



Village of South Lebanon
99 N. High Street, South Lebanon, Ohio 45065
513-494-2296
fax: 513-494-1656
www.southlebanonohio.org

MEMORANDUM

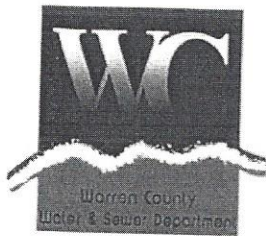
To: Mayor & Village Council
CC: Bruce McGary, Village Solicitor
From: Jerry Haddix, Village Administrator
Date: October 14, 2015
Subject: Warren County Water Dept. Radio Tower

The Warren County Water & Sewer Department is requesting to install an 80' tower at the Sod Farm Wellfield on the east side of State Route 48 between Mason-Morrow-Millgrove Road and the River. Also, they are requesting the Village to waive any and all application and/or review fees.. The sole purpose of this tower is to transmit data from the well via a point-to-point connection to the County's tower located in Zoar within the Village.

1. This tower will only be used for this exclusive use. Any future co-location of antennas on this tower would require approval from the Village Council;
2. The tower fall zone would be completely on Warren County property; and
3. No residential structures are in the vicinity. The proposed 80' tower would be transmitting a low power, high frequency signal to a point 200' on the County's Zoar tower.

Recommendation:

Request a motion to waive all fees associated with said tower construction and approve a special use permit for said tower erection per the attached documents provided by the Warren County Water & Sewer Department.



WARREN COUNTY WATER & SEWER DEPARTMENT

CHRIS G. BRAUSCH, P.E.
COUNTY SANITARY ENGINEER

October 12, 2015

Jerry Haddix
Village Administrator
Village of South Lebanon
99 N. High Street
South Lebanon, Ohio 45065

Re: Permit to Install Radio Tower on Warren County Sod Farm Well Field

Dear Mr. Haddix:

Please consider this letter as support for the attached Zoning Application for the installation of a single radio tower monopole for the sole purpose of communicating water and sewer data from the well field to the wireless Warren County Network antenna located off St Rt 22 & 3 near Zoar.

Per the list of items in your email date 10/12/2015 (copy attached, Attachment No.1) we submit the following:

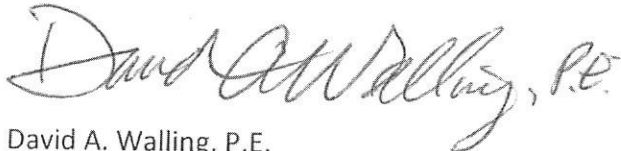
- 1.The proposed tower will support and is intended for only one point-to-point communication connection from the Sod Farm Well field to the Warren County Telecom Zoar Radio Tower (see Attachment No.2). We intend this tower to be for this singular use only and would prefer that no other use be permitted. Any other use or co-location sought in the future shall only be by permit and authorization from the South Lebanon Village Council.
- 2.The proposed tower location is situated such as to provide for fallzone protection for the State Route 48 thoroughfare. The entire fallzone is on Warren County property and outside the State Route 48 ODOT Thoroughfare Right of Way (see Attachment No.3). As detailed in an earlier submittal, the proposed monopole tower will extend 80 feet above the ground elevation at the base (proposed El. 629). One antenna and reflector are proposed for this communications link (see Attachment No.4).

We respectfully request waiver of application and other fees associated with South Lebanon approval of this application and issuance of the Zoning Permit. This is an intergovernmental issue and we are not using this installation for generation of any revenues, only internal data transmissions.

Our contractor is prepared to order this equipment but lead times for construction of the tower pieces is eight weeks. We are attempting to get this radio tower constructed before the end of the year when our SCADA Controls Manager is retiring. Timing on your approval is very important. We apologize for not getting this application to you in a more timely fashion.

If you have any questions about this issue please contact me at the numbers or address included herein.

Sincerely,

A handwritten signature in cursive script that reads "David A. Walling, P.E.".

David A. Walling, P.E.
Deputy Sanitary Engineer

ec: Chris G. Brausch, P.E.
File

SOUTH LEBANON SPECIAL USE ZONING APPLICATION

This is to certify that:

Applicant's Name WARREN COUNTY WATER & SEWER DEPARTMENT

Street Address 409 Justice Drive

City Lebanon State OH Zip 45036

Phone 513-925-1377 Fax 513-925-2995

Has made application on 10-06-2015 to the Village of South Lebanon for a Special Use Zoning Permit. Further, it is certified that the use listed below, and as shown on the plat and plans submitted herewith, conforms to the applicable provisions of the Village of South Lebanon Zoning Ordinance No. 2001-13.

