PSEG LONG ISLAND LLC

On Behalf of and as Agent for the

LONG ISLAND LIGHTING COMPANY d/b/a LIPA

Syosset to Oakwood Project

EXHIBIT 5

DESIGN DRAWINGS

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LIST OF FIGURES

Exhibit 5 - Design Drawings

5.1 Design Standards

The transmission structures and components will be designed in accordance with the Applicant's[1] standards that have been developed through decades of experience constructing, maintaining, and operating transmission in the region in addition to applicable industry standards.

The industry standards are produced by the following organizations:

- American Concrete Institute ("ACI");
- American Institute of Steel Construction ("AISC");
- American National Standards Institute ("ANSI");
- American Society for Testing and Materials ("ASTM");
- American Society of Civil Engineers ("ASCE");
- Association of Edison Illuminating Companies ("AEIC");
- Institute of Electrical and Electronic Engineers ("IEEE");
- Insulated Cable Engineers Association ("ICEA");
- International Building Code – New York State ("IBC");
- International Electrotechnical Commission ("IEC");
- National Electric Manufacturer's Association ("NEMA");
- National Electric Safety Code ("NESC");
- National Fire Protection Association ("NFPA"); and
- Occupational Safety and Health Administration ("OSHA").

5.2 Underground Design Drawings

The attached drawings identify the typical cables, conduits, cross sections, and splice vaults that are currently anticipated to be used for the Project. Additional designs may be added to the portfolio as the Project progresses from conceptual to final design. Further details to the underground design and construction are included in Exhibit E-1 Description of Proposed Transmission Line and Exhibit E-3 Underground Construction. Final design will be described in the EM&CP.

5.2.1 Cable

Figure 5-1 shows a typical cross section of 138kV underground insulated cable. The Project will utilize a 2,000 mm^2 copper conductor measuring approximately 4.90 inches in diameter. The system will operate as a single circuit with two cables per phase. The conductor will be comprised of annealed bare copper strands. The insulation will be XLPE with a thickness of approximately 870 mils, rated to an operating voltage of

[1] For clarity and consistency, the Application includes a Glossary that defines terms and acronyms used throughout the Application.

138kV. Metallic shielding will be plain annealed copper wires or equivalent, moisture impervious sheath that is designed for the fault current requirements and will prevent water migration into the cable. The jacket will be black LLDPE including a semi-conducting polyethylene layer.

5.2.2 Profile

Figure 5-2 shows the profile of the Project centerline with an exaggerated vertical scale. Woodbury Tap and the Oakwood Substation expansion are labeled. Preliminary splice vault locations are also shown.

5.2.3 Typical Duct Bank Cross-Section

Each sub-circuit will consist of three 10-inch SDR11 electrical grade rigid HDPE conduits in trefoil configuration to house the 138kV underground transmission cables and one four-inch SDR11 HDPE conduit to house a jacketed copper grounding cable. Figure 5-3 depicts typical duct bank cross-sections.

5.2.4 Typical Splice Vaults

The circuit will include splice vaults at approximate intervals of 2,000 to 2,500 feet along the duct bank. Two splice vaults are anticipated at each splice vault location, one for each partial phase. The splice vaults will consist of precast concrete designed for a load rating of HS-25. The conduit splice vault will contain power cable splices, cable racking, and grounding accessories. For construction flexibility, both one-piece and two-piece splice vaults are described below.

5.2.4.1 One-Piece Precast Concrete Splice Vault

The one-piece precast concrete splice vault exterior dimensions will be 18 feet in length by 10 feet in width and 11 feet in height. Two circular openings in the splice vault roof will be used to access the interior. The openings will be covered by 38-inch cast iron lids. Figure 5-4 depicts a typical one-piece splice vault layout and sections.

5.2.4.2 Two-Piece Precast Concrete Splice Vault

The two-piece precast concrete splice vault exterior dimensions will be 16 feet in length, 18 feet and 10 inches in width and eight feet and 11 inches in height. Two circular openings in the splice vault roof will be used to access the interior. The openings will be covered by 38-inch cast iron lids. Figure 5-5 depicts a typical two-piece splice vault layout and sections.

5.3 Overhead Design Drawings

The attached drawings identify the typical structures, wires, and cross sections that are currently anticipated to be used for the Project. Additional designs may be added to the portfolio as the Project progresses from conceptual to final design. Further details to the overhead design and construction are included in Exhibit E-1 Description of Proposed Transmission Facilities.

5.3.1 Overhead Conductor

Figure 5-6 shows a typical cross section of 138kV overhead conductor. The Applicant proposes a single 2300 thousands of circular mils, 61W, all-aluminum conductor ("AAC"), "Pigweed" with a non-specular finish.

5.3.2 Structures

The Applicant proposes galvanized or Natina Rustic Brown finish steel monopole structures, 75 to 110 feet in height, for the Project to connect the Woodbury overhead circuits to the Oakwood underground circuit. Figure 5-7 contains a set of cross section diagrams of the proposed overhead structure scope associated with the Project. Figure 5-8 includes details for typical overhead transmission structures and materials proposed. This drawing includes structure types, materials, configurations, insulators, dimensions, finish, and colors. Figure 5-9 includes details for the overhead to underground transition structure. The transition from overhead to underground will either be a single pole, with six underground cables, or three poles, each with two underground cables. Further engineering considerations, as well as municipal consultations, will determine whether one or three structures will be used.

5.3.3 Foundations

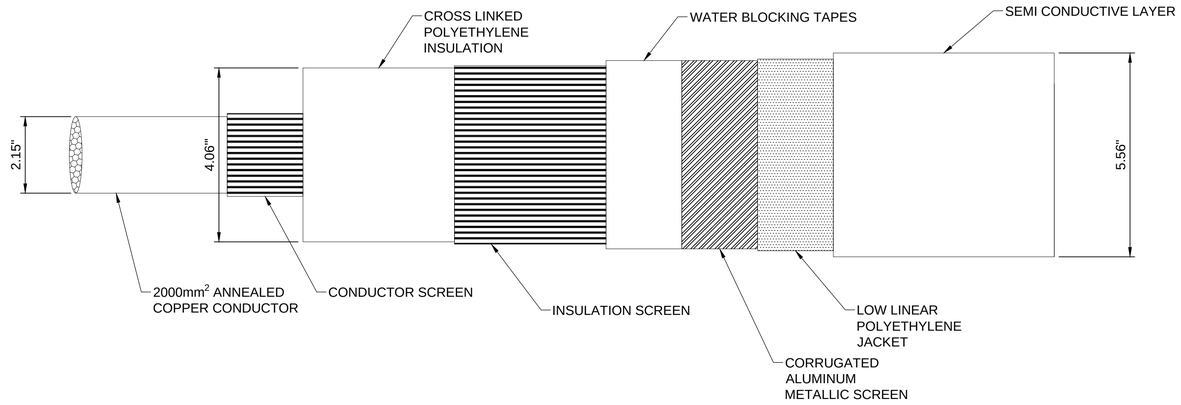
The Applicant proposes steel reinforced concrete drilled pier or direct embed foundations for the Project. Figure 5-10A and Figure 5-10B show the details for the two foundation options. The final base diameter on these structures may range from five to eight feet in diameter.

