

**MINUTES OF THE PLAN COMMISSION MEETING
CITY OF CHIPPEWA FALLS
MONDAY, SEPTEMBER 9, 2013**

The Plan Commission met in City Hall on Monday, September 9, 2013 at 7:30 P.M. Present were Commissioners Jeff Labs, Mike Tzanakis, Dan Varga, Beth Arneberg, Jerry Smith, Alderperson Chuck Hull, Secretary Rick Rubenzer and Mayor Greg Hoffman. Absent were Commissioners Dave Cihasky and Peter Pohl, and Vice-Chairperson Tom Hubbard. Also attending were Assistant City Engineer Matt Decur, Gary Bodig representing A T & T, Mark Mueller representing the rezoning of Lot 11, Block 1 of Zielie Addition Replat, John Schepcke representing Schepcke Sunshine Circle LLC and Bill Larson of 630 Woodward Avenue.

1. **Motion** by Smith, seconded by Tzanakis to approve the minutes of the August 12, 2013 Plan Commission meeting. **All present voting aye. Motion carried.**

2. Mayor Hoffman opened a public hearing to consider Conditional Use Permit Resolution #2013-04 to allow A T & T to install a diesel generator enclosed in steel on a 10' x 4' concrete pad in an added 10' x 15' enclosure on site at #631 Chippewa Street. Bill Larson of #630 Woodward Avenue asked how loud the generator would be and how often it would be exercised. Gary Bodig responded:
 - 1) 71 decibels at 20 feet, the approximate noise level of a hair dryer or vacuum cleaner and;
 - 2) it would be tested once per week for about twenty minutes.Mr. Larson was satisfied. Commissioner Labs asked about a lease renegotiation. Rubenzer responded that condition #4 of Conditional Use Permit Resolution #2013-04 addressed the lease rate change. Mayor Hoffman closed the public hearing.
Motion by Smith, seconded by Hull to approve Conditional Use Permit Resolution #2013-04 to allow A T & T to install a diesel generator enclosed in steel on a 10' x 4' concrete pad in an added 10' x 15' enclosure on site at #631 Chippewa Street.
All present voting aye. Motion carried.

3. John Schepcke appeared to support the attached certified survey map dividing Lot #1 and Lot #2 at #24 Sunshine Circle. This request accompanies a pending request to rezone resulting Lot #4, (on proposed CSM), from C-4 Highway Commercial to R-3A Multi-Family Residential. Mr. Schepcke provided the attached site plan to construct a 12 unit one-bedroom apartment complex.
Motion by Tzanakis, seconded by Varga to recommend the Common Council approve the attached certified survey map subdividing Lots #1 and #2 of the Gateway Center Subdivision and located at #24 Sunshine Circle into Lots #3 and #4 as shown. Said recommendation contingent upon receipt of the \$100 certified survey map review fee.
All present voting aye. Motion carried.

4. Mark Mueller appeared to support his petition to rezone Lot #11, Block #1 of the Zielie Addition Replat from R-1C Single Family Residential to R-2 Two-Family Residential. Rubenzer explained that drive access to Lot #11 would be via existing Alexander Street and Mr. Mueller would be responsible to construct sanitary and water services to Lot #11

Please note, these are draft minutes and may be amended until approved by the Common Council.

from Marilyn Street through the existing 30' wide utility easement. Commissioner Tzanakis inquired as to whether the proposed rezoning would affect offers to purchase the lots surrounding Lot #11.

Motion by Tzanakis, seconded by Varga to recommend the Common Council schedule a public hearing to consider rezoning City owned Lot #11, Block #1 of the Zielie Addition Replat from R-1C Single Family Residential to R-2 Two-Family Residential. Said public hearing to be scheduled upon receipt of the \$300 legal advertising fee and proper notice of adjacent property owners. **All present voting aye. Motion carried.**

5. **Motion** by Varga, seconded by Smith to adjourn. **All present voting aye. Motion carried.** The Plan Commission adjourned at 7:50 P.M.

Richard J. Rubenzer, P.E., Secretary
Plan Commission

**MINUTES OF THE PLAN COMMISSION MEETING
CITY OF CHIPPEWA FALLS
MONDAY, AUGUST 12, 2013**

The Plan Commission met in City Hall on Monday, August 12, 2013 at 7:30 P.M. Present were Commissioners Peter Pohl, Jeff Labs, Mike Tzanakis, Dan Varga, Beth Arneberg, Jerry Smith, Alderperson Chuck Hull, Secretary Rick Rubenzer, Vice-Chairperson Tom Hubbard and Mayor Greg Hoffman. Absent was Commissioner Dave Cihasky. Also attending were Gary Bolding of General Dynamics, representing AT&T, John Scheppke of Scheppke Sunshine Circle LLC, Assistant City Engineer Matt Decur and Alderperson Jane Lardahl.

1. **Motion** by Hubbard, seconded by Varga to approve the minutes of the July 8, 2013 Plan Commission meeting. **All present voting aye. Motion carried.**

2. John Scheppke appeared to request rezoning parcel #1703.02 located at #24 Sunshine Circle from C-4 Highway Commercial to R-3A Multi-family zoning district. Mr. Scheppke stated that the apartment was planned for 16 single family units. He continued that they were 750 square foot units, which were larger than the typical 500 square foot unit apartments around the city.
Motion by Tzanakis, seconded by Smith to recommend the Common Council conduct a public hearing to consider rezoning parcel #1703.02 located at #24 Sunshine Circle from C-4 Highway Commercial to R-3A Multi-family zoning district. Said public hearing to be scheduled after receipt of the \$300 advertizing fee and proper notification of adjacent property owners. **All present voting aye. Motion carried.**

3. Gary Bolding appeared on behalf of AT&T to request amending Conditional Use Permit Resolution #2010-02 by adding a diesel generator at the #631 Chippewa Street water tower location. Rubenzer noted that AT&T had added a generator at the Kennedy Road water tower site by amending the Conditional Use Permit for that site and a lease renegotiation was required. Mr. Bolding stated that the diesel generator would run a self test once per week for about twenty minutes. He stated that it was about as loud as a hair dryer. Rubenzer noted that the spill redundancy was important. Commissioner Tzanakis inquired why a diesel generator was being requested and not natural gas. Mr. Bolding stated that diesel generators were typically used for backup generators.
Motion by Tzanakis, seconded by Smith to recommend the Plan Commission conduct a public hearing to consider amending Conditional Use Permit Resolution #2010-02 to allow AT&T to install a backup diesel generator at #631 Chippewa Street. A condition of the Conditional Use Permit amendment is that the existing lease be renegotiated by Committee #1 and the Common Council. Said public hearing to be scheduled after receipt of the \$300 advertising fee and proper notification of adjacent property owners. **All present voting aye. Motion carried.**

4. **Motion** by Smith, seconded by Hubbard to adjourn. **All present voting aye. Motion carried.** The Plan Commission adjourned at 7:44 P.M.

Richard J. Rubenzer, P.E., Secretary
Plan Commission

**CITY OF CHIPPEWA FALLS PLAN COMMISSION AMENDMENT TO
CONDITIONAL USE PERMIT RESOLUTION #2012-02
TO INSTALL A PERMANENT BACKUP GENERATOR AT THE CITY'S WATER
TOWER LOCATED AT #631 CHIPPEWA STREET**

WHEREAS, at the August 12, 2013 meeting, the City of Chippewa Falls Plan Commission received and discussed a petition from A T & T to add a diesel generator on a 4' x 10' concrete slab inside a proposed 10' x 15' extension of the existing fenced compound at #631 Chippewa Street; and

WHEREAS, the request be considered as an amendment to attached existing Conditional Use Permit Resolution #2010-02; and

WHEREAS, the City of Chippewa Falls Plan Commission conducted a public hearing to consider the request of A T & T on Monday, September 9, 2013 after publication of a Class II legal notice and mailing of the said notice to adjacent property owners as required by Chapter 17.47(5) of the Chippewa Falls Municipal Code of Ordinances.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF CHIPPEWA FALLS PLAN COMMISSION, that attached Conditional Use Permit Resolution #2010-02 is hereby amended to allow A T & T to place a diesel generator on a constructed 4' x 10' concrete slab inside a 10' x 15' fenced enclosure added on to the existing enclosure subject to the following conditions:

1. That the proposed 50kw diesel generator be installed with an auto shut-off and double enclosed wall for leak or over flow purposes.
2. That the generator be tested once per week for about a half hour.
3. That the generator noise level be about the decibel range of a hair dryer.
4. That the existing lease with A T & T be amended to reflect the additional 10' x 15' enclosure space with a corresponding lease rate increase.
5. That the attached plans and specifications become part of this Conditional Use Permit and are available for inspection at the City of Chippewa Falls Engineering Department.
6. Any access to the water tower must be scheduled with the Water Department. Access will only be allowed to properly identified employees or agents of A T & T and only when accompanied by a Water Department employee. If access is required during non-business hours, A T & T will compensate the Water Department for extra costs.
7. That comprehensive general liability insurance in the amount of \$1,000,000 be maintained by the owner of the antennae and equipment cabinet as detailed in the attached lease agreement and that a Certificate of Insurance be filed in the office of the Secretary of the Plan Commission.

8. In the event that the City's water supply is contaminated or threatened due to any action of A T & T or its subcontractors, A T & T, or future owners of antennae or equipment, shall bear any and all costs associated with the repairs and correction of the problem.

9. Modifications or changes to this permit may be made only by the Plan Commission after an application for amendment has been duly filed and notices and hearing requirements have been complied with.

10. Except as specifically provided herein, all regulations of the City Zoning Code shall apply.

11. That this permit shall become null and void by non-compliance with this permit or related Codes or by application to the Board of Appeals for any Code variance for this facility.

12. Chapter 17.47 (13) shall apply and this permit shall terminate if the use for which this permit is issued shall cease for a continuous two year period.

MOTION: Smith

SECOND: Hull

I hereby certify that the Plan Commission of the City of Chippewa Falls, Wisconsin, adopted the above Resolution on September 9, 2013 by a vote of 8 ayes, 0 nays, and 0 abstentions.

ATTEST: Richard J. Rubenzer
Richard J. Rubenzer, P.E.,
Secretary, Plan Commission



at&t

CHIPPEWA FALLS S. WT

FA#: 10123980
USID: 96849

631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

GENERAC GENERATOR UPGRADE

PROJECT TEAM

ENGINEER:
OTEL ENGINEERING & CONSULTANTS
3740 N. JOSEY LANE, SUITE 123
CARROLLTON, TX 75007
TEL: 972-305-8888 x103
WWW.DEC-TEXAS.COM

CONSTRUCTION MANAGER:
JANE CERRO
WIRELESS SERVICES
1325 WILEY RD., STE. 135
SCHWABURG, IL 60173
TEL: 847-598-4611 DIRECT
847-258-2477 FAX
WWW.DEC-TEXAS.COM

SITE INFORMATION

GOVERNING CODE:
SIC & NEC
631 CHIPPEWA ST., CHIPPEWA FALLS, WI 54729
CHIPPEWA
CHIPPEWA CHIPPEWA FALLS DEPT. OF PUBLIC UTILITIES
715-726-2701

APPLICANT:
AT&T WIRELESS
630 NATIONAL PKWY, 4TH FLOOR
SCHWABURG, IL 60173

POWER PROVIDER:
XCEL ENERGY
1-800-481-4700

SCOPE OF WORK:
INSTALL NEW GENERAC GENERATOR WITH SUBBASSE FUEL TANK ON NEW CONCRETE PAD. INTEGRATE EXISTING SERVICE WITH NEW GENERATOR

UTILITY INFORMATION

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURE ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES, PRELINES AND OTHER INFORMATION SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST OR (LATEST) 258-4811 EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE CONTRACTOR'S EXPENSE.