Project Information:

Owners Name (if different from above) Warren County Board of County Commissioners

Street Address (if different from above) 871 St Rt 48

City South Lebanon State OH Zip 45065

Phone 513-925-1250 Fax 513-925-2999

Zone _____ Lot No. _____ Section _____

Range _____ Parcel 12011760010

Zoning Certificate Type

Permitted Use ()	Variance ()	PUD ()
Temporary Use ()	Conditional Use ()	Substantially Similar Use ()
Flood Plain Yes No	Flood Certificate Elevation _____	

SPECIAL NOTES ON CERTIFICATE: _____

Signed _____ Fee _____

Approved By: _____ Date: _____

A building permit must be obtained from the Warren County Building Department prior to commencing work.

Walling, Dave

From: Jerry Haddix [jhaddix@southlebanonohio.org]
Sent: Monday, October 12, 2015 12:35 PM
To: Walling, Dave
Cc: Brausch, Chris G.
Subject: Radio tower

Dave,

Per our conversation today re: the proposed radio tower the Sod Farm Wellfield, here is a list of items that should be included in a letter to the Village:

- Tower is solely for a point-to-point communication connection from the wellfield to the County's radio antenna in the Zoar area;
- Fallzone is all within Warren County property ;
- No other cellphone transmitters or devices will be co-located on tower without being approved by the Village;
- Request to waive any and all Village permit fees relating to this tower;
- Reason(s) why time is of the essence.

Let me know if you have any questions. Thanks.

Jerry Haddix
Village Administrator
Village of South Lebanon
99 N. High Street
South Lebanon, Ohio 45065
(513) 494-2296
(513) 494-1656 Fax
(513) 494-4147 Cell
www.southlebanonohio.org

WARREN COUNTY

SOD FARM WELL FIELD

CONTROL BUILDING SITE

Proposed Tower Location 

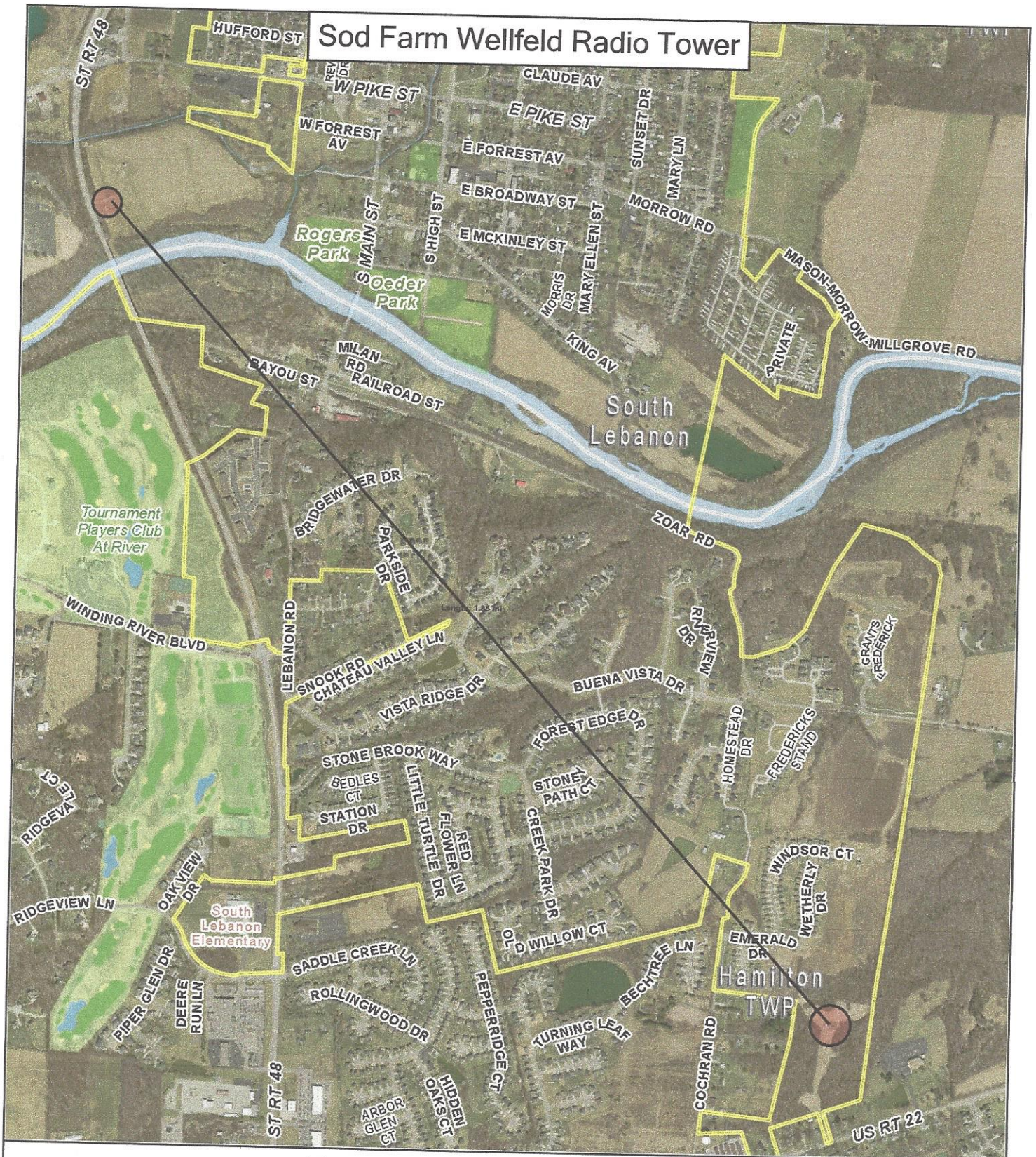
Approximately 4 ft off fence
inside the secure area

