

AGENDA  
COMMITTEE OF THE WHOLE  
August 8, 2017  
2200 Harnish Drive  
Village Board Room  
- AGENDA -  
7:30 P.M.

Trustee Sosine – Chairperson  
Trustee Spella  
Trustee Jasper  
Trustee Brehmer  
Trustee Glogowski  
Trustee Steigert  
President Schmitt

1. **Roll Call – Establish Quorum**
2. **Public Comment – Audience Participation** (*Persons wishing to address the Committee on an item on this agenda must register with the Chair prior to roll call.*)
3. **Community Development**
  - A. Consider a Public Event – St. Margaret Mary Summer Fest 2017
  - B. Consider a Public Event – Environmental Defenders, It's Our River Day
4. **General Administration**
  - A. Consider an Amendment to the Fiscal Year 2016-2017 Annual Budget
5. **Public Works & Safety**
  - A. Consider an Agreement with Motorola Solutions, Inc. for Tower Use for the STARCOM Radio System
6. **Executive Session**
  - A. Land Acquisition
  - B. Review of Executive Session Minutes
7. **Other Business**
8. **Adjournment**



**VILLAGE OF ALGONQUIN**  
*COMMUNITY DEVELOPMENT DEPARTMENT*

**– M E M O R A N D U M –**

TO: Tim Schloneger, Village Manager

FROM: Diane LaCalamita, Building Inspector

DATE: August 1, 2017

RE: Application for Public Event License – St. Margaret Mary's Church

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Ms Monika Marat from St. Margaret Mary's Church (119 S. Hubbard St.) has applied for a Public Event/Entertainment License for August 27, 2017. The event which is being called "St. Margaret Mary's Summerfest 2017" will take place on the church grounds from the hours of 12:00 p.m. to 7:00 p.m. and will be open to the public. Admission fees are \$5.00 to enter the tent area.

Due to this event including outdoor amplified musical performances by various bands throughout the day and an outdoor pony ride, the Village Board's approval is required. The event is a community builder which provides food, games, an art show and music. Security will be provided by volunteer church members. Parking will be provided within the church parking lot and the adjacent school parking areas. A site plan is attached. Temporary signs are being requested to be displayed. The necessary liquor permit and raffle permit has been applied for and the required Certificate of Insurance noting the Village as additional insured has been provided as has the Hold Harmless Agreement. The church is requesting that the Public Event permit fee be waived due to their non-profit status. The Village endures no expenses with this event.

I would like to request that this event be scheduled on the Committee of the Whole meeting agenda scheduled on August 8, 2017 for review. A representative from St. Margaret Mary's is available to attend such meeting should there be any questions.



July 7, 2017

Village of Algonquin  
2200 Harnish Dr.  
Algonquin, IL. 60102

It is time to begin preparation for our Saint Margaret Mary Summerfest 2016.

We plan to have a Beer Tent, Food Booths, and Live Entertainment.

“Saint Margaret Mary Summerfest 2017” will be a one-day event. This is a family orientated event; we strive to have appropriate games and entertainment for all ages. The day begins at 12:00 Noon. We will end the event at 7:00 pm so not to cause disruptions to our neighbors.

We have controls in place to insure NO underage drinking, wrist bands will be given to persons 21 and over with the proper identification. We are providing security with volunteers from our parish. I have attached a list of their names with this application and a copy of this application is being forwarded to the Chief of Police for his review.

I have submitted an application for an Event Liquor Permit.

If you have any questions please feel free to call me at 847 658-7625.

Sincerely,

Linda M. Settles, Office Manager  
Saint Margaret Mary Church

cc: Chief of Police

## **APPLICATION FOR "EVENT" LIQUOR PERMIT**

TO: The Liquor Commissioner of the Village of Algonquin, Illinois

(PLEASE TYPE OR PRINT ALL INFORMATION)

The undersigned applicant, being duly sworn on oath, makes application for a Liquor Permit in the Village of Algonquin, as follows:

1. The name of the applicant to appear on the permit is: \_\_\_\_\_  
Saint Margaret Mary Church  
\_\_\_\_\_
2. The address of the applicant is: \_\_\_\_\_  
119 S. Hubbard Street, Algonquin, Illinois 60102  
\_\_\_\_\_
3. The name and address of officer or agent for the applicant is: \_\_\_\_\_  
Margaret Przybylko  
\_\_\_\_\_
4. A. The applicant is presently: (Complete all applicable parts)
  - (1) Class\_\_\_\_Licensee in the Village; License No. \_\_\_\_\_
  - (2) Nonprofit organization, registered with the State of Illinois
  - (3) Other type of organization: Please specify \_\_\_\_\_  
(i.e., Fraternal, Educational, Civic, Political, Religious)
  - (4) Provide Illinois Department of Revenue Tax Exempt Number and/or Illinois Business Tax Number assigned to your organization \_\_\_\_\_  
\_\_\_\_\_

B. The description and location of premises or place of business which is to be operated under the proposed permit: \_\_\_\_\_  
Saint Margaret Mary School  
119 S. Hubbard Street, Algonquin, Illinois 60102  
\_\_\_\_\_

C. The date(s) and hours of operation requested under the proposed permit are:  
August 27, 2017  
12:00 PM - 7:00 PM  
\_\_\_\_\_  
\_\_\_\_\_

The number of days shall not exceed what is presently allowed by ordinance.

5. BASSET Training Required: Successful completion of a BASSET program, or other similar program as approved by the Chief of Police, is required for at least one person coordinating and responsible for the responsible sale of alcoholic liquor during the event. Such person

shall be present at the point of liquor sales at all times for the duration of the event.  
Person holding the BASSETT Certificate: Hubert Marat

Photocopies of a valid certificate of completion of a BASSET program shall be included with the application.



6. The applicant hereby files Certificates of Insurance, certifying that the applicant has in force and effect insurance as follows:
- Liquor Liability Insurance of not less than \$1,000,000.00 per occurrence and \$2,000,000.00 annual aggregate and;
  - General Liability Insurance in an amount not less than \$1,000,000.00 per occurrence and \$2,000,000.00 annual aggregate.

The Insurance Certificates must name the Village of Algonquin as Additional Insured.

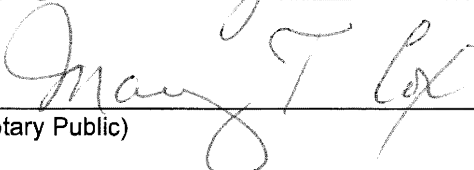
"Host Insurance" shall not satisfy the requester defined above.

7. The applicant herewith submits the appropriate permit fee, in the amount of:  
\$ \_\_\_\_\_, as set forth in the Liquor Control and Liquor Licensing Ordinance of the Village of Algonquin.

The applicant agrees to comply with all ordinances of the Village of Algonquin and the Laws of the State of Illinois.

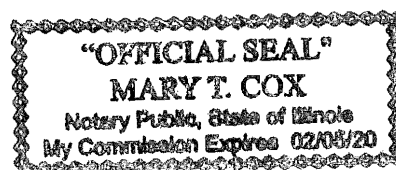
Applicant: Saint Margaret Mary Church  
Signed By:   
Officer or Agent: Margaret Przybylko  
Daytime Phone:   
Extension: \_\_\_\_\_

Subscribed and Sworn to before me this 20<sup>th</sup> day of June, 2017

  
(Notary Public)

My Commission expires 2-5, 202020

SEAL



# BASSET Card



July 18, 2016



Letter ID: L0104216464

HUBERT MARAT

ALGONQUIN IL 60102

License No.: 5A-0110606

Expiration Date: 7/14/2019

License Type: Basset Card

**Your "Student ID number" is: 10023013**

**Your "Trainer's ID number" is: 5A-0110606**

**Your BASSET Card is located BELOW**

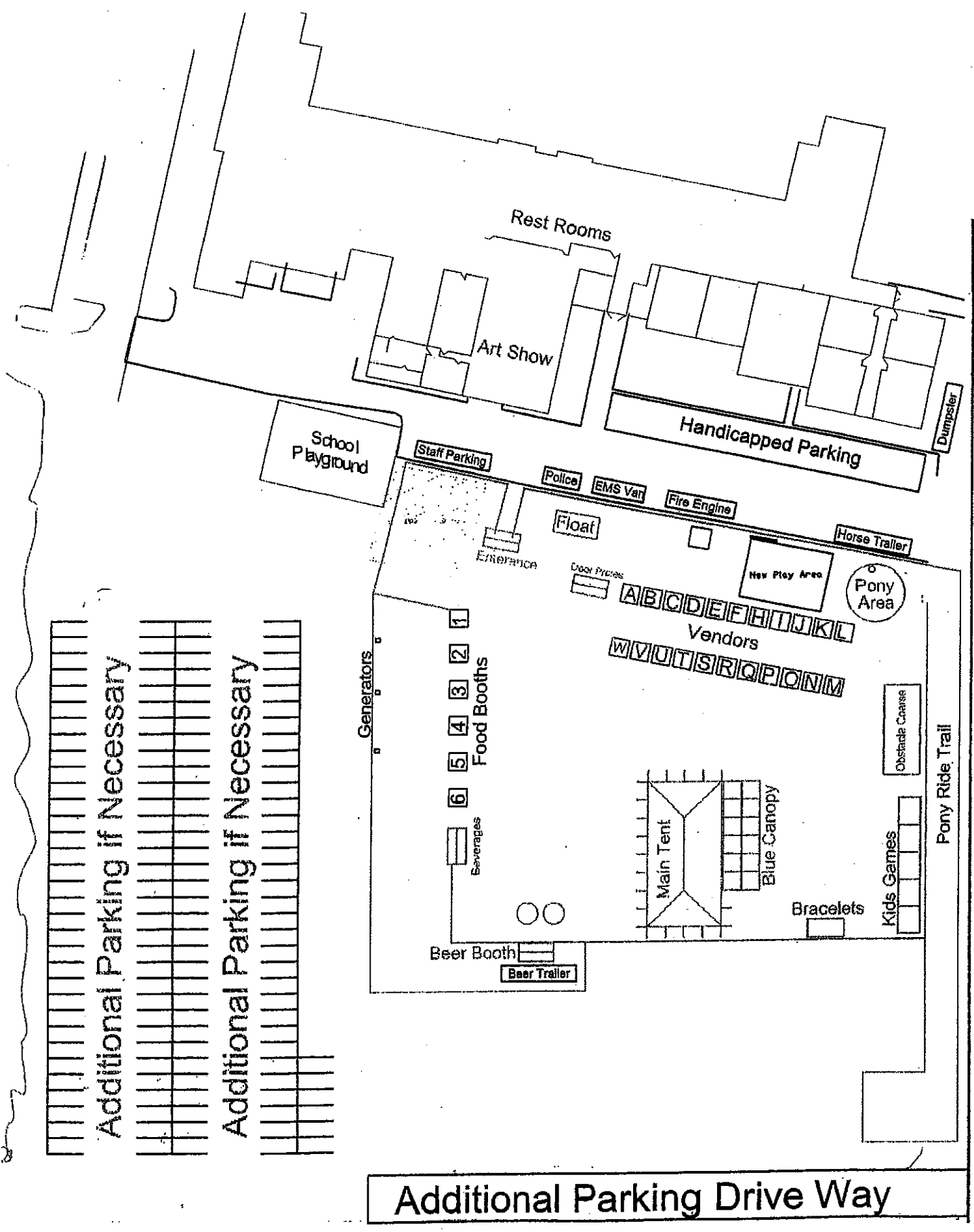
**DO NOT throw away this letter as you will need your "Student ID number" directly above to re-print your card.**

## IMPORTANT:

To re-print your card, visit the Illinois Liquor Control Commission website at [ILCC.illinois.gov](http://ILCC.illinois.gov)

(click on the RESOURCES tab to access the "BASSET Card Lookup" page).

<p><b>ILLINOIS LIQUOR CONTROL COMMISSION</b> 100 W. Randolph Street, Suite 7-801 - Chicago, IL 60601 <b>BEVERAGE ALCOHOL SELLERS AND SERVERS</b> <b>EDUCATION AND TRAINING [BASSET] CARD</b></p> <p><b>Date of Certification: 7/14/2016 Expires: 7/14/2019</b> <b>Trainer's IL Liquor License Number: 5A-011</b> [REDACTED]</p> <p><b>HUBERT MARAT</b> [REDACTED] [REDACTED]</p> <p><b>ALGONQUIN IL 60102</b></p> <p><b>**Card is not transferrable**</b></p>
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Eastgate Drive

## **Saint Margaret Mary 2017 Summerfest Security Detail**

The following individuals will be providing Security during the 2017 Saint Margaret Mary Summerfest to be held on the parish grounds on August 27, 2017. They will be stationed at the Beer/Wine Tent checking ID's. There will be only one entrance to the tent through this security entrance. (See attached layout of the event.

They have also been asked to walk the entire perimeter to insure that there are not any altercations at the event.

**Name**

**Address**

**Martin Wojtulewicz**

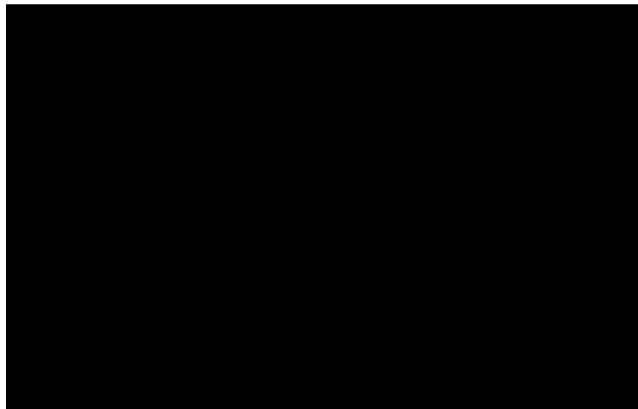
**Jerry Kawecki**

**Hubert Marat**

**Wally Szyda**

**Stanislaw Dziadkowiec**

**Wojciech Lasek**







**VILLAGE OF ALGONQUIN**  
*COMMUNITY DEVELOPMENT DEPARTMENT*

**– M E M O R A N D U M –**

DATE: August 2, 2017

TO: Tim Schloneger, Village Manager

FROM: Diane LaCalamita, Building Inspector

SUBJECT: Application for Public Event License – Environment Defender’s “Its’ Our River Day”

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Cynthia Kanner, on behalf of the Environmental Defenders, has applied for a Public Event License for Saturday, September 16, 2017. The event would be the annual celebration of the Fox River and clean-up of the river at Cornish Park from the hours of 1:00 p.m. to 4:00 p.m. and will be open to the public. An expected 100 participants are expected and there is no fee to volunteer one’s efforts.

