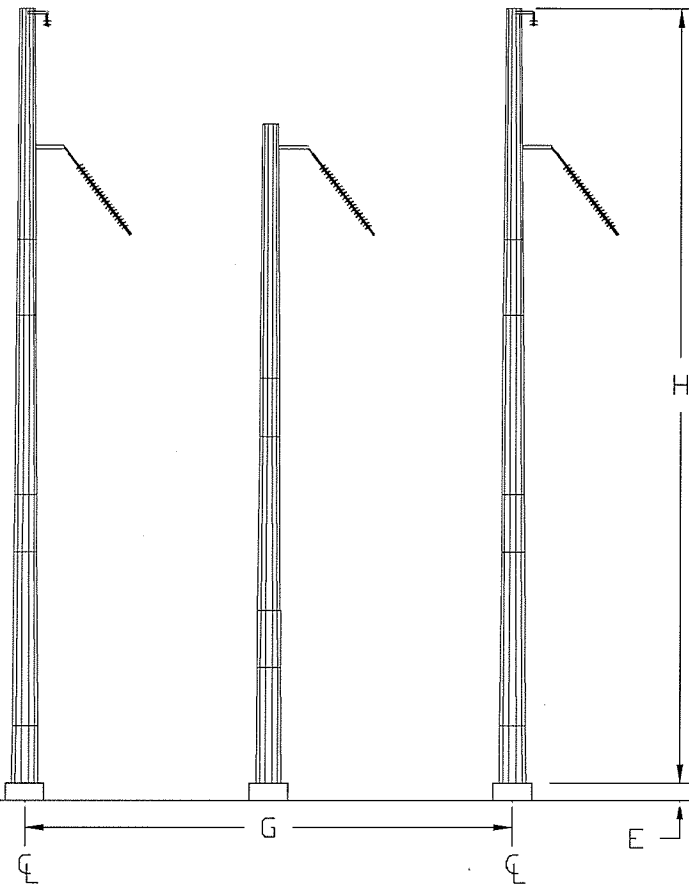
SECTION 14: STRUCTURES 133 - 147



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.53 MILES (11)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	57'
MAXIMUM STRUCTURE HEIGHT:	79'
AVERAGE STRUCTURE HEIGHT:	69'
I. AVERAGE SPAN LENGTH:	540' (315' - 1001')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

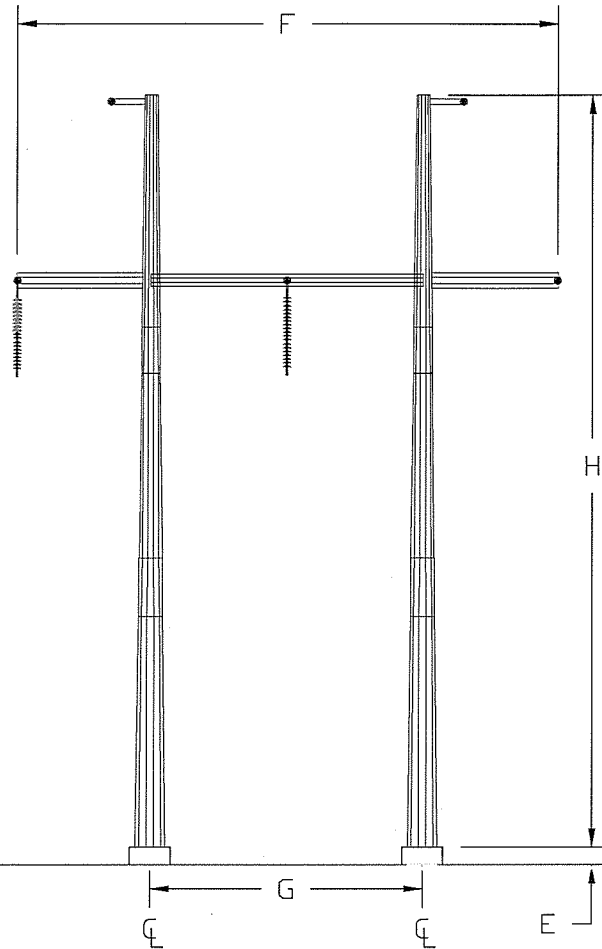
- NOTE:
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 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT 3-POLE RUNNING ANGLE STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.53 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	42'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	540' (315' - 1001')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