AREA MAP



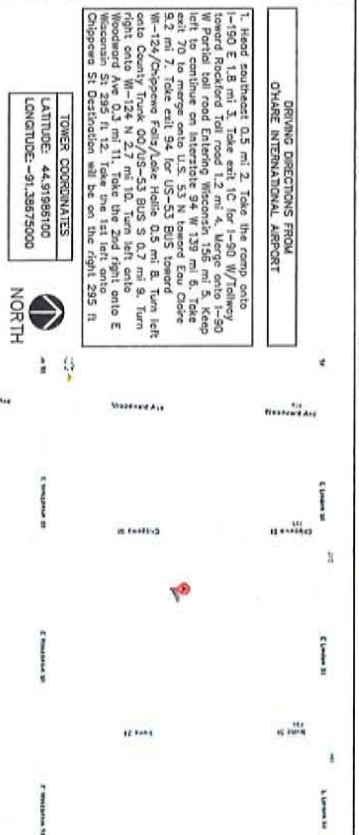
APPROVALS

AT&T CONSTRUCTION MANAGER	DATE
GENERAL DYNAMICS CONSTR. MGR	DATE
PROPERTY OWNER	DATE
SITE ACQUISITION	DATE
CONTRACTOR	DATE
CONTRACTOR	DATE

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
SP-1	GENERAL NOTES	0
A-1	SITE PLAN	0
S-1	FOUNDATION DETAILS	0
E-1	WIRING DETAILS	0
E-2	PANEL AND PENETRATION DETAILS	0
E-3	ATS, CONDUIT, TRENCH AND GROUND ROD DETAILS	0
E-4	GENERAC ATS SPECIFICATIONS	0

VACINITY MAP



DRIVING DIRECTIONS FROM OSHKOSH INTERNATIONAL AIRPORT

1. Head east on US-52 N. Take the ramp onto I-100 E. 1.8 mi. Take exit 1C for I-90 W/Tollway toward Rockford Toll road 1.2 mi. 4. Merge onto I-90 W. Partial toll road Entering Wisconsin 1.56 mi. 5. Keep right to combine on Interstate 94 N 1.09 mi. 6. Take exit 15A to take exit 94 for US-53 BUS toward WI-124/Chippewa Falls/Leak Hole 0.5 mi. 8. Turn left onto County Trunk 00/US-53 BUS S 0.7 mi. 9. Turn right onto WI-124 N 2.7 mi. 10. Turn left onto Wisconsin 5435 N 1.12 mi. Take the 1st left onto Chippewa St. Destination will be on the right 295 ft.

TOWER COORDINATES
LATITUDE: 44.91985100
LONGITUDE: -91.28575000



GENERAL DYNAMICS
Wireless Services

1325 Wiley Road, Ste. 135
Schwaburg, IL 60173
847-598-4611

OTEL Engineering & Consultants, LLC
Engineering and Construction Services
Reg. # 2382511

DRAWING REVISIONS

REV.	DESCRIPTION	DATE	BY
A	100% CD	05.19.13	JFF

MIR H. ALI
E-42667-6
PLANO, TX
PROFESSIONAL ENGINEER

SITE NAME: CHIPPEWA FALLS S. WT
FA: 10123980
631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:
TITLE SHEET

SCALES LISTED ARE FOR 11"x17" SHEETS

SHEET NO./REV.	SCALE	AS NOTED
T-1	AS NOTED	AS NOTED

CHECKED BY: JFF
DATE: 05.19.13

NOTES TO CONTRACTOR:

1. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND MATERIALS SHOWN ON THESE DRAWINGS TO BE ACCURATE BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR THE SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE STATE OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE CLIENT HARMLESS FROM AND AGAINST ALL LIABILITY, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM ANY CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GRADING SHALL COMPLY WITH AT&T MOBILITY WIRELESS SERVICES REQUIREMENTS FOR FACILITY GRADING FOR CELL SITE STRONGHOLDS. THE CONTRACTOR SHALL VERIFY THE EXISTING GRADE AND EROSION CONTROL CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GRADING CODES ARE MORE STRINGENT, THEY SHALL GOVERN.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEEDURES FOR THE PROTECTION OF EXISTING UTILITIES, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF FAULT LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE THAT IS TO BE INTERRUPTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN NECESSARY PERMITS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE STATE OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE CLIENT HARMLESS FROM AND AGAINST ALL LIABILITY, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM ANY CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CONNECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE OWNER.
9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT FENCE AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CONNECTED AT THE CONTRACTOR'S EXPENSE.
12. PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCORPORATING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
13. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWING WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
14. RECORD PHOTOS: INCLUDE TRIANGULATE STAMPED PHOTOS WITH TAPE MEASURE DURING VERIFICATION.
15. ALL MATERIAL SHALL BE FINISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
16. CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
17. CONTRACTORS SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
18. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTOR SHALL NOTIFY GENERAL DYNAMICS OF ANY CHANGES TO THE INFORMATION PROVIDED PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
19. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM LEVEL. VEGETATION TO REMAIN SHALL BE PROTECTED BY EROSION CONTROL MEASURES. ANY DAMAGE TO THE PROPERTY OUTSIDE THE EXISTED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
20. ALL SITEWIDE MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID PRICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE STATE OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE CLIENT HARMLESS FROM AND AGAINST ALL LIABILITY, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM ANY CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

GENERAL NOTES:

1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.
 2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE PORTABLE WATER OR SEWER SERVICE.
 3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITATION. NO HANDICAP ACCESS IS REQUIRED.
 4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION APPROXIMATELY 2 TIMES PER MONTH BY A T&T TECHNICIAN.
 5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
 6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 7. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
 8. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTOR SHALL NOTIFY AT&T OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- ELECTRICAL NOTES:**
1. COORDINATE LOCATION AND PROPOSE REQUIREMENTS OF ALL EQUIPMENT WITH AT&T MOBILITY AND EQUIPMENT SUPPLIES PRIOR TO INSTALLATION.
 2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE PROPERTY OWNER. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL AND STATE REGULATIONS.
 3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED.
 4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS.
 5. CORROSION RESISTANT NEW WORK SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED TO MAINTAIN DURABILITY OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS.
 6. THE REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WHETHER PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
 7. CORROSION RESISTANT NEW WORK SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED TO MAINTAIN DURABILITY OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERTIGHT BLEED IS REQUIRED UNDER THESE DOCUMENTS.
 8. EQUIPMENT UNLESS OTHERWISE DENIED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND PLACEMENT ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T MOBILITY REPRESENTATIVE.
 9. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
 10. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW.
 - A. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
 - B. ETL (ELECTRICAL TESTING LABORATORY)
 - C. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
 - D. IEEE (INSULATED CABLE ENGINEERS ASSOCIATION)
 - E. IEEE (INSULATED CABLE ENGINEERS ASSOCIATION)
 - F. IEEE (INSULATED CABLE ENGINEERS ASSOCIATION)
 - G. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - H. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - I. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - J. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - K. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - L. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - M. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - N. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - O. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - P. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - Q. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - R. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - S. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - T. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - U. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - V. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - W. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - X. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - Y. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 - Z. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 11. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO COMPLY WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE PROPERLY LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL PROVIDE HIS OWN PACKAGING FOR MATERIAL QUANTITY AND TYPES LISTED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE HIS OWN PACKAGING FOR MATERIAL QUANTITY AND TYPES LISTED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE HIS OWN PACKAGING FOR MATERIAL QUANTITY AND TYPES LISTED ON THE DRAWINGS.
 12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

WIRING/CONDUIT

1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) EXIST IN/ON CONDUIT RUN.
2. ALL POWER AND CONTROL INDICATION WIRING SHALL BE TYPE THHN/THWN RATED 75 DEGREE CELSIUS, UNLESS NOTED OTHERWISE.
3. CONDUIT SYSTEMS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 304.10. NO RIGID METAL CONDUIT SHALL BE USED FOR WIRING IN CONDUIT SYSTEMS WITH 12 MINIMUM INSIDE DIAMETER FOR ALL CONDUIT 3" OR LARGER.
4. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
5. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE. ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
6. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
7. CONDUIT SHALL BE BURIED WHERE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
8. INSTALL PULL STRINGS IN ALL CONDUIT.
9. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON CO-LOCATORS, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
10. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATION FROM ANY MECHANICAL GAS PIPING.
11. ALL WIRING ROUTED IN PLUMBIA TO BE PLUMBIA RATED OR IN METALLIC FLEX (SOLID TIGHT) CONDUIT.
12. INSPECTION WINDOWS ARE REQUIRED ON ALL UNITS.
13. EQUIPMENT PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (AWG, V/A) OF THAT EQUIPMENT.
14. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.
15. GROUNDING
 1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
 2. ALL EQUIPMENT SURFACES TO BE BONDING TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE MADE BY THE FOLLOWING METHODS:
 1. ALL METALLIC ITEM WITHIN 6" OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
 2. EXTERIOR, AIR-SPACE GROUND CONNECTIONS SHALL BE FURNISHED WITH A RUBBER PROTECTIVE COATING OF ANI-OXIDE COMPOUND.
 3. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
 4. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN ACCORDANCE WITH THE STANDARDS REFERENCED BELOW.
 5. EQUIPMENT CONNECTIONS TO THE GROUND CONNECTIONS SHALL BE MADE AS POSSIBLE.
 6. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY SECTION OF THE NATIONAL ELECTRICAL SAFETY CODE, BONDING JUNCTIONS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RECEIVERS, EQUIPMENT ENCLOSURES, PULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.
 7. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
16. INSPECTION/DOCUMENTATION
 1. INCLUDE TAPED/STAMPED PHOTOS WITH TAPE MEASURE VERIFICATION FOR ALL BURRED CONDUIT.
 2. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS SET FORTH IN THESE DOCUMENTS, A COMPLETE SET OF RECORD DRAWINGS FOR THE PROJECT. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS BUILT DRAWINGS. INFORMATION SHOULD BE GIVEN TO THE OWNER.
 3. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEM RESISTIVITY (MAX 5 OHMS).
 4. AN ELECTRICAL INSPECTION SHALL BE MADE BY AN INSPECTING AGENCY REPRESENTATIVE OF AT&T MOBILITY PRIOR TO THE SUBMISSION OF THE CONTRACTOR SHALL PROVIDE HIS OWN PACKAGING FOR MATERIAL QUANTITY AND TYPES LISTED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE HIS OWN PACKAGING FOR MATERIAL QUANTITY AND TYPES LISTED ON THE DRAWINGS.
 5. CONTRACTOR SHALL HAVE ALL WIRING AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT THE LISTING FOR THAT EQUIPMENT IS NOT VIOLATED.