5.3.4 Insulators, Clamps, & Hardware

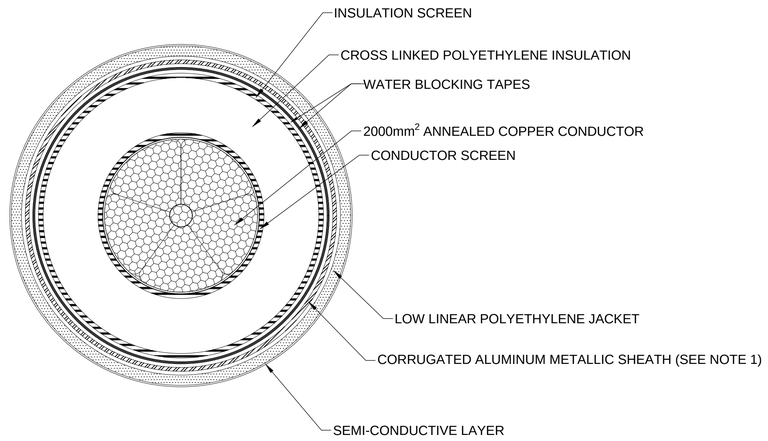
The Applicant proposes polymer insulators with compression clamp hardware to attach the conductor to the overhead structures. Figure 5-11 through Figure 5-13 shows the details for the typical conductor, shield wire, and grounding hardware. Polymer post insulators with trunnion clamp hardware may be used for the jumper sections to connect multiple spans at the dead-end structures. Dead-end tees will be used to modify any existing structures to remain, before attaching new insulators. The proposed shield wire will be supported by quadrant strain clamps.

Figure 5-1

Typical Underground Cable Cross Section



138-kV 2000mm²
ANNEALED COPPER XLPE
CABLE DETAIL



138-kV 2000mm²
ANNEALED COPPER XLPE
CABLE CROSS SECTION

NOTE:
1. SHEATH MATERIAL AND CONFIGURATION TO BE DETERMINED AS PART OF THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN. THIS MAY INCLUDE EITHER A CORRUGATED ALUMINUM METALLIC SHEATH AS SHOWN, OR A SHEATH UTILIZING COPPER CONCENTRIC NEUTRALS

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/17/2025	ARTICLE VII	JCB	JAC	DAG

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178873

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
ISSUE							
0	11/01/2023		ORIGINAL ISSUE	KJL	JAS	D. GOOZL P.E.	P.E.

Long Island Power Authority
SYOSSET TO OAKWOOD ARTICLE VII
138-kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138-kV TRANSMISSION LINE
TYPICAL CABLE CROSS SECTION

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

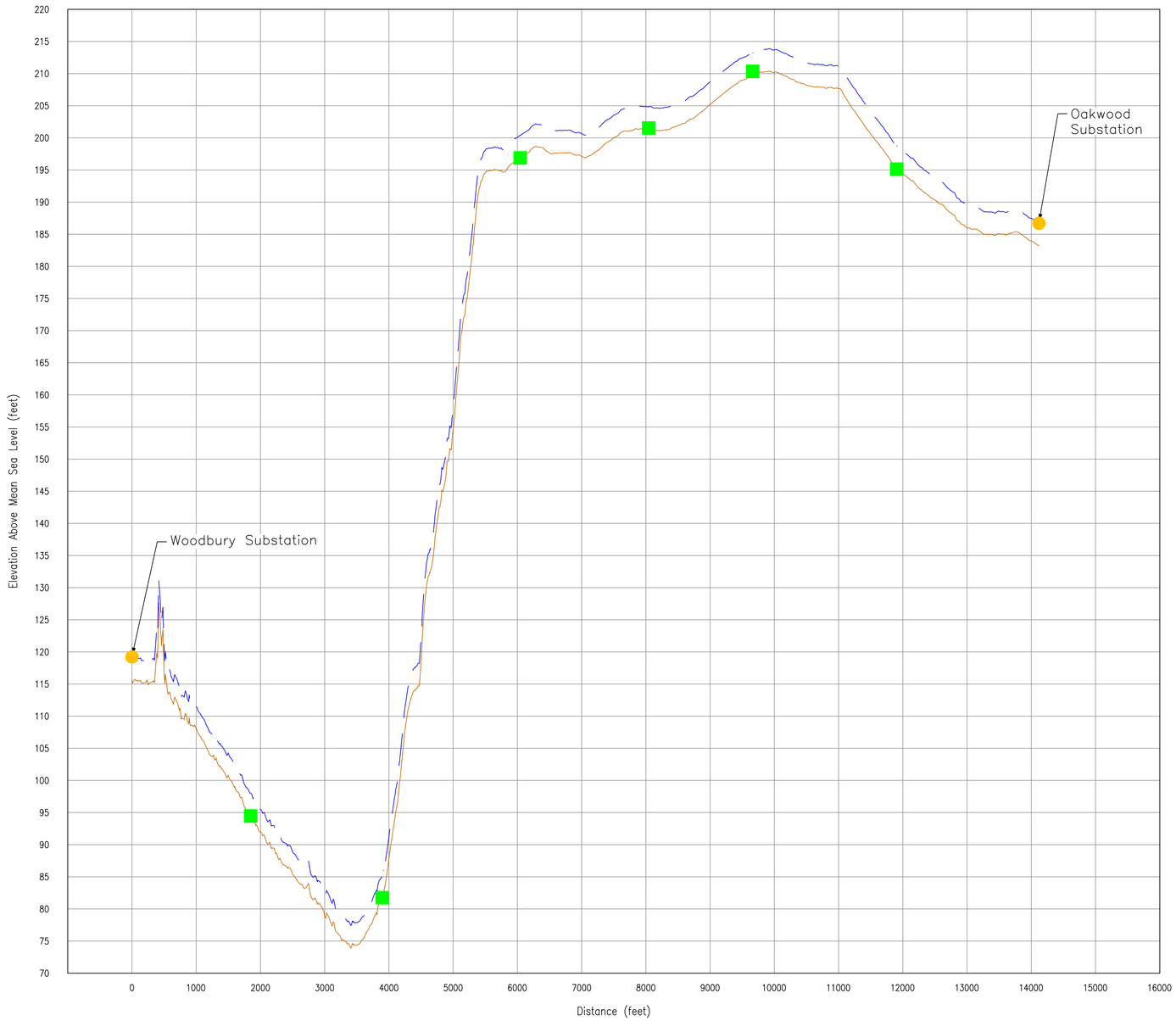
SCALE: NONE
VENDOR DWG. NO.:
DRAWING NO.: F114505
SMART NO.: BWAxx-FU-xxxxxxx
REVISION: 000
SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.

Figure 5-2

ROW Centerline Profile

Centerline Profile

Ground Elevation | Splice Vault | Substation | Cable



NOTE:
1. CONDUIT SYSTEM SHALL MAINTAIN A MINIMUM 42" DEPTH OF COVER.
2. MINIMUM DEPTH OF COVER, AS MEASURED AT ANY POINT OF DIRECT BURED SPLICE VAULT, SHALL BE 2'-0".

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ISSUE

Long Island Power Authority
SYOSSET TO OAKWOOD ARTICLE VII
138-kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138-kV TRANSMISSION LINE
CENTERLINE PROFILE