The event has taken place in the same manner for the past several years without any issues. The organizer is requesting assistance from the Algonquin Public Work’s Department to assist with the removal of the collected rubbish. The estimated cost to the Village for providing this work is \$948.00.

Due to this event taking place within the Village’s Public Park, Algonquin Board of Trustee’s approval is required. The necessary Certificate of Insurance and Hold Harmless Agreement have been provided.

I would like to request that this event be scheduled for review on the August 8, 2017 Committee of the Whole meeting agenda. Cynthia Kanner is available to attend this requested meeting should there be any questions or comments.



## ***VILLAGE OF ALGONQUIN MEMORANDUM***

To: *Tim Schloneger, Village Manager*

From: *Susan Skillman, Comptroller*

Date: *July 26, 2017*

Re: *Budget Amendment – Fiscal Year Ending April 30, 2017*

Village department heads submitted requests to increase their budget for Fiscal Year Ending April 30, 2017, that requires approval by the Village Board. Budget Ordinance No. 2016–O–08 created spending authority for Fiscal Year Ending April 30, 2017. Illinois statutes allow the Village Board to delete, add to, or change the budget by a vote of two-thirds of the corporate authorities then holding office.

Exhibit A summarizes the budget revisions to the various line items made during Fiscal Year Ending April 30, 2017. Spending for these revisions has caused the original fund budgets to be exceeded. Budget amendments for these increases to budgeted expenditures are justified under Illinois statutes as follows: budget increases for expenditures may be made due to the use of Fund Balance (cash reserves) that existed at the beginning of the fiscal year. The preliminary change in fund balance (Revenues over Expenditures) in the General Fund indicates a decrease of approximate \$216,000 at April 30, 2017.

The amendment requires the two-thirds approval of the Village Board. A draft budget amendment ordinance with Exhibit A is also attached. The changes, which are shown on Exhibit A, are explained as follows:

General Fund: The expenditure budget for professional services for the police department lobby upgrades increases \$15,000 as a carryover from the previous year. Capital improvements for the public works roof project also increases \$126,094 as a carryover from the previous year. The offset for these increases is in cash reserves in the beginning fund balance, as expenditures were not completed in the prior fiscal year.

Travel/training/dues increases \$14,577 for the purchase of gym equipment at public works and the transfer to street improvement fund increases \$1,000,000. The offset for these increases was from fund balance in the general fund.

A fiscal year end assessment indicated that the fund balance for the general fund exceeded the Village's target range for unassigned fund balance. For informational purposes, without this transfer the general fund would have had an approximate \$800,000 surplus while the street improvement fund would have had an approximate \$1,000,000 deficit for fiscal year ending 2017.

Infrastructure maintenance improvements increases \$63,305 for the LED public works building lighting conversion. This was offset by the receipt of grant revenues as well as fund balance in the general fund.

Street Improvement Fund: Engineering for several of the IMS street projects increased for a total of \$405,000 in the street fund. The offset for these increases is in cash reserves in the beginning fund balance, as expenditures were not completed in the prior fiscal year.

Development Fund: The transfer to street improvement fund increased \$299,801 as the CDAP (Community Development Assistance Program) was closed out due to program changes. The cash balance from this program resulted in a transfer to the street improvement fund during the fiscal year.

**Recommendation: Forward the draft ordinance with Exhibit A to the Village Board for consideration at the Committee of the Whole Board Meeting to amend the budget for Fiscal Year Ending April 30, 2017.**

# ORDINANCE NO. 2017-O-

## AN ORDINANCE AMENDING THE VILLAGE OF ALGONQUIN ANNUAL BUDGET FOR FISCAL YEAR 2016-2017

**WHEREAS**, the Village of Algonquin, McHenry and Kane counties, Illinois, is a home rule municipality as contemplated under Article VII, Section 6, of the Constitution of the State of Illinois, and the passage of this Ordinance constitutes an exercise of the Village's home rule powers and functions as granted in the Constitution of the State of Illinois.

**WHEREAS**, the President and Board of Trustees of the Village of Algonquin, McHenry and Kane counties, Illinois, have adopted the budget form of financing by passing Ordinance 92-0-82, "An Ordinance Authorizing the Budget Process for Fiscal Years Beginning with the 1993-94 Fiscal Year and Amending the Algonquin Municipal Code," and subsequently passed Ordinance 2016-O-08 "An Ordinance Approving the Village of Algonquin Annual Budget for Fiscal Year 2016-2017"; and

**WHEREAS**, 65 ILCS 5/8-2-9.6 provides that by a vote of two-thirds of the corporate authorities then holding office, the annual budget "may be revised by deleting, adding to, changing or creating sub-classes within object classes and object classes themselves;" and

**WHEREAS**, since the passage of Ordinance 2016-O-08 the President and Board of Trustees have found it necessary to amend Ordinance 2016-O-08.

**NOW, THEREFORE, BE IT ORDAINED** by the President and Board of Trustees of the Village of Algonquin, McHenry and Kane Counties, Illinois, as follows:

**SECTION 1:** That Ordinance 2016-O-08, "An Ordinance Approving the Village of Algonquin Annual Budget for Fiscal Year 2016-2017," shall be amended as depicted in Exhibit A, attached hereto and made a part hereof.

**SECTION 2:** If any section, paragraph, subdivision, clause, sentence or provision of this Ordinance shall be adjudged by any Court of competent Jurisdiction to be invalid, such judgment shall not affect, impair, invalidate or nullify the remainder thereof, which remainder shall remain and continue in full force and effect.

**SECTION 3:** All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

**SECTION 4:** This Ordinance shall be in full force and effect upon its passage, approval and publication in pamphlet form (which publication is hereby authorized) as provided by law.

BUDGET AMENDMENT ORDINANCE - PAGE 1 OF 2

Aye:  
Nay:  
Abstain:  
Absent:

APPROVED:

(SEAL)

\_\_\_\_\_  
John C. Schmitt, Village President

ATTEST: \_\_\_\_\_  
Gerald S. Kautz, Village Clerk

Passed:  
Approved:  
Published:

**Village of Algonquin**  
**Budget Amendments for the Year Ending 4/30/2017**  
**Fund Balance Offset**

Exhibit A  
As of 4/30/17

**General Fund**

<u>Account #</u>	<u>Description</u>	<u>Original Budget</u>	<u>Revised Budget</u>	<u>Increase/ (Decrease)</u>
<b>Expenditures:</b>				
01200200 42234	Professional Services	\$ 28,400	\$ 43,400	\$ 15,000
01500300 43370	Infrastructure Maint Improvement	\$ -	\$ 63,305	\$ 63,305
01900100 47740	Travel/Training/Dues	\$ 17,280	\$ 31,857	\$ 14,577
01900300 45593	Capital Improvements	\$ -	\$ 126,094	\$ 126,094
01900500 48004	Transfer to Street Imp Fund	\$ -	\$ 1,000,000	\$ 1,000,000
		<b>\$ 45,680</b>	<b>\$ 1,264,656</b>	<b>\$ 1,218,976</b>

**Street Improvement Fund:**

<u>Account #</u>	<u>Description</u>	<u>Original Budget</u>	<u>Revised Budget</u>	<u>Increase/ (Decrease)</u>
<b>Expenditures:</b>				
04900300 42232 S1751	Engineering	\$ -	\$ 200,000	\$ 200,000
04900300 42232 S1752	Engineering	\$ -	\$ 5,000	\$ 5,000
04900300 42232 S1762	Engineering	\$ -	\$ 70,000	\$ 70,000
04900300 42232 S1772	Engineering	\$ -	\$ 36,000	\$ 36,000
04900300 42232 S1782	Engineering	\$ -	\$ 18,000	\$ 18,000
04900300 42232 S1792	Engineering	\$ -	\$ 76,000	\$ 76,000
		<b>\$ -</b>	<b>\$ 405,000</b>	<b>\$ 405,000</b>

**Development Fund**

<u>Account #</u>	<u>Description</u>	<u>Original Budget</u>	<u>Revised Budget</u>	<u>Increase/ (Decrease)</u>
<b>Expenditures:</b>				
16230500 48004	Transfer to Street Imp Fund	\$ -	\$ 299,801	\$ 299,801
		<b>\$ -</b>	<b>\$ 299,801</b>	<b>\$ 299,801</b>

**Total - All Funds:**

<b>Revenues</b>	<b>\$ -</b>
<b>Expenditures</b>	<b>\$ 1,923,777</b>

**Recap of Revisions:**

<u>Fund:</u>	<u>Revenues</u>	<u>Expenditures</u>
	<u>Increase/(Decrease)</u>	
General	\$ -	\$ 1,218,976
MFT	\$ -	\$ -
Street Improvement	\$ -	\$ 405,000
Park Improvement	\$ -	\$ -
Water & Sewer Operating	\$ -	\$ -
Water & Sewer Improvement	\$ -	\$ -
Development	\$ -	\$ 299,801
Police Pension	\$ -	\$ -
Total	<b>\$ -</b>	<b>\$ 1,923,777</b>



# Village of Algonquin

## Police Department



-MEMORANDUM-

DATE: August 2, 2017  
TO: Tim Schloneger, Village Manager  
FROM: John Bucci, Chief of Police  
SUBJECT: Motorola Solutions Lease Agreement

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Attached is the final lease agreement to be made with Motorola Solutions, Inc. (Lessee) and the Village of Algonquin (Lessor).

This lease grants access and use to certain portions of the tower located on Village property at 110 Meyer Drive as well as a communications area located in the loft of the Public Works building. Equipment installed at this location will include antennae and radios and associated communication items such as wiring, fixtures, and cables. This equipment and installation is vital to the STARCOM radio system that may be used by federal, state, and local governments.

The lease will be in effect from the date both parties sign and has a term of five (5) years, with the Village having an option to extend the terms one (1) year for up to five (5) additional years.

I respectfully request the Committee of the Whole consider this request and forward to the Village Board for approval.

## **Wireless Communications Site Lease**

THIS WIRELESS COMMUNICATIONS SITE LEASE ("Lease") is made as of the \_\_\_\_ day of \_\_\_\_\_, 2017 (the "Effective Date"), by and between the Village of Algonquin, an Illinois Home Rule municipal corporation, as lessor ("Lessor"), and Motorola Solutions, Inc., a Delaware corporation, as lessee ("Lessee").

### **1. PREMISES.**

a) Premises. Lessor is the owner of that certain real property located at 110 Meyer Drive, Algonquin, Illinois, 60102 which property is legally described in Exhibit A attached hereto and incorporated herein ("Property"). Lessor hereby leases to Lessee certain portions of the tower located on the Property, and a portion of the communications area located in the loft of the Public Works building on the Property (the portion of the Loft Area leased by Lessee are, collectively, the "Premises"). The Premises are depicted in Exhibit B attached hereto and incorporated herein.

b) Use of Premises. Lessee shall have the right to use the Premises only for the purpose of installing, removing, replacing, upgrading, modifying, maintaining, repairing and operating its communications equipment including the antennae and radios (including microwave antennae and radios); equipment cabinets; backup power sources (including batteries); and other associated equipment, fixtures, wiring, and cabling (collectively the "Communications Equipment") as identified in Exhibit C. The parties acknowledge that (a) the Communications Equipment will be owned by Lessee and (b) the Communications Equipment will be used for emergency services, public safety and other governmental purposes, including, without limitation, the Illinois State Police, McHenry County Sheriff, STARCOM and other Illinois state agencies, and any federal, state, county, municipality or other governmental body, including any department or agency thereof.

c) Limitation of Interest. Except for the Lease granted pursuant to this Agreement, the Lessee shall have no legal, beneficial, or equitable interest, whether by adverse possession or prescription or otherwise, in the Property or the Premises.

Lessee further acknowledges that Lessor uses the Property in connection with providing water service to its residents, and the rights and interests granted to Lessee in this Lease shall at all times be subject to Lessor's rights to operate its Public Works building and facilities except as specifically set forth in this Lease.

d) As-Is, Where-Is. Lessee hereby accepts the Premises in its condition at the time of the execution of this Lease, WHERE-IS and AS-IS, and subject to applicable requirements of law. Lessee acknowledges and agrees that: (i) Lessor has made no representation or warranty as to the suitability of the Premises for the Lessee's intended purposes; and (ii) Lessor will have no responsibility to maintain the Property or the Premises in any particular condition or manner. Lessee waives any implied warranty that the Premises are or will be suitable for Lessee's intended purposes.

**2. TERM OF LEASE.** The initial term (the "Term") of this Lease shall be five (5) years from the date of this Lease (the "Commencement Date") and expiring on the date which is five (5) years thereafter. Lessee shall have the right to extend the Term for five (5) successive one (1)-year terms (the "Renewal Terms") on the same terms and conditions. This Lease may be extended for each Renewal Term by Lessee if Lessee notifies Lessor of its intention to renew at least thirty (30) days prior to the expiration of the then current term.

### **3. RENT AND COSTS.**

a) Rent. Lessee shall pay Lessor Ten Dollars (\$10.00) and other good and valuable consideration as full consideration for the initial Term and all Renewal Terms of this Lease ("Rent"). Unless otherwise specified in this Lease, each party shall bear its own costs.