Tower height above grade ~ 80 ft

SIDWELL: 12011760010 ACCT: 6810179

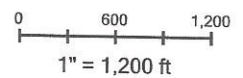


Sod Farm Wellfield Radio Tower



Warren County Legend

	Interstate		County Boundary		Overpass Line		School Line		Township & Range
	US Route		Auditors Tract Line		Parcel Line		Section Line		Tract Line
	State Route		Civil Township Line		ROW Unknown Width		Subdivision Limit		VMS Line
	Local Road		Corporate Line		Road ROW		Subdivision Lot Line		Vacated Road Line



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WARREN COUNTY

SOD FARM WELL FIELD

CONTROL BUILDING SITE

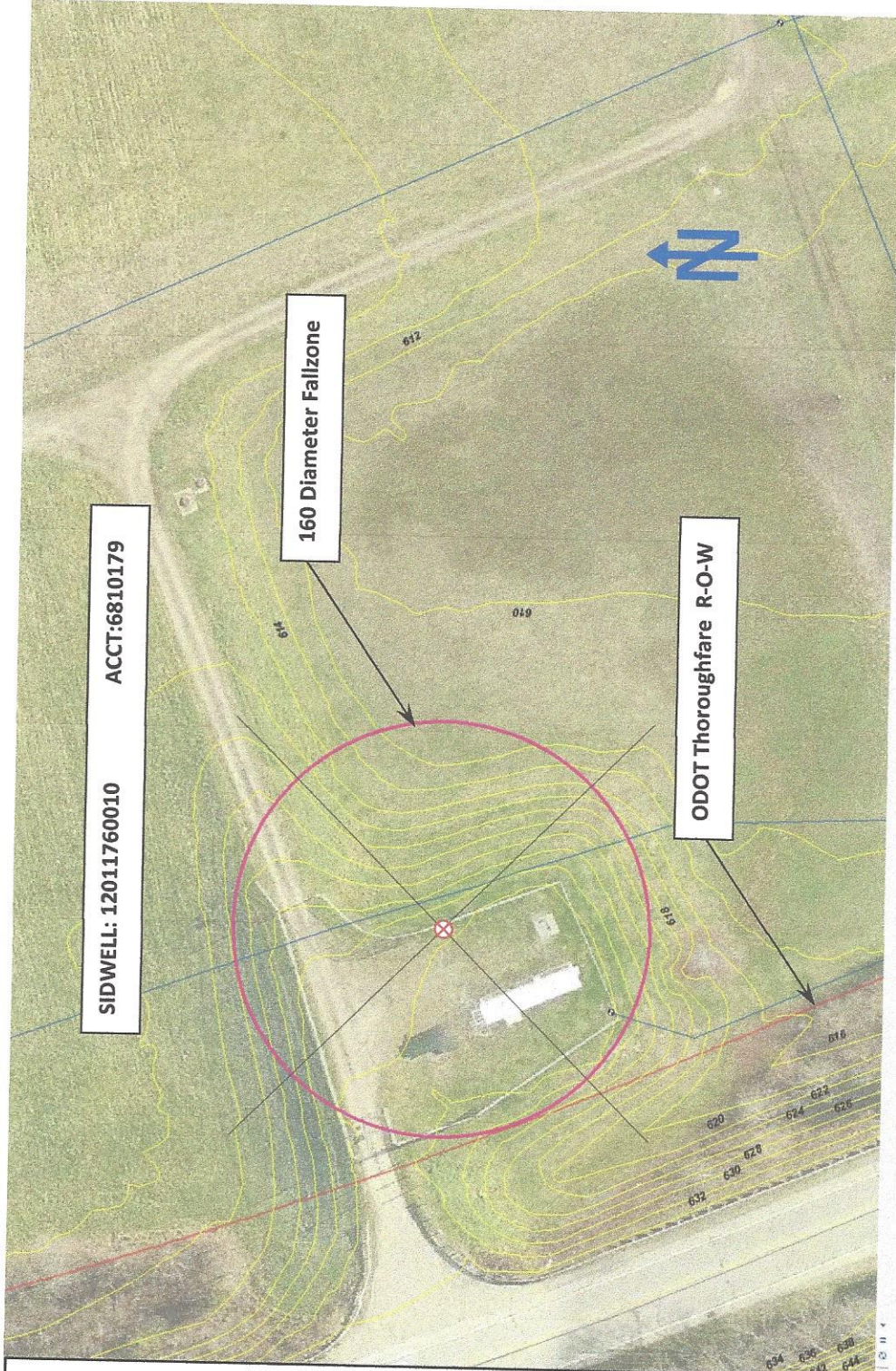
Proposed Tower Location 

Approximately 4 ft off fence
inside the secure area

Tower height above grade ~ 80 ft

Elevation of Base: El. 629

ATTACHMENT No. 3



PTP 100

The Cambium Networks PTP 100 Series of Point-to-Point wireless Ethernet bridges provide a low-cost-of-entry solution for deployment, expansion and extension of broadband communications networks. The PTP 100 Series also offers the scalability of simple, affordable software key- based license upgrades for additional performance and capacity as networks grow.