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

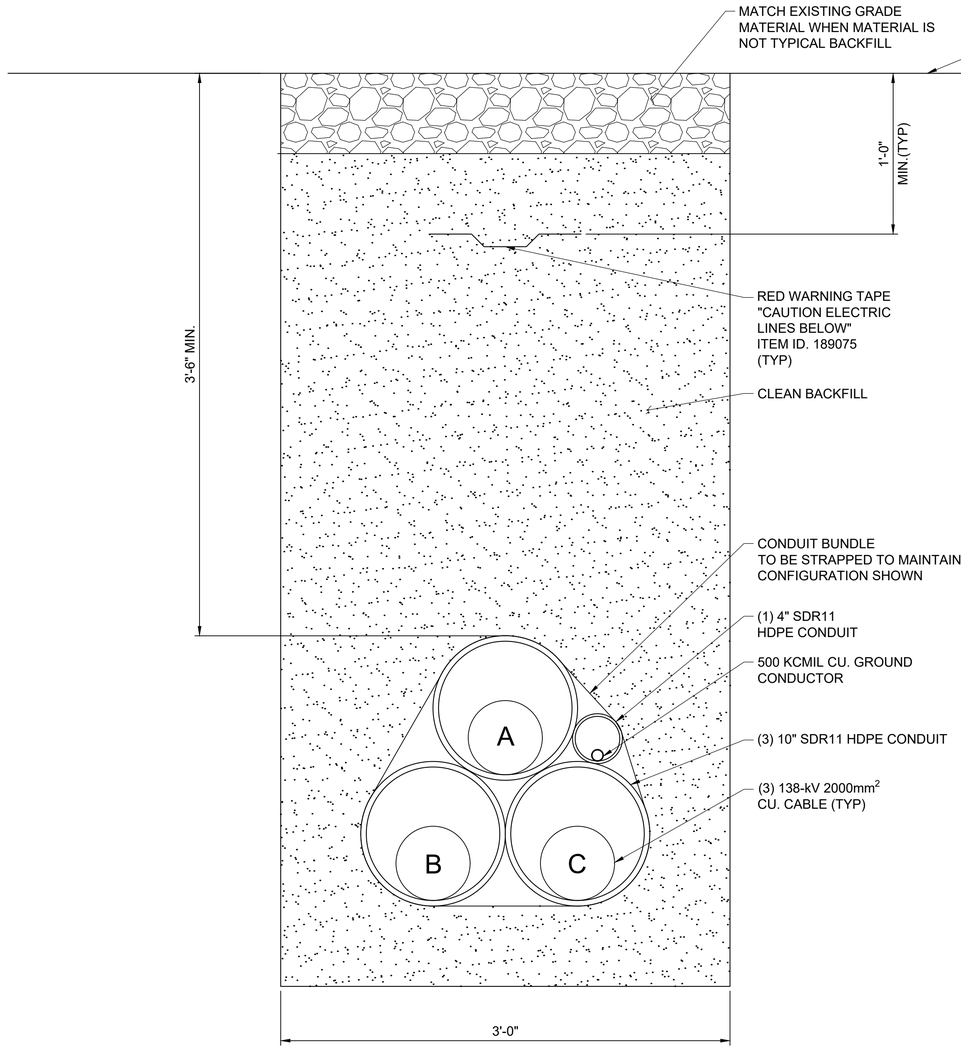
SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
F114506	BWAxx-FU-xxxxxxx	000

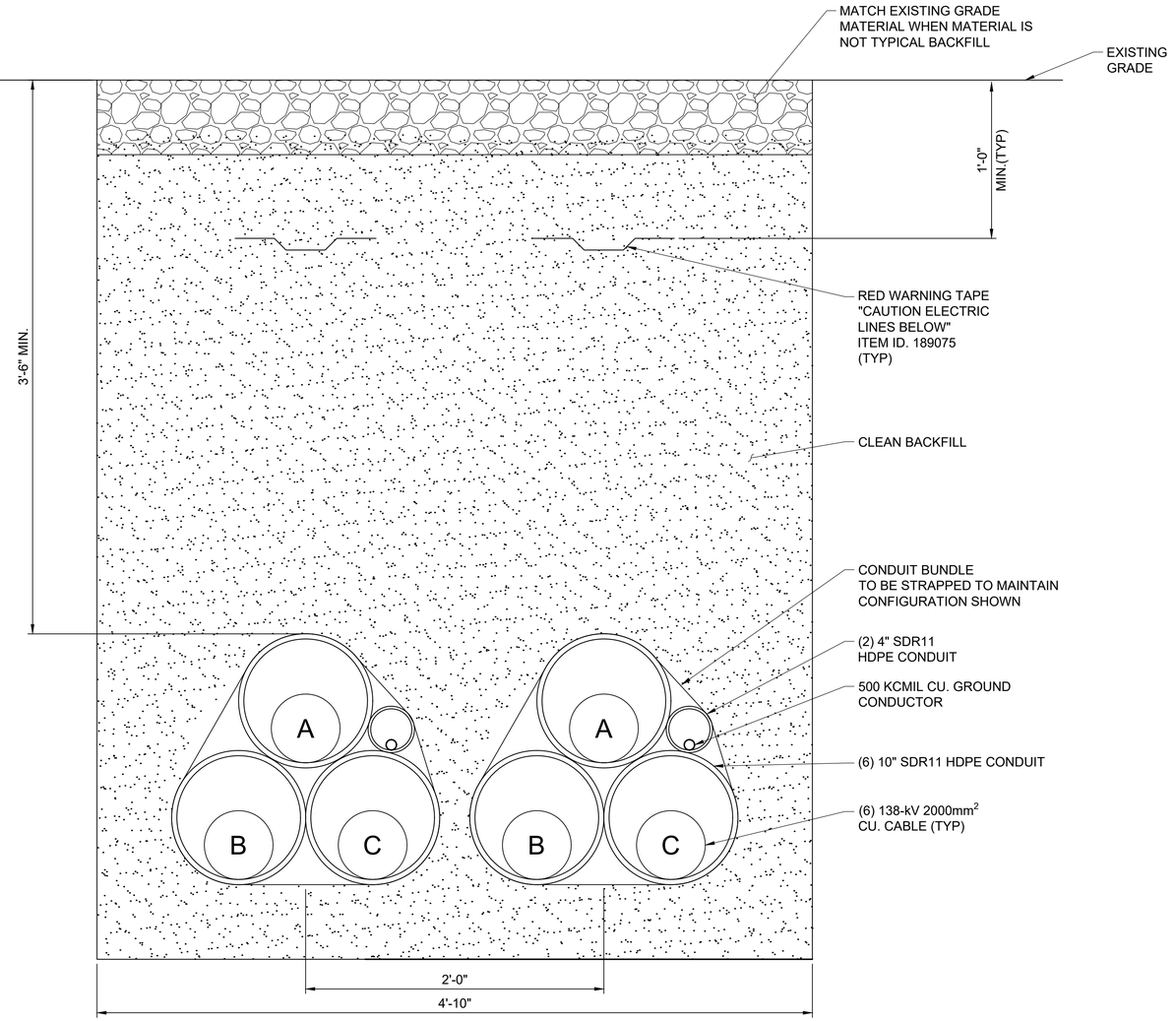
SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-3

Typical Duct Bank Cross Section



TYPICAL DIRECT BURIED CONDUITS IN
TREFOIL CONFIGURATION FOR JUMPER



TYPICAL DIRECT BURIED CONDUITS IN
TREFOIL CONFIGURATION

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Long Island Power Authority
SYOSSET TO OAKWOOD ARTICLE VII
138-kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138-kV TRANSMISSION LINE
TYPICAL CROSS SECTION

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

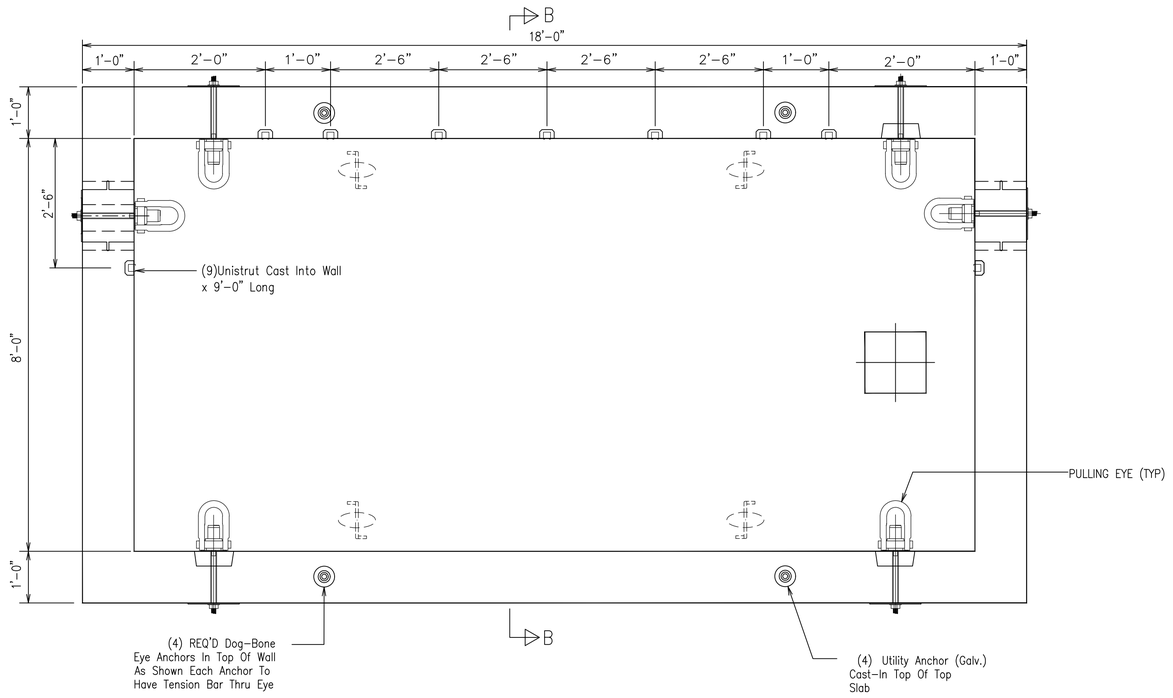
SCALE: NONE
VENDOR DWG. NO.