**4. ACCESS TO COMMUNICATION EQUIPMENT.** After the initial installation of the Communication Equipment, in accordance with the plans submitted to the Lessor by Lessee, Lessor shall permit Lessee access to the Communications Equipment located on the Premises at a time mutually agreed to by the parties. Whenever Lessee desires to access the Property, Lessee must provide the Lessor at least two (2) business days' prior written notice. Notwithstanding anything contained herein to the contrary, the Lessee must provide the Lessor prior written notice as soon as practicable in the event of an emergency requiring Lessor to access the Property despite not providing Lessor at least two (2) business-day notice. Except in the event of an emergency or urgent repairs, where Lessee shall have the right to immediately access the Property and Premises, Lessee shall not have access to the Property without a representative of Lessor being present. It is agreed that only authorized engineers, employees or properly authorized contractors of Lessee or persons under their direct supervision will be permitted to enter said Premises.

Lessee shall provide a list of all employees and contractors that will need access to service Lessee's equipment. All Lessee's employees accessing the Property must have and present upon Lessor's request a corporate photo identification issued by Lessee. In the event that Lessee desires an engineer or a contractor, or other third party to access the Property who is not an employee of Lessee (i) such individual must present photo identification to the Lessor upon request and (ii) be accompanied at all times by an employee of Lessee who will be responsible for supervising such engineer, contractor, or other third party.

**5. INSURANCE.** Lessee shall maintain the following insurance coverages in the following amounts:

Commercial General Liability Insurance covering the insured against claims of bodily injury, personal injury and property damage arising out of Lessee's operations, assumed liabilities or use of the Premises, including Contractual Liability covering the insuring provisions of this Lease and the performance by Lessee of the indemnity agreements set forth in Section 6 of this Lease, for limits of liability not less than \$1,000,000 each occurrence and \$2,000,000 annual aggregate for Bodily Injury, Personal Injury and Property Damage Liability. Physical Damage Insurance covering (i) all furniture, trade fixtures, equipment, merchandise and all other items of Lessee's property on the Premises installed by, for, or at the expense of Lessee, (ii) any Lessee improvements, including any improvements which Lessor permits to be installed above the ceiling of the Premises or below the floor of the Premises, and (iii) all other improvements, alterations and additions to the Premises, including any improvements, alterations or additions installed at Lessee's request above the ceiling of the Premises or below the floor of the Premises. Such insurance shall be written on an All Risk of "physical loss or damage" basis Statutory Workers' compensation insurance and Employer's Liability coverage in an amount of \$1,000,000 per accident. The required limits of policies of insurance required of Lessee under this Lease shall in no event limit the liability of Lessee under this Lease. Such insurance shall include Lessor as an additional insured with regard to the general liability policy and provide that said insurance shall not be canceled unless thirty (30) days' prior written notice shall have been given to Lessor by the Lessee. Evidence of Lessee's insurance hereunder shall be verified by issuance of a Certificate of Insurance to Lessor after execution of this Lease and at policy renewal during the term of the Lease.

The Lessee shall require subcontractors, if any, not protected under the contractor's policies to take out and maintain insurance of the same nature in amounts, and under the same terms, as required of the Lessee. Any insurance provided by Lessee, or any of Lessee's subcontractors, shall be primary to any insurance of the Lessor, and the certificates of insurance, as required above, shall so state.

**6. LIABILITY AND INDEMNITY OF THE LESSOR.**

a) **Lessor Review.** The Lessee acknowledges and agrees that Lessor is not, and will not be, in any way liable for any damages or injuries that may be sustained as the result of the Lessor's review and approval of any plans for the Communications Equipment, or the issuance of any approvals, permits, certificates, or acceptances



for the installation, operation, or maintenance of the Communications Equipment, and that Lessor's review and approval of any such plans and the Communications Equipment and issuance of any such approvals, permits, certificates, or acceptances does not, and will not, in any way, be deemed to insure Lessee or any of its successors, assigns, employees, agents, contractors, or any third party, against damage or injury of any kind at any time.

b) **Indemnity.** Lessee agrees to, and does hereby, hold harmless and indemnify Lessor and all of Lessor's elected or appointed officials, officers, employees, agents, representatives, engineers, and attorneys, from any and all claims that may be asserted at any time against any of those parties in connection with: (i) this Lease; (ii) the installation, operation, maintenance, repair or replacement of any portion of the Communications Equipment; or (iii) Lessee's performance of, or failure to perform, its obligations under this Lease (collectively, "Indemnified Claims"), whether or not any such Indemnified Claim is due or claimed to be due in whole or in part to the active, passive, or concurrent negligence or willful misconduct or fault of Lessee; provided, however, that this indemnity does not apply to willful misconduct or gross negligence on the part of Lessor.

c) **Defense Expense.** Lessee must, and does hereby agree to, pay all actual, third-party out of pocket costs and expenses, including reasonable legal fees, incurred by Lessor in defending itself with regard to any and all of the Indemnified Claims.

d) **Waiver of Liability.** Lessee will, and does hereby, waive, release, and relinquish all claims of every kind, known and unknown, present and future, that Lessee may have against Lessor and its officers, agents, servants, and employees, arising out of, connected with or in any way related to the use of the Property and Premises, or as a result of the condition, maintenance, and use of the Property and Premises except for Lessor's willful misconduct or gross negligence.

e) **Assumption of Risk.** Lessee agrees to assume the risk of any injuries, including death, and all costs, damages, and losses that Lessee or its employees, agents, contractors, agents, servants, employees, contractors, guests, customers, or invitees may sustain while on the Property and the Premises, or as a result of the condition, maintenance, or use of the Property and Premises except for Lessor's willful misconduct or gross negligence.

**7. ENFORCEMENT.** Lessor and Lessee may, at law or in equity, by suit, action, mandamus or any other proceeding, including, without limitation, specific performance, enforce or compel the performance of this Lease; provided, however, that Lessee agrees that it will not seek, and does not have the right to seek, recovery of a judgment for monetary damages against Lessor. Furthermore, Lessor's elected or appointed officials, agents, representatives, attorneys or employees shall have no liability on account of the negotiation, execution, or breach of any of the terms and conditions of this Lease.

**8. NON-INTERFERENCE.** Lessee's use of the Premises and its Communications Equipment shall not interfere with: (i) the use of any other communications equipment, similar equipment of any kind and nature owned or operated by the Lessor or other tenants or licensees existing on the Property as of the Effective Date, or Lessor operations during the Term and Renewal Terms; or (ii) Lessee's own use of the Property other than as expressly provided herein.

In the event that Lessee's Communications Equipment or use thereof interferes with communications equipment, similar equipment of any kind and nature owned or operated by the Lessor or other tenants or licensees on the Property, or Lessor operations during the Term and Renewal Terms, Lessee must modify its Communications Equipment so that it no longer causes such interference or cease to operate its Communications Equipment until the Communications Equipment is either removed from the Premises or modified or replaces in a manner that does not cause such interference.

Lessee further acknowledges and agrees that in the event that Lessor determines, in its sole discretion, that temporary removal or shutdown of the Communications Equipment is reasonably necessary for the Lessor to perform maintenance, repair, or improvements to Property or Premises, including, without limitation, the roof of the building or the Smokestack, Lessee must remove or shut down its Communications Equipment at its sole cost and expense. Neither Lessor nor Lessee shall be responsible for any diminished communications coverage or capacity during Lessor's maintenance, repair, or improvements to Property.

**9. UTILITIES.** Lessor's contractor has modified and extended electric utilities for the Communications Equipment. Lessee shall reimburse Lessor for all actual, third party out-of-pocket costs for such modification or extension within 30 days of receiving an invoice from Lessor. Lessee has agreed to a written estimate of these expected costs provided to Lessee from Lessor. All electricity and any other utility services used by Lessee to operate the Communications Equipment, or as reasonably estimated by Lessor in the absence of a submeter, will be paid by Lessee, including submetering and any other common utility services directly used by Lessee to operate the Communications Equipment. Lessee shall purchase all electricity and other utilities used in its operation of its Communications Equipment, except for telephone service, from the Lessor. The parties agree that the initial monthly fee to be paid by Lessee to Lessor for electrical service for Lessee's Communications Equipment will be \$380.00 per month. Lessor specifically reserves the right to adjust such rates in its sole discretion during the Term and Renewal Terms.

#### **10. IMPROVEMENTS; REMOVAL OF COMMUNICATION EQUIPMENT.**

a) Installation.

i. Schedule of Installation. Lessee must install, or cause to be installed, the Communication Equipment in accordance with a construction schedule provided in writing to, and approved in advance by, Lessor. The installation of the Communications Equipment may not interfere in any unreasonable manner with the operation and use of Property or any other property or rights-of-way owned or controlled by Lessor. In the event such installation or construction of the Communications Equipment results in any such unreasonable interference, Lessor shall provide Lessee with written notice of same, and Lessee shall be afforded a reasonable cure period, based on the nature of the interference, in which to remediate any such unreasonable interference. Notwithstanding such cure period, Lessee shall indemnify Lessor for any damage, costs due to the inability to operate or less efficient operation of the Property, or other costs incurred by Lessor as a result of such interference.

ii. Installation in a Good and Workmanlike Manner. Lessee must, at its sole cost and expense, install, or cause to be installed, the Communications Equipment in a good and workmanlike manner, subject to inspection and reasonable approval by Lessor.

iii. Maintenance During Installation. Lessee must promptly clean, or cause to be cleaned, all mud, dirt, or debris deposited on the drive, within the building, on the roof, or any portion of the Property, or other public property, street, or sidewalk caused by the Lessee or any agent of or contractor hired by, or on behalf of, the Lessee, and must repair any damage that may be caused by the activities of Lessee or any agent of or contractor hired by, or on behalf of, Lessee in connection with the installation of the Communications Equipment. If Lessee fails to clean, or undertake with due diligence to clean, on the drive, within the building, on the roof, or any portion of the Property, or other public property, street, or sidewalk within one business day after Lessor gives Lessee written notice to clean all mud, dirt, snow, ice or debris deposited on such property by Lessee or any agent of or contractor hired by, or on behalf of, Lessee, then Lessor will have the right, but not the obligation, to cause the affected public property to be cleaned and to recover from Lessee all actual, reasonable costs incurred by Lessor in the performance of such work

b) Maintenance.

i. Acknowledgment of Lessee's Obligations. Lessee acknowledges and agrees that: (i) Lessee, and not Lessor, is solely responsible for the operation, maintenance, repair, and replacement of the Communications Equipment; and (ii) Lessee must maintain the Communications Equipment in good repair and slightly condition.

ii. Maintenance in Proper and Working Condition. Lessee must keep the Communications Equipment at all times in the proper condition for their intended use and in a condition of good repair.

iii. No Storage. Lessee acknowledges and agrees that the Premises may not be used at any time for storage of any materials or equipment.

iv. Compliance with Laws. Lessee must keep the Communications Equipment in compliance at all times with all applicable federal, state and local laws, statutes, codes, ordinances, resolutions, rules, and regulations, as the same have been or may be amended from time to time.

c) Abatement of Dangerous Condition. In the event the Communications Equipment threatens public health and safety, the Lessee, upon written notice from Lessor, agrees to remediate the dangerous condition within a reasonable period, based on the nature of the threat. In the event that (i) Lessee fail to cure such dangerous condition in a reasonable amount of time after receiving such written notice from Lessor, or (ii) if Lessor, in its sole discretion, determines that the dangerous condition must be immediately abated and it would not be reasonable to provide Lessee a cure period: (a) Lessor has the right, but not the obligation, to take all necessary action to abate the dangerous condition; and (b) Lessee must reimburse Lessor for all actual, third party out-of-pocket reasonable costs incurred by Lessor in the performance of such abatement.

d) Compliance with Plans. Lessee's installation, use, operation, maintenance, and replacement of the Communications Equipment and the Premises must comply with plans reasonably approved by Lessor. Any maintenance, repair, or replacement of the Communications Equipment may not materially alter the design of the Communications Equipment as depicted in the plans approved by Lessor, except upon the prior written consent of Lessor, which shall not be unreasonably withheld, conditioned or delayed. Notwithstanding the foregoing, Lessor may reject any plans that do not take steps to minimize the visual appearance of the Communications Equipment, such as painting of the Communications Equipment to match the color of the Smokestack and installing the smallest reasonably available Communications Equipment.

e) Plans. The plans should include a statement from a registered engineer prior to and following construction stating that: (i) the methods are consistent with accepted engineering standards and will not interfere with the Lessor's use of the Premises or the use of the Premises by any other existing lessee or tenant; and (ii) the Communications Equipment does not, and will not, threaten the structural integrity of the Premises and Property. Lessee agrees to notify Lessor prior to any welding or structural attachments to the Premises. Following such notice Lessor will complete a pre-construction inspection of the work and Premises. Similarly, Lessee will notify the Lessor following the completion of any such work and request a post-work inspection. Lessee agrees to bear the full costs of the pre and post inspection work

f) Signs. Lessor may not install or display any signage on any portion of the Premises without the prior written approval of Lessor, which approval may be denied in Lessor's sole discretion.

g) All Communications Equipment attached to the tower shall be painted to match the color of the tower and no materials may be used in the installation of the antennae or transmission lines that will cause corrosion or rust or deterioration of the tower structure or its appurtenances.

h) **Prevailing Wage.** The Communication Equipment is and shall remain the property of Lessee; and upon the expiration or earlier termination of this Lease, Lessee shall, at Lessee's sole cost and expense, remove the Communication Equipment and restore the Property and Premises to a similar condition, wear and tear, casualty and condemnation excepted. To the extent required by law, Lessee will ensure that all improvement work completed on behalf or for the use of the Lessee, by Lessee or any of its contractors shall be performed at not less than the prevailing hourly rate pursuant to the Illinois Prevailing Wage Act 820 ILCS 130, et seq. If Lessee's employees will not be performing any work under the Lease to which the Prevailing Wage Schedule applies, Lessee will impose the prevailing wage requirement on all contractors and their subcontractors performing applicable work under the Lease.

i) **Non-Use of Communications Equipment.** In the event that Lessee stops using any of the Communications Equipment on the Premises for more than 60 consecutive days, Lessee must remove from the Communications Equipment from the Premises.