An organization can begin with a system that delivers 2 Mbps of aggregate throughput at one of the lowest initial costs in the industry. When upgrades are needed, the user simply purchases software license keys that allow incremental over-the-air upgrades to 4 Mbps and to 7 Mbps aggregate data rates. Licenses that deliver up to 14 Mbps are also available.

Cambium Networks provides exceptional wireless broadband connectivity solutions. With more than 3 million modules deployed in thousands of networks around the world, Cambium solutions are proven to provide cost effective, reliable data, voice and video connectivity.

SPECIFICATIONS

PRODUCT

MODEL NUMBER

2.4 GHz - 2400BHDD, 2400BH20DD
 5.1 GHz - 5202BHG, 5202BH20G
 5.2 GHz - 5200BHG, 5200BH20G
 5.4 GHz - 5400BH02G, 5400BHG, 5400BH20G
 5.8 GHz - 5700BH02G, 5700BHG, 5700BH20G

SPECTRUM

CHANNEL SPACING

2.4 GHz - Configurable on 2.5 MHz increments
 5 GHz - Configurable on 5 MHz increments

FREQUENCY RANGE

2.4 GHz - 2415 - 2457.5 MHz
 5.1 GHz - 5150 - 5350 MHz
 5.2 GHz - 5250 - 5350 MHz
 5.4 GHz - 5470 - 5725 MHz
 5.8 GHz - 5725 - 5850 MHz
 5.9 GHz - 5850 - 6050 MHz

CHANNEL WIDTH

20 MHz

INTERFACE

ETHERNET INTERFACE

10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant)