DRAWING NO.: F114507
SMART NO.: BWAxx-FU-xxxxxxx
REVISION: 000

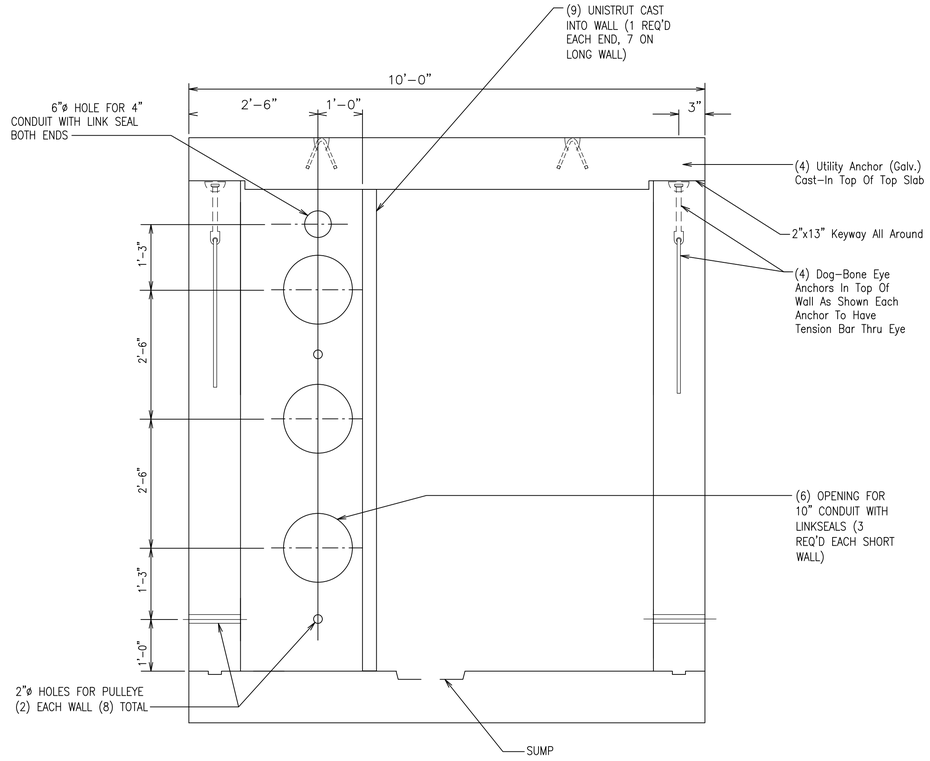
SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.

Figure 5-4

Typical One-Piece Splice Vault



TYPICAL ON PIECE SPICE VAULT PLAN VIEW



TYPICAL ONE PIECE SPLICE VAULT FRONT ELEVATION VIEW

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SYOSSET TO OAKWOOD ARTICLE VII
138-kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138-kV TRANSMISSION LINE
TYPICAL 138-kV ONE PIECE SPLICE VAULT

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
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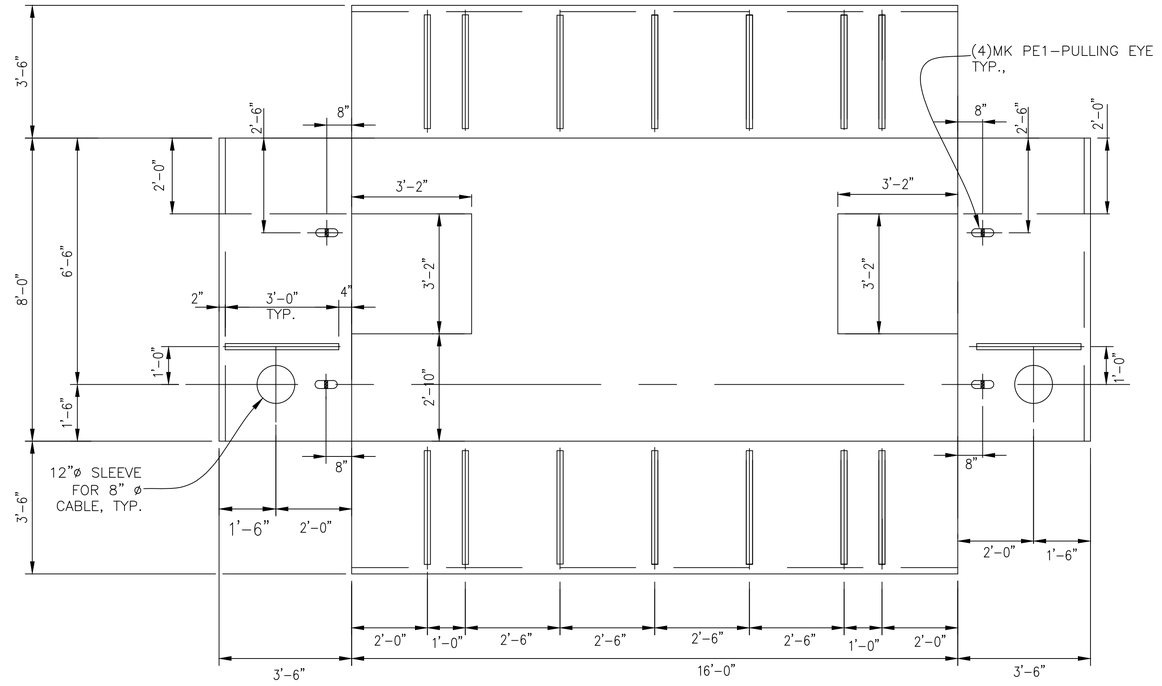
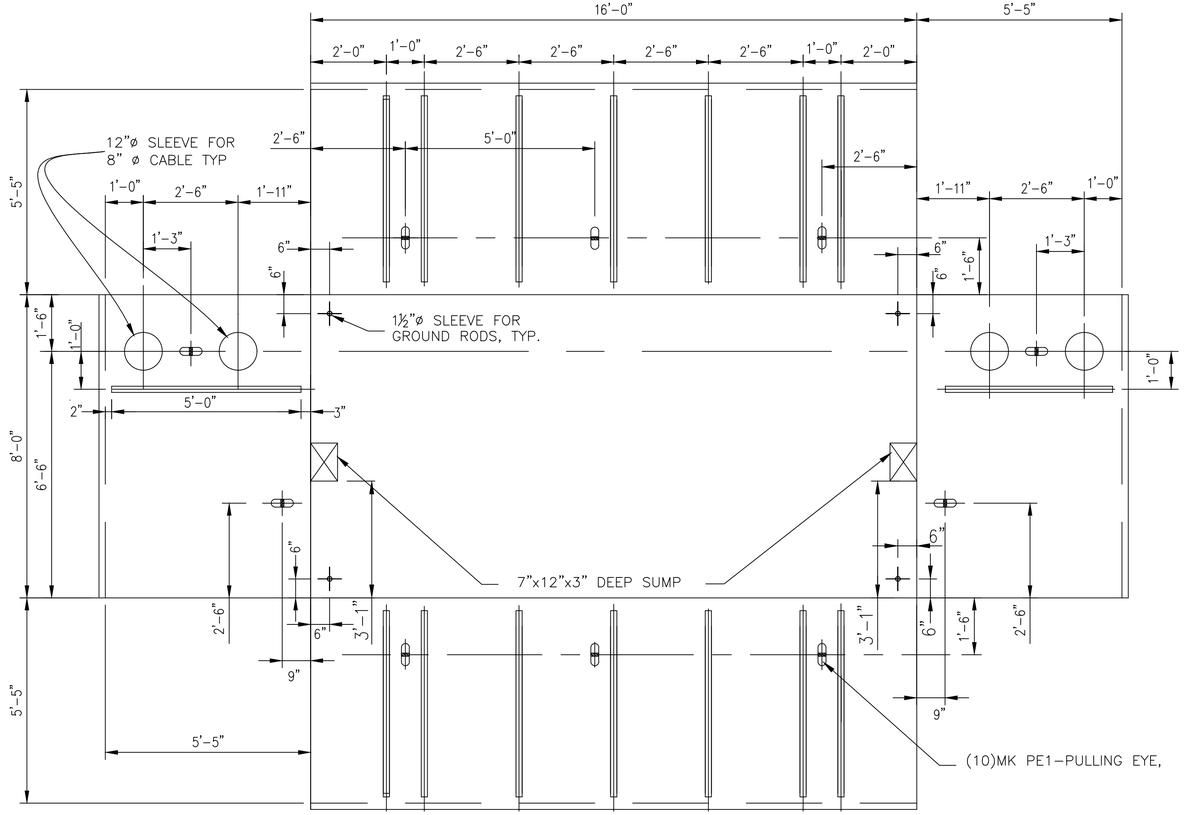
SYSTEM GRID NUMBER | CABINET NO. | FOLDER NO.

