

November 22, 2016

Ms. Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Petition No. 1240 – Wallingford Energy, LLC on behalf of the Town of Wallingford
Electric Division: Minor Changes to Transmission Structure 1640-2

Dear Ms. Bachman:

Pursuant to the condition of approval issued October 25, 2016 by the Council for the minor project changes to the Petition for the above-referenced site; Wallingford Energy, LLC (“WE”) has included herein the structural drawing for structure number 1640-2.

Additionally, pursuant to Section 16-50j-62(b)(1) of the Regulations of Connecticut State Agencies and in accordance with the Petition for Declaratory Ruling approved on August 4, 2016, for the above referenced Project, WE hereby provides written notification to the Connecticut Siting Council that structure 1640-2 has been relocated slightly west of the position reflected in the correspondence dated October 20, 2016 as a result of the Town of Wallingford’s plans for future use of the land in this vicinity. As may be observed in the enclosed routing map this a marginal shift that does not require that any additional property rights be obtained. Given the relatively minor adjustment of only a single structure location, impacts to the calculated EMF levels will be minimal.

Finally, please be advised that based on sub-surface conditions in the vicinity of structures 1640-2 and 1640-4, WE will be seeking a landfill disruption permit from the Department of Energy and Environmental Protection. Note that these structures are not located within the boundaries of the closed Wallingford Landfill; however, preliminary soil borings revealed the presence of debris. Accordingly, DEEP requires that a permit be obtained prior to commencing construction of these structures. To further minimize any potential environmental impact from work in the vicinity of the now closed landfill WE has prepared a soil management plan, based

on pre-characterization of soils via in-situ testing, to facilitate the proper management and disposal of excavated material, adhering to all applicable regulatory criteria.

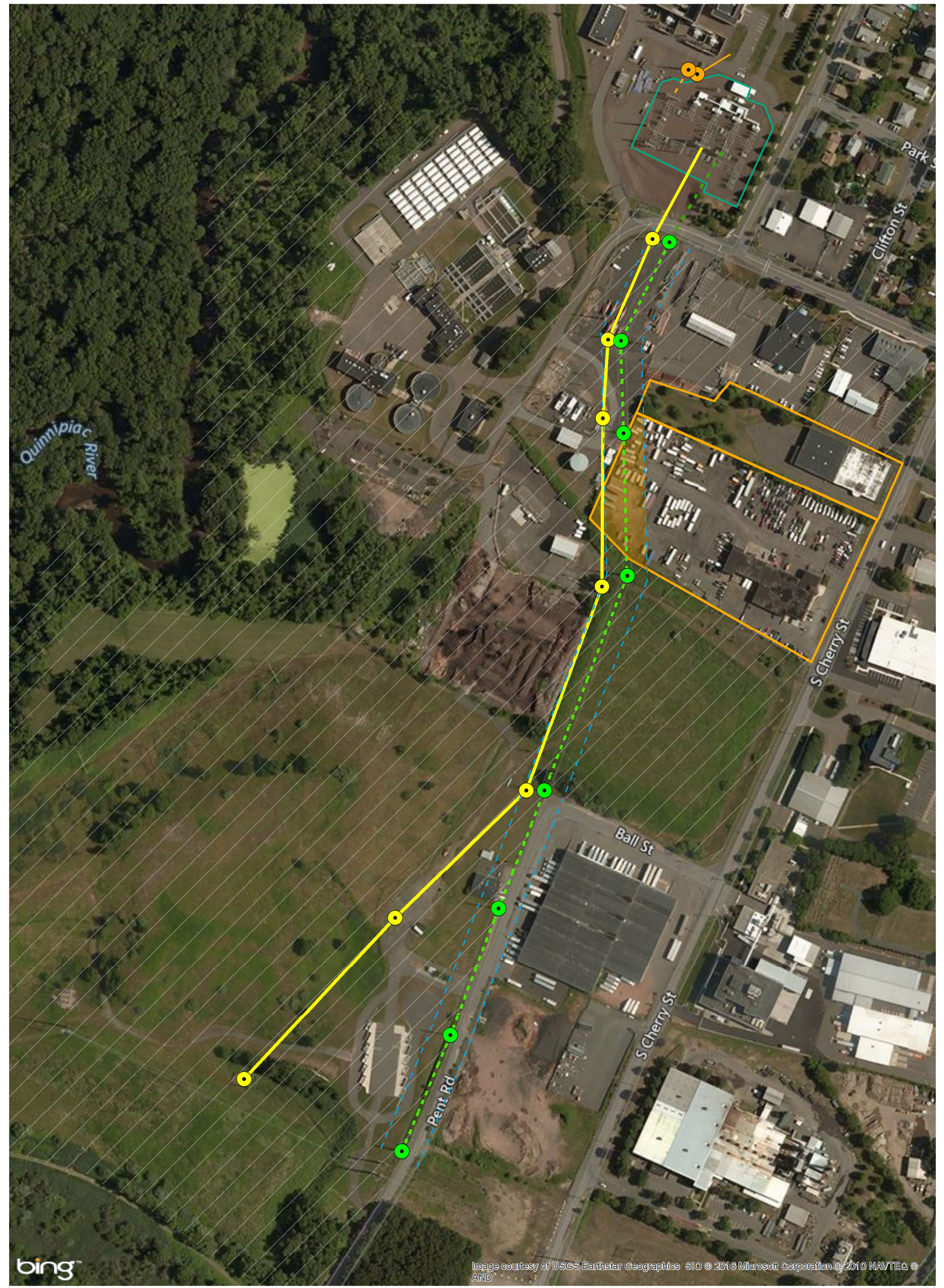
If you have any additional questions or wish to discuss please feel free to contact me at (636) 532-2200 or bpollpeter@lspower.com.