PROTOCOLS USED

IPv4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP, PPPoE

NETWORK MANAGEMENT

HTTP, TELNET, FTP, SNMPv2c

PERFORMANCE

MAXIMUM AGGREGATE THROUGHPUT

PTP110 - 2 Mbps
 PTP120 - 7 Mbps
 PTP130 - 14 Mbps

LATENCY

5 - 7 msec

VLAN

802.1Q with 802.1p Priority

MODULATION TYPE

2-level and 4-level Frequency Shift Keying (FSK)

CARRIER TO INTERFERENCE RATIO (C/I)

-3dB @ 2 level FSK, -10dB @ 4 Level FSK

ACCESS METHOD

Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)

SPECIFICATIONS

LINK BUDGET

ANTENNA BEAM WIDTH	3 dB antenna beam width 60 degrees, Azimuth and Elevation
ANTENNA GAIN	2.4 GHz - 8 dBi 5 GHz - 7 dBi
EIRP	2.4 GHz - Up to 33 dBm 5 GHz - Up to 30 dBm
SENSITIVITY (dBm typical)	-86 dBm @ 2 Level FSK, -79 dBm @ 4 Level FSK

PHYSICAL

CONNECTORIZED ANTENNA OPTION	5.4 GHz, 5.7 GHz
MEAN TIME BETWEEN FAILURE	> 40 years
TEMPERATURE	-40° F to +131° F (-40° C to +55° C)
WEIGHT	1 lb (.45 kg)
WIND SURVIVAL	118 miles/hr (190 km/hr)
DIMENSIONS (HxWxD)	30 x 9 x 9 cm (11.75" x 3" x 3")
MAXIMUM POWER CONSUMPTION	8 W
INPUT VOLTAGE	24 - 30 VDC

SECURITY

ENCRYPTION	DES, AES Optional FIPS 197 Certified – 5.1 and 5.9 GHz are DES only
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CERTIFICATIONS

CE	2.4 GHz - EN 300 328 5.4 GHz - EN 301 893 5.8 GHz - EN 302 502
INDUSTRY CANADA CERT	2.4 GHz - 109W-2400 5.2 GHz - 109W-5200 5.4 GHz - 109W-5400 5.8 GHz - 109W-5700G
FCC ID	2.4 GHz - ABZ89FC5808 5.2 GHz - ABZ89FC3789 5.4 GHz - ABZ89FT7623 5.8 GHz - ABZ89FT7630



Corporate Mission Statement:
 “We are committed to providing electrical construction services that strive to exceed customer expectations, maintain a safe work environment, and earn a reasonable profit.”

TO: Warren County Water & Sewer
406 Justice Drive
Lebanon, OH 45036

Attention: Dave Walling

Job: Warren County Misc Electrical Work

Location: Warren County, OH

Date: 09/21/15
LEE Job No.: 1015-5007
LEE P.O. No.:
Customer No.:

☒ Attached Herewith ☐ Under Separate Cover ☐ Letter
☒ Submittals ☐ Prints ☐ Change Order
☐ Shop Drawings ☐ Specifications ☐ Samples

REMARKS: _____

☐ Preliminary
☐ For Approval
☐ As Requested
☒ Return 1 Copies, With Approval OR Comments By ASAP.

☐ Approved - as Submitted
☐ Approved - as Noted
☐ Returned for Corrections

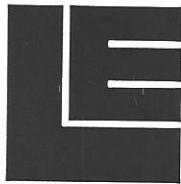
☐ Resubmit Copies for Approval
☐ Resubmit Copies for Distribution
☐ For Files and Distribution

☐ U.S. Mail
☐ Ground
☐ Faxed
☐ Hand Delivered

☐ Overnight
☒ E-mailed

CC	PRINTS	
<input type="checkbox"/>	<input type="checkbox"/>	<u>Job file: 10</u>
<input type="checkbox"/>	<input type="checkbox"/>	<u> </u>
<input type="checkbox"/>	<input type="checkbox"/>	<u> </u>

Becky Helmrich



LAKE ERIE ELECTRIC, INC.

Contractors & Engineers

Dayton Division

360 Industrial Drive

Franklin, OH 45005

937-743-1220 (Fax) 937-743-1227

Project Submittal for LEE Job # 1015-5007

Warren County Misc Electrical Work

Warren County, OH

Submittal # _____

Description Sod Farm Monopole

Spec Section _____

Submittal Date 09/21/15

REVIEWED

Date 09/21/15

By Sean Mondello

LAKE ERIE ELECTRIC, INC.