Figure 5-5

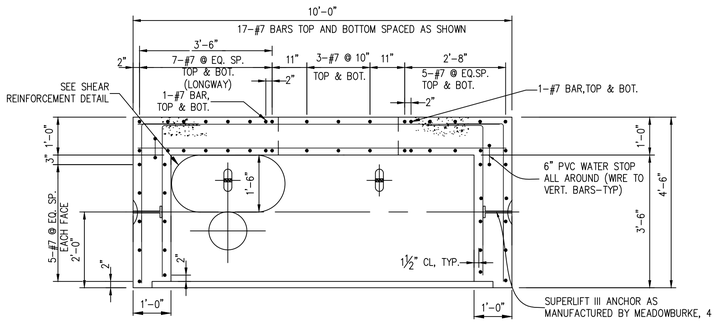
Typical Two-Piece Splice Vault



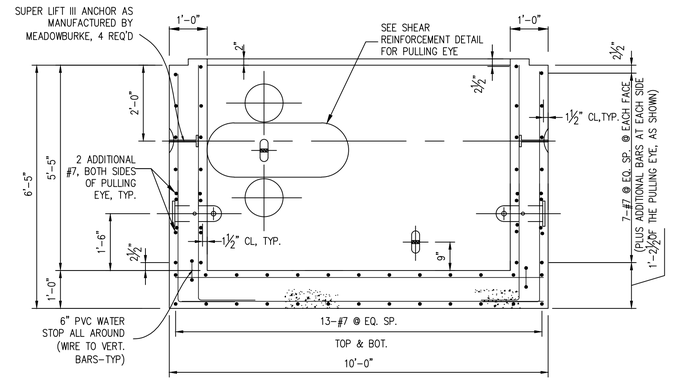
TYPICAL TWO PIECE SPLICE VAULT TOP HALF



TYPICAL TWO PIECESPLICE VAULT BOTTOM HALF



TYPICAL TWO PIECE SPLICE TOP HALF
FRONT ELEVATION VIEW



TYPICAL TWO PIECE SPLICE VAULE BOTTOM
HALF FRONT ELEVATION VIEW

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SYOSSET TO OAKWOOD ARTICLE VII
138–kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138–kV TRANSMISSION LINE
TYPICAL 138–kV TWO PIECE SPLICE VAULT

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

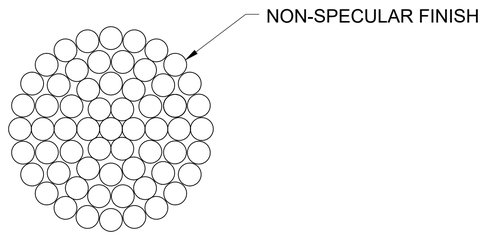
SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
F114509	BWAxx–FU–xxxxxxx	000

SYSTEM GRID NUMBER | CABINET NO. | FOLDER NO.

Figure 5-6

Typical Overhead Conductor Cross Section



2300 KCMIL 61W AAC "PIGWEED" CROSS SECTION

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Long Island Power Authority
WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-6
CONDUCTOR CROSS SECTION DRAWING

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

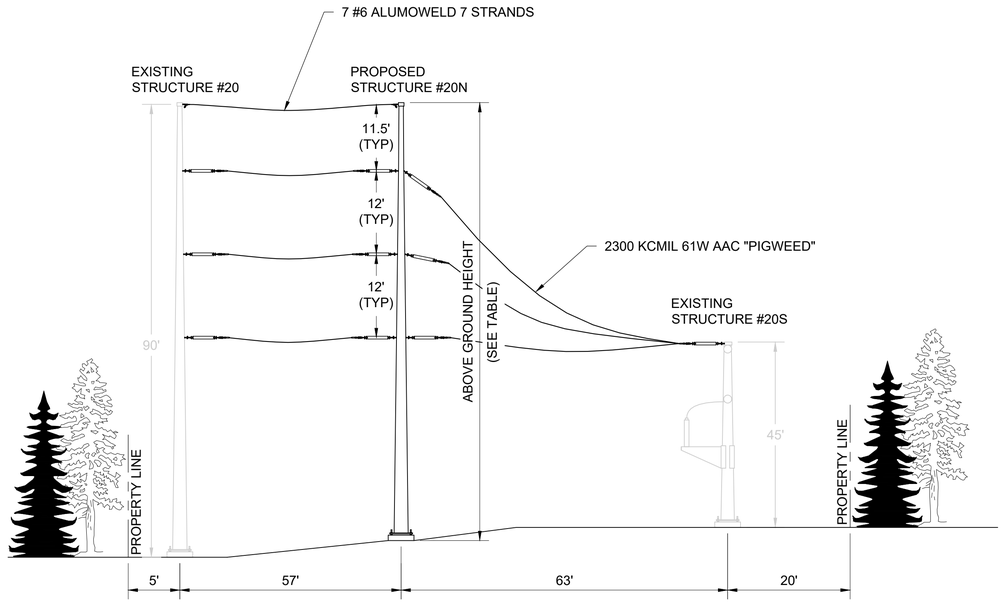
DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-7

Overhead Structure Cross Section Diagrams

LINE DATA TABLE				
ABOVE GROUND HEIGHT RANGE (FT)	STRUCTURE MATERIAL/COLOR/FINISH	INSULATOR TYPE	CONDUCTOR TYPE	SHIELD WIRE TYPE
75-110	SEE NOTE 1	POLYMER	2300 KCMIL 61W AAC "PIGWEED"	7 #6 ALUMOWELD 7 STRANDS



PROPOSED LAYOUT CONFIGURATION

LINE 675/676 - 138KV
LOOKING WEST / SOUTHWEST

NOTE:

1. THE STRUCTURE MATERIAL WILL HAVE EITHER A GALVANIZED OR NATINA RUSTIC BROWN FINISH AS DETERMINED IN THE EM&CP.

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WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-7A
ALIGNMENT CROSS SECTION DRAWING