**11. EMERGENCY CONTACT.** Upon the execution of this Lease, Lessee must provide Lessor with an emergency contact so that Lessor can contact Lessee by phone and other means 24 hours a day in the event of an emergency.

**12. HAZARDOUS SUBSTANCES.** It shall be responsibility of the Lessee to assess whether the environmental condition of the Property is suitable for the Lessee's purposes. Lessee shall not introduce any such substance or chemical or waste onto the Property in violation of applicable law.

**13. COMPLIANCE WITH LAWS.** Lessee shall comply with all applicable local, state, and federal government laws, codes and regulations, relating to the Communications Equipment, including without limitation FAA, FCC, NEPA, occupational health and safety, environmental, and electromagnetic (EME) requirements, and applicable requirements of the Americans with Disabilities Act. To the extent any lighting, marking and/or painting is required by law by virtue of the installation of Lessee's equipment (including the antennae), Lessee agrees to comply with such lighting, marking and/or painting requirements at Lessee cost and expense.

**14. TAXES.** It is understood Lessor is a tax exempt entity and there should be no real estate taxes due to its tax exempt ownership and use of the Property, or use of the Property for tax exempt purposes. If the Property or any portion or leasehold interest thereon, created by this Site Lease, becomes subject to real estate taxation due to this Site Lease, actions of the Lessee or the fact that Lessee owns or is operating equipment on the Property, the Lessee shall pay when due any such real estate tax amounts.

**15. ASSIGNMENT.** This Lease shall not be subleased, assigned, or transferred by Lessee except upon prior written approval of Lessor, except as otherwise set forth herein. Lessor's approval of Lessee's sublease, assignment or transfer under this Section 15 shall not be unreasonably withheld. Lessee is not authorized to lease any space on the Premises or Property to other tenants, lessees or licensees. Without requiring the Lessor's consent, Lessee shall have the right to assign, transfer or sublease to an entity resulting from a divestiture, sale, spin-off, merger, consolidation, stock-sale, acquisition or other corporate transaction by providing written notice to Lessor no less than sixty (60) days after the closing of such transaction.

**16. TERMINATION PRIOR TO EXPIRATION.** This Lease may be terminated without further liability by the non-defaulting party upon 30 days' prior written notice to the other party upon a default of any material covenant or term hereof by the other party which is not cured within 30 days of receipt of written notice of default; or, if such default is not curable within 30 days, if the defaulting party fails to commence such cure within 30 days or fails thereafter diligently to prosecute such cure to completion; provided that the cure period for any monetary default shall be 30 days from receipt of notice.

This Lease may be terminated by Lessor on at least 30 days' prior written notice to Lessor if Lessor is not using STARCOM. This Lease may also be terminated by Lessee on at least 30 days' prior written notice to Lessor if (i) Lessee is unable to obtain any requisite permit or authorization or any such permit or authorization is subsequently canceled withdrawn, terminated, revoked, or not renewed; (ii) Lessee does not obtain from any third party any easement necessary to the installation, access, operation, maintenance, or removal of the Communications Equipment; (iii) any physical equipment or electronic emissions materially interfere with the operation of the Communication Equipment; or (iv) authorization to operate, maintain or integrate the communications network in which the Communications Equipment is a part is superseded or terminated by state or federal authority. This Lease may be terminated by Lessee without further liability upon delivery of written notice to the Lessor if Lessee determines that Lessor did not on the Commencement Date have ownership of the Property or authority to enter into this Lease. Lessee may also terminate this Lease at any time by delivering to Lessor written notice of termination, which shall be effective 60 days after it is received by Lessor.

## **17. RESTORATION.**

a) Lessee's Obligations. Upon termination of this Lease, Lessee, at its sole cost and expense, must restore the Premises and Property as nearly as practicable to its similar condition as of the start of the Term, wear and tear, casualty and condemnation excepted including, without limitation: (1) removal of the Communications Equipment; (2) replacement and grading of all topsoil removed by Lessee, if and to the extent applicable; and (3) repair of the tower for any damage caused by Lessee.

b) Failure to Restore. In the event that Lessee fail or refuse to restore the Property or the Premises in accordance with Section 17.a of this Lease within a reasonable period of time after receipt of written notice from Lessor, Lessor has the right, but not the obligation, to perform and complete the restoration, and to charge Lessee for all actual, reasonable costs and expenses, including reasonable legal and actual costs incurred by Lessor, for such work. The rights and remedies provided in this Section 17.b are in addition to, and not in limitation of, any other rights and remedies otherwise available to Lessor.

c) Survival of Obligations. All obligations of Lessee pursuant to this Lease that have not been fully performed as of the termination of this Lease survive such termination, including, without limitation, the liability and indemnity obligations set forth in Section 6, the tax obligations set forth in Section 14, and the restoration obligations set forth in Section 17 of this Lease.

## **18. CASUALTY OR CONDEMNATION.**

a) Casualty. If there is a casualty to the Premises where the Communications Equipment is located, Lessee may elect to terminate this Lease by so notifying Lessor in writing.

b) Condemnation. If there is a condemnation of the Premises, then this Lease will terminate upon transfer of title to the condemning authority, without further liability to either party. Lessor shall notify Lessee in writing within ten (10) days after it receives notice of any actual or contemplated condemnation proceedings.

**19. LIENS.** Lessee hereby represents and warrants that it will take all necessary action to keep all portions of the Property and Premises free and clear of all liens, claims, and demands, including without limitation mechanic's liens, in connection with the Communications Equipment and any work performed by Lessee or their agents on the Property and Premises.

**20. NOTICES.** Any notice or demand required to be given herein shall be made by reliable overnight courier to the address of the respective parties set forth below and shall be deemed given on the date delivery is received or refused, as follows:

To Lessee, notices shall be sent to:

Motorola Solutions, Inc.  
Attention: \_\_\_\_\_  
Lisa Wilkins  
1299 East Algonquin Road  
Schaumburg, IL 60196

and

Motorola Solutions, Inc.  
Global Real Estate Counsel  
Chief Administrative Office  
500 West Monroe, Suite 4300  
Chicago, IL 60661

To Lessor, notices shall be sent to:

Village of Algonquin  
2200 Harnish Drive  
Algonquin IL 60102  
Attention: Village Manager

With a copy to: Zukowski, Rogers, Flood & McArdle  
50 Virginia Street Crystal Lake, IL 60014  
Attn: Kelly Cahill, Village Attorney

Either party may change its address by giving the other notice of a new address in accordance with the terms of this section. All payments to Lessor required hereunder shall be sent to the address specified for Lessor above.

**21. RECORDATION.** Neither this Lease, nor any memorandum or other summary version thereof, shall be recorded.

**22. IDENTIFICATION OF PARTIES.** References to Lessee herein shall include Lessee's transferee's, successors, and assigns. References to Lessor herein shall include Lessor's transferee's, successors, and assigns.

**23. DISPUTE RESOLUTION.** Lessor and Lessee shall attempt to settle any claim or controversy arising out of this Lease (except for a claim relating to intellectual property or breach of confidentiality) through consultation and negotiation in the spirit of mutual friendship and cooperation. Such shall not be construed to affect adversely the rights of either party under the doctrines of laches, waiver or estoppel. Nothing in this section shall prevent either party from resorting to judicial proceedings if: (A) good faith efforts to resolve a dispute under these procedures have been unsuccessful; or (B) interim resort to a court is necessary to prevent serious and irreparable injury to a party or to others.

**24. SEVERABILITY.** If any one or more of the provisions of this Lease shall be held by court of competent jurisdiction in a final judicial action to be void, voidable, or unenforceable, such provision(s) shall be deemed severable from the remaining provisions of this Lease and shall in no way affect the validity of the remaining provisions of this Lease. No waiver by any party hereto of a breach of any provision of this Lease shall constitute a waiver of any preceding or succeeding breach of the same or any other provision hereof.

**25. BROKERS.** Lessor and Lessee each represents to the other that he, she or it did not deal with any broker or other person who may be entitled to a commission as a result of the transaction contemplated by this Lease.

**26. APPLICABLE LAW.** This Lease shall be governed by, and enforced in accordance with the internal laws, but not the conflicts of laws rules, of the State of Illinois. Venue for all enforcement purpose shall lie in the Circuit Court of McHenry County for state claims and the District Court for the Northern District of Illinois, at Rockford, Illinois, for federal claims.

**27. NO THIRD PARTY BENEFICIARIES.** No claim as a third party beneficiary under this Lease by any person may be made, or be valid, against the Lessor or Lessee.

**28. NON-BINDING UNTIL FULLY EXECUTED.** The parties agree that this Lease shall not be binding on either party unless and until it is fully executed by both parties. If this Lease is signed by only one party, it shall merely constitute an offer to lease.

**29. ENTIRE AGREEMENT; AMENDMENTS.** This Lease, together with the Exhibits attached hereto, constitutes the entire understanding and agreement of the parties with respect to its subject matter; and there are no representations, promises or agreements between the parties except those found in this Lease; and any and all prior agreements, understandings or representations with respect to its subject matter, whether written or oral, are hereby canceled in their entirety and are of no further force or effect Any amendments to this Lease must be in writing and executed and delivered by both parties.

**LESSOR:**

**LESSEE:**

**VILLAGE OF ALGONQUIN**

**MOTOROLA SOLUTIONS, Inc.**

By:\_\_\_\_\_

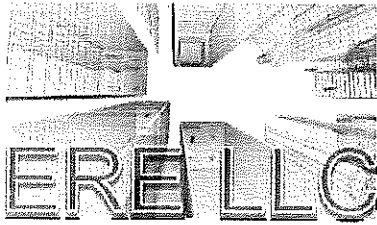
By:\_\_\_\_\_

Name:\_\_\_\_\_

Name:\_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_



## **Structural Analysis Report**

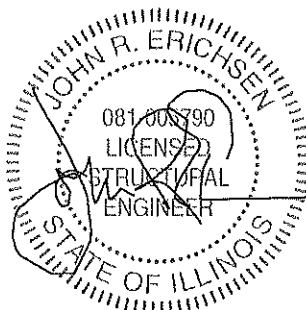
**Owner:** McHenry County  
**Owner Site:** City of Algonquin, IL

**Structure Type:** Self Supporting Tower  
**Manufacturer:** Rohn  
**Serial No.:** Unknown  
**Model:** 120' SSV

**Completed:** November 30, 2016

**Requested By:** Jim Vogel  
ISI

**Completed By:** John R. Erichsen, SE PE



EXPIRES 11-30-2016

11-30-2016

ILLINOIS COA NUMBER: 184.006366-0003



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## I. EXECUTIVE SUMMARY

The structural analysis of Rohn 120' SSV self-supporting tower located in Algonquin (McHenry Co.), Illinois was commissioned to ascertain if it is capable of supporting the existing + proposed loading as described in section IV. A rigorous structural analysis was performed using TNXTower. The analysis review includes the major components of the structure, the bolted connections, and major sub-components except as noted in the body of this report, and section II. When the critical measurements or member descriptions are not available, assumptions were made. Assumed member descriptions, and attributes will be listed in section II. The validity of the analysis is solely based upon the information provided. The reanalysis was completed without benefit of physical inspection of the structure to confirm the member distribution, member descriptions, member grade, critical member dimensions; antenna, mount and line information; and the condition assessment of the structure. If any of the information presented is in error, please contact EET LLC immediately. Any conclusions represented in this report are voided if the information provided or the assumptions listed are not representative of the physical installation.

### TOWER:

It is our conclusion that the tower **is compliant** with the indicated TIA Standard when the **existing** antenna, mount and line loading is considered.

It is our conclusion that the tower **is not compliant** with the indicated TIA Standard when the **existing + proposed** antenna, mount and line loading placed at 100' is considered. The tower can be modified to accommodate the noted loading in accordance with the noted TIA Standard.

It is our conclusion that the tower **is compliant** with the indicated TIA Standard when the **existing + proposed** antenna, mount and line loading placed at 60' is considered.

### FOUNDATIONS:

The foundations were not reviewed. Foundation and geotechnical information was unavailable at the time of this documents publication. Similarly, the original design reactions used to build the installed foundation were unavailable to complete a comparative review.

### Current TIA requirements:

- 90 mph 3-Second gust basic wind speed with no ice considered in accordance with TIA-222-G.
- 40 mph 3-Second gust basic wind speed with a design ice thickness of 3/4" considered in accordance with TIA-222-G.
- 60 mph 3-Second gust basic wind speed with no ice for Service in accordance with TIA-222-G.

In addition to the wind loading listed, the following items were incorporated into the analysis.

- Structure Class III designation – **Essential facilities**
- Exposure C – **Open terrain with scattered obstructions**
- Topography category 1 – **No abrupt changes of topography**

## II. ASSUMPTIONS

**This engineering study is based on the theoretical capacity of the structure. It is not a condition assessment of the tower.** This report is provided without the benefit of an inspection and is based on information supplied by the customer. We have not, nor are we required to, confirm the accuracy of the information provided. In some instances, we will have contacted the manufacturer to confirm design assumptions, and/or critical member information. In this case of this structure photos and an inspection report detailing the towers condition were provided. Based upon these photos, observations about the condition of the structure will be listed below. These observations will focus on the issues that directly threaten the conclusion of this study. Obviously, all of the observations must be addressed by the owner in order to ensure the proper operation of the structure in accordance with the requirements of the TIA standard as well as local and national building codes. The data obtained from the manufacturer will be noted below.