Sincerely,

A handwritten signature in dark ink, appearing to read "B. Pollpeter", with a stylized, cursive script.

Brandon Pollpeter

Enclosures (2) – Transmission Route Map; 1640-2 Structure Drawing



bing™ Image courtesy of USGS Earthstar Geographics SIO © 2016 Microsoft Corporation © 2010 NAVTEQ © AND

Legend

Existing ROW	Private Property
Line 1630 (Existing)	Town Property
Line 1640 (New)	New Easement
Line 1305 (New)	Substation
Line 1305 (Existing)	

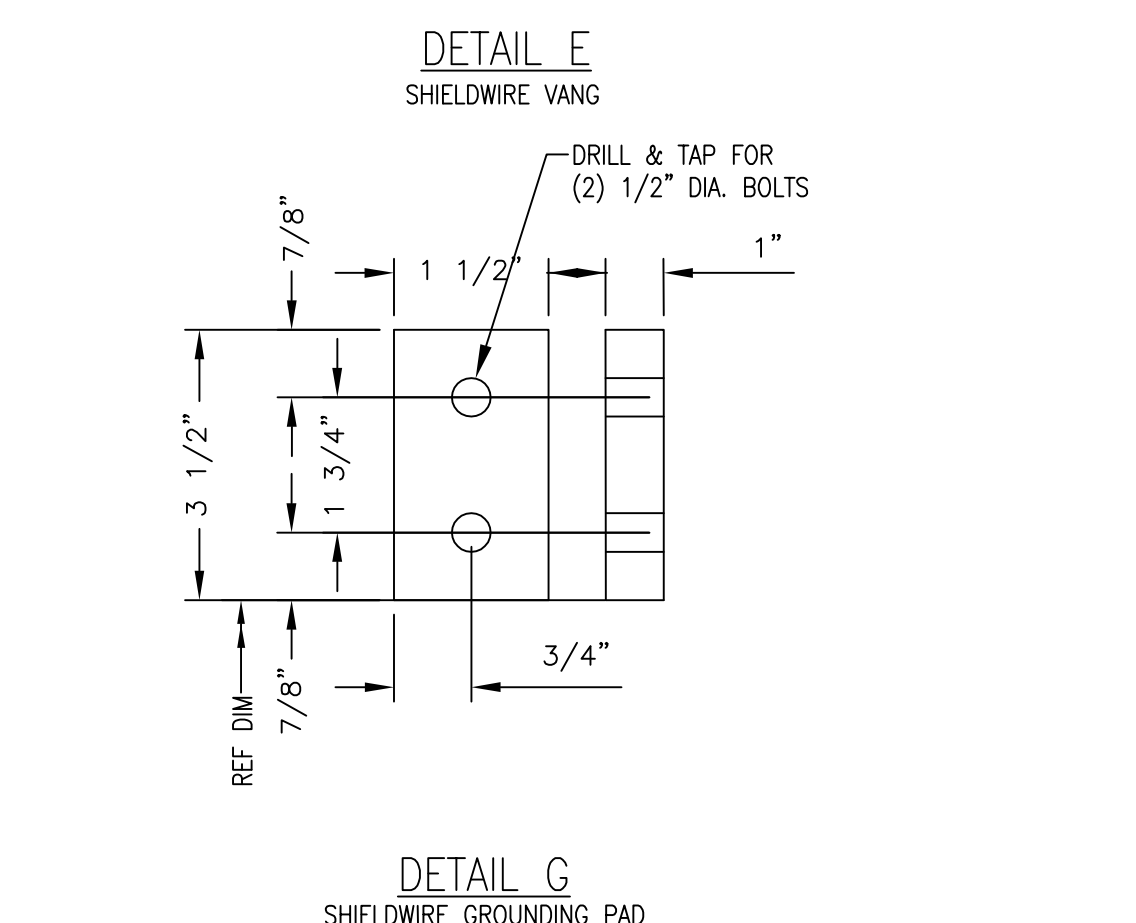
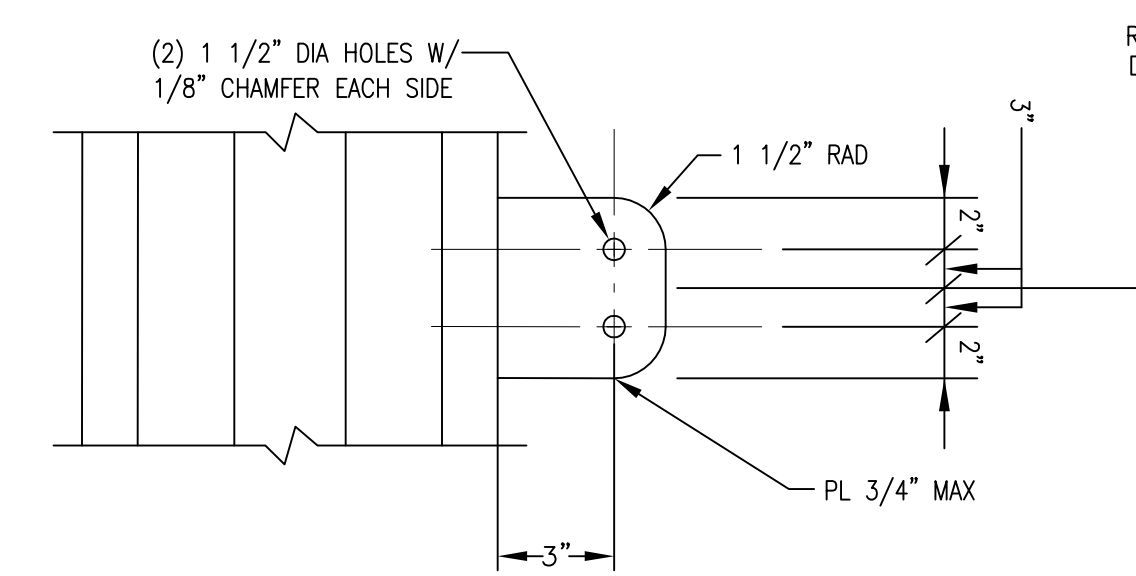
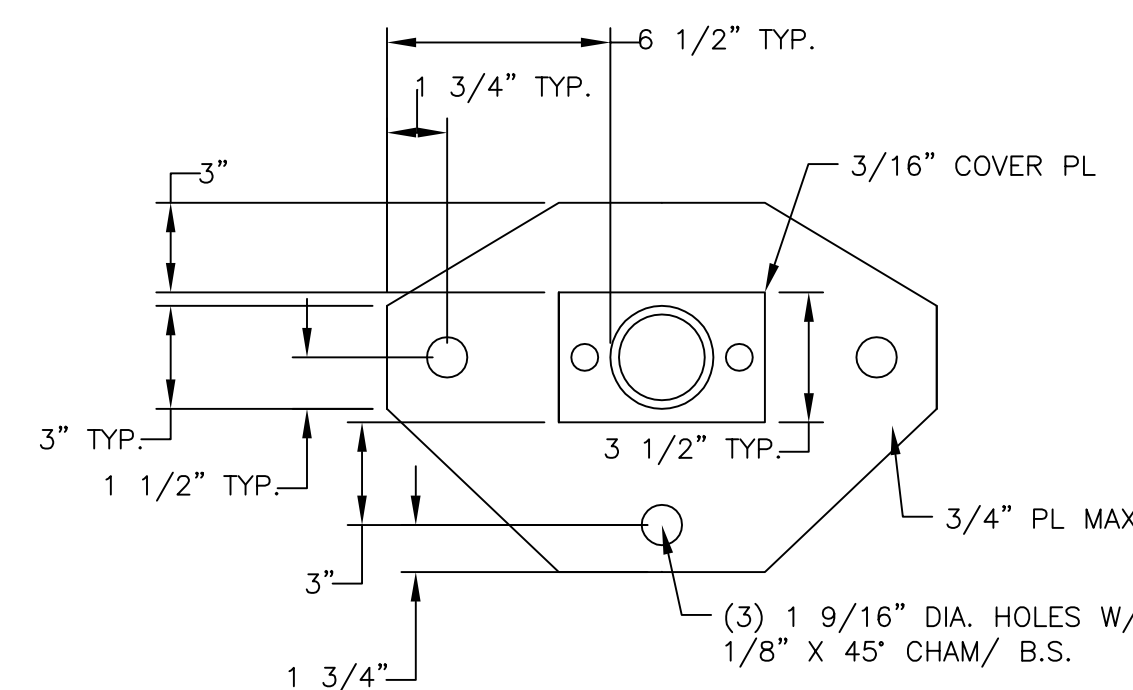
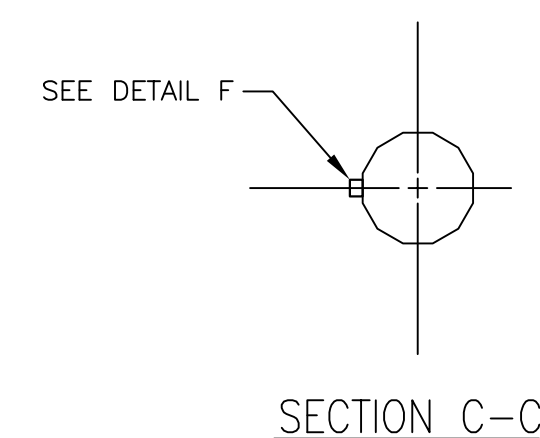
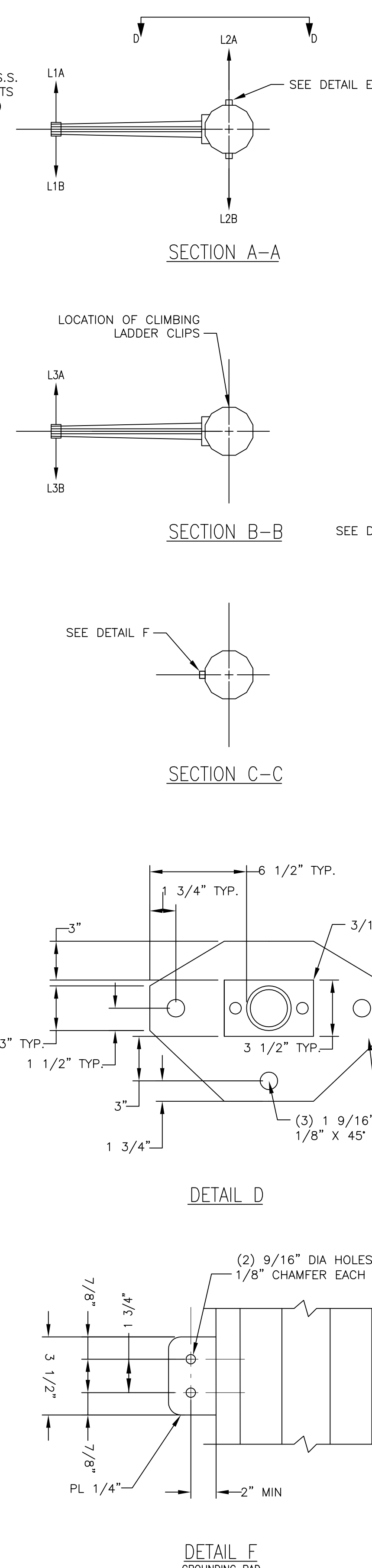
Wallingford Energy, LLC