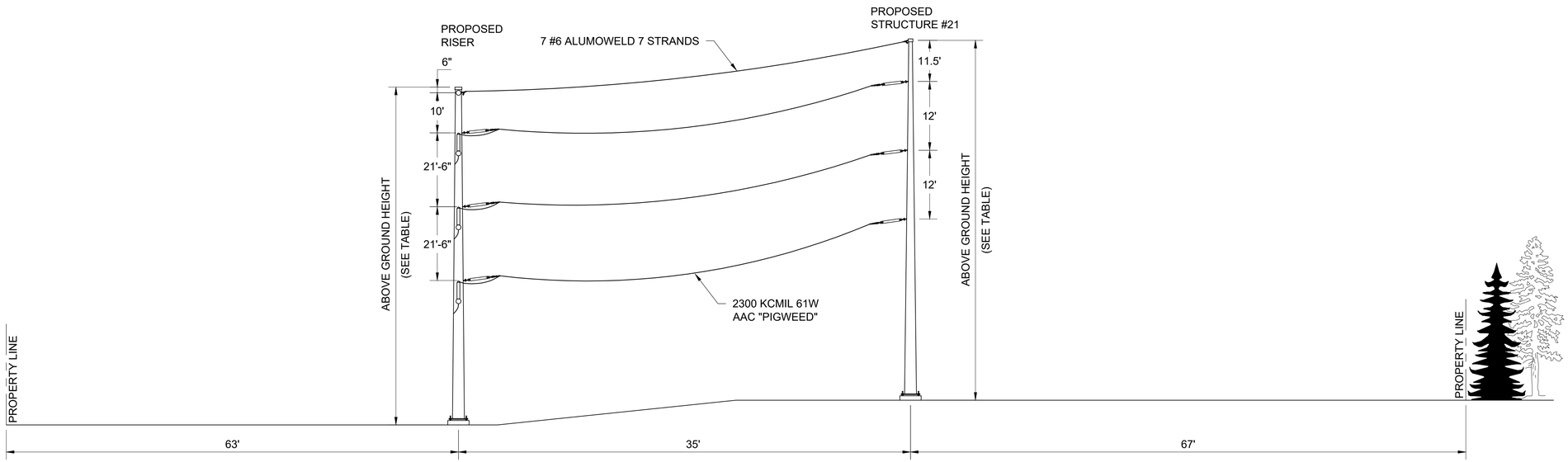
PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

LINE DATA TABLE				
ABOVE GROUND HEIGHT RANGE (FT)	STRUCTURE MATERIAL/COLOR/FINISH	INSULATOR TYPE	CONDUCTOR TYPE	SHIELD WIRE TYPE
75-110	SEE NOTE 1	POLYMER	2300 KCMIL 61W AAC "PIGWEED"	7 #6 ALUMOWELD 7 STRANDS



PROPOSED LAYOUT CONFIGURATION OPTION 1

LINE 676 - 138KV
LOOKING WEST / SOUTHWEST

NOTE:

1. THE STRUCTURE MATERIAL WILL HAVE EITHER A GALVANIZED OR NATINA RUSTIC BROWN FINISH AS DETERMINED IN THE EM&CP.

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BURNS McDONNELL

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Long Island Power Authority
WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

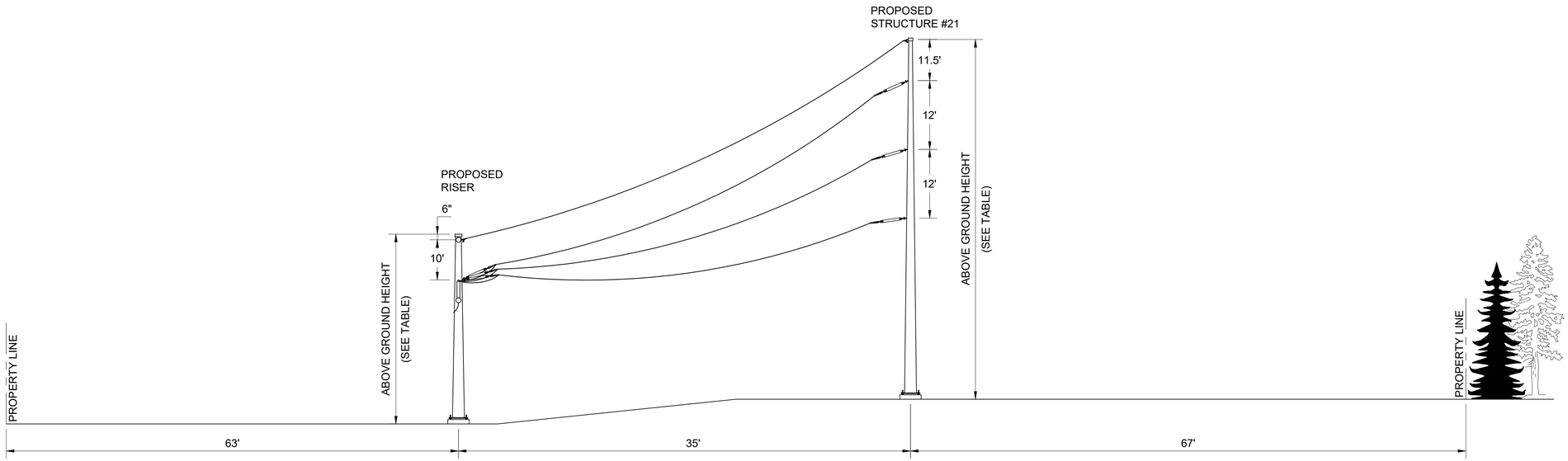
FIGURE 5-7B
ALIGNMENT CROSS SECTION DRAWING

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.



PROPOSED LAYOUT CONFIGURATION OPTION 2

LINE 676 - 138KV
LOOKING WEST / SOUTHWEST

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
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Long Island Power Authority
WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-7C
ALIGNMENT CROSS SECTION DRAWING

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

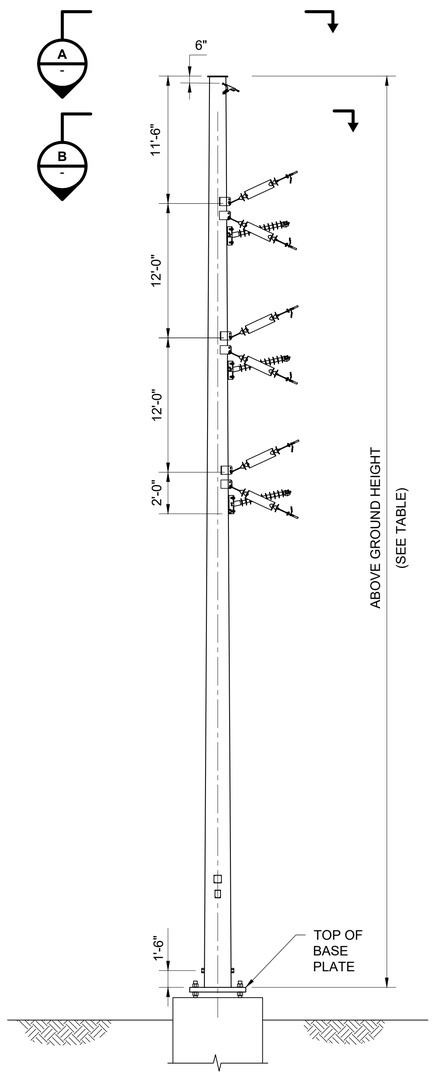
SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
Fxxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

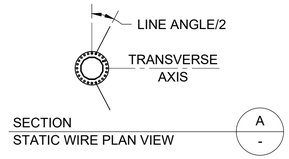
Figure 5-8

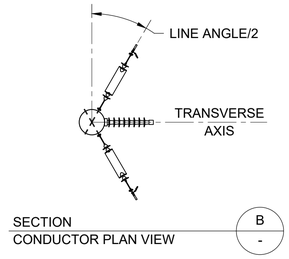
Typical Overhead Structure Details



PROPOSED STRUCTURE CONFIGURATION

LINE 676 - 138KV
LOOKING WEST / SOUTHWEST





LINE DATA TABLE				
ABOVE GROUND HEIGHT RANGE (FT)	STRUCTURE MATERIAL/COLOR/FINISH	INSULATOR TYPE	CONDUCTOR TYPE	SHIELD WIRE TYPE
75-110	SEE NOTE 1	POLYMER	2300 KCMIL 61W AAC "PIGWEED"	7 #6 ALUMOWELD 7 STRANDS