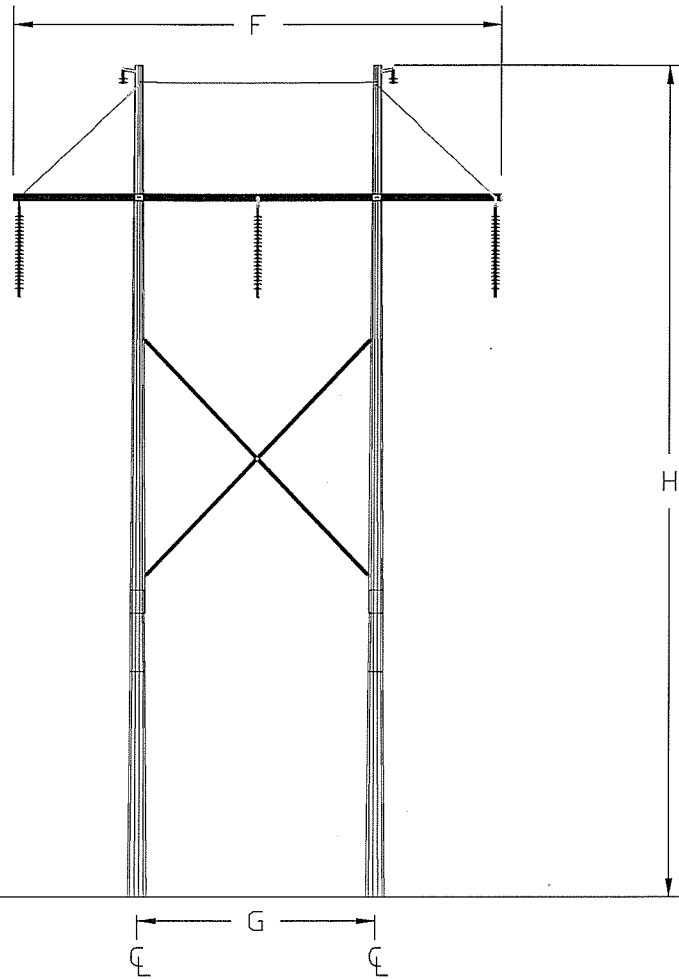


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	1.53 MILES (3)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	55'
MAXIMUM STRUCTURE HEIGHT:	70'
AVERAGE STRUCTURE HEIGHT:	62'
I. AVERAGE SPAN LENGTH:	540' (315' - 1001')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

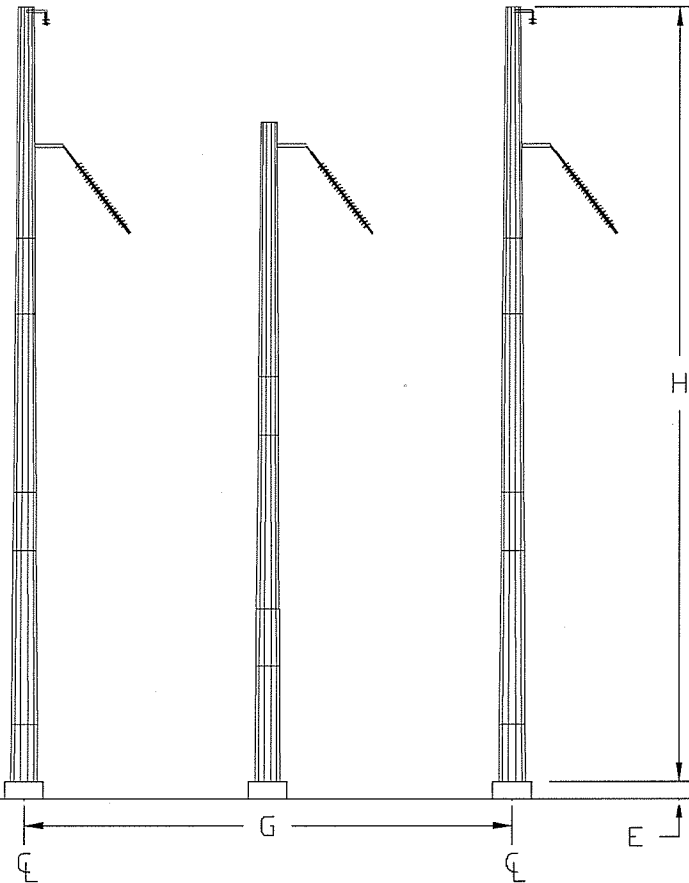
SECTION 15: STRUCTURES 148 - 171



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

- | | |
|---------------------------------------|---|
| B. RATIONALE FOR STRUCTURE TYPE: | RESEMBLES GEOMETRY OF EXISTING FACILITIES |
| C. LENGTH OF RW (STRUCTURE QUANTITY): | 3.02 MILES (22) |
| D. STRUCTURE MATERIAL: | WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING |
| RATIONALE FOR STRUCTURE MATERIAL: | THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL. |
| E. FOUNDATION MATERIAL: | N/A - DIRECT EMBED (SEE NOTE 4) |
| AVERAGE FOUNDATION REVEAL: | N/A - DIRECT EMBED |
| F. AVERAGE WIDTH AT CROSSARM: | 42' |
| G. AVERAGE WIDTH AT BASE: | 21' |
| H. MINIMUM STRUCTURE HEIGHT: | 70' |
| MAXIMUM STRUCTURE HEIGHT: | 79' |
| AVERAGE STRUCTURE HEIGHT: | 74' |
| I. AVERAGE SPAN LENGTH: | 663' (509' - 772') |
| J. MINIMUM CONDUCTOR -TO- GROUND: | 22.5' (AT MAX OPERATING TEMPERATURE) |