Therefore, unless specifically informed to the contrary by the customer in writing, we have assumed the following for the purpose of the structural analysis of the tower:

### **General Assumptions:**

- A. The tower is erected and maintained in accordance with the manufacturer's plans and specifications and is plumb;
- B. The tower is erected and maintained in accordance with the requirements of the TIA standard;
- C. There is no damage, natural or manmade, to the structure, either gradual or sudden;
- D. All connections are properly installed;
- E. The information concerning the components, existing and proposed, is accurate;
- F. There are no modifications to the tower itself, except as may be disclosed elsewhere in this report;
- G. The tower was manufactured in accordance with the requirements or criteria defined by the American Institute of Steel Construction and the American Welding Society;
- H. All of the welded connections are adequately sized to resist the unmodified connected member's capacity.
- I. The strength of the mounts and their connection to the structure was not evaluated as part of this study. It is assumed that the strength of the mounts and their connection to the structure has been evaluated by others to confirm the associated loading attached to each mount is in compliance with the strength requirements of the TIA standard.

### **Structural Assumptions:**

Please refer to the attached tower elevation presented in the appendix. Based upon the documents provided, the profile depicted represents the structure reviewed. Similarly, the foundations were reviewed utilizing the information represented in the documentation provided. The actual installation may vary, if information arises that demonstrates that the installed foundations are not consistent with the documentation provided, the conclusions of this report may be invalid. The following specific items were assumed for this project.

- A. None.

### III. CODE COMPLIANCE

○ **Tower:**

The current structural standard used within the communications industry is ANSI/TIA-222-G-2-2009. The tower was reviewed utilizing the following wind loading combinations:

- A 90 mph 3-second basic wind speed with no ice considered in accordance with TIA-222-G-2.
- A 40 mph 3-second basic wind speed with design ice thickness of 3/4" considered in accordance with TIA-222-G-2.
- 60 mph 3-Second gust basic wind speed with no ice for Service in accordance with TIA-222-G.

The following revision G design parameters were used:

- Structural Classification III
- Exposure C
- Topographic category I

**Foundation:** The foundations were not reviewed. A geotechnical report was unavailable.

## IV. ANTENNA LOADING

The table below lists antenna, mount and line loading that was used to evaluate the structure. Each antenna is denoted as existing (currently on the tower), reserved (future), temporary (to be removed), removed or proposed (to be added).

### Existing + Proposed Loading:

ID	Height	Disposition	Antennas		Mounts		Transmission Lines		
			Qty	Model/Description	Qty	Model/Description	Qty	Size	Arrangement*
1	120'	Existing	1	UHF Dipole (DB222*)	-	Top mounted	1	7/8"	Exposed
2	119'	Existing	1	YAGI (DB292*)	1	6' scissor mount (Assumed EPA used)	1	1/2"	Exposed
3	110'	Existing	1	8' OMNI (2.5" Dia. Assumed)	-	Leg mounted	1	7/8"	Exposed
4	97'	Existing	1	2' Solid w/Radome Dish	-	Leg/pipe mounted	1	7/8"	Exposed

### Existing + Proposed at 100' Loading:

ID	Height	Disposition	Antennas		Mounts		Transmission Lines		
			Qty	Model/Description	Qty	Model/Description	Qty	Size	Arrangement*
1	120'	Existing	1	UHF Dipole (DB222*)	-	Top mounted	1	7/8"	Exposed
2	119'	Existing	1	YAGI (DB292*)	1	6' scissor mount (Assumed EPA used)	1	1/2"	Exposed
3	110'	Existing	1	8' OMNI (2.5" Dia. Assumed)	-	Leg mounted	1	7/8"	Exposed
4	97'	Existing	1	2' Solid w/Radome Dish	-	Leg/pipe mounted	1	7/8"	Exposed
5	100'	Proposed	2	SC479-HL TTA01	2	PSA6	1	1-1/4"	Exposed
			1				1	7/8"	
							1	1/2"	

### Existing + Proposed at 60' Loading:

ID	Height	Disposition	Antennas		Mounts		Transmission Lines		
			Qty	Model/Description	Qty	Model/Description	Qty	Size	Arrangement*
1	120'	Existing	1	UHF Dipole (DB222*)	-	Top mounted	1	7/8"	Exposed
2	119'	Existing	1	YAGI (DB292*)	1	6' scissor mount (Assumed EPA used)	1	1/2"	Exposed
3	110'	Existing	1	8' OMNI (2.5" Dia. Assumed)	-	Leg mounted	1	7/8"	Exposed
4	97'	Existing	1	2' Solid w/Radome Dish	-	Leg/pipe mounted	1	7/8"	Exposed
5	60'	Proposed	2	SC479-HL TTA01	2	PSA6	1	1-1/4"	Exposed
			1				1	7/8"	
							1	1/2"	

Proposed loading

\*Assumed model

These mounts were assumed based on pictures taken on-site. It is recommended that the actual manufacture and model number are found and recorded for future reference so that as the tower approaches its ultimate loading, the actual equipment is known. The antennas, mounts, and lines listed represent my understanding of the antenna loading that the reanalysis was commissioned to evaluate. Please contact me if any discrepancies are evident. If different antennas, mounts, or lines are installed on this structure, this analysis is invalid.

ERE, LLC

10321 Adams Road

PO Box 1347

Granger, IN 46530

CITY OF ALGONQUIN MCHENRY COUNTY SAR 11-30-2016.docx

Phone: 574-277-0670

Fax: 574-277-0670

Email: bill.rettig@e2t-eng.com

## V. CONCLUSIONS

### TOWER:

It is our conclusion that the tower **is compliant** with the indicated TIA Standard when the **existing** antenna, mount and line loading is considered. The limiting stress ratio is 0.847.

It is our conclusion that the tower **is not compliant** with the indicated TIA Standard when the **existing + proposed** antenna, mount and line loading placed at 100' is considered. The tower can be modified to accommodate the noted loading in accordance with the noted TIA Standard. Place 1-1/4" x 1-1/4" x 3/16" A-36 leg redundant steel angles at the centerline of each unbraced span from 20' to 60'. The limiting stress ratio shifts from 1.185.

It is our conclusion that the tower **is compliant** with the indicated TIA Standard when the **existing + proposed** antenna, mount and line loading placed at 60' is considered. No modifications are required. The limiting stress ratio is 0.974.

**FOUNDATION:** The foundations were not reviewed. Foundation and geotechnical information was unavailable at the time of this documents publication. Similarly, the original design reactions used to build the installed foundation were unavailable to complete a comparative review.

## **VI. SUPPORTING DOCUMENTS**

The following documents are represented in the appendix:

- Existing tower profile with existing equipment;
- Existing tower profile with existing + proposed equipment placed at 100' without modifications;
- Modified tower profile with existing + proposed equipment placed at 100';
- Existing tower profile with existing + proposed equipment placed at 60' without modifications;
- Profile transmission lines.

## VII. DISCLAIMERS

1. The information and conclusions contained in this Report were determined by the application of the current "state of the art" engineering and analysis procedures as well as formulae. The engineering profession and the supporting theories are continuously being researched and updated as new knowledge is obtained and new techniques and tools are developed. Therefore, ERE, LLC assumes no obligation to revise any of the information or conclusions contained in this Report in the event such engineering theories, standards, engineering tools as well as analysis procedures and formulae are hereafter modified or revised.
2. In no event shall ERE, LLC be liable for any incidental, consequential, indirect, special or punitive damages (including without limitation lost profits) arising out of any claim associated with the use of this report (whether for breach of contract, tort, negligence or other form of action), irrespective of whether ERE, LLC has been advised of the possibility of any such loss or damage. In no event shall ERE, LLC total, cumulative liability to the customer exceed the amount paid by customer for the preparation of this report.
3. ERE, LLC shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than those provided by ERE, LLC including but not limited to, any services rendered by riggers, erectors or other subcontractors. Customer acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by Customer shall be solely responsible to Customer for the quality of work performed by them.
4. ERE, LLC makes no warranties, expressed or implied, in connection with this Report as to any other matter whatsoever, and in particular, any and all warranties of merchantability or fitness for a particular purpose are hereby expressly disclaimed. ERE, LLC further expressly disclaims any liability arising from material, fabrication, and erection deficiencies. This Report is being provided by ERE, LLC without the benefit of an inspection of the structure that is the subject of the report and is based solely on information supplied by the Customer. ERE, LLC has made no independent determination, nor is it required to do so, of the accuracy of the information provided by Customer. Therefore, unless specifically informed to the contrary by the Customer in writing, the following assumptions apply to the Report:
  - A. The subsoil characteristics exist as stated on the tower drawing or stated elsewhere in this report;
  - B. The tower is erected and maintained in accordance with the manufacturer's plans and specifications and is plumb;
  - C. There is no damage, natural or manmade, to the structure, either gradual or sudden;
  - D. All connections are properly installed;
  - E. The information concerning the components, existing and proposed, is accurate; and
  - F. There are no modifications to the tower itself, except as may be disclosed elsewhere in this report. Examples include but are not limited to replacement or strengthening of bracing members, reinforcing vertical members in any manner, adding additional bracing, or extending tower.
  - G. The assumptions represented in section as defined by the Customer or the manufacturer's representative if contacted are valid.
  - H. The tower manufacturer's workmanship during the original fabrication of the structure is compatible with the materials selected and represented by the information provided by the Customer, and the fabrication techniques employed are consistent with commonly accepted fabrication techniques as defined by the American Institute of Steel Construction and the American Welding Society.
5. All representations and recommendations and conclusions are based upon the information contained and set forth herein. If Customer is aware of any information which is contrary to that which is contained herein, or if Customer is aware of any defects arising from the original design, material, fabrication, and erection deficiencies Customer must disregard this Report and immediately contact ERE, LLC to determine the effect that the information may have upon the conclusions represented in this report.
6. This report does not constitute a construction document. Any modification of the structure shall be completed under the direction of a qualified person with knowledge of the industry and associated equipment.
7. The strength of the mounts and their connection to the structure was not evaluated as part of this study. It is assumed that the strength of the mounts and their connection to the structure has been evaluated by others to confirm the associated loading attached to each mount is in compliance with the strength requirements of the TIA standard.



## **VIII. APPENDIX**

Section	T1	T2	T3	T4	T5	T6	120.0 ft
Legs	SR 15/16	SR 1 1/4	SR 1 7/16	ROHN 2 STD	ROHN 2.5 STD	ROHN 2.5 STD	
Leg Grade	A36	A36	A36	A572-50	A572-50	A572-50	
Diagonals	SR 7/16	SR 5/8	SR 5/8	L1 1/2x1 1/2x1/8	L1 1/2x1 1/2x1/8	L1 1/2x1 1/2x1/8	
Diagonal Grade	SR 7/16	SR 5/8	SR 5/8	N.A.	N.A.	N.A.	
Top Girts	SR 7/16	SR 5/8	SR 5/8	N.A.	N.A.	N.A.	
Bottom Girts	SR 7/16	SR 5/8	SR 5/8	N.A.	N.A.	N.A.	
Face Width (ft)	1.5	1.83	2.17	2.5	4.52	6.56	
# Panels @ (ft)	23 @ 0.665942	23 @ 0.662319	23 @ 0.855942	10 @ 4	4 @ 5	4 @ 5	
Weight (K)	0.3	0.4	0.5	0.4	0.5	0.6	
							0.0 ft
							20.0 ft
							40.0 ft
							60.0 ft
							80.0 ft
							100.0 ft
							120.0 ft

## EXISTING TOWER EXISTING LOADING

### DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
UHF Dipole (DB222)	120	2.5" x 8' Omni	110
Yagi (DB292)	119	Andrew 2' w/Radome	97
6' Side Arm (1)	119		

### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36	36 ksi	58 ksi	A572-50	50 ksi	65 ksi

### TOWER DESIGN NOTES

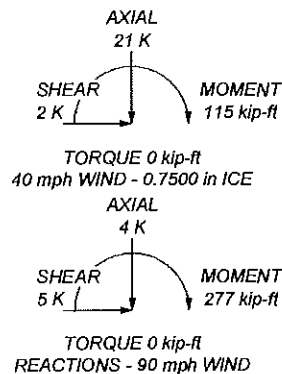
1. Tower is located in Mchenry County, Illinois.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 84.7%

ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 37 K  
SHEAR: 3 K

UPLIFT: -33 K  
SHEAR: 3 K



PO BOX 1347 GRANGER, IN 46530 Phone: 574-277-0670 FAX: 574-277-0670	Job:	<b>CITY OF ALGONQUIN</b>			
	Project:	<b>MCHENRY COUNTY</b>			
	Client:	ISI	Drawn by:	JOHN ERICHSEN	
	Code:	TIA-222-G	Date:	11/30/16	
	Path:	D:\Customers\ISI\ALGONQUIN\Analysis\Algonquin existing.en			
		App'd:		Scale:	NTS
				Dwg No.	E-1

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Phone: 574-277-0670  
FAX: 574-277-0670

Section	T6	T5	T4	T3	T2	T1
Legs	ROHN 2.5 STD		ROHN 2 STD	SR 1 7/16	SR 1 1/4	SR 1 1/8
Leg Grade		A572-50			A36	
Diagonals		L1 1/2x1 1/2x1/8		SR 5/8		SR 7/16
Diagonal Grade			A36			
Top Girts		N.A.		SR 5/8	SR 7/16	
Bottom Girts		N.A.		SR 5/8	SR 7/16	
Face Width (ft)	8.56	6.56	4.52	2.17	1.83	1.5
# Panels @ (ft)	4 @ 5	10 @ 4		23 @ 0.865942	23 @ 0.862319	23 @ 0.865942
Weight (K)	2.7	0.6	0.4	0.5	0.4	0.3