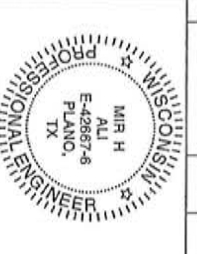


1225 Wiley Road, Ste. 136
Schmiedmeyer, IL 60172
647-598-4611
647-598-4611
General Dynamics
Wireless Services



DRAWING REVISIONS

REV	DESCRIPTION	DATE	BY
A	100% 0% 2	05.19.13	JEFF



SITE NAME: CHIPPEWA FALLS PA
S. WT
631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729
FA: 10123980

GENERAL NOTES

SCALES LISTED ARE FOR 11"x17" SHEETS

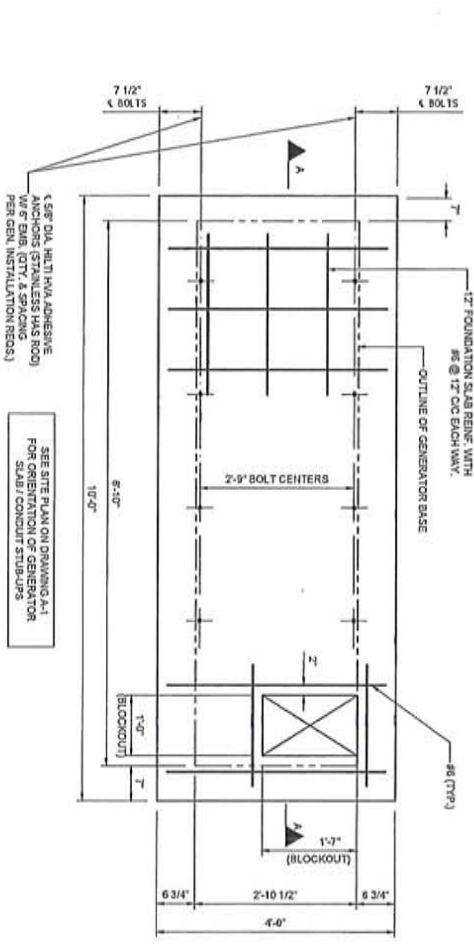
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SP-1	AS NOTED	JEFF
	CHECKED BY	JEFF
	DATE	05.19.13

STRUCTURAL GENERAL NOTES

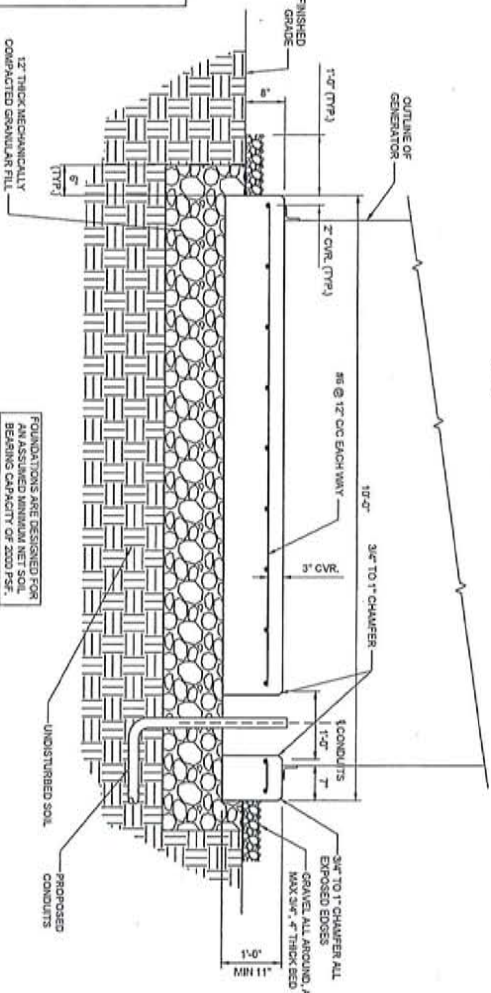
- 1.0 GENERAL CONDITIONS
- 1.1 DESIGN AND CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11, IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST RESTRICTIVE.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EVALUATE THE ARCHITECT, THE ENGINEER, TECH, CONSTRUCTION MANAGER, THE OWNER AND THE DESIGN TEAM FOR ALL DESIGN WORK, AND HOLD THEM HARMLESS AGAINST ALL DAMAGES, LOSS OF PROFITS, DAMAGES TO PROPERTY, LOSS OF TIME, LOSS OF REVENUE, LOSS OF REPUTATION, OR FAILURE TO CARRY OUT THEIR PROFESSIONAL OBLIGATIONS.
- 1.3 DO NOT SCALE DRAWINGS.
- 1.4 VERIFY ALL DIMENSIONS AND FINISHING DIMENSIONS PER MANUFACTURER DRAWINGS.
- 1.5 DESIGN LOADS ARE (EXEMPT):
LIVE LOAD : 100 PSF
EQUIPMENT SIZE : 20' x 10' x 10' W/ 20' D
WIND WITH WOODEN SHIPYARD SOIL : 30 PSF
WIND WITH GENERATOR WITH EMPTY FUEL TANK : 30 PSF
TANK SIZE : 190 GALL
CARRYOVER : 200 PSF
- 2.0 FOR DESIGN AND ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.1 MEET OR EXCEED THE FOLLOWING CODES AND STANDARDS:
DESIGN : ACI 318-11
CONSTRUCTION : ACI 308
FINISHING : PER MANUFACTURER OF STANDARD PRACTICE
REINFORCING STEEL : ASTM A 618 AND ASTM A 618-500
MAXIMUM SPACING : ACI 318 AND ASTM C-660
AIR ENTRAINMENT : ASTM C-682 AND C-330 (FOR LIGHT WEIGHT)
AGGREGATE : PER MANUFACTURER OF STANDARD PRACTICE
DO NOT FIELD BEND OR WELD TO CHANGE OF SECTION STEEL.
3.4 PROVIDE AIR ENTRAINMENT CONCRETE WITH AIR CONTENT OF 5% TO 7% FOR ALL CONCRETE EXPOSED TO WEATHER.
3.5 MAXIMUM AGGREGATE SIZE: 3/4"
3.6 CALCULATED MINIMUM WETTER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
3.7 FOUNDATION AND EXCAVATION NOTES
3.8 FOUNDATION SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRAVEL FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
4.2 ALL ORGANIC AND /OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION AND SLAB SURROUND AND BACKFILL AREAS, AND THEN BACKFILLED WITH OPTIMUM MOISTURE CONTENT (ASTM D 1557) TO 95 PERCENT OF MAXIMUM DENSITY AT THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER FLOWS, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

DOUBLE WALL FUEL TANK BASE SPECIFICATION

- REF: ATTOMV GENERATOR PACKAGE
- UL REGISTRATION NUMBER 941009
- UL TYPE LIST NUMBER: E470
- UL LISTED BASE SPECIFICATION
- FUEL TANK BASE CONSTRUCTION
- BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD U.L.-142.
 - STANDARDS FOR INSTALLATION AND USE OF STATIONARY COMBUSTIBLE LIQUIDS CODE, NFPA 32, THE STANDARDS FOR INSTALLATION AND USE OF STATIONARY COMBUSTIBLE LIQUIDS CODE, NFPA 32, THE STANDARDS FOR STATIONARY COMBUSTIBLE LIQUIDS CODE, NFPA 110.
 - ALL WELDS SHALL BE WELDED TO ANCHORS, PER NFPA 110.
 - ANCHORS SHALL BE 1/2" Ø, 3/4" LONG SET IN UNDISTURBED SOIL.
 - SUB BASE TANK TESTING, PRIMARY TANK AND SECONDARY CONTAINMENT BASIN SECTIONS SHALL BE PRESSURIZED AT 3.5 PSF AND LEAK-CHECKED TO DRAINE INTEGRITY OF SUB BASE WELD SEAMS.
 - FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM
 - 40% REMAINING FOR ALARM
 - 20% REMAINING FOR SHUT-DOWN
 - FRACTURE PREVENT A 25% FILL FOR ALARM
 - FRACTURE PREVENT A 50% FILL FOR SHUT-DOWN
 - A MINIMUM OF 10% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTURE. A FUEL CONTAINMENT BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED.



1 GENERATOR SLAB
SCALE: NONE



2 GENERATOR SLAB SECTION
SCALE: NONE

GENERAL DYNAMICS
Witness Services

1325 Wiley Road, Ste. 135
Stouffville, ON M1S 3R7
905-456-4511

Drel Engineering & Consultants, LLC
10000 Highway 7
Mississauga, Ontario L4R 4W3
Tel: 416-272-5111
Fax: 416-272-5112
Email: info@delinc.com

DRAWING REVISIONS

REV.	DESCRIPTION	DATE	BY
A	100% Q&B	05.18.13	JEFF

**SITE NAME: CHIPPEWA FALLS
S. W.T**

MIR H
E-42667-6
PLANO, TX

FOUNDATION DETAILS

631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

FA: 10123980

SHEETS LISTED ARE FOR 11"x17" SHEETS

SCALE: AS NOTED

ORIGIN: BY: JEFF

CHECKED BY: JEFF

DATE: 05.18.13

FILE: S-1

DIAGRAM CIRCUIT SCHEDULE

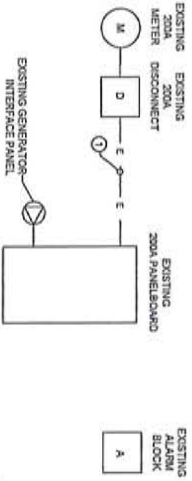
NO.	FROM	TO	WIRES	GROUNDING	CONDUIT SIZE	FUNCTION
①	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(2) 240 (1) #4	(1) #4	"	NORMAL POWER FEEDER TO ATS'S BUILT BLOCK EXISTING
②	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(2) 240 (1) #4	"	"	POWER FEEDER FROM ATS TO PANELS.
③	GENERATOR	AUTOMATIC TRANSFER SWITCH	(2) 240 (1) #4	"	"	EMERGENCY POWER FEEDER TO ATS.
④	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10 (1) #10	"	"	START CIRCUIT
⑤	LOAD CENTER DISTRIBUTION PANEL	GENERATOR	(2) #12 (1) #12 (1) #12	"	"	CIRCUIT FOR GENERATOR BLOCK-HEATER & BATTERY CHARGER
⑥	ALARM BLOCK	GENERATOR	24 AWG	N/A	"	ALARM CONNECTION TO PANEL IN AND RING THROUGH INTERIOR OF PANELS & INTO GENERATOR. (SEE WIRING TECH. LABEL ALL WIRES)

ALARM WIRE IDENTIFICATION CHART

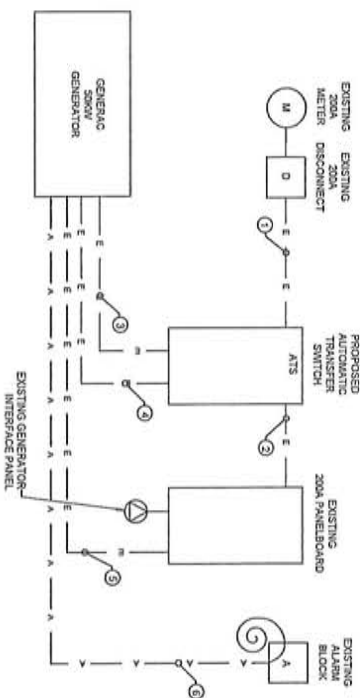
NAME	DESCRIPTION
CR	CRITICAL FAILURE
FL	FUEL LEVEL OVERSET
OR	GENERATOR RUNNING
LF	LOW FUEL
MF	MAJOR FAULT
MF	MINOR FAULT (PRE-ALARMS)

NOTE:
CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. IDENTIFY ALL WIRES AS POSITIVE AND NEGATIVE WITH LABELS.