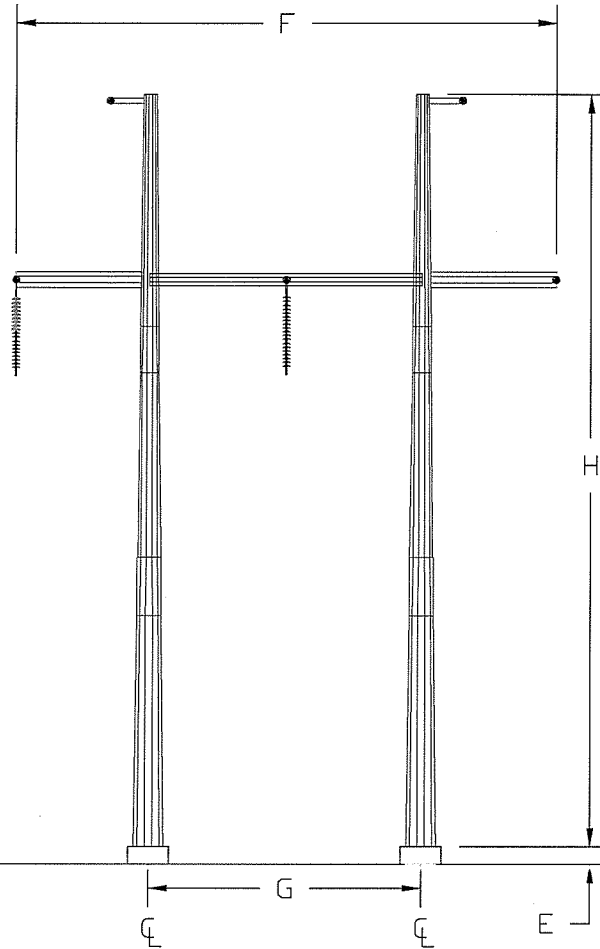
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 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT 3-POLE RUNNING ANGLE STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	3.02 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	42'
H. MINIMUM STRUCTURE HEIGHT:	60'
MAXIMUM STRUCTURE HEIGHT:	60'
AVERAGE STRUCTURE HEIGHT:	60'
I. AVERAGE SPAN LENGTH:	663' (509' - 772')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

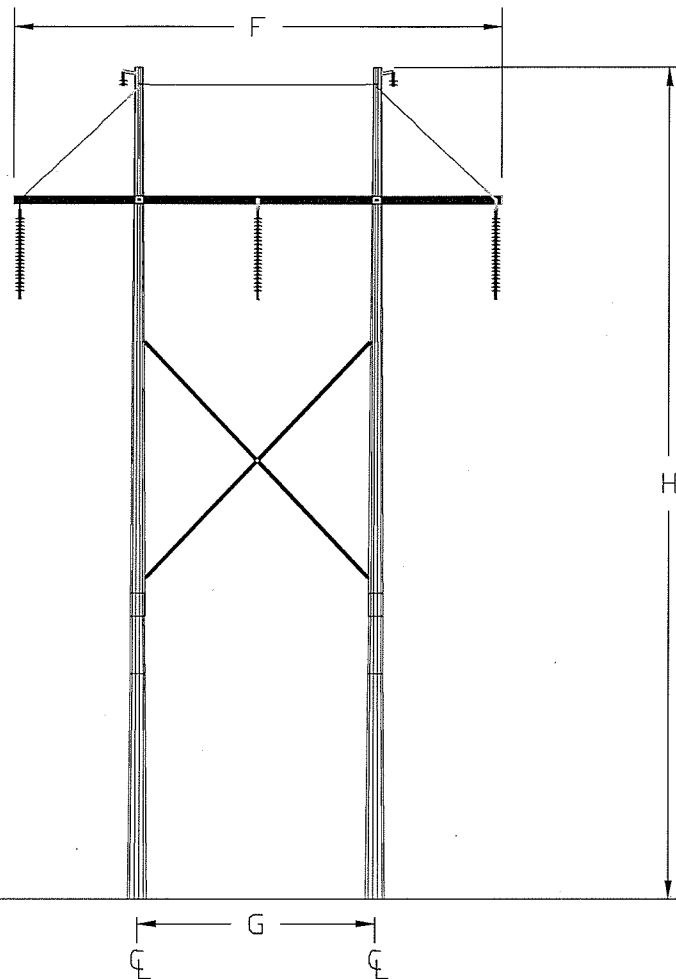
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.



PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	3.02 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	663' (509' - 772')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

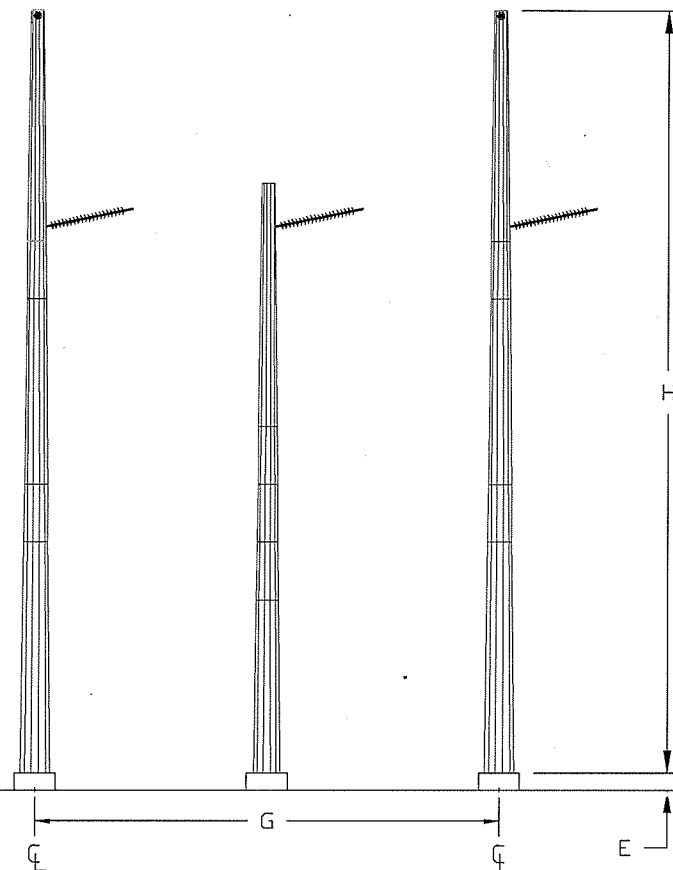
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 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.



PROPOSED SINGLE CIRCUIT H-FRAME SUSPENSION STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.70 MILES (18)
D. STRUCTURE MATERIAL:	WEATHERING STEEL POLES & GALVANIZED STEEL CROSS ARM & CROSS BRACING
RATIONALE FOR STRUCTURE MATERIAL:	THE COMPANY'S STANDARD FOR DIRECT EMBED H-FRAME CONSTRUCTION IS WEATHERING STEEL.
E. FOUNDATION MATERIAL:	N/A - DIRECT EMBED (SEE NOTE 4)
AVERAGE FOUNDATION REVEAL:	N/A - DIRECT EMBED
F. AVERAGE WIDTH AT CROSSARM:	42'
G. AVERAGE WIDTH AT BASE:	21'
H. MINIMUM STRUCTURE HEIGHT:	61'
MAXIMUM STRUCTURE HEIGHT:	79'
AVERAGE STRUCTURE HEIGHT:	71'
I. AVERAGE SPAN LENGTH:	541' (341' - 852')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

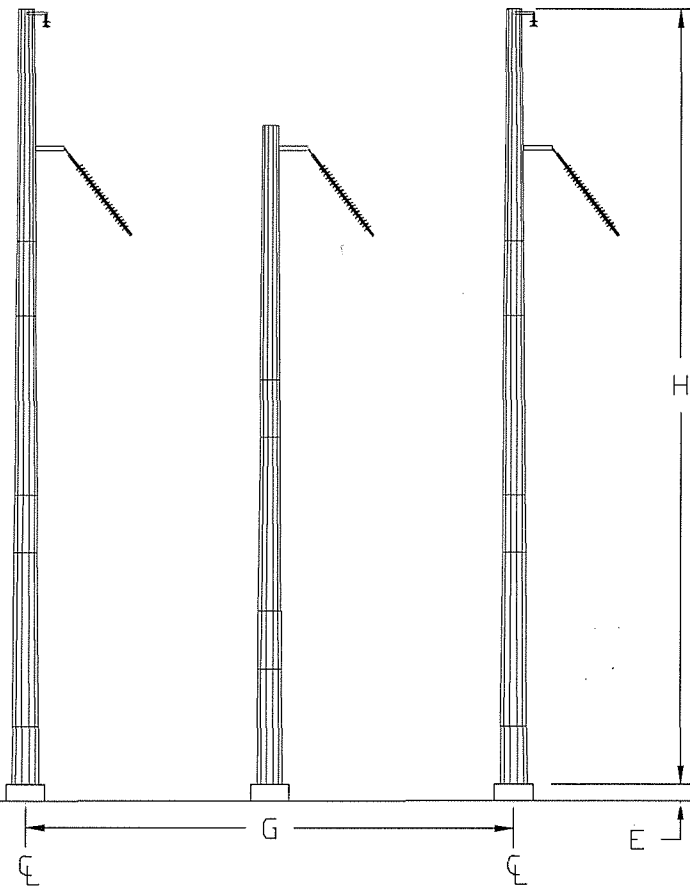
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 2. INDIVIDUAL POLE HEIGHTS ABOVE GRADE MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.
 4. IN WETLAND OR SWAMP AREAS - DIRECT EMBED INTO STEEL PIPE PILES