120.0 ft

100.0 ft

80.0 ft

60.0 ft

40.0 ft

20.0 ft

0.0 ft

# EXISTING TOWER EXISTING AND PROPOSED LOADING AT 100'

## DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
UHF Dipole (DB222)	120	SC479-HL No Pipe No Ka	100
Yagi (DB292)	119	PSA6 NO PIPE Ka = 1.0	100
6' Side Arm (1)	119	PSA6 NO PIPE Ka = 1.0	100
2.5" x 8" Omni	110	TIA01 No Pipe No Ka	100
SC479-HL No Pipe No Ka	100	Andrew Z w/Radome	97

## MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36	36 ksi	58 ksi	A572-50	50 ksi	65 ksi

## TOWER DESIGN NOTES

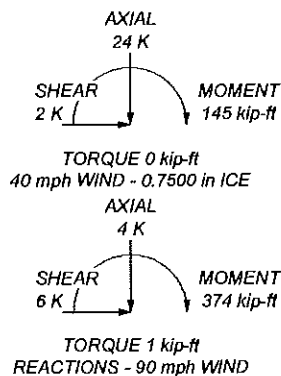
1. Tower is located in McHenry County, Illinois.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 118.5%

ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 49 K  
SHEAR: 4 K

UPLIFT: -45 K  
SHEAR: 4 K



PO BOX 1347 GRANGER, IN 46530 Phone: 574-277-0670 FAX: 574-277-0670				Job: <b>CITY OF ALGONQUIN</b>	
Project: <b>MCHENRY COUNTY</b>		Client: IISI		Drawn by: JOHN ERICHSEN	App'd:
Code: TIA-222-G		Date: 11/30/16		Scale: NTS	
Path: D:\Customer\2\ALGONQUIN\Analysis\Algonquin existing and proposed.dwg		Dwg No. E-1			

Section	T6	T5	T4	T3	T2	T1
Legs	ROHN 2.5 STD		ROHN 2 STD	SR 1 7/16	SR 1 1/4	SR 1 5/16
Leg Grade		A572-50		A36	A36	
Diagonals		L1 1/2x1 1/2x1/8		SR 5/8	SR 7/16	SR 7/16
Diagonal Grade			A36			
Top Girts		N.A.		SR 5/8	SR 7/16	SR 7/16
Bottom Girts		N.A.		SR 5/8	SR 7/16	SR 7/16
Sec. Horizontals	N.A.		L1 1/4x1 1/4x3/16		N.A.	
Face Width (ft)	8.56	6.56	4.52	2.9	2.17	1.83
# Panels @ (ft)	4 @ 5	10 @ 4	23 @ 0.865942	23 @ 0.865942	23 @ 0.865942	23 @ 0.865942
Weight (K)	2.8	0.5	0.5	0.5	0.4	0.2

120.0 ft

100.0 ft

80.0 ft

60.0 ft

40.0 ft

20.0 ft

0.0 ft

# MODIFIED TOWER EXISTING AND PROPOSED LOADING AT 100'

## DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
UHF Dipole (DB222)	120	SC479-HL No Pipe No Ka	100
Yagi (DB292)	119	PSA6 NO PIPE Ka = 1.0	100
6' Side Arm (1)	119	PSA6 NO PIPE Ka = 1.0	100
2.5" x 8" Omni	110	TIA01 No Pipe No Ka	100
SC479-HL No Pipe No Ka	100	Andrew Z' w/Radome	97

## MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36	36 ksi	58 ksi	A572-50	50 ksi	65 ksi

## TOWER DESIGN NOTES

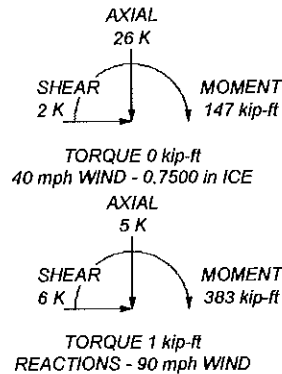
1. Tower is located in McHenry County, Illinois.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 99%

ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 51 K  
SHEAR: 4 K

UPLIFT: -46 K  
SHEAR: 4 K



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GRANGER, IN 46530  
Phone: 574-277-0670  
FAX: 574-277-0670

Job:	CITY OF ALGONQUIN		
Project:	MCHEMRY COUNTY		
Client:	ISI	Drawn by:	JOHN ERICHSEN
Code:	TIA-222-G	Date:	11/30/16
Path:	D:\Clients\2016\ALGONQUIN\Analysis\Absolute existing and proposed MODIFIED.dwg		
App'd:		Scale:	NTS
		Dwg No.	E-1

Section	T6	T5	T4	T3	T2	T1
Legs	ROHN 2.5 STD		ROHN 2 STD	SR 17/16	SR 1 1/4	SR 15/16
Leg Grade		A572-50			A36	
Diagonals		L1 1/2x1 1/2x1/8		SR 5/8		SR 7/16
Diagonal Grade			A36			
Top Girts		N.A.		SR 5/8	SR 7/16	
Bottom Girts		N.A.		SR 5/8	SR 7/16	
Face Width (ft)	8.56	6.56	4.52	2.17	1.83	1.5
# Panels @ (ft)	4 @ 5	10 @ 4	23 @ 0.862219	23 @ 0.865942	23 @ 0.862219	23 @ 0.865942
Weight (K)	2.7	0.6	0.4	0.5	0.4	0.3

120.0 ft

100.0 ft

80.0 ft

60.0 ft

40.0 ft

20.0 ft

0.0 ft

# EXISTING TOWER EXISTING AND PROPOSED LOADING AT 60'

## DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
UHF Dipole (DB222)	120	SC479-HL No Pipe No Ka	60
Yagi (DB292)	119	PSA6 NO PIPE Ka = 1.0	60
6' Side Arm (1)	119	PSA6 NO PIPE Ka = 1.0	60
2.5" x 8" Omni	110	TTA01 No Pipe No Ka	60
Andrew 2' w/Radome	97	SC479-HL No Pipe No Ka	60

## MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36	36 ksi	58 ksi	A572-50	50 ksi	65 ksi

## TOWER DESIGN NOTES

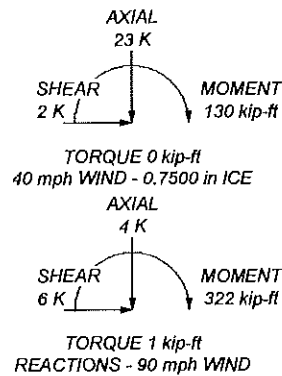
1. Tower is located in McHenry County, Illinois.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 97.4%

ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 42 K  
SHEAR: 4 K

UPLIFT: -38 K  
SHEAR: 3 K



<b>PO BOX 1347</b> <b>GRANGER, IN 46530</b> Phone: 574-277-0670 FAX: 574-277-0670			
<b>Job: CITY OF ALGONQUIN</b> Project: <b>MCHEMRY COUNTY</b> Client: <b>ISI</b> Drawn by: <b>JOHN ERICHSEN</b> App'd: Code: <b>TIA-222-G</b> Date: <b>11/30/16</b> Scale: <b>NTS</b> Path: <b>D:\Clients\ISI\ALGONQUIN\Analysis\Algonquin existing and proposed AT 60 ft.dwg</b> Dwg No. <b>E-1</b>			

# Feed Line Distribution Chart

0' - 120'

Round

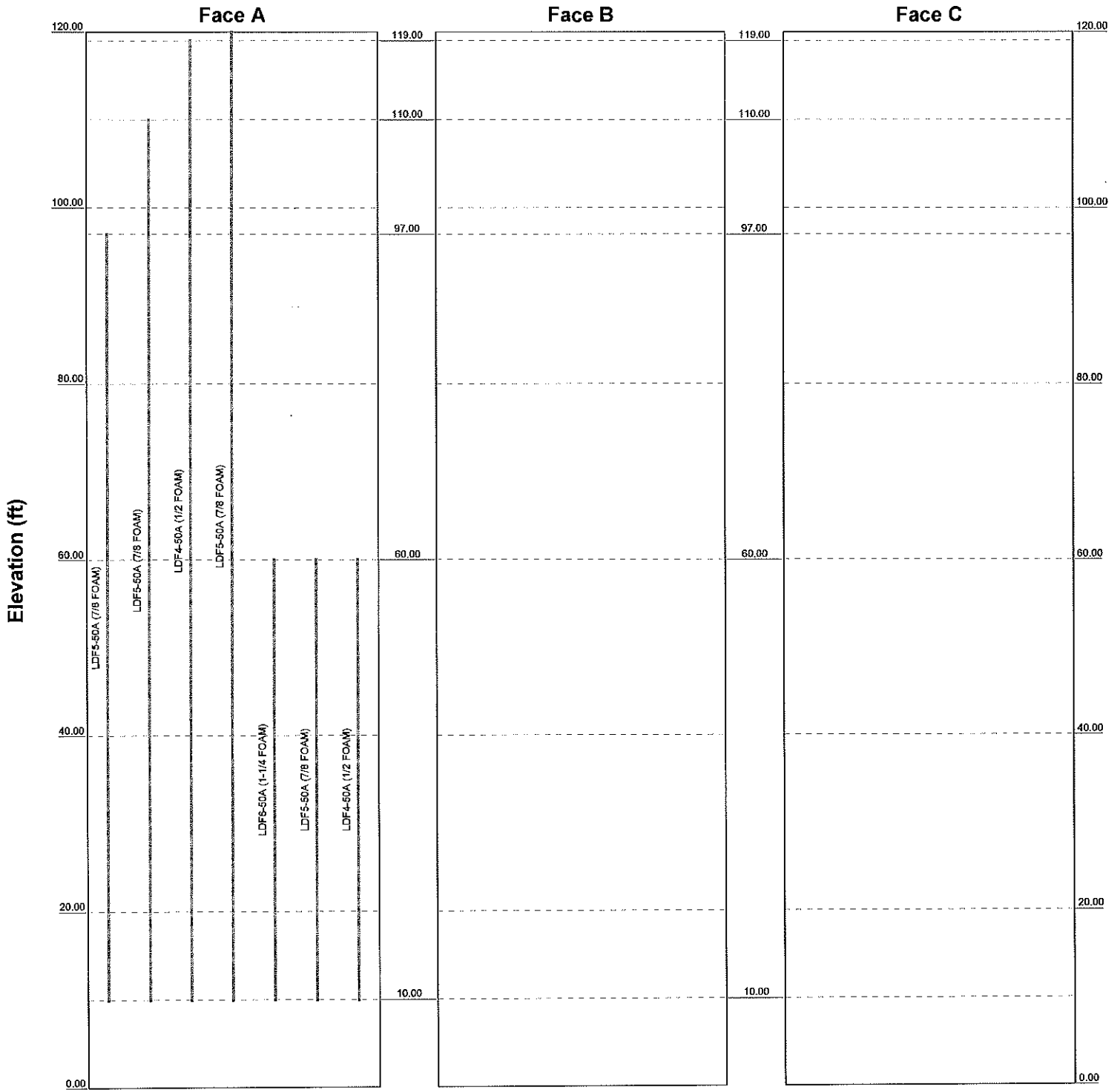
Flat

App In Face

App Out Face

Truss Leg

EXISTING TOWER EXISTING AND PROPOSED LOADING AT 60'



Job: <b>CITY OF ALGONQUIN</b>			
Project: <b>MCHENRY COUNTY</b>			
Client: <b>ISI</b>	Drawn by: <b>JOHN ERICHSEN</b>	App'd:	
Code: <b>TIA-222-G</b>	Date: <b>11/30/16</b>	Scale: <b>NTS</b>	
Path: <b>d:\Customer\SERIAL GORH2\B2\Analysis\Algonquin existing and proposed AT 60 ft.dwg</b>		Dwg No. <b>E-7</b>	

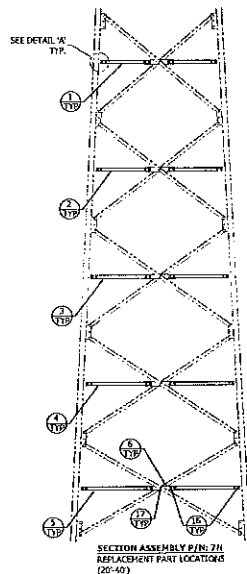
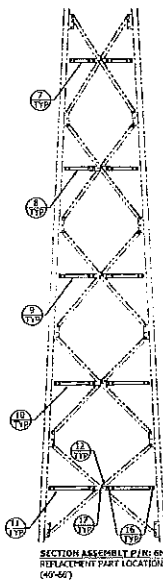
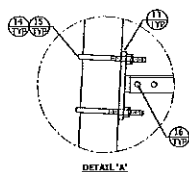
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Phone: 574-277-0670  
FAX: 574-277-0670

Section	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226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		FILE NO.	221539
		REVISIONS	
		REV#	DESCRIPTION
			DRN CLK T APP
		All Rohn drawing details, material specifications & dimensions must be approved in writing by the Engineer of Record prior to fabrication. If any are required to change, they should be documented on the drawings and returned to Rohn for a revision to the drawings. Drawings will be resubmitted to the Engineer of Record for final approval.	
		<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED, SEE COMMENTS	
		DATE: _____ RDN: _____	
		<b>ROHN®</b> PRODUCTS, LLC PO BOX 5599 PEORIA, IL 61601-5599 TOLL FREE 800-727-4206	
		<small>THIS DRAWING IS THE PROPERTY OF ROHN®. IT IS TO BE USED FOR THE PROJECT AND NOT TO BE REPRODUCED, COPIED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, OR BY ANY INFORMATION SYSTEM, WITHOUT WRITTEN PERMISSION.</small>	
		120' SSV TOWER REWORK	
DRN:	CEL	CHK'D:	CTL
		DATE: 01/24/17	
SWZ:		SHEET #:	
		1 OF 3	
PRJ. ENG:		PRJ. MGR:	
DRAWING NO.		REV:	
221539CP		0	