NOTE:

1. THE STRUCTURE MATERIAL WILL HAVE EITHER A GALVANIZED OR NATINA RUSTIC BROWN FINISH AS DETERMINED IN THE EM&CP.

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PROJ. NO. -

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Long Island Power Authority
WOODBURY ROAD TERMINAL

138KV TRANSMISSION LINE

FIGURE 5-8
STRUCTURE CROSS SECTION DRAWING

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

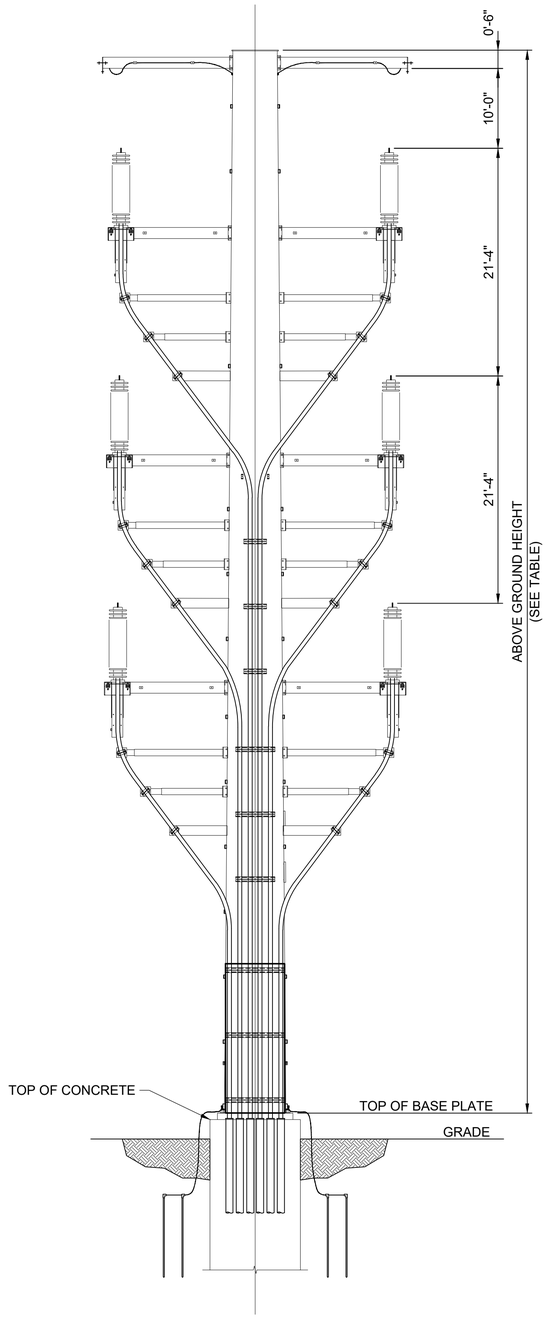
DRAWING NO.	SMART NO.	REVISION
Fxxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

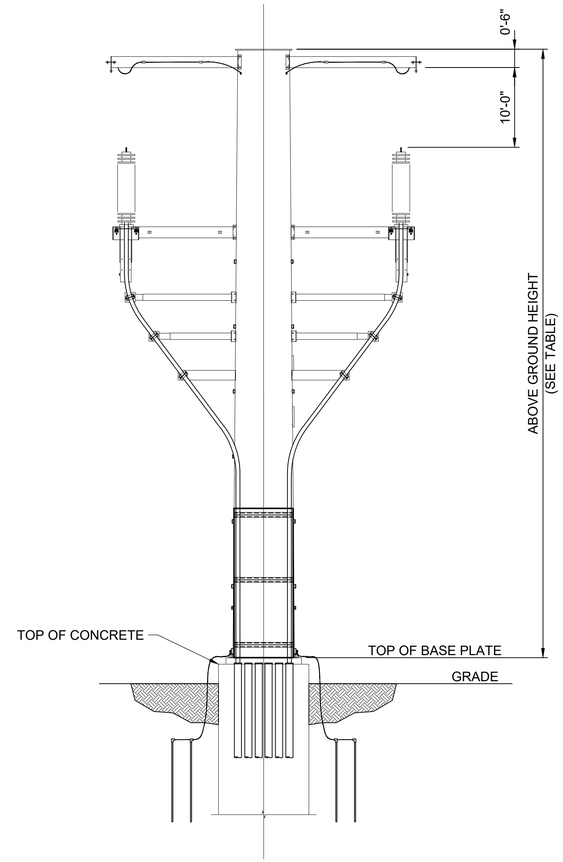
Figure 5-9

Typical Riser Pole Structure

LINE DATA TABLE				
ABOVE GROUND HEIGHT RANGE (FT)	STRUCTURE MATERIAL/COLOR/FINISH	INSULATOR TYPE	CONDUCTOR TYPE	SHIELD WIRE TYPE
75-110	SEE NOTE 1	POYMER	2300 KCMIL 61W AAC "PIGWEED"	7 #6 ALUMOWELD 7 STRANDS



SINGLE POLE RISER POLE



THREE POLE RISER POLE
SINGLE STRUCTURE

NOTE:
1. THE STRUCTURE MATERIAL WILL HAVE EITHER A GALVANIZED OR NATINA RUSTIC BROWN FINISH AS DETERMINED IN THE EM&CP.

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/17/2025	ARTICLE VII	JCB	JAC	DAG

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Burns & McDonnell EGS
PROJ. NO. 178873

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Long Island Power Authority
SYOSSET TO OAKWOOD ARTICLE VII
138-kV TRANSMISSION LINE

OAKWOOD SUBSTATION
138-kV TRANSMISSION LINE
TYPICAL RISER POLE

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

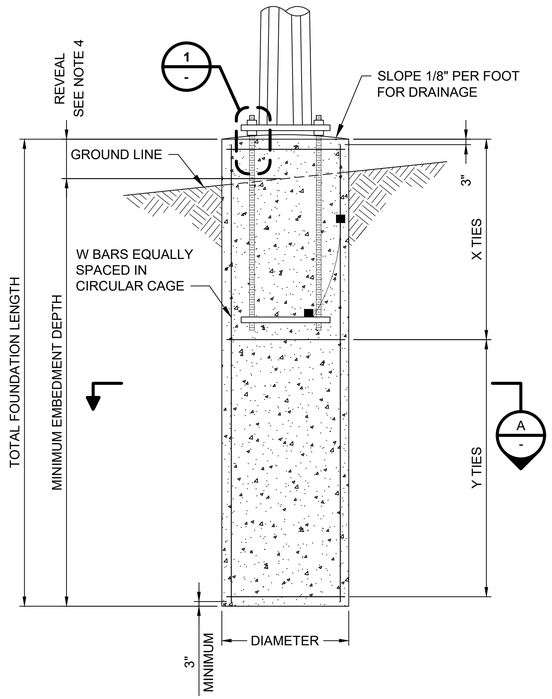
SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
F114510	BWAxx-FU-xxxxxxx	000

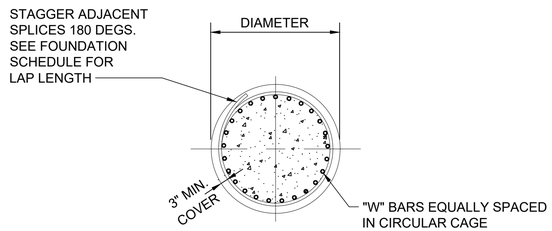
SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-10A