PROPOSED SINGLE CIRCUIT ANGLE (20 - 60 DEG)
3-POLE DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	2.70 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	40'
H. MINIMUM STRUCTURE HEIGHT:	75'
MAXIMUM STRUCTURE HEIGHT:	75'
AVERAGE STRUCTURE HEIGHT:	75'
I. AVERAGE SPAN LENGTH:	541' (341' - 852')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

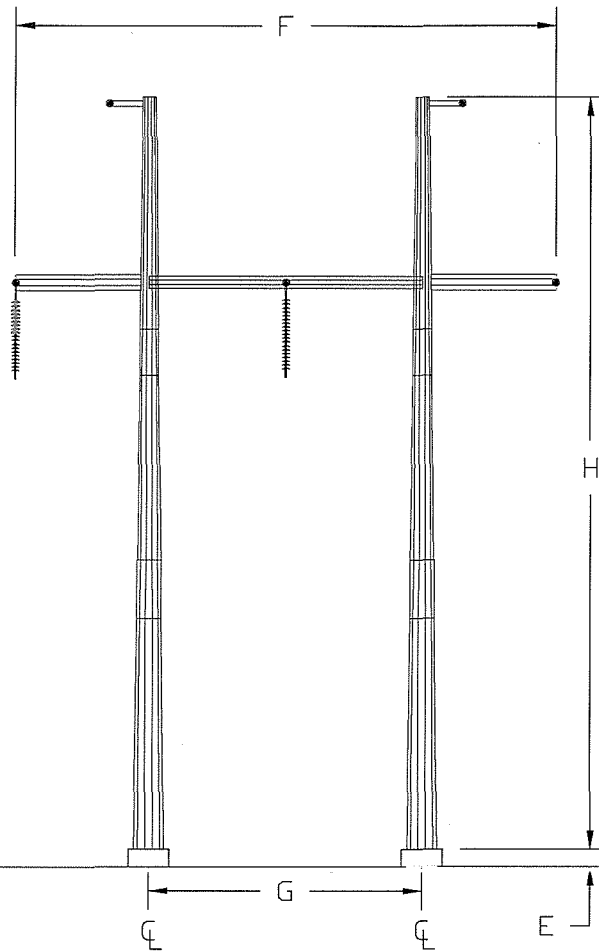
- NOTE:
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 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.



PROPOSED SINGLE CIRCUIT 3-POLE RUNNING ANGLE STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF RW (STRUCTURE QUANTITY):	2.70 MILES (1)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	N/A
G. AVERAGE WIDTH AT BASE:	42'
H. MINIMUM STRUCTURE HEIGHT:	65'
MAXIMUM STRUCTURE HEIGHT:	65'
AVERAGE STRUCTURE HEIGHT:	65'
I. AVERAGE SPAN LENGTH:	541' (341' - 852')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. INDIVIDUAL POLE HEIGHTS MAY VARY, SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL POLE LOCATION.
 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

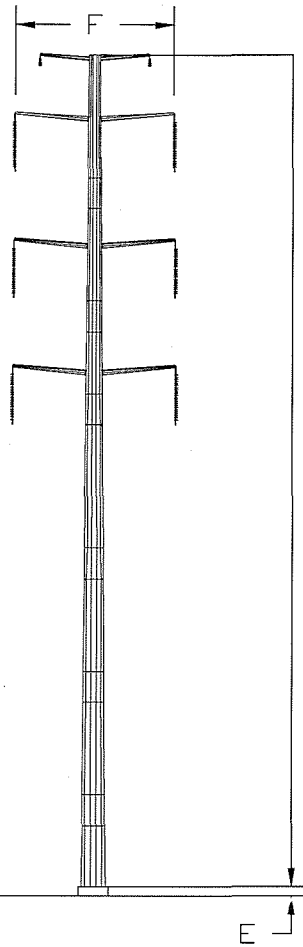


PROPOSED SINGLE CIRCUIT H-FRAME DOUBLE DEAD END STRUCTURE

B. RATIONALE FOR STRUCTURE TYPE:	RESEMBLES GEOMETRY OF EXISTING FACILITIES
C. LENGTH OF R/W (STRUCTURE QUANTITY):	2.70 MILES (4)
D. STRUCTURE MATERIAL:	WEATHERING STEEL
RATIONALE FOR STRUCTURE MATERIAL:	TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE
E. FOUNDATION MATERIAL:	CONCRETE
AVERAGE FOUNDATION REVEAL:	SEE NOTE 3.
F. AVERAGE WIDTH AT CROSSARM:	47'
G. AVERAGE WIDTH AT BASE:	24'
H. MINIMUM STRUCTURE HEIGHT:	55'
MAXIMUM STRUCTURE HEIGHT:	80'
AVERAGE STRUCTURE HEIGHT:	66'
I. AVERAGE SPAN LENGTH:	541' (341' - 852')
J. MINIMUM CONDUCTOR -TO- GROUND:	22.5' (AT MAX OPERATING TEMPERATURE)

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
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 3. MINIMUM FOUNDATION REVEAL SHALL BE 1.5', MAXIMUM REVEAL SUBJECT TO FINAL LOCATION AND TERRAIN AT INDIVIDUAL FOUNDATION LOCATION.
 4. STRUCTURE HEIGHTS ARE MEASURED FROM STRUCTURE CENTERLINE.