**ROHN®**  
 PRODUCTS, LLC  
 INSTALLATION SERVICES, INC  
 ALGONQUIN, IL  
 (GALVANIZED STEEL)





221539LA - TOWER ACCESSORIES				
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	5	VB7536	L1 50X1 50X1.19X22.08 7H H	N/A
2	6	VB7537	L1 50X1 50X1.19X24.48 7H H	N/A
3	6	VB7538	L1 50X1 50X1.19X26.91 7H H	N/A
4	6	VB7539	L1 50X1 50X1.19X33.33 7H H	N/A
5	6	VB7540	L1 50X1 50X1.19X31.67 7H H	N/A
6	15	VB1466	BAR FLAT CORR 24.125X1.16"	N/A
7	6	VB7720	L1 50X1 50X1.19X11.40" 6N H	N/A
8	6	VB7721	L1 50X1 50X1.19X11.87" 6N H	N/A
9	6	VB7722	L1 50X1 50X1.19X16.24" 6N H	N/A
10	6	VB7723	L1 50X1 50X1.19X18.66" 6N H	N/A
11	6	VB7724	L1 50X1 50X1.19X18.12" 6N H	N/A
12	15	VB5088	BAR FLAT CORR 25X2.00X11.16"	N/A
13	33	VB2138	BRACKET HORIZONTAL 2-4 LEG S91	N/A
14	60	JR234W	U-BOLT ASSY 1/2" X 3-1/2" W/WASH	N/A
15	10	STK6LS6	CLIP STEP BOLT 7GA 1.25" HDG	MS1264
16	160	210017GA	BOLT ASSY 1/2X1-1/4 AX35 HDG	N/A
17	30	210018GA	BOLT ASSY 1/2X1-1/2 AX35 HDG	N/A
18	1	AP90135	DRAWING BOLT ASSY	AP90135

#### GENERAL NOTES:

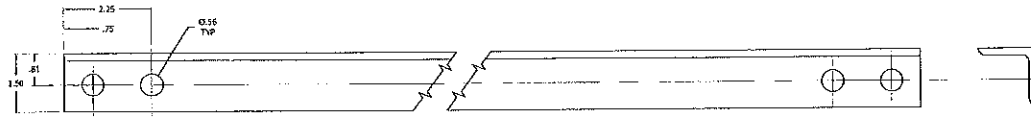
- THIS PROVIDED TOWER CONSISTS OF BOTH NEWLY FABRICATED STEEL PROVIDED BY Rohn AND EXISTING TOWER COMPONENTS PROVIDED PREVIOUSLY BY Rohn. IT IS ASSUMED THAT THE EXISTING TOWER COMPONENTS ARE IN "LIKE NEW" CONDITION. EXISTING TOWER COMPONENTS HAVE NOT BEEN INSPECTED BY Rohn.
- ALL NEW MATERIAL ARE PROVIDED PER CUSTOMER'S REQUEST.
- A LIFT LOCKING DEVICE IS PROVIDED FOR ALL TOWER BOLTS (EXCEPT AS NOTED).
- NUMBERS SHOWN IN BALLOONS DENOTE ITEM NUMBERS IN BILL OF MATERIAL.
- REFER TO THE TOWER MODIFICATION DRAWINGS PROVIDED BY ERELCO, PROJECT CITY OF ALGONQUIN, IL DATED 12/30/16 FOR ALL ASSEMBLY NOTES INCLUDING DETAILS, U-BOLT INSTALLATION DETAILS, ETC. Rohn IS PROVIDING MATERIALS ONLY PER THE PROJECT SPECIFICATIONS PROVIDED TO Rohn. ALL RESPONSIBILITY FOR ENGINEERING, INSTALLATION, FIELD WELDING, PROCEDURES, SUITABILITY OF MATERIALS, ETC. IS THE RESPONSIBILITY OF OTHERS.

JEA NO. 221539									
E-100000									
REVISION	DATE								
1	04/26/17								
<p>As Seen Drawing Details, sizes, material specifications &amp; dimensions must be approved in writing by the Engineer of Record prior to fabrication. If there are existing differences, they must be documented on this drawing and returned to Rohn for a revision to this drawing. Changes will be made based on the Engineer of Record's final decision.</p> <p><input type="checkbox"/> PREPARED <input type="checkbox"/> RECHECKED, SEE COMMENTS</p> <p>DATE: PCE</p> <p><b>Rohn</b> PRODUCTS, INC. PO BOX 5959 TROY, IL 61861-5959 TOLL FREE 800-777-5600</p> <p>THIS DRAWING IS THE PROPERTY OF Rohn. IT IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF Rohn.</p> <p>INSTALLATION SERVICES, INC. 120' SSV TOWER REWORK ALGONQUIN, IL</p> <table border="1"> <tr> <td>DATE: 04/26/17</td> <td>DATE: 04/26/17</td> </tr> <tr> <td>ENGINEER: CE</td> <td>DESIGNER: J. CE</td> </tr> <tr> <td>TRU ENGINEER: CE</td> <td>FIELD MANAGER: JDC</td> </tr> <tr> <td>DRAWING NO. 221539-01-A1</td> <td>REV. D</td> </tr> </table>		DATE: 04/26/17	DATE: 04/26/17	ENGINEER: CE	DESIGNER: J. CE	TRU ENGINEER: CE	FIELD MANAGER: JDC	DRAWING NO. 221539-01-A1	REV. D
DATE: 04/26/17	DATE: 04/26/17								
ENGINEER: CE	DESIGNER: J. CE								
TRU ENGINEER: CE	FIELD MANAGER: JDC								
DRAWING NO. 221539-01-A1	REV. D								



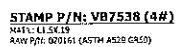
**STAMP P/N: VB7536 (4#)**  
 PART: L1 5X19  
 RAW P/N: 020181 (ASTM A329 GR50)

FILE NO.			
APPROVAL			
REV	DESCRIPTION	DATE	CHK APP
FOR FABRICATION TOLERANCES SEE DRAWING: B760385			
ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.			
<b>RQH<sup>®</sup></b> PRODUCTS, LLC PO BOX 9971 FREDERICK, MD 21705-3707 TOLL FREE: 800-725-8040			
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BRACE H 7H L3.50X.19X1.84			
DRW:	CHK:	DATE:	2/18/15
ENGR:	DATE:	SHEET #:	1 OF 1
DES. NAME:	DES. NAME:	DES. NAME:	DES. NAME:
DRAWING NO:	VB7536	REV:	0

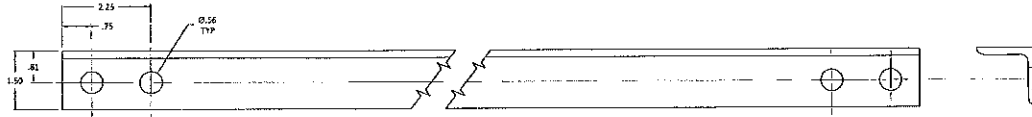


**STAMP P/N: VB7537 (4#)**  
 PART: L1 3619  
 HARDY: 900181 (ASTM A519 GR50)

FILE NO.	
REVISIONS	
REV	DESCRIPTION
FOR FABRICATION TOLERANCES SEE DRAWING: 8760295	
ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.	
<b>ROHN®</b> PRODUCTS, LLC 70 BOYSSSE FORTNEY, IL 60939-0000 TOLL FREE 800-727-4000	
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BRACE H TH L1 50X.15X2.04	
DRW	DATE
CHW	2/10/15
ENG	5-REEL 41
OE	1 OF 1
PRO ENG	PAI/PAG/K
DESIGNED	KEY
VB7537	0

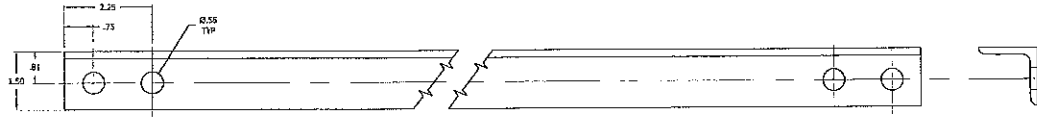


REVISIONS			
REV.	DESCRIPTION	OWN	CHK APP
<p>FOR FABRICATION TOLERANCES SEE DRAWING: 8760295</p> <p>ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.</p>			
<p style="text-align: center;"><b>ROHN</b><sup>®</sup> FABRICATION, INC.</p> <p style="text-align: center;">PO BOX 5399 PICOCA, IL 62651-9999 TOLL FREE 800 722 4686</p> <p style="text-align: center;"><small>THIS COMPANY IS AT THE DISCRETION OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRANSMITTED IN ANY FORM OR BY ANY METHOD, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION.</small></p> <p style="text-align: center;">BRACE H 70 L 50X 198Z 14'</p>			
DATE:	CHW	CHKD:	KTY DATE: 2/10/15
ENGR:	OC	SHEET:	1 OF 1
FRS. ENGR:		FRS. MGR/CHK:	
DRAWING NO:			REV:
V57538			0



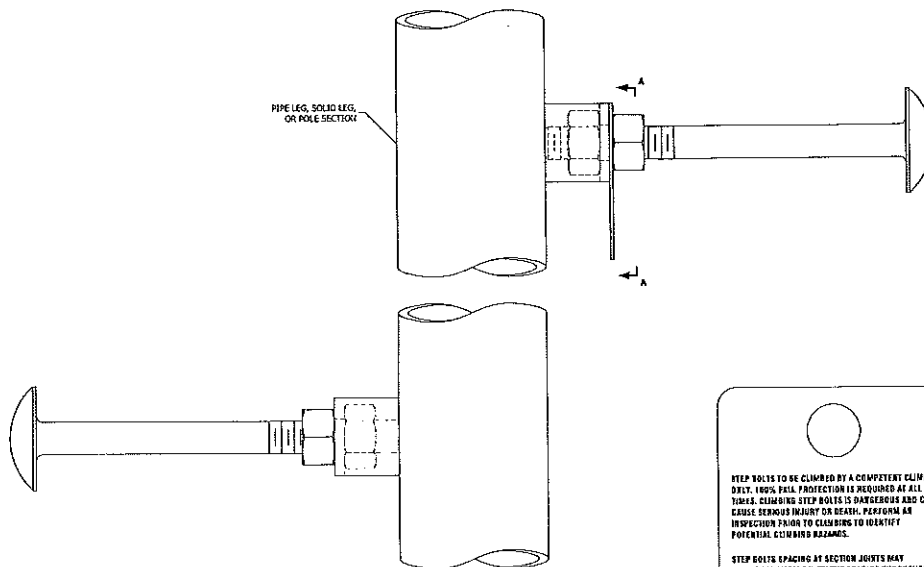
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 MAT'L: L13X19  
 RAW P/N: 020168 (ASTM A579 GR53)

FILE NO.			
REVISIONS			
REV.	DESCRIPTION	DATE	APP.
FOR FABRICATION TOLERANCES SEE DRAWING: B760195			
ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.			
<b>ROHN</b> <sup>®</sup> PRODUCTS, LLC PO BOX 5999 PEORIA, IL 61681-9999 TEL: 309.692.7777 FAX: 309.692.7778 E-MAIL: SALES@ROHN-USA.COM			
BRACE H 7H L1.50W.1992-41			
DATE:	CHK'D:	QTY:	DATE:
2/19/15			2/19/15
BY: JCR	GE	SHEET #	1 OF 1
PRL ENG'G		P23 HANSEN	
DRAWING NO.			REV
VB7539			0



**STAMP P/N: VB7540 (5#)**  
 MAT'L: L1.5K19  
 RAW P/N: 020361 (ASTM A572 GR50)

FILE NO.			
REVISION			
REV.	DESCRIPTION	DATE	BY
FOR FABRICATION TOLERANCES SEE DRAWING: 5760295			
ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.			
<b>ROHN</b> <sup>®</sup> PRODUCTS, LLC PO BOX 1999 PEORIA, IL 61603-5999 TOLL FREE 800-777-ROHN			
<small>THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE          REPRODUCED, COPIED OR TRANSMITTED IN ANY MANNER          WITHOUT THE WRITTEN CONSENT OF ROHN.</small>			
QUANTITY: 711 L1.50K.1992.64			
DATE:	CHKD:	QTY:	DATE:
08/15	08/15	215	08/15
ENGR:	DE	SHEET #	1 OF 1
FULL ENG:	08	PRO HANGER	
DRAWING NO:	VB7540		REV:
			0



- NOTE:**
1. STEP BOLTS MUST BE TURNED UNTIL THE FRONT EDGE OF THE BOLT TOUCHES THE SIDE OF THE STRUCTURE.
  2. STEP BOLTS ARE SUPPLIED FOR CONSTRUCTION PURPOSES AND ARE NOT INTENDED FOR USE BY UNQUALIFIED PERSONNEL.
  3. DEVIATION FROM PERFECT ALIGNMENT IS ACCEPTABLE. SOME SPACING INCONSISTENCY MAY EXIST AT SPACE LOCATIONS.
  4. IF STEP BOLTS ARE BELIEVED TO PRESENT SAFETY PROBLEMS TO PERSONNEL, DO NOT INSTALL THE STEP BOLTS.

STEP BOLTS TO BE CLIMBED BY A COMPETENT CLIMBER ONLY. 100% FALL PROTECTION IS REQUIRED AT ALL TIMES. CLIMBING STEP BOLTS IS DANGEROUS AND CAN CAUSE SERIOUS INJURY OR DEATH. PERSONNEL ARE INSPECTED PRIOR TO CLIMBING TO IDENTIFY POTENTIAL CLIMBING HAZARDS.