Review, approval, verification of materials and equipment required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

- ☒ New Submittal
- ☐ Re-Submittal
- ☐ Submitted Per Plans & Specs
- ☐ Submitted "As Equal"
- ☐ Critical Path

FILE NO.			
REVISED			
REV	DESCRIPTION	DATE	BY
1	CHANGED FROM MAX SPLICES	04/07/10	HA
2			

ASSY BILL OF MATERIALS: DEP80MA			
PART NO.	QTY	ITEM DESCRIPTION	DWG NO.
DEP80MA-1	1	SHELL 9.00'X12.75'X25.71"	N/A
T80MA-2	1	SHELL 11.95'X16.09'X28.38"	N/A
DEP80MA-3	1	SHELL 15.22'X22.23'X48.00"	N/A
C1000600	1	PLATE CAP 25X10"OD TAP POLE	N/A
J51AW	3	J-BOLT ASSY 3/8 X 5-3/8 W/WASH	N/A
210074G	1	BOLT 5/8X1 HCS G5 HDG	N/A
110146	1	HEX NUT 5/8 (11 UNC) 2H GALV	N/A
VL5279	2	PLATE COVER 12GXSX7"	N/A
ACW5	1	SIGN ANTI-CLIMB WARNING ASSY	N/A
210508	4	BOLT 3/8-16X1" SELF TAPPING SS	N/A
DWG-0106	1	SPLICE JACKING INSTRUCTIONS	DWG-0106
ROHN-TAG	1	STANDARD ROHN TAG	N/A
REFERENCE DRAWINGS			
PART NO.	QTY	ITEM DESCRIPTION	DWG NO.
DEPDESIGN-01-A1	1	POLE DESIGN STANDARD-DIRECT EMBED	DEPDESIGN-01-A1-1
A070084	1	POLE DESIGN ANTENNA INDEX-BROADBAND	A070084

GENERAL NOTES

1. REFER TO DRAWING DEPDESIGN-01-A1-1 FOR ASSEMBLY DETAILS AND GENERAL NOTES.
2. SECTION P/N IS STAMPED AT THE BOTTOM OF EACH POLE SECTION. SUFFIX (-A, -B, ETC.) MAY BE ADDED TO SECTION PART NUMBERS WHEN MULTIPLE SECTIONS WITH THE SAME PART NUMBERS ARE SUPPLIED WITH A SHIPMENT. SECTIONS WITH LIKE SUFFIXES SHALL BE INSTALLED TOGETHER TO INSURE PROPER FIT AT SLIP SPLICES.
3. 3/8" STEP BOLTS FOR CLIMBING ARE TO BE ORDERED SEPARATELY.
4. IF CORROSCOTE IS ORDERED, (1) CAN OF P/N: M77102 "CORROSCOTE TOUCH UP" & (1) PAINT BRUSH P/N: J76017 IS TO BE ADDED TO ORDER.
5. AGGREGATE BACKFILL SHALL BE #57 STONE OR EQUIVALENT CONFORMING TO ASTM C33 AND PLACED TO MINIMIZE VOIDS.

SECTION NO.	LENGTH, FT.	GALV. WT., LBS	MIN SPLICE, IN.	MAX SPLICE, IN.	LENGTH, FT.	GALV. WT., LBS	MIN SPLICE, IN.	MAX SPLICE, IN.
DEP80MA-1	25.71	622	19	22	28.38	862	25	28
T80MA-2								
DEP80MA-3	48.00	1963	N/A	N/A				

MAXIMUM REACTIONS	
DOWNLOAD, KIPS =	5.2
OTM, FT-KIPS =	241.2
SHEAR, KIPS =	6.3

EMBEDMENT	
DEPTH =	18'-0"
AUGER DIAMETER =	3'-0"



PO BOX 5999
 PEORIA, IL 61601-5999
 TOLL FREE 800-727-ROHN

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DEP80MA 80' DIRECT EMBED POLE

DRAWN: CHW	CHECKED: JDM	DATE: 04/07/10
ENGINEER: HA	SHEET #1	1 OF 1
PULL ENGINEER:	PULL MANAGER:	
DRAWING NO: DEP80MA	REV: 3	

FILE NO.