230KV CIRCUIT
LINE #217



DISTRIBUTION
CIRCUIT

PROPOSED DOUBLE CIRCUIT 1-POLE SUSPENSION STRUCTURE

- | | |
|--|--|
| B. RATIONALE FOR STRUCTURE TYPE: | MAINTAINS VERTICAL CONDUCTOR CONFIGURATION |
| C. LENGTH OF R/W (STRUCTURE QUANTITY): | 2.70 MILES (2) |
| D. STRUCTURE MATERIAL: | WEATHERING STEEL |
| RATIONALE FOR STRUCTURE MATERIAL: | TO MATCH THE MATERIAL SELECTED FOR THE TYPICAL (H-FRAME) STRUCTURE |
| E. FOUNDATION MATERIAL: | CONCRETE |
| AVERAGE FOUNDATION REVEAL: | SEE NOTE 2 |
| F. AVERAGE WIDTH AT CROSSARM: | 26' |
| G. AVERAGE WIDTH AT BASE: | 6' DIAMETER FOUNDATION (SEE NOTE 3) |
| H. MINIMUM STRUCTURE HEIGHT: | 135' |
| MAXIMUM STRUCTURE HEIGHT: | 145' |
| AVERAGE STRUCTURE HEIGHT: | 140' |
| I. AVERAGE SPAN LENGTH: | 541' (341' - 852') |
| J. MINIMUM CONDUCTOR -TO- GROUND: | 22.5' (AT MAX OPERATING TEMPERATURE) |

- NOTE:
1. INFORMATION CONTAINED ON DRAWING IS PRELIMINARY IN NATURE AND SUBJECT TO CHANGE DURING FINAL ENGINEERING.
 2. MINIMUM FOUNDATION REVEAL SHALL BE 1.5'.
 3. MAXIMUM FOUNDATION DIAMETER SHALL BE BASED UPON FINAL LOCATION AND STRUCTURE LOADING.

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

4. With regard to the proposed supporting structures for all feasible alternate routes, provide the maximum, minimum and average structure heights with respect to the whole route.

Response: Not applicable.

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

5. For lines being rebuilt, provide mapping showing existing and proposed structure heights for each individual structure within the ROW, as proposed in the application.

Response: See Attachment II.A.2 for mapping showing the location of existing and proposed structures. See Attachments II.B.5.a and b for the existing and proposed structure heights for each structure on Line #217 and Line #287, respectively. Information on proposed structure heights is preliminary in nature and subject to change during final engineering.

LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
1	217/1	CHESTERFIELD POWER STATION PROPERTY	0.32	65	BACKBONE	GALVANIZED STL	65	BACKBONE	GALVANIZED STL
2	217/1A			96	H-FRAME	CONCRETE	96	H-FRAME	CONCRETE
3	217/2*			95	H-FRAME	GALVANIZED STL	-	-	-
4	217/3			45	H-FRAME	WOOD	95	3 POLE DDE	WEATHERING STL
5	217/4			71	TOWER	GALVANIZED STL	95	3 POLE DDE	WEATHERING STL
6	217/5			212	TOWER	PAINTED	212	TOWER	PAINTED
7	217/6	SECTION 1	0.40	212	TOWER	PAINTED	212	TOWER	PAINTED
8	217/7	96		TOWER	GALVANIZED STL	95	3 POLE DDE	WEATHERING STL	
9	217/8	SECTION 2	0.86	62	H-FRAME	WOOD	90	H-FRAME	WEATHERING STL
10	217/9			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
11	217/10			60	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
12	217/11			57	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
13	217/12			61	H-FRAME	WOOD	84	H-FRAME	WEATHERING STL
14	217/13			60	H-FRAME	WOOD	84	H-FRAME	WEATHERING STL
15	217/14			84	3 POLE	WEATHERING STL	75	3 POLE DDE	WEATHERING STL
16	217/15	SECTION 3	0.36	65	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
17	217/16			53	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
18	217/17			60	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
19	217/18			65	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
20	217/19	SECTION 4	0.27	62	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
21	217/20			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
22	217/21			61	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
23	217/22	SECTION 5	0.85	56	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
24	217/23			61	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
25	217/24			61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
26	217/25			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
27	217/26			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
28	217/27			61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
29	217/28			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
30	217/29			63	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL

179

* - Existing structure not replaced
Bold Font - Existing structure reused
 Gray Cell - Company Owned Property