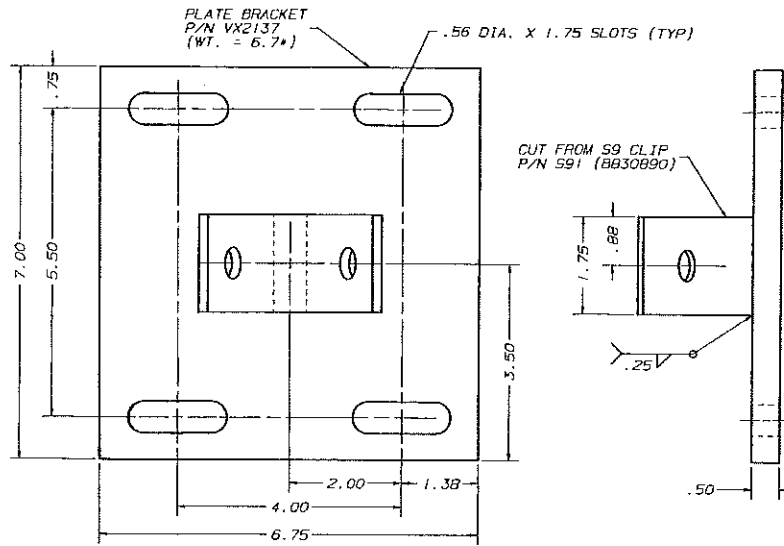
STEP BOLT'S SPACING AT SECTION JOINTS MAY NOT BE CONSISTENT WITH THE SPACING THROUGHOUT THE STRUCTURAL PLATE PLATES AT SECTION JOINTS. BOTH ATTACHMENTS TO LEGS, ETC. MAY BE AN OBSTRUCTION TO CONTINUOUS CLIMBING.

**VIEW A-A**  
**STEP BOLT CLIMBING WARNING SIGN**  
(INSTALL WARNING SIGN IN BOTTOM'S OF STRUCTURE)

PDR NO.			
REVISIONS			
REV	DESCRIPTION	DATE	BY
1	ISSUED THE PLAN	2/8	20
2	CHANGE INCLUSTERS	2/8	20
<b>RQH</b> PRODUCTS, INC. PO BOX 5590 TUCUMCARI, N.M. 88381-5590 TEL: 800-800-722 RQH			
THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF RQH PRODUCTS, INC.			
STEP BOLT INSTALLATION DETAIL			
DATE:	CHK:	DATE:	DATE:
01/16/1974	TWS	01/16/1974	01/16/1974
DATE:	CHK:	DATE:	DATE:
01/16/1974	01/16/1974	01/16/1974	01/16/1974
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01/16/1974	01/16/1974	01/16/1974	01/16/1974
B651264			6





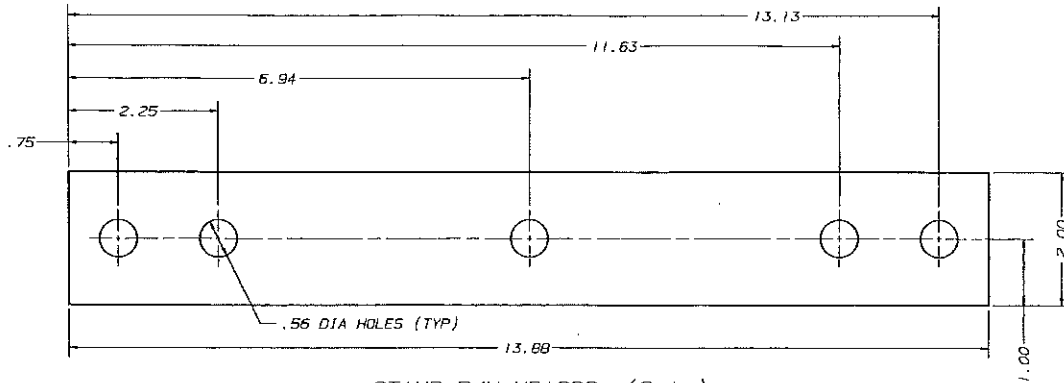


STAMP P/N VX2138

RS		UPDATED VX2137 DIMENSIONS		2-27-03	JDM	Z/L	TS
No.		Revision Description		Date Rev By Ckd By Appd By			
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Scaler: NONE				By Date			
Drawn: JMD				11/18/87			
Checked: KTL				11/20/87			
App. Eng.: TS				11/23/87			
Parent File:				DWD. NO.: B671028 5			
				SHEET 1 OF 1 REV.			

**ROHN**

HANDRAIL BRACKET  
FABRICATION FOR  
2" - 4" PIPE LEG



STAMP P/N VB1666 (2.1\*)  
2 X .25 FLAT BAR - 030005

No.	Revision Description	Date	Rev By	Chd By	Appd By
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<b>ROHN</b>					
Scale: NNE	By	Date	BAR FLAT SPLICE 2X.25X1.16'5-.56H (F/INTERMEDIATE HORIZONTAL LOC'S)		
Drawn:	JHD	1/29/01			
Checked:	WFC	2/3/01			
App. Eng.:	WFC	1/8/01			
Parent File:	C01009B	ENG. FILE:		DWG. NO.:	B010078
				SHEET 1 OF 1	REV.

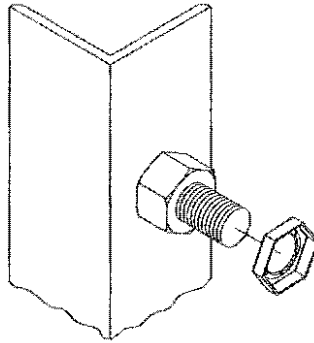


#### ASSEMBLY BOLT INSTALLATION

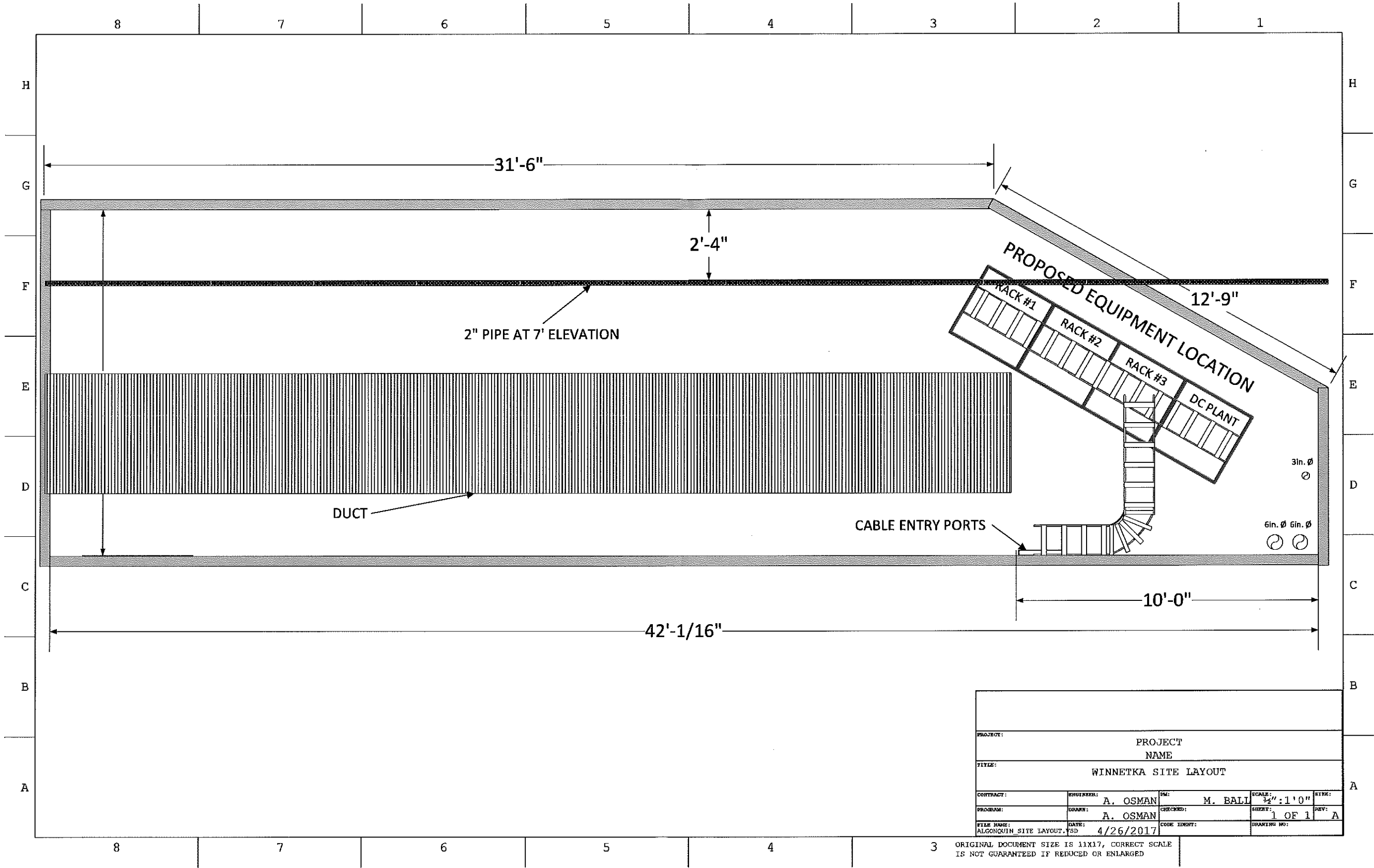
1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING.
2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES.

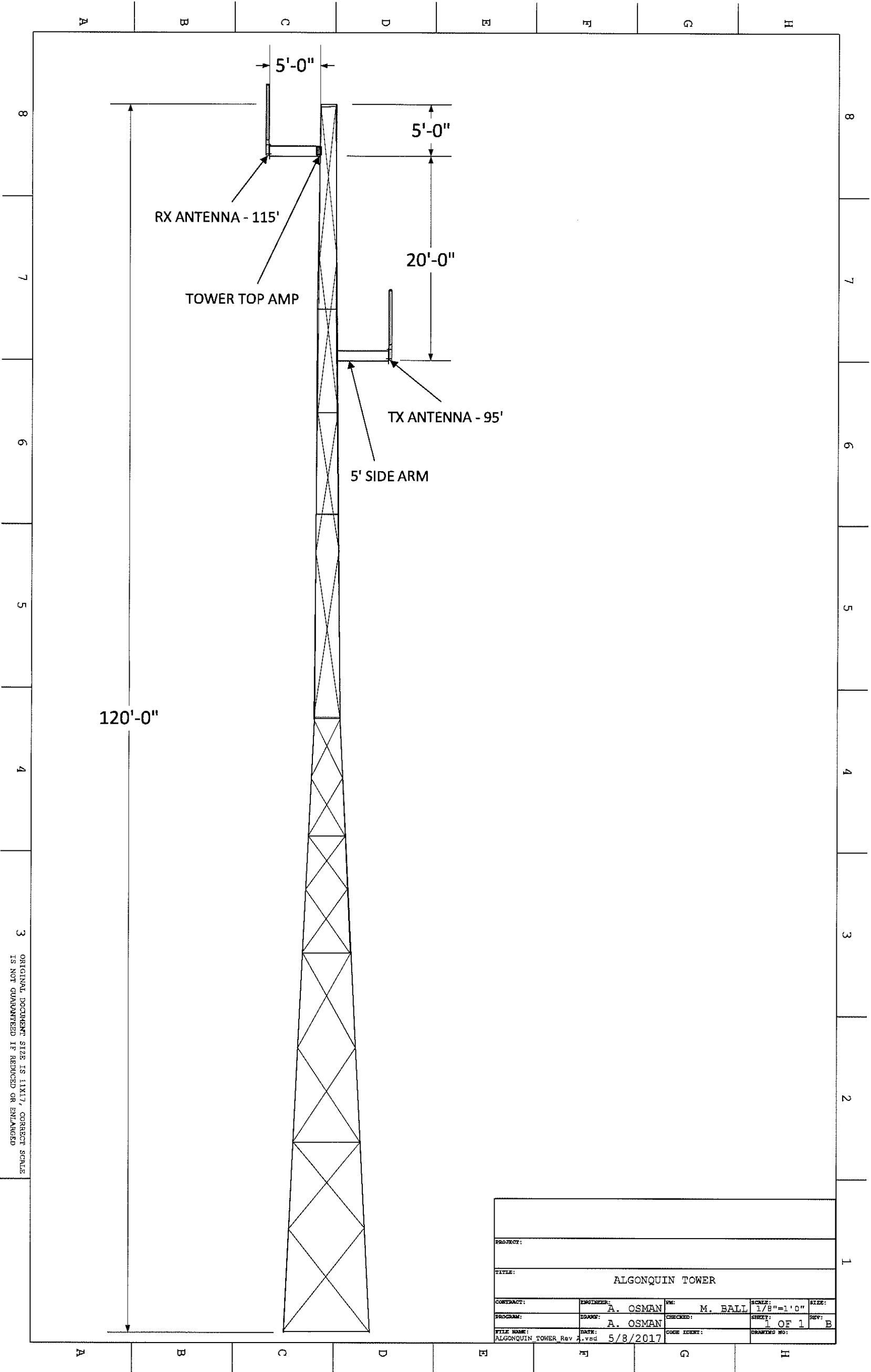
#### PAL NUT INSTALLATION

1. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED.



FILE NO.			
REVISIONS			
REV.	DESCRIPTION	DATE	BY
1	ISSUED FOR	8/1	CM
DATE ISSUED		8/1	CM
<b>ROHN</b> PRODUCTS 10104 10TH CENTRAL AVENUE TOLSON, MISSOURI 64588			
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BOLT ASSEMBLY INSTALLATION			
ENCL.	FORM	DATE	REVISION
01	001	8/1	001
BY	ISS	8/1	001
DRAWING NO.			REV.
A750115			7





PROJECT:					
TITLE: ALGONQUIN TOWER					
CONTRACT:	ENGINEER: A. OSMAN	BY: M. BALL	SCALE: 1/8"=1'0"	SIZE:	
PROGRAM:	DRAWN: A. OSMAN	CHECKED:	DATE: 5/8/2017	REV: B	
FILE NAME: ALGONQUIN TOWER Rev A.dwg	CODE IDENT:		DRAWING NO:		