Transmission Route

1:3,500

0 200 400 600

Feet



DESIGN APPLICATION

MECHANICAL LOADING CRITERIA

SE 1	- NESC 250B HEAVY, 4 PSF WIND ON STRUCTURE AND WIRES, 0.5" RADIAL ICE, 0° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 2.50, LONGITUDINAL OLF = 1.65, VERTICAL OLF = 1.50
SE 2	- NESC 250C EXTREME WIND, 31 PSF WIND ON STRUCTURE AND WIRES, 0" RADIAL ICE, 60° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 1.0, LONGITUDINAL OLF = 1.0, VERTICAL OLF = 1.0
SE 3	- NESC 250D WIND & ICE, 6.4 PSF WIND ON STRUCTURE AND WIRES, 0.75" RADIAL ICE, 15° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 1.0, LONGITUDINAL OLF = 1.0, VERTICAL OLF = 1.0
SE 4	- EXTREME ICE, 0 PSF WIND ON STRUCTURE AND WIRES, 1.5" RADIAL ICE, 30° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 1.1, LONGITUDINAL OLF = 1.1, VERTICAL OLF = 1.1
SE 5	- UNBALANCED ICE, 0 PSF WIND ON STRUCTURE AND WIRES, 1.5" RADIAL ICE, 30° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 1.0, LONGITUDINAL OLF = 1.0, VERTICAL OLF = 1.0
SE 6	- DEFLECTION, 0 PSF WIND ON STRUCTURE AND WIRES, 0" RADIAL ICE, 60° F, INITIAL TENSIONS, TRANSVERSE WIND OLF = 1.0, LONGITUDINAL OLF = 1.0, VERTICAL OLF = 1.0

STRUCTURE TABLE			
STRUCTURE NO.	HEIGHT	QUANTITY	Σ
1640-2	120'-0"	1	0'

MATERIAL LIST				
ITEM	DESCRIPTION	ASSEMBLY	QUANTITY	DRAWING
1	3/8" EHS SHIELD WIRE DEADEND ASSEMBLY	SW2	1	STRD-009
2	3/8" EHS SHIELD WIRE SUSPENSION ASSEMBLY	SW1	1	STRD-009
3	115KV SUSPENSION INSULATOR ASSEMBLY	TAT-11-23834	3	CC-23834
4	STEEL POLE GROUNDING ASSEMBLY	G1	1	STRD-009

NOTES

1. LADDER CLIPS SHALL BE INSTALLED FROM BASE PLATE TO ONE FOOT BELOW TOP OF POLE ON FLAT INDICATED ON DRAWING.
2. UNITS OF ENTRIES IN THE LOADING TABLE ARE AS FOLLOWS UNLESS NOTED OTHERWISE: LENGTHS – FEET, WIRE LOADS – LBS, WIND PRESSURE – LBS PER SQ FOOT, ANGLES – DEGREES.
3. THE LOADS IN THE LOADING TABLE ARE ULTIMATE LOADS AND INCLUDE ALL OVERLOAD FACTORS.
4. THE VERTICAL LOADS (V) INCLUDE ONLY DEAD WEIGHT OF THE CONDUCTOR, ICE ON THE CONDUCTOR, AND WEIGHT OF INSULATORS. THE DEAD WEIGHT OF THE STRUCTURE SHALL BE CALCULATED BY THE FABRICATOR AND USED IN THE DESIGN. THE OVERLOAD FACTOR APPLIED TO THE DEAD WEIGHT SHALL BE AS FOLLOWS: CASE 1 – 1.50, CASE 2, 3, 5, & 6 – 1.00, CASE 4 – 1.10.
5. THE STRUCTURE SHALL BE DESIGNED FOR A 31 PSF WIND ON THE STRUCTURE ONLY WITH NO WIRES ATTACHED. ALL OLF'S = 1.0.
6. FOR STRUCTURAL DESIGN, THE LONGITUDINAL (L), TRANSVERSE (T) AND VERTICAL (V) LOADS SHALL BE CONSIDERED TO ACT SIMULTANEOUSLY WITH WIND AND THE DEAD WEIGHT OF THE STRUCTURE.
7. ALL STEEL MATERIALS SHALL BE COATED IN ACCORDANCE WITH SPECIFICATION 191301-16881.5
8. THE ANCHOR BOLT CAGES SHALL HAVE A MAXIMUM BOLT CIRCLE DIAMETER OF 42 INCHES OR LESS.
9. GROUNDING NUTS TO BE LOCATED ON SAME FLAT AS CONDUCTOR OR SHIELDWIRE ARM.
10. STRUCTURE DRAWING AND DETAILS ARE NOT TO SCALE.