Information Provided is Preliminary in Nature and
 Subject to change during Final engineering

LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
31	217/30	SECTION 6	0.58	65	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
32	217/31			57	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
33	217/32			56	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
34	217/33			56	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
35	217/34			62	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
36	217/35	SECTION 7	0.68	61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
37	217/36			61	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
38	217/37			61	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
39	217/38			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
40	217/39			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
41	217/40			52	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
42	217/41			56	3 POLE	WOOD	65	3 POLE DDE	WEATHERING STL
43	217/42	SECTION 8	1.57	61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
44	217/43			75	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
45	217/44			75	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
46	217/45			69	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
47	217/46			57	H-FRAME	WOOD	65	H-FRAME	WEATHERING STL
48	217/47			65	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
49	217/48			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
50	217/49			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
51	217/50			65	3 POLE	WOOD	65	3 POLE DDE	WEATHERING STL
52	217/51			75	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
53	217/52			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
54	217/53			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
55	217/54			51	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
56	217/55			71	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
57	217/56			51	3 POLE	WOOD	65	3 POLE DDE	WEATHERING STL

180

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LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
58	217/57	SECTION 9	2.47	66	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
59	217/58			62	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
60	217/59			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
61	217/60			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
62	217/61			57	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
63	217/62			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
64	217/63			62	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
65	217/64			58	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
66	217/65			61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
67	217/66			61	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
68	217/67			63	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
69	217/68			62	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
70	217/69			63	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
71	217/70			66	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
72	217/71			80	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
73	217/72			70	H-FRAME	WOOD	84	H-FRAME	WEATHERING STL
74	217/73			70	H-FRAME	WEATHERING STL	84	H-FRAME	WEATHERING STL
75	217/74			71	H-FRAME	WOOD	88	H-FRAME	WEATHERING STL
76	217/75			62	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
77	217/76			65	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
78	217/77			59	3 POLE	WOOD	65	3 POLE DDE	WEATHERING STL

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LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
79	217/78	SECTION 10	1.38	52	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
80	217/79			61	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
81	217/80			66	H-FRAME	WOOD	84	H-FRAME	WEATHERING STL
82	217/81			75	H-FRAME	WEATHERING STL	84	H-FRAME	WEATHERING STL
83	217/82			62	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
84	217/83			61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
85	217/84			62	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
86	217/85			62	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
87	217/86			62	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
88	217/87			66	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
89	217/88			57	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
90	217/89			55	H-FRAME	WOOD	60	3 POLE DDE	WEATHERING STL
91	217/90	SECTION 11	1.16	55	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
92	217/91			62	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
93	217/92			60	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
94	217/93			64	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
95	217/94			63	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
96	217/95			56	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
97	217/96			56	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
98	217/97			57	H-FRAME	WEATHERING STL	61	H-FRAME	WEATHERING STL
99	217/98			66	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
100	217/99			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
101	217/100			57	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
102	217/100A			-	-	-	39	SWITCH	GALVANIZED STL
103	217/101			61	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL

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LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
104	217/101A	CHARLES CITY RD SUBSTATION PROPERTY	0.05	60	BACKBONE	CONCRETE	60	BACKBONE	CONCRETE
105	217/102	SECTION 12	2.30	56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
106	217/102A			-	-	-	39	SWITCH	GALVANIZED STL
107	217/103			61	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
108	217/104			75	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
109	217/105			66	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
110	217/106			62	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
111	217/107			62	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
112	217/108			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
113	217/109			52	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
114	217/110			75	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
115	217/111			106	TOWER	GALVANIZED STL	106	TOWER	GALVANIZED STL
116	217/112			106	TOWER	GALVANIZED STL	106	TOWER	GALVANIZED STL
117	217/113			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
118	217/114			69	H-FRAME	WOOD	88	H-FRAME	WEATHERING STL
119	217/115			59	3 POLE	WOOD	75	3 POLE RA	WEATHERING STL
120	217/116			64	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
121	217/117			69	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
122	217/118			66	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
123	217/119	67	H-FRAME	WEATHERING STL	88	H-FRAME	WEATHERING STL		
124	217/120	66	H-FRAME	WEATHERING STL	84	H-FRAME	WEATHERING STL		
125	217/121	51	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL		
126	217/122	64	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL		
127	217/123	66	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL		