1 CIRCUIT DETAIL
SCALE: NONE



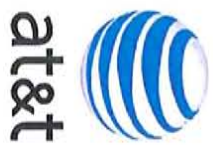
2 ALARM WIRING IDENTIFICATION CHART
SCALE: NONE



NOTE:
CONTRACTOR TO FOLLOW MANUFACTURER ALARM RECOMMENDATIONS


3 EXISTING WIRING DIAGRAM
SCALE: NONE

4 PROPOSED WIRING DIAGRAM
SCALE: NONE



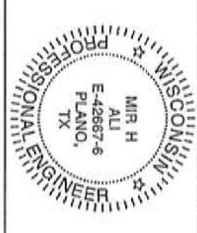
GENERAL DYNAMICS
Wireless Services

1325 Niles Road, Ste. 136
Schiller Park, IL 60173
847-558-4511



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REV	DESCRIPTION	DATE	BY
A	TITLE CHG	05/19/13	JEFF



MIR H
ALI
E-42667-6
PLANO, TX

SITE NAME: CHIPPEWA FALLS
S. WT

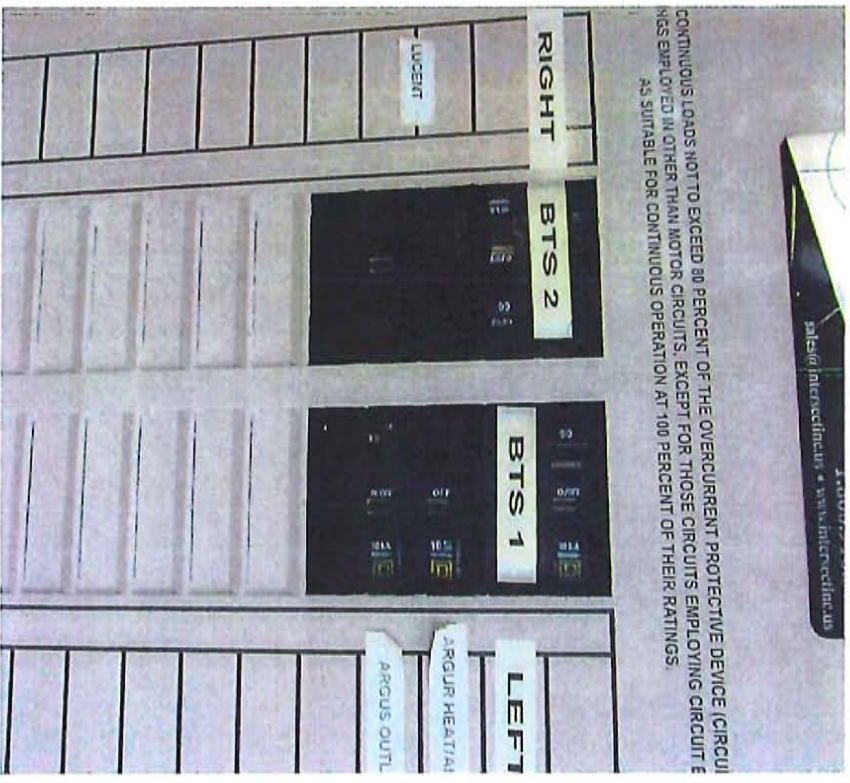
FA: 10123980

631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:
WIRING DETAILS

SCALES LISTED ARE FOR 11"x17" SHEETS

SHEET NO./REV.	SCALE	AS NOTED
E-1	AS NOTED	JEFF
	CHECKED BY:	JEFF
	DATE:	05/19/13

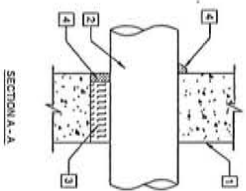
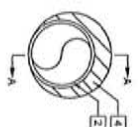


CONTINUOUS LOADS NOT TO EXCEED 80 PERCENT OF THE OVERCURRENT PROTECTIVE DEVICE (CIRCUIT BREAKER) RATING. EXCEPT FOR THOSE CIRCUITS EMPLOYING CIRCUIT BREAKERS EMPLOYED IN OTHER THAN MOTOR CIRCUITS. AS SUITABLE FOR CONTINUOUS OPERATION AT 100 PERCENT OF THEIR RATINGS.

1 EXISTING PANEL PHOTO
SCALE: NONE

NOTE:
CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS

CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR MAINS, AND STACK MAINS.



UL SYSTEM NO. CA-11150
CONDUIT THROUGH-BARRIER RATING = 51 HR
T RATING = 0 HR

- FLOOR OR WALL ASSEMBLY: MINIMUM 4-1/2" THICK REINFORCED CONCRETE. CONCRETE SHALL BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK. MAX. DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS (CAT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS: ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED THROUGH PENETRATIONS. PENETRATIONS SHALL BE FULLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 1/4" (POINT CONTACT) TO MAXIMUM 1/2" (GAP). THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
 - STEEL PIPE - NOMINAL 1/2" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE
 - IRON PIPE - NOMINAL 1/2" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE
 - CONDUIT - NOMINAL 1/2" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3/4" DIAMETER (OR SMALLER) STEEL CONDUIT
- PACKING MATERIAL: MINIMUM 1/2" THICKNESS OF MIN. 42 PCF MINERAL WOOL PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL, AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL WOOL OR CEMENT MATERIAL: SEALANT: MINIMUM 1/4" THICKNESS OF SEALANT TO BE APPLIED TO BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. IN RATING AREAS ONLY, WHEN CERTS OR OTHER SEALANTS IS USED.

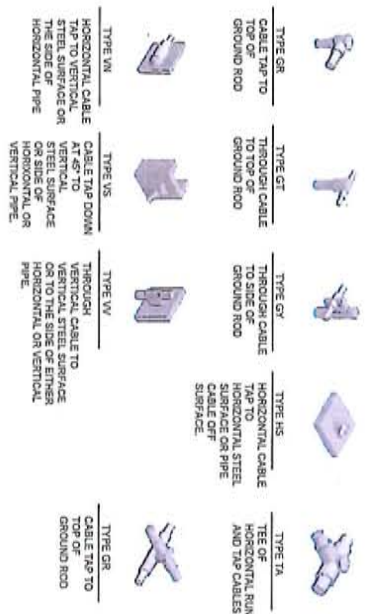
UL LISTED CONSTRUCTION CHEMICALS, DIV OF HILTI INC.; CHW15, CHW16, CHW18, OR FS-ONE SEALANT.

* BEARING THE UL CLASSIFICATION MARK

NOTE:
EXISTING CONSTRUCTION VIOLATES FROM THIS DETAIL AT EQUAL 3-HOUR UL PENETRATION APPROPRIATE FOR THE EXISTING SMALL TYPE SHALL BE CONSTRUCTED

NOTE:
SHALL USE NON-SPIRING CLAMP TO SECURE ALL PENETRATIONS INTO OR FROM SHELTER WALL

2 OUTER WALL PENETRATION DETAIL (IF APPLICABLE)
SCALE: NONE



3 CADWELD DETAILS
SCALE: NONE



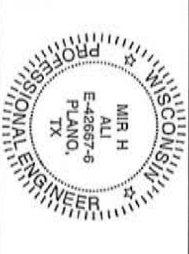
GENERAL DYNAMICS
Wireless Services

1325 W. Park, Ste. 116
Schaumburg, IL 60173
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REV	DESCRIPTION	DATE	BY
A	100% CD	05.15.13	JEF



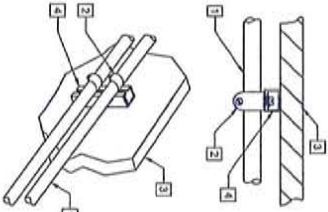
SITE NAME: CHIPPEWA FALLS
S. WI
FA: 10123980
631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:
PANEL AND PENETRATION DETAILS

SCALES LISTED ARE FOR 11"x17" SHEETS
SHEET NO./REV.:
E-2
SCALE: AS NOTED
DRAWN BY: JEF
CHECKED BY:
DATE: 05.15.13

WALL CONSTRUCTION TYPE	USE
HOLLOW AT STUD	3/8" TOGGLE BOLT
HOLLOW AT STUD	3/8" LAG SCREW
CONCRETE BLOCK/HOLLOW	3/8" HLT H-20 WITH SCREEN
CONCRETE (SOLID)	3/8" HLT H-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTIONS OF CHANNELS SPACE UNITS @ 5'-0" O.C. LENGTH OF RUN



USE THIS SECTION UNDER PAVEMENT OR VEHICLE TRAFFIC AREA

USE THIS SECTION UNDER GRASS OR LAWN AREA

RESTORE SURFACE TO ORIGINAL CONDITION

UTILITY WARNING TAPE 4" BELOW GRADE ENTIRE LENGTH OF TRENCH

RETURN ORIGINAL LAYER TO ORIGINAL CONDITION TO PREVENT SERIOUS SETTLEMENT FOR NEW ELECTRICAL AND UTILITY AND SITE PLANS, PROVIDE APPROVED FULL BOXES AS REQUIRED AND COORDINATE COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL STRINGS (TYP)

CLEAN SPACE EQUAL TO LARGER CONDUIT BULKHEAD

MIN. DEPTH PER DEPTH OF TRENCH BASED ON CONDUIT TYPE

Z SAND

7" SAND

INCLUDE THE DATE STAMPED PHOTOS WITH TAPE MEASURE

CONDUIT FOR TYPE QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

1 CONDUIT WALL MOUNT

SCALE: NONE

2 CONDUCTOR BURIAL REQUIREMENTS

SCALE: NONE

MINIMUM COVER REQUIREMENTS IN INCHES TO 600 VOLTS, UNLESS OTHERWISE NOTED IN INCHES	TYPE OF WARNING METHOD OR CIRCUIT	LOCATION OF WARNING CIRCUIT	DIRECT BURIAL CONDUCTORS	ROD METAL CONDUIT METAL CONDUIT
ALL LOCATIONS NOT SPECIFIED BELOW			24 INCHES	6 INCHES
IN TRENCH BELOW 24" EQUIVALENT			18 INCHES	6 INCHES
UNDER STREETS OR HIGHWAYS			24 INCHES	24 INCHES

NOTE: COVER IS DEFINED AS THE SHORTEST DISTANCE IN INCHES MEASURED BETWEEN A POINT ON THE TOP SURFACE OF ANY BURIED CONDUIT OR CONDUIT, OR OTHER BURIED CONDUIT OR SMALL AR COVER OR SMALL AR COVER.

INSTALL WARNING TAPE 4" BELOW GRADE FOR THE ENTIRE LENGTH OF TRENCH.

PROVIDE AT LEAST 2" OF SAND BED ABOVE CONDUIT AND 2" OF SAND BED BELOW THE CONDUIT.

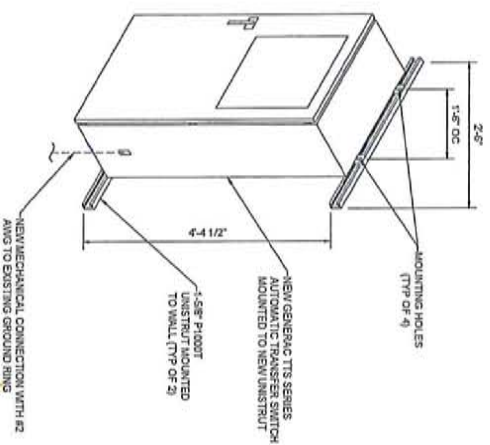
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CONCRETE BLOCK/HOLLOW	3/8" HLT H-20 WITH SCREEN
CONCRETE (SOLID)	3/8" HLT H-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTIONS OF CHANNELS

NOTE: SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL.