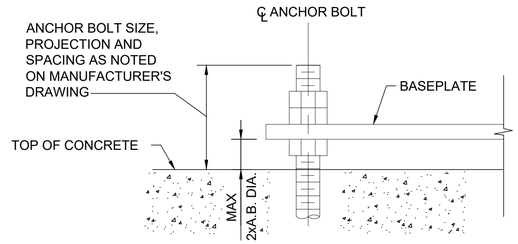
Typical Drilled Pier Foundation



DRILLED SHAFT FOUNDATION



SECTION A
REINFORCEMENT CAGE -
SINGLE BARS



DETAIL 1
TYPICAL ANCHOR BOLT -

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Long Island Power Authority
WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-10A
TYPICAL REINFORCED CONCRETE
CAISSON FOUNDATION FOR GALVANIZED STEEL POLE

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

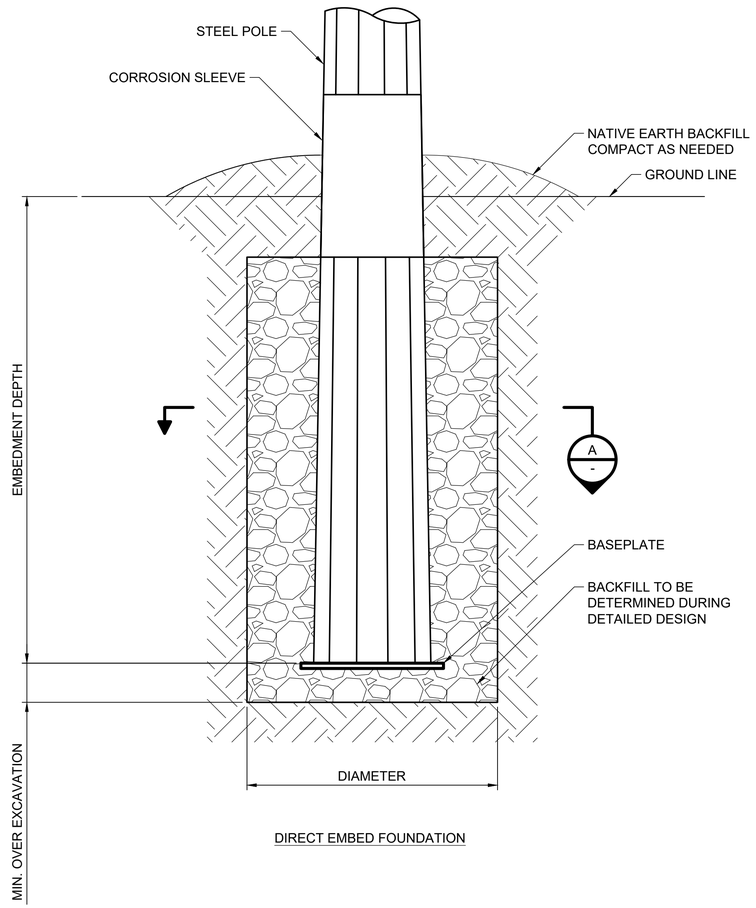
SCALE	VENDOR DWG. NO.
NONE	

DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

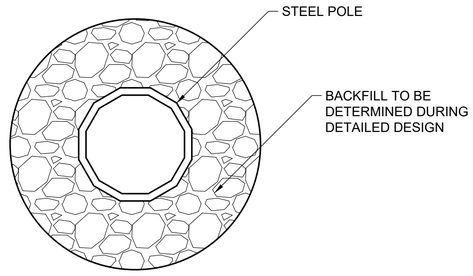
SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-10B

Typical Direct Imbed Foundation



DIRECT EMBED FOUNDATION



SECTION A
DIRECT EMBED PLAN VIEW -

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WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-10B
TYPICAL DIRECT EMBED
FOUNDATION FOR STEEL POLE

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE: NONE
VENDOR DWG. NO.:
DRAWING NO.: Fxxxxxx
SMART NO.: BWAxx-FU-xxxxxxx
REVISION: 000
SYSTEM GRID NUMBER:
CABINET NO.:
FOLDER NO.:

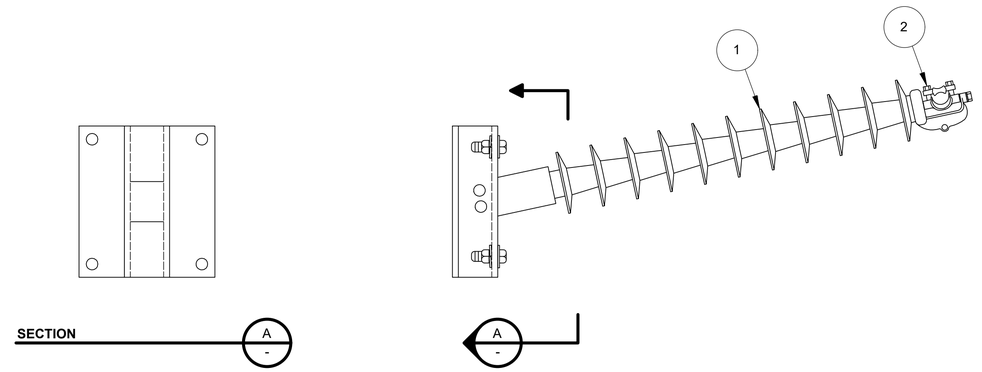
Figure 5-11

Typical Insulator Hardware Details

ITEM	DESCRIPTION
1	ANCHOR SHACKLE
2	POLYMER INSULATOR, Y CLEVIS-BALL
3	SOCKET-Y CLEVIS
4	COMPRESSION DEADEND

138kV DEADEND ASSEMBLY

ITEM	DESCRIPTION
1	POLYMER POST INSULATOR, CLAMP TOP
2	TRUNNION CLAMP



138kV JUMPER ASSEMBLY

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Long Island Power Authority
WOODBURY TERMINAL SOUTH

138KV TRANSMISSION LINE

FIGURE 5-11
INSULATOR HARDWARE DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

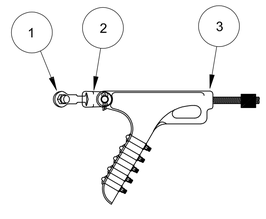
DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-12

Typical Shield Wire Hardware Details

ITEM	DESCRIPTION
1	Y CLEVIS-BALL
2	SOCKET-EYE
3	QUADRANT STRAIN CLAMP



SHIELD WIRE DEADEND CLAMP

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WOODBURY TERMINAL SOUTH

138KV TRANSMISSION LINE

FIGURE 5-12
SHEILD WIRE HARDWARE DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NONE	

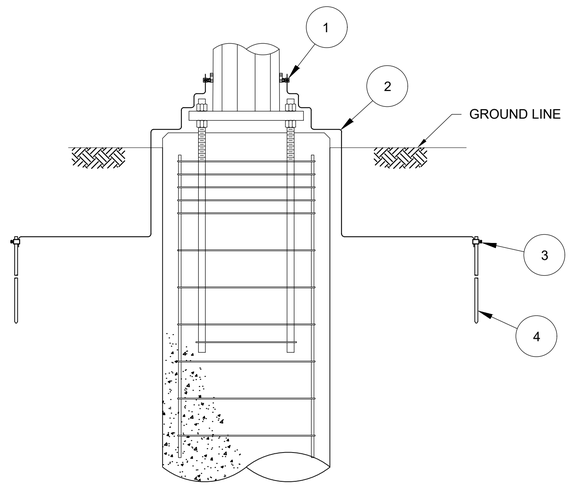
DRAWING NO.	SMART NO.	REVISION
Fxxxxxx	BWAxx-FU-xxxxxxx	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Figure 5-13

Typical Grounding Details

ITEM	DESCRIPTION
1	GROUNDING CLAMP, BRONZE
2	COPPER WIRE
3	GROUND ROD CLAMP, BRONZE
4	GROUND ROD, COPPER



GROUNDING FOUNDATION - MOUNTED STEEL POLES

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
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Long Island Power Authority
WOODBURY TERMINAL SOUTH
138KV TRANSMISSION LINE

FIGURE 5-13
GROUNDING DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE: NONE
VENDOR DWG. NO.

DRAWING NO.: Fxxxxxx
SMART NO.: BWAxx-FU-xxxxxxx
REVISION: 000

SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.