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LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
128	217/124	NORTHEAST SUBSTATION PROPERTY	0.31	60	3 POLE	WEATHERING STL	60	3 POLE DDE	WEATHERING STL
129	217/125			95	BACKBONE	GALVANIZED STL	95	BACKBONE	GALVANIZED STL
130	217/126			53	3 POLE	WEATHERING STL	60	3 POLE DDE	WEATHERING STL
131	217/127			67	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
132	217/128	SECTION 13	0.52	70	3 POLE	WOOD	70	3 POLE RA	WEATHERING STL
133	217/129			62	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
134	217/130			70	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
135	217/131			61	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
136	217/132			61	H-FRAME	WOOD	65	H-FRAME	WEATHERING STL
137	217/133	SECTION 14	1.53	56	H-FRAME	WOOD	60	H-FRAME	WEATHERING STL
138	217/134			62	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
139	217/135			70	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
140	217/136			66	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
141	217/137			55	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
142	217/138			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
143	217/139			51	H-FRAME	WOOD	55	H-FRAME	WEATHERING STL
144	217/140			52	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
145	217/141			65	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
146	217/142			56	H-FRAME	WOOD	57	H-FRAME	WEATHERING STL
147	217/143			62	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
148	217/144			66	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
149	217/145			70	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
150	217/146			64	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
151	217/147	56	3 POLE	WEATHERING STL	65	3 POLE RA	WEATHERING STL		

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LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
152	217/148	SECTION 15	3.02	62	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
153	217/149			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
154	217/150			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
155	217/151			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
156	217/152			66	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
157	217/153			66	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
158	217/154			62	H-FRAME	WEATHERING STL	79	H-FRAME	WEATHERING STL
159	217/155			68	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
160	217/156			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
161	217/157			60	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
162	217/158			62	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
163	217/159			60	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
164	217/160			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
165	217/161			55	3 POLE	WEATHERING STL	60	3 POLE RA	WEATHERING STL
166	217/162			60	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
167	217/163			61	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
168	217/164			64	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
169	217/165			70	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
170	217/166			61	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
171	217/167			60	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
172	217/168			66	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
173	217/169			66	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
174	217/170			61	H-FRAME	WEATHERING STL	75	H-FRAME	WEATHERING STL
175	217/171			66	H-FRAME	WEATHERING STL	65	H-FRAME	WEATHERING STL

185

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 Subject to change during Final engineering

LINE #217

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
176	217/172	SECTION 16	2.70	57	H-FRAME	WOOD	55	H-FRAME	WEATHERING STL
177	217/173			54	3 POLE	WOOD	65	3 POLE RA	WEATHERING STL
178	217/174			60	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL
179	217/175			66	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
180	217/176			57	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
181	217/177			70	H-FRAME	WEATHERING STL	70	H-FRAME	WEATHERING STL
182	217/178			66	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
183	217/179			52	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
184	217/180			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
185	217/181			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
186	217/182			56	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
187	217/183			66	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
188	217/184			61	H-FRAME	WOOD	75	H-FRAME	WEATHERING STL
189	217/185			61	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
190	217/186			56	H-FRAME	WOOD	66	H-FRAME	WEATHERING STL
191	217/187			65	H-FRAME	WOOD	65	H-FRAME	WEATHERING STL
192	217/188			135	TOWER	GALVANIZED STL	135	DC 1-POLE	WEATHERING STL
193	217/189			145	TOWER	GALVANIZED STL	145	DC 1-POLE	WEATHERING STL
194	217/190			67	H-FRAME	WOOD	65	H-FRAME	WEATHERING STL
195	217/191			65	H-FRAME	WOOD	61	H-FRAME	WEATHERING STL
196	217/192			62	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL
197	217/193	66	H-FRAME	WOOD	70	H-FRAME	WEATHERING STL		
198	217/194	65	H-FRAME	WOOD	79	H-FRAME	WEATHERING STL		
199	217/195	75	H-FRAME	WOOD	80	H-FRAME	WEATHERING STL		
200	217/196	-	-	-	75	3 POLE DDE	WEATHERING STL		
201	217/197	79	3 POLE	WOOD	79	H-FRAME	WEATHERING STL		
202	217/197A	LAKESIDE SUBSTATION PROPERTY		35	BACKBONE	GALVANIZED STL	35	BACKBONE	GALVANIZED STL
203		LAKESIDE SUBSTATION PROPERTY		75	STATIC POLE	GALVANIZED STL	75	STATIC POLE	GALVANIZED STL

186

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LINE #287

Row #	Structure #	Location Identifier	Approximate Line Miles	EXISTING			PROPOSED		
				Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material	Approximate Structure Height Above Foundation (ft)	Structure Type	Pole Material
1	1C	CHESTERFIELD POWER STATION PROPERTY	0.34	65	BACKBONE	GALVANIZED STEEL	65	BACKBONE	GALVANIZED STEEL
2	1B			80	H-FRAME	WOOD	93	H-FRAME	WEATHERING STEEL
3	1*			90	3 POLE	CONCRETE	-	-	-
4	2A*			61	3 POLE	WOOD	-	-	-
5	2			50	H-FRAME	WOOD	85	3 POLE	WEATHERING STEEL
6	3			71	TOWER	GALVANIZED STEEL	95	3 POLE	WEATHERING STEEL
7	4			212	TOWER	PAINTED	212	TOWER	PAINTED
8	5	SECTION 1	0.40	212	TOWER	PAINTED	212	TOWER	PAINTED
9	6			96	TOWER	GALVANIZED STEEL	95	3 POLE	WEATHERING STEEL

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