3 INTERSECT ATS MOUNTING DETAIL

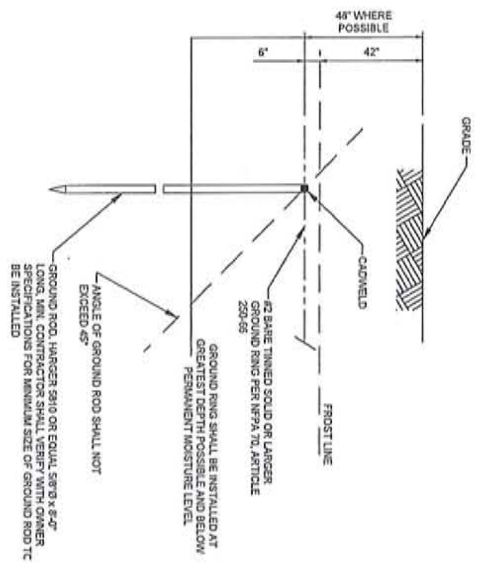
SCALE: NONE



NOTE: ROADS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
NOTE: SEE RESTRICTION REPORT FOR VERIFICATION AS AVAILABLE
NOTE: A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS SUBJECT TO LIGHTNING STRIKES AND WITH HIGHLY ACIDIC SOIL
NOTE: ALL RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2000 OHM-CM SHALL BE GALVANIZED TO PREVENT CORROSION OF TOWER. (SEE ANSI/IEEE EIA-22-4)

4 GROUND ROD DETAIL

SCALE: NONE



1225 Wieg Road, Ste. 126
Schaeumburg, IL 60173
847-598-4611

GENERAL DYNAMICS
Wireless Services

Dril Engineering & Consultants, LLC
Registered Professional Engineer
No. 212111

DRAWING REVISIONS

REV	DESCRIPTION	DATE	BY
A	100% CD	05/13/13	JBT

SITE NAME: CHIPPEWA FALLS
S. WI
FA: 10123980
631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:
ATS, CONDUIT, TRENCH AND GROUND ROD DETAILS

SCALES LISTED ARE FOR 11"x17" SHEETS

SHEET NO./REV.	SCALE	AS NOTED
E-3		

CHECKED BY: JBT
DATE: 05/13/13
FILE:

SD050

CUSTOM MODEL

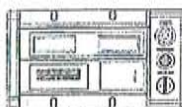
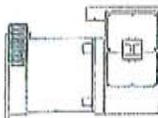
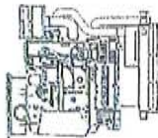
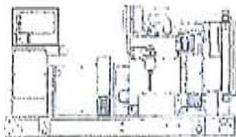
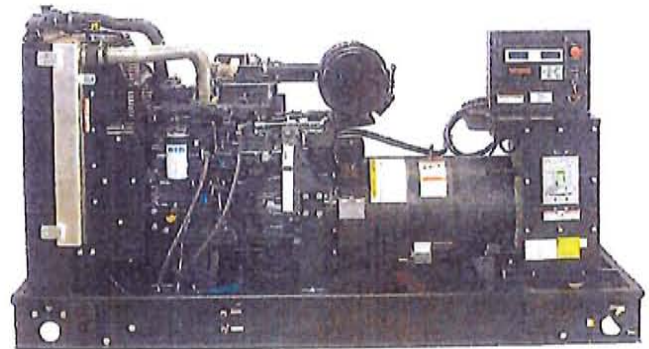
Industrial Diesel Generator Set

EPA Emissions Certification: Tier III

50 kW Diesel

1 of 5

Standby Power Rating
50KW 60 Hz



features

benefits

Generator Set

- | | |
|----------------------------------|-----------------------------------|
| • PROTOTYPE & TORSIONALLY TESTED | ▶ PROVIDES A PROVEN UNIT |
| • UL2200 TESTED | ▶ ENSURES A QUALITY PRODUCT |
| • RHINOCOAT PAINT SYSTEM | ▶ IMPROVES RESISTANCE TO ELEMENTS |
| • SOUND LEVEL 2 ENCLOSURE | ▶ 71dBa @ 7 METERS (23FT) |

Engine

- | | |
|---------------------------------------|--------------------------------------|
| • EPA TIER CERTIFIED | ▶ ENVIRONMENTALLY FRIENDLY |
| • INDUSTRIAL TESTED, GENERAC APPROVED | ▶ ENSURES INDUSTRIAL STANDARDS |
| • POWER-MATCHED OUTPUT | ▶ ENGINEERED FOR PERFORMANCE |
| • INDUSTRIAL GRADE | ▶ IMPROVES LONGEVITY AND RELIABILITY |

Alternator

- | | |
|-----------------------------------|-----------------------------------|
| • TWO-THIRDS PITCH | ▶ ELIMINATES HARMFUL 3RD HARMONIC |
| • LAYER WOUND ROTOR & STATOR | ▶ IMPROVES COOLING |
| • CLASS H MATERIALS | ▶ HEAT TOLERANT DESIGN |
| • DIGITAL 3-PHASE VOLTAGE CONTROL | ▶ FAST AND ACCURATE RESPONSE |

Controls

- | | |
|---|-----------------------------------|
| • ENCAPSULATED BOARD W/ SEALED HARNESS | ▶ EASY, AFFORDABLE REPLACEMENT |
| • 4-20mA VOLTAGE-TO-CURRENT SENSORS | ▶ NOISE RESISTANT 24/7 MONITORING |
| • SURFACE-MOUNT TECHNOLOGY | ▶ PROVIDES VIBRATION RESISTANCE |
| • ADVANCED DIAGNOSTICS & COMMUNICATIONS | ▶ HARDENED RELIABILITY |

primary codes and standards



SD050

application and engineering data

ENGINE SPECIFICATIONS

General

Make	Iveco / FPT
EPA Emissions Compliance	Tier III
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	Diesel
Displacement - L (cu. in.)	4.5 (274)
Bore - mm (in.)	105 (4.1)
Stroke - mm (in.)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head Type	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron / Wet Sleeve

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (gal)(qts)	13.6 (3.6) (14.4)

Cooling System

Cooling System Type	Closed
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Blade Number	2538 (10)
Fan Diameter (in.)	26
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Standyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	1/4 inch Npt
Fuel Return Line - mm (in.)	1/4 inch Npt

Engine Electrical System

System Voltage	12VDC
Battery Charging Alternator	90 Amp
Battery Size (at 0 °C)	Optima Redtop
Battery Group	34
Battery Voltage	12VC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	< 3.5%
Telephone Interference Factor (TIF)	< 50
Standard Excitation	PMG
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Load Capacity - Prime	100%
Prototype Short Circuit Test	Y

Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	+/- 0.25%

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

- NFPA 99
- NFPA 110
- ISO 8528-5
- ISO 1708A.5
- ISO 3046
- B55514
- SAE J1349
- DIN6271
- IEEE C62.41 TESTING
- NEMA ICS 1

Rating Definitions:

Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)
 Prime – Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

SD050

operating data (60Hz)

POWER RATINGS (kW)

Single-Phase 120/240VAC @1.0pf
 Three-Phase 120/208VAC @0.8pf
 Three-Phase 120/240VAC @0.8pf
 Three-Phase 277/480VAC @0.8pf
 Three-Phase 346/600VAC @0.8pf

STANDBY		
50	Amps:	208
-	Amps:	-
-	Amps:	-
-	Amps:	-
-	Amps:	-

NOTE: Generator output limited to 208A.

STARTING CAPABILITIES (sKVA)

		sKVA vs. Voltage Dip											
		480VAC						208/240VAC					
Alternator*	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	50	-	-	-	-	-	-	26	39	52	65	77	90
Upsize 1		-	-	-	-	-	-	-	-	-	-	-	-
Upsize 2		-	-	-	-	-	-	-	-	-	-	-	-

*All Generac Industrial alternators utilize Class H insulation materials. Standard alternator provides less than or equal to Class B temperature rise. Upsize 1 provides less than or equal to Class B temperature rise. Upsize 2 provides less than or equal to Class B temperature rise.

FUEL

Fuel Consumption Rates

Fuel Pump Lift - in (m)
36(.9)

STANDBY		
Percent Load	gph	lph
25%	1.52	5.75
50%	2.33	8.82
75%	3.08	11.65
100%	4.15	15.71

COOLING

Coolant System Capacity - Gal (L)
4.5 (17.44)
Maximum Radiator Backpressure
1.5" H ₂ O Column

STANDBY		
Coolant Flow per Minute	gpm (lpm)	32.7(123.8)
Heat rejection to Coolant	BTU/min	123,000
Inlet Air	cfm (m3/min)	6,360 (180.0)
Max. Operating Radiator Air Temp	F° (C°)	122(50)
Max. Operating Ambient Temperature	F° (C°)	122(50)

COMBUSTION AIR REQUIREMENTS

STANDBY		
Intake Flow at Rated Power	cfm (m3/min)	247 (7.00)

EXHAUST

Exhaust Outlet Size (Open Set)
3.0"
Maximum Backpressure (Post-Silencer)
1.5" Hg

STANDBY		
Exhaust Flow (Rated Output)	cfm (m3/hr)	534(906.7)
Maximum Backpressure	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	F° (C°)	930(498.8)

ENGINE

STANDBY		
Rated Engine Speed	rpm	1800
Horsepower at Rated kW	hp	93
Temperature Deration		Consult Factory
Altitude Deration		Consult Factory

* CA units include aftertreatment

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

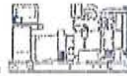
SD050

standard features and options

50 kW Diesel

4 of 5

GENERATOR SET



- Genset Vibration Isolation Std
- Factory Testing Std
- Extended warranty Std
- Padlockable Doors Std
- Steel Enclosure (Enclosed Models) Std
- Remote Emergency Shutdown Opt

ENGINE SYSTEM



- General**
- Oil Drain Extension Std
 - Air Cleaner Std
 - Industrial Exhaust Silencer (Open Sets, ship loose) Std
 - Critical Exhaust Silencer (Enclosed Sets) Std
 - Stainless steel flexible exhaust connection Std

- Fuel System**
- Primary Fuel Filter with Water Separator Std
 - Flexible Fuel Lines Std
 - UL142 Fuel Tank, 48 Hr Runtime Std
 - 2 Gal Overflow Containment with Alarm Std

- Cooling System**
- 120VAC Coolant Heater (3-wire connection cord) Std
 - 50%/50% Coolant Std
 - Level 1 Guarding (Open Sets) Std
 - Closed Coolant Recovery System Std
 - UV/Ozone resistant hoses Std
 - Factory-Installed Radiator Std
 - Radiator Drain Extension Std
 - Fan guard Std
 - Radiator duct adapter (Open Sets) Std

- Engine Electrical System**
- Battery charging alternator Std
 - Battery cables Std
 - Battery tray Std
 - 75W 120VAC Battery heater Std
 - Solenoid activated starter motor Std
 - 10A UL float/equalize battery charger Std
 - Weather Resistant electrical connections Std
 - Duplex GFCI Convenience Outlet Std

ALTERNATOR SYSTEM



- UL2200 GENprotect™ Std
- 100% Rated 200A Main Line Circuit Breaker Std

CONTROL SYSTEM



- Control Panel**
- Digital H Control Panel - Dual 4x20 Display Std
 - Programmable Crank Limiter Std
 - 7-Day Programmable Exerciser (requires H-Transfer Switch) Std
 - Special Applications Programmable PLC Std
 - RS-232 Std
 - RS-485 Std
 - All-Phase Sensing DVR Std
 - Full System Status Std
 - Utility Monitoring (Req. H-Transfer Switch) Std
 - 2-Wire Start Compatible Std
 - Power Output (kW) Std
 - Power Factor Std
 - Reactive Power Std
 - All phase AC Voltage Std
 - All phase Currents Std
 - Oil Pressure Std
 - Coolant Temperature Std
 - Coolant Level Std
 - Low Fuel Pressure Indication Std
 - Engine Speed Std
 - Battery Voltage Std
 - Frequency Std
 - Date/Time Fault History (Event Log) Std
 - UL2200 GENprotect™ Std
 - Low-Speed Exercise Opt
 - Isochronous Governor Control Std
 - 40deg C - 70deg C Operation Std
 - Weather Resistant Electrical Connections Std
 - Audible Alarms and Shutdowns Std
 - Not in Auto (Flashing Light) Std
 - On/Off/Manual Switch Std
 - E-Stop (Red Mushroom-Type) Std
 - Remote E-Stop (Break Glass-Type, Surface Mount) -
 - Remote E-Stop (Red Mushroom-Type, Surface Mount) -
 - Remote E-Stop (Red Mushroom-Type, Flush Mount) -
 - NFPA 110 Level I and II (Programmable) Std
 - Remote Communication - RS232 Std

Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

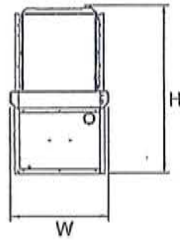
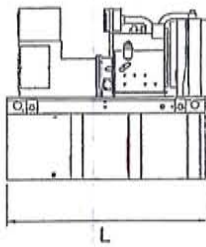
- Low Fuel Std
- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdo) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage Shutdown) Std
- Battery Voltage Std

Other Options

- Single Side Service
-
-

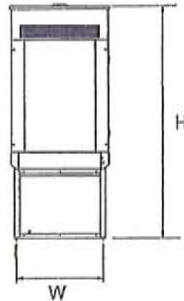
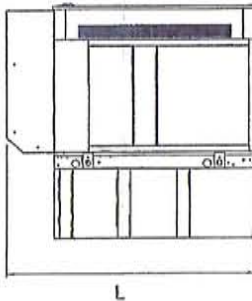
SD050

dimensions, weights and sound levels



OPEN SET

RUNTIME HOURS	TANK SIZE		L	W	H	WT	dBA*
	CAPACITY (GAL)	TANK VOLUME					
-	-	-	-	-	-	-	84
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
48	210	210	76	38	87	3400	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	



LEVEL 2 SOUND ENCLOSURE

RUNTIME HOURS	TANK SIZE		L	W	H	WT	dBA*
	CAPACITY (GAL)	TANK VOLUME					
-	-	-	-	-	-	-	71
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
48	210	210	94.8	38	99	3935	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	

*Required gallons based on 100% of standby rating. Weights consider steel enclosure and are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

C.U.P. Resolution #10-02

**CONDITIONAL USE PERMIT
FOR THREE (3) ADDITIONAL COMMUNICATION ANTENNAE
AND AN EQUIPMENT CABINET AT THE CITY'S WATER TOWER
AT 631 CHIPPEWA STREET**

WHEREAS, A T & T has requested a Conditional Use Permit to install three (3) additional antennae and an equipment cabinet on the City of Chippewa Falls Water Tower located at #631 Chippewa Street; and

WHEREAS, Conditional Use Permit #10-02 will supplement C.U.P. Resolution #04-05 granting 3 antennae and equipment cabinets at the Water Tower located at #631 Chippewa Street:

WHEREAS, the City property at #631 Chippewa Street is presently zoned R-1C Single Family Residential District; and

WHEREAS, A T & T has submitted engineering drawings (available for inspection in the City Engineer's Office) and design by Ramaker & Associates, Inc. and a site plan (attached) detailing the proposed antennae installation; and

WHEREAS, A T & T has submitted a virtual reality photo simulation (available for viewing at the City Engineer's Office) showing the antennae mounted on the water tower; and

WHEREAS, A T & T has submitted a revised lease agreement amendment (attached) for review; and

WHEREAS, the Plan Commission has evaluated the request of A T & T to place three (3) additional antennae on the City Water Tower located at #631 Chippewa Street, a 3' x 4' equipment cabinet on the ground and coaxial cable runs connecting the two; and

WHEREAS, the Plan Commission conducted a public hearing on this request on Monday, June 7, 2010 after publication of a Class 2 legal notice and mailing of said notice to adjacent property owners, as required by Chapter 17.47 (5) of the Code of Ordinances of the City of Chippewa Falls, Wisconsin.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF CHIPPEWA FALLS PLAN COMMISSION, that a Conditional Use Permit be granted to A T & T under the following conditions:

1. That A T & T be permitted to mount three (3) additional antennae on the stem of the City of Chippewa Falls Water Tower located at #631 Chippewa Street. (Parcel #2982)
2. That one additional 3' x 4' equipment cabinet be permitted in the existing enclosure and placed according to the attached site plan.
3. That A T & T be permitted to attach the antennae to the ground cabinet with two runs of coaxial cable per antenna.

C.U.P. Resolution #10-02

4. That the antennae, coaxial cable and ground cabinet be constructed in accordance with the approved engineering drawings (available for inspection in the City Engineer's Office) and attached site plan. Construction will only be allowed when plans for the installation have been reviewed and approved by the City of Chippewa Falls or the City's consultant.

5. That any additional future painting or maintenance costs of the water tower caused by the antennae or coaxial cable installation be borne by A T & T.

6. That the initial rent be set at \$1,759.98 per month as detailed in the lease agreement.

7. A T & T shall be responsible for conducting an intermod and interference study and analysis to show that there will not be interference with existing radio systems already using the tower. A T & T shall provide the City of Chippewa Falls with a copy of the study prior to any installation. A T & T will be responsible for correcting any interference problems for the existing users, including any equipment and service. If any future changes by A T & T should cause problems, A T & T shall be responsible for correcting any problems for existing users.

8. Any access to the water tower must be scheduled with the Water Department. Access will only be allowed to properly identified employees or agents of A T & T and only when accompanied by a Water Department employee. If access is required during non-business hours, A T & T will compensate the Water Department for extra costs.

9. That comprehensive general liability insurance in the amount of \$1,000,000 be maintained by the owner of the antennae and equipment cabinet as detailed in the attached lease agreement and that a Certificate of Insurance be filed in the office of the Secretary of the Plan Commission.

10. If the antennae are not used for a period of 12 months or more, they then shall be considered abandoned. A T & T, or any future owner of the antennae, shall have a lien placed against the antennae and equipment and shall cause the removal of the same within six (6) months of the abandonment declaration.

11. In the event that the City's water supply is contaminated or threatened due to any action of A T & T or its' subcontractors, A T & T, or future owners of antennae or equipment, shall bear any and all costs associated with the repairs and correction of the problem.

12. Modifications or changes to this permit may be made only by the Plan Commission after an application for amendment has been duly filed and notices and hearing requirements have been complied with.

13. Except as specifically provided herein, all regulations of the City Zoning Code shall apply.

14. That this permit shall become null and void by non-compliance with this permit or related Codes or by application to the Board of Appeals for any Code variance for this facility.

15. Chapter 17.47 (13) shall apply and this permit shall terminate if the use for which this permit is issued shall cease for a continuous two year period.

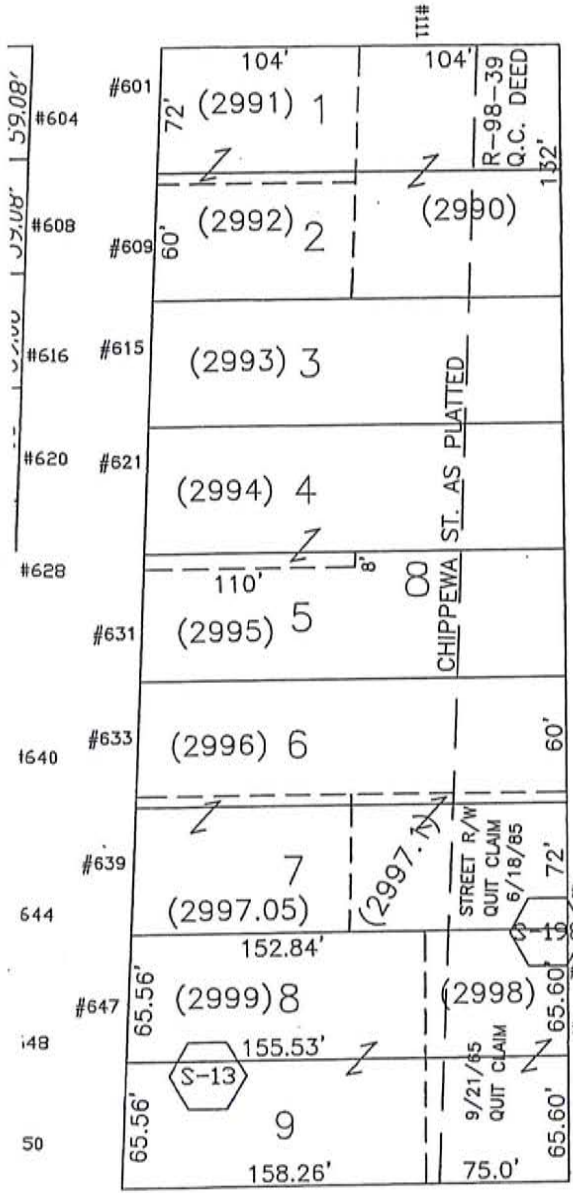
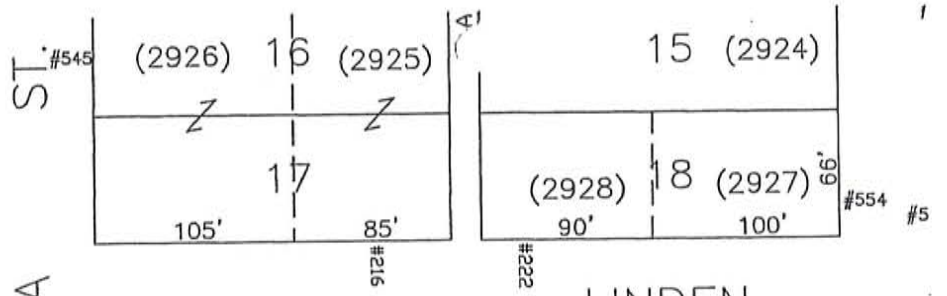
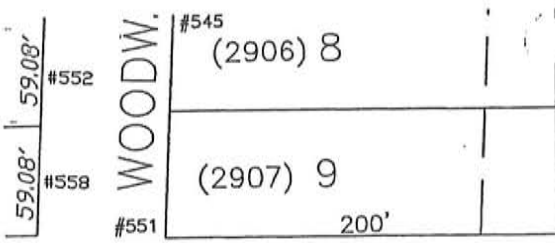
C.U.P. Resolution #10-02

MOTION: Hubbard

SECOND: Varga

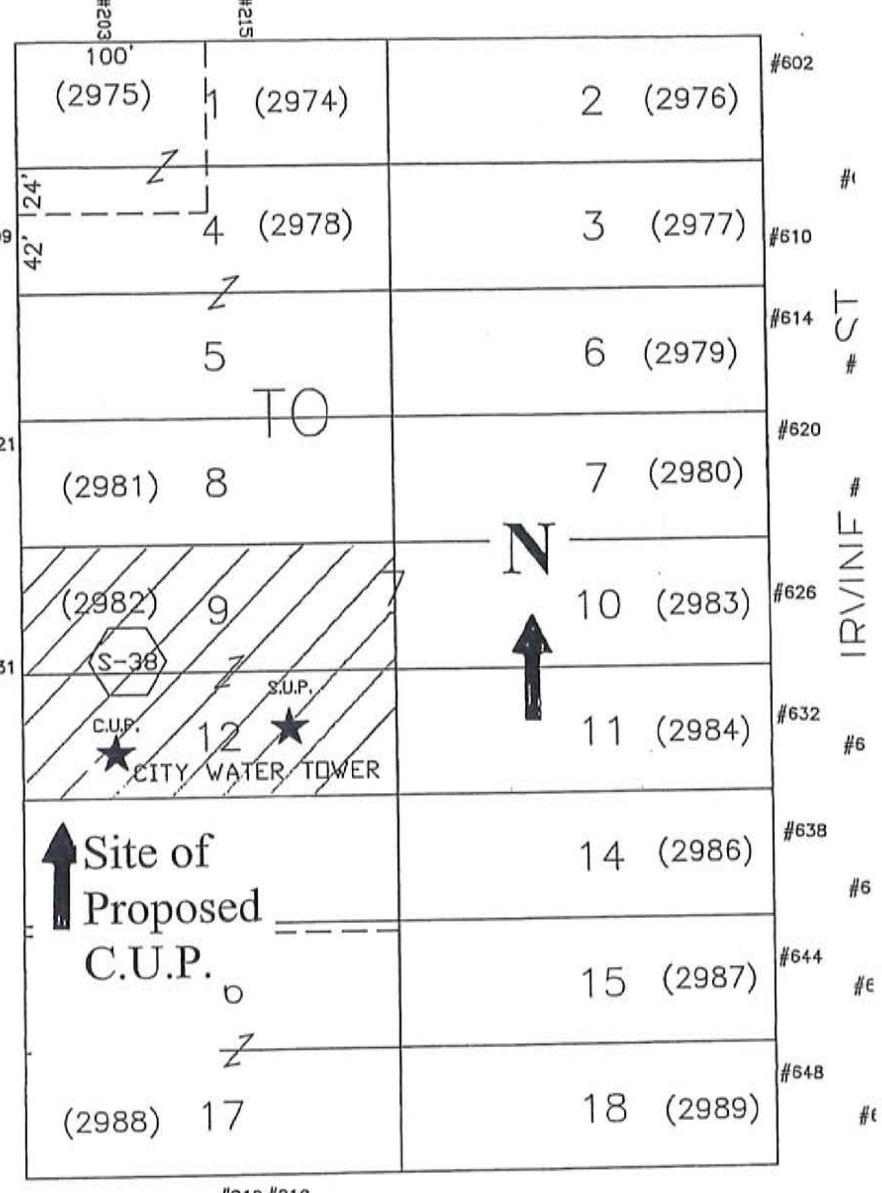
I hereby certify that the Plan Commission of the City of Chippewa Falls, Wisconsin, adopted the above Resolution on June 7, 2010, by a vote of 11 ayes, 0 nays, and 0 abstentions.

ATTEST: Richard J. Rubenzer
Richard J. Rubenzer P.E., Secretary
Plan Commission

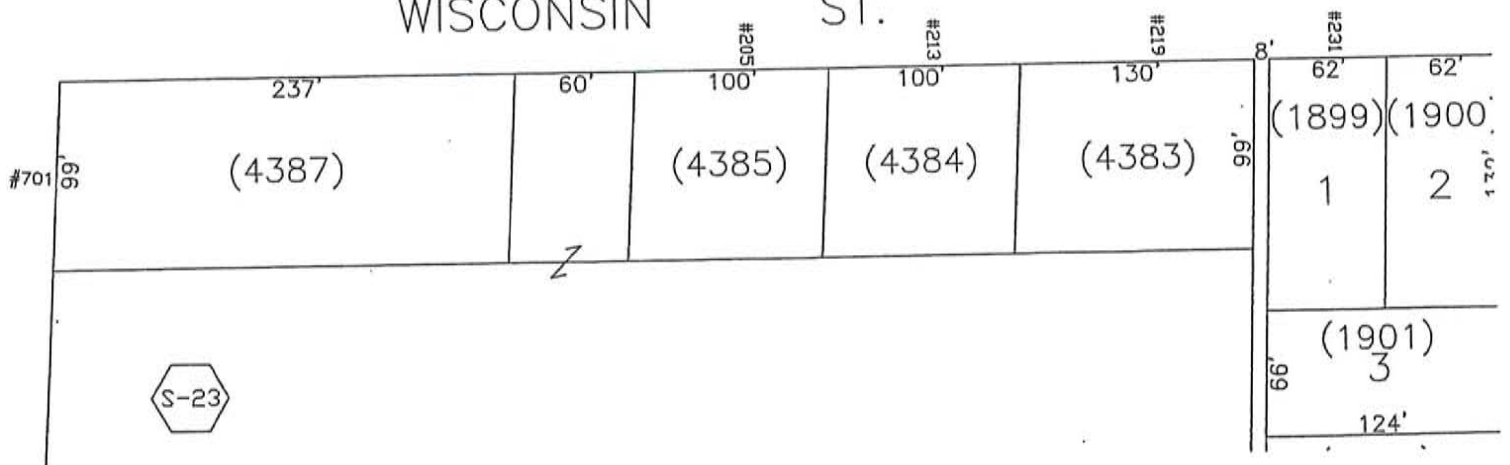


CHIPPEWA ST.

NOTE: IN LIEU OF ASSESSMENT CONNECTION CHARGES APPLY TO SEWER & WATERMAIN



WISCONSIN ST.



APPROVALS

GOODMAN NETWORKS: _____
 AT&T: _____
 PROPERTY OWNER: _____

SITE INFORMATION

TOWER OWNER: **CIT OF CHIPPEWA FALLS**
 SITE ADDRESS: **631 CHIPPEWA ST,
 CHIPPEWA FALLS, WISCONSIN**
 LATITUDE: **44.835371 N**
 LONGITUDE: **-89.323571 W**
 TOWER ELEVATION: **99 FT AGL**
 PROJECT NUMBER: **10123980**
 PROJECT NAME: **DBS - CHIPPEWA FALLS SOUTH WT**
 TELEPHONE COMPANY: **AMERITECH**
 PHONE NUMBER: **715-838-3232**

CONTACT INFORMATION

DRAWER: **RAMAKER & ASSOCIATES, INC.
 820 DALLAS STREET
 SUITE 101, WISCONSIN**
 CONTACT: **KEITH BOWEN**
 PHONE: **715-838-3232**

APPLICABLE BUILDING CODES & STANDARDS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE COUNTY OF CHIPPEWA, WISCONSIN. WHERE LOCAL ORDINANCES ARE IN CONFLICT WITH THESE CODES, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. THE FOLLOWING ARE THE CODES AND STANDARDS REFERENCED IN THIS DOCUMENT:

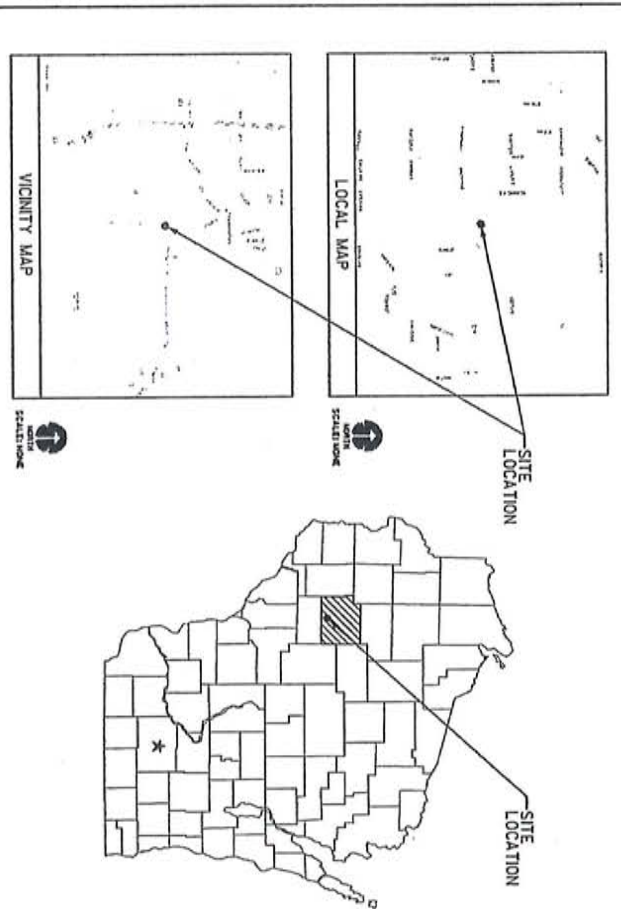
1. INTERNATIONAL BUILDING CODE 2009
2. NATIONAL ELECTRIC CODE (NEC)
3. AMERICAN CONCRETE INSTITUTE (ACI) 308, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
5. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-C, STRUCTURAL STANDARDS FOR STEEL TOWERS AND AIRFRAME SUPPORTING STRUCTURES
6. THE 607, COMMERCIAL BUILDING GOODWINDING AND BRACING REQUIREMENTS FOR TELECOMMUNICATIONS



CALL DIGGER'S HOTLINE
 1-800-255-5271
 1-800-255-5271
FAX A LOCATOR 1-800-338-3886
 1-800-338-3886
TOLL-FREE NEARING IMPAIRED 1-800-542-2388



SITE NAME: DBS - CHIPPEWA FALLS SOUTH WT
SITE NUMBER: WI4389
FA LOCATION CODE: 10123980
PRELIMINARY CONSTRUCTION DRAWINGS



DRIVING DIRECTIONS

FROM HIGHWAY 18 S, EXIT ON SR 24, CONTINUE 1/2 MILES NORTH TO LEFT TURN ON WOODWARD AVE, CONTINUE 2 BLOCKS NORTH TO RIGHT ON E BIRCHMOUNT ST, TURN LEFT ON CHIPPEWA ST, SITE WILL BE ON THE RIGHT.

DRAWING INDEX

SHEET NO.	TITLE	SHEET TITLE
T-1	TITLE SHEET	
A-1	SITE PLAN	
A-2	ELEVATION	
A-3	EQUIPMENT LAYOUT	
A-4	EQUIPMENT DETAILS	
A-5	BE BENCH DETAIL	
A-6	ANTENNA CONFIGURATION	
A-7	WIND CONTROL EQUIPMENT	
A-8	COAR COLOM COPIING	
E-1	UTILITY PLAN	
E-2	ROOF DETAIL	
E-3	UTILITY & EQUIPMENT DETAILS	

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & ELEVATIONS, DIMENSIONS & MATERIALS BEFORE CONSTRUCTION. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCALE.



I hereby certify that the plan, specifications or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Wisconsin. I should be noted that these plans represent design work only (T) and have not been prepared for construction purposes only.

Signature: _____
 Date: _____



GOODMAN NETWORKS, INC.
 5400
 PLANO, TX 75093

PROJECT NO: 10123980
 DRAWING NO: 10123980-01
 DATE: 10/12/09

NO.	DATE	DESCRIPTION
1	10/12/09	ISSUED FOR PERMITS

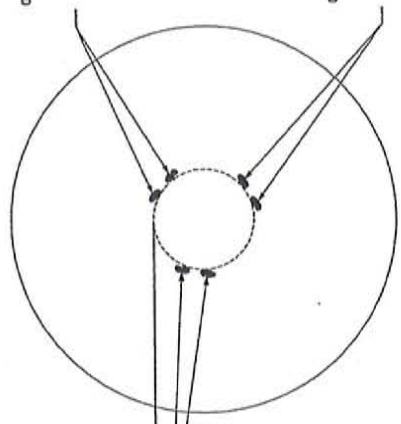
WI4389
DBS - CHIPPEWA FALLS SOUTH WT
 CHIPPEWA FALLS, WISCONSIN 54129

TITLE SHEET
 SHEET NUMBER: T-1

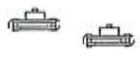
TITLE SHEET
 SHEET NUMBER: T-1

TITLE SHEET
 SHEET NUMBER: T-1

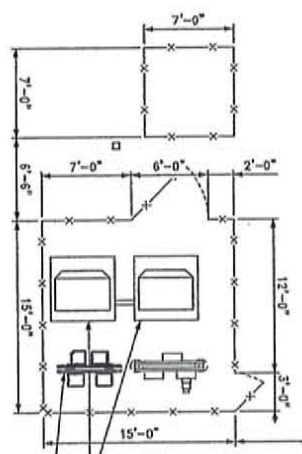
ALPHA SECTIONS
 (1) EXISTING ANTENNA TO BE REMOVED & REPLACED WITH PROPOSED POWERLINE ANTENNA 200' AZIMUTH WITH (Q) DUALBAND TMA, CENTERLINE AT ± 82.0' AGL.
 (2) PROPOSED POWERLINE ANTENNA 200' AZIMUTH WITH (Q) DUALBAND TMA, CENTERLINE AT ± 82.0' AGL.



BETA SECTIONS
 (1) EXISTING ANTENNA TO BE REMOVED & REPLACED WITH PROPOSED POWERLINE ANTENNA 200' AZIMUTH WITH (Q) DUALBAND TMA, CENTERLINE AT ± 82.0' AGL.



Gamma SECTIONS
 (1) EXISTING ANTENNA TO BE REMOVED & REPLACED WITH PROPOSED POWERLINE ANTENNA 200' AZIMUTH WITH (Q) DUALBAND TMA, CENTERLINE AT ± 82.0' AGL.



EXISTING ANTENNA
 EQUIPMENT CABINET
 PROPOSED ANTENNA
 EQUIPMENT CABINET
 PROPOSED POWERLINE ANTENNA
 EQUIPMENT CABINET
 DEMOLITION AREA



RAMAKER & ASSOCIATES, INC.
 1010 Park Street, Suite 200, Raleigh, NC 27601
 Phone: 919.441.1100 Fax: 919.441.3999
 www.ramaker.com

RAMAKER & ASSOCIATES, INC.
 6405 WILSON ROAD, SUITE 100
 PLANO, TX 75075

PROJECT NO: 17258 W4389
 DATE: 11/17/18
 DRAWN BY: JMS
 CHECKED BY: JMS

NO.	DATE	DESCRIPTION	BY	APP.
1	11/17/18	PRELIMINARY DRAFT	JMS	JMS
2	03/15/20	FOR PERMIT	JMS	JMS
3	03/15/20	FOR PERMIT	JMS	JMS
4	03/15/20	FOR PERMIT	JMS	JMS
5	03/15/20	FOR PERMIT	JMS	JMS
6	03/15/20	FOR PERMIT	JMS	JMS
7	03/15/20	FOR PERMIT	JMS	JMS
8	03/15/20	FOR PERMIT	JMS	JMS
9	03/15/20	FOR PERMIT	JMS	JMS
10	03/15/20	FOR PERMIT	JMS	JMS
11	03/15/20	FOR PERMIT	JMS	JMS
12	03/15/20	FOR PERMIT	JMS	JMS
13	03/15/20	FOR PERMIT	JMS	JMS
14	03/15/20	FOR PERMIT	JMS	JMS
15	03/15/20	FOR PERMIT	JMS	JMS
16	03/15/20	FOR PERMIT	JMS	JMS
17	03/15/20	FOR PERMIT	JMS	JMS
18	03/15/20	FOR PERMIT	JMS	JMS
19	03/15/20	FOR PERMIT	JMS	JMS
20	03/15/20	FOR PERMIT	JMS	JMS
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25	03/15/20	FOR PERMIT	JMS	JMS
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29	03/15/20	FOR PERMIT	JMS	JMS
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31	03/15/20	FOR PERMIT	JMS	JMS
32	03/15/20	FOR PERMIT	JMS	JMS
33	03/15/20	FOR PERMIT	JMS	JMS
34	03/15/20	FOR PERMIT	JMS	JMS
35	03/15/20	FOR PERMIT	JMS	JMS
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37	03/15/20	FOR PERMIT	JMS	JMS
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48	03/15/20	FOR PERMIT	JMS	JMS
49	03/15/20	FOR PERMIT	JMS	JMS
50	03/15/20	FOR PERMIT	JMS	JMS

WI4389
DBS - CHIPPEWA FALLS SOUTH WT
 CHIPPewa FALLS, WISCONSIN 54739

SITE PLAN

A-1



RAMAKER & ASSOCIATES, INC.
 1170 Diller Street, Suite 200, Wisconsin Dells, WI 53590
 Phone: 608-445-4410 Fax: 608-445-7799
 www.ramaker.com

COORNAW NETWORKS, INC.
 6400 INTERNATIONAL DRIVE
 FORT WORTH, TX 76120

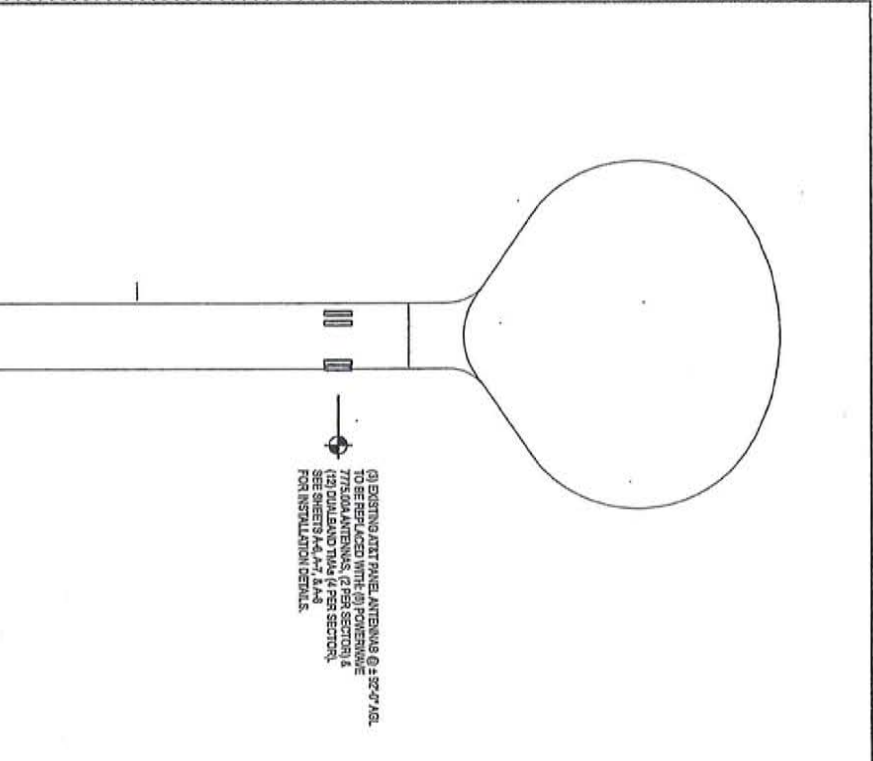
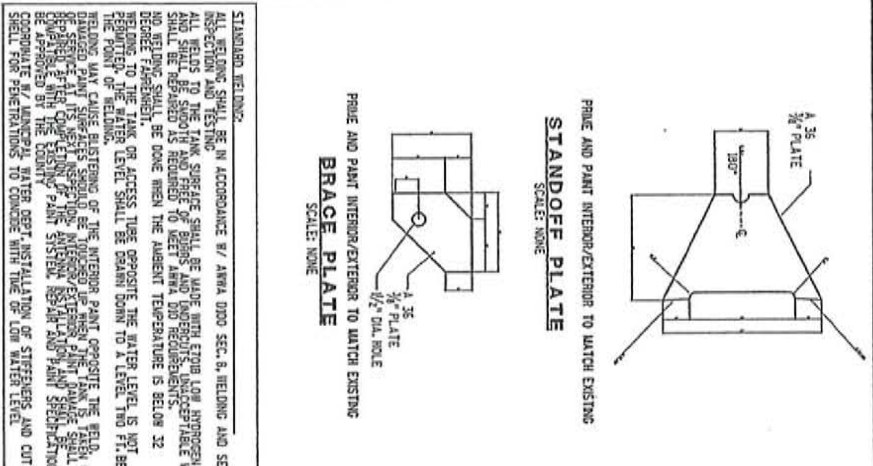
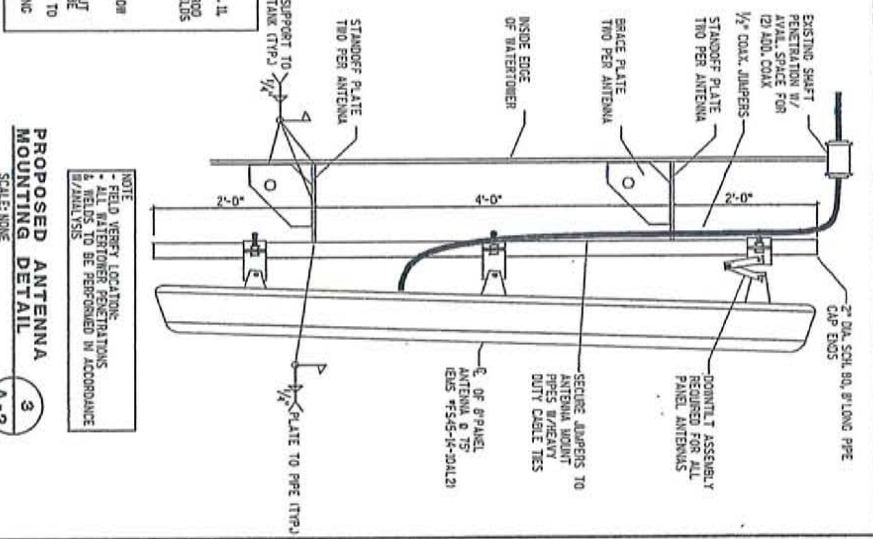
PROJECT NO. 07158 BK358
 SHEET LET. CDR. 518 APR. 05

NO.	DATE	DESCRIPTION	BY
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2	02/22/05	PER. LAYOUT DRAW	WJ
REV	DATE	DESCRIPTION	BY

W14389
DBS - CHIPPEWA FALLS SOUTH WT
 631 CHIPPEWA
 CHIPPEWA FALLS, WISCONSIN 54729

SHEET TITLE
ELEVATION

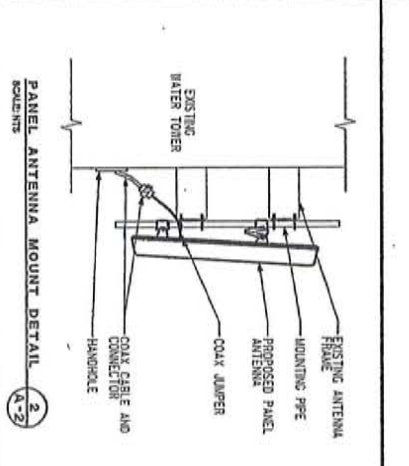
SHEET NUMBER
A-2



STANDARD WELDING:
 ALL WELDING SHALL BE IN ACCORDANCE W/ ANNA 0000 SECC. B WELDING AND SEC. 11. INSPECTION AND TESTING SHALL BE MADE WITH STOR. LOG. HYDROGEN ROD AND SHALL BE SUBJECT TO PRE-TESTING AND ACCEPTANCE TESTS. WELDS SHALL BE REPAIRED AS REQUIRED TO MEET ANNA 000 REQUIREMENTS.
 NO WELDING SHALL BE DONE WHEN THE AMBIENT TEMPERATURE IS BELOW 32 DEGREE FAHRENHEIT. WELDING SHALL BE DONE WHEN THE AMBIENT TEMPERATURE IS BELOW 32 DEGREE FAHRENHEIT.
 WELDING MAY CAUSE DISTORTION OF THE INTERIOR PAINT OPPOSITE THE WELD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO INTERIOR PAINT DAMAGE SHELL BE REPAIRED AFTER COMPLETION OF THE ANTENNA INSTALLATION AND PAINT SPECIFICATION TO BE APPROVED BY THE COUNTY PAINT SYSTEMS SPECIALIST AND PAINT SPECIFICATION TO COORDINATE W/ MUNICIPAL WATER DEPT. INSTALLATION OF STIFFENERS AND CUTTING SHELL FOR PENETRATIONS TO COINCIDE WITH TIE OR LOW WATER LEVEL.

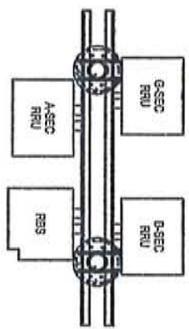
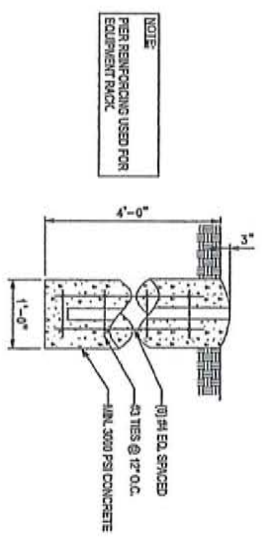
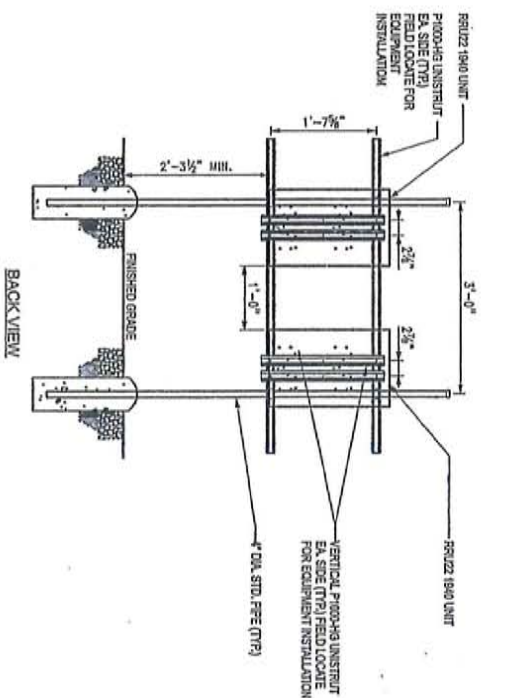