REV	DESCRIPTION	DATE	BY	CHK	APP
1	CHANGED TO BEARING PLATE	03/02/2015	CHW	HA	

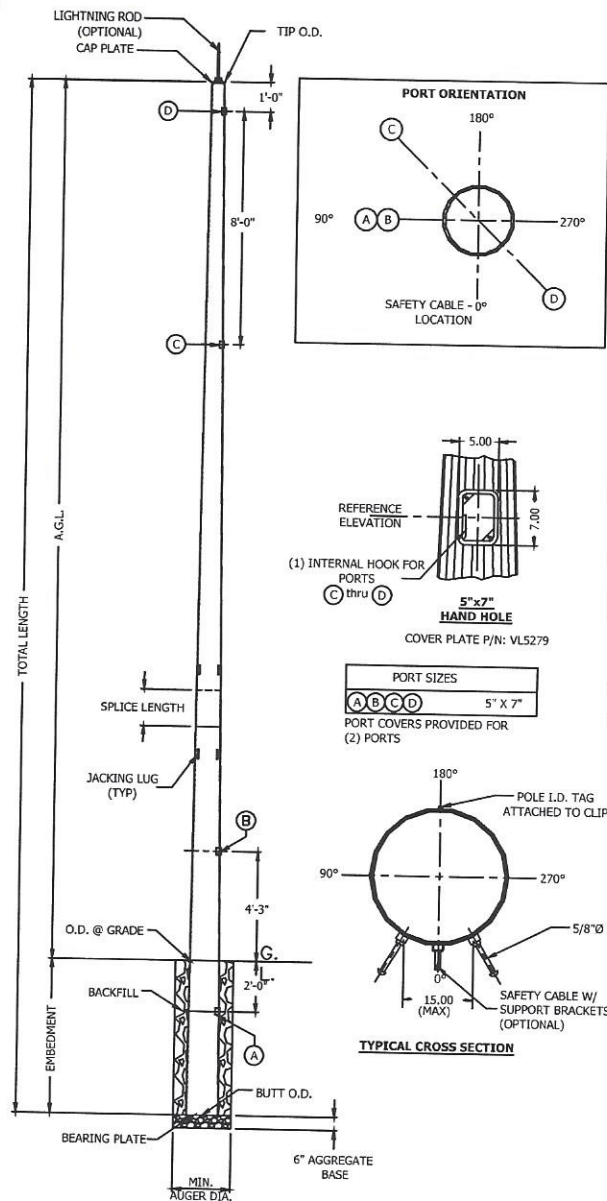
ROHN
PRODUCTS

 PO BOX 9999
 PEORIA, IL 61601-9999
 TOLL FREE 800-222-ROHN

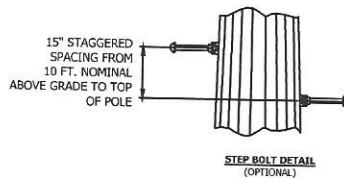
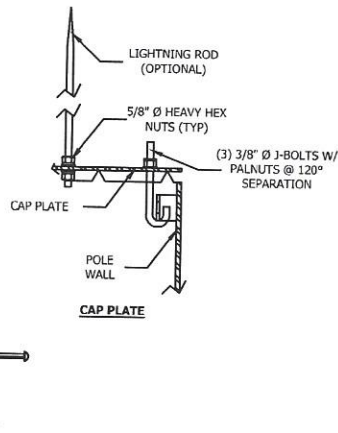
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 REPRODUCED, COPIED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS
 WITHOUT THE WRITTEN CONSENT OF ROHN.

DESIGN - DIRECT EMBED POLES

DATE:	02/27/2010
CHK'D:	JDM
ENG'R:	HA
PRL ENGR:	HA
PRL MGR:	
DRAWING NO:	DEPDEN-01-A1-1
REV:	5


GENERAL NOTES:

- POLE DESIGN CONFORMS TO ANSI/TIA/EIA-222-F WITH 1/2" INCH RADIAL ICE AND TO ANSI/TIA-222-G (CLASS I, EXPOSURE B, TOPOGRAPHIC CATEGORY I). DESIGN CRITERIA MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION BASED ON SITE-SPECIFIC REQUIREMENTS.
- POLE ORIENTATION TO BE DETERMINED BY OTHERS BASED UPON SITE-SPECIFIC REQUIREMENTS.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F & G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES AND WITH LOCAL CODES AND SAFETY REGULATIONS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO INSTALLATION.
- CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING SHALL BE ESTABLISHED PRIOR TO INSTALLATION.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F & G.
- EMBEDMENT DEPTHS ARE BASED ON "NORMAL" SOIL CONDITIONS (TIA REV F) AND CLAY "PRESUMPTIVE" SOIL (TIA REV. G) WITH AGGREGATE BACKFILL. ACTUAL SITE/SOIL DESIGN PARAMETERS MUST BE VERIFIED PRIOR TO INSTALLATION.
- REFER TO ATTACHED POLE DESIGN PROPERTIES FOR POLE DIMENSIONS, NUMBER OF SECTIONS, REQUIRED SPLICE LENGTHS AND MINIMUM AUGER DIAMETER.
- STRUCTURAL STEEL CONFORMS TO ASTM A572 GRADE 65, HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ANSI/TIA/EIA-222-F & G. POLE SECTION PART NUMBERS ARE NUMBERED SEQUENTIALLY FROM TOP TO BOTTOM.
- TOLERANCE ON POLE STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- FOR CORROSIVE GROUNDWATER AND/OR SOIL CONDITIONS, ROHN RECOMMENDS ADDITIONAL CORROSION CONTROL PROTECTION SUCH AS CONCRETE BACKFILL, ADDITIONAL PROTECTIVE COATING OVER GALVANIZING, OR THE INSTALLATION OF SACRIFICIAL ANODES.
- ANTENNAS, MOUNTS AND TRANSMISSION LINES ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED. DESIGN ASSUMES ALL TRANSMISSION LINES ARE ROUTED INTERNALLY.
- ALL GROUNDING IS SUPPLIED BY OTHERS AND MUST MEET ALL APPLICABLE CODES.
- NON-STAINING LUBRICANT SHALL BE APPLIED TO THE SLIP JOINT SURFACES. JACKING FORCES SHALL BE APPLIED UNTIL THE MINIMUM SPLICE LENGTH IS OBTAINED AND THE JOINT IS TIGHT WITH NO GAPS GREATER THAN 1/4". JACKING LUGS ARE PROVIDED ABOVE AND BELOW EACH SPLICE LOCATION AT 120° SEPARATIONS.
- AGGREGATE BACKFILL, WHEN SPECIFIED, SHALL BE #57 STONE OR EQUIVALENT CONFORMING TO ASTM C33 AND PLACED TO MINIMIZE VOIDS.
- CONCRETE BACKFILL, WHEN SPECIFIED, SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS USING 1 1/2" MAXIMUM COARSE AGGREGATE SIZE AND SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE. THE DURABILITY REQUIREMENTS OF AC308 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION OR POLE AND DOES NOT FALL THROUGH WATER.





**Broadband
Rohn Products
Antenna Index**

Dish Antenna			
Diameter	EPA		Sway limit 5.8 Ghz
	w/ Radome	w/o Radome	
(1) 2 ft.	3 ft ²	6 ft ²	4°
(1) 3 ft.	7 ft ²	13 ft ²	3°
(1) 4 ft.	11 ft ²	22 ft ²	2°
(2) 2 ft. B-to-B	5 ft ²	8 ft ²	4°
(2) 3 ft. B-to-B	11 ft ²	18 ft ²	3°
(2) 4 ft. B-to-B	19 ft ²	34 ft ²	2°

Flat Panel Antenna		
Dimension	EPA	Sway limit
1 ft square w/ mount	2 ft ²	4°
2 ft square w/ mount	5 ft ²	2°
3 ft square w/ mount	11 ft ²	2°

NOTE:

1. EPA values for flat panel antennas are based upon force coefficients (drag factors) of 1.2.
2. Sway limits for dishes are based on an allowable 10dB degradation in radio frequency signal level for 5.8 Ghz.
3. Sway limits for flat panel antennas are based on manufacturers published beam widths.
4. Sway limits are determined under a 50 mph Fastest-Mile wind speed.
5. Specific antenna models may have other sway limitations specified by the manufacturer.

Designed By: Mar
Date: 7/31/07

Checked By: HA
Date: 7/31/07

Approved By: HA
Date: 7/31/07

03/01/2007

A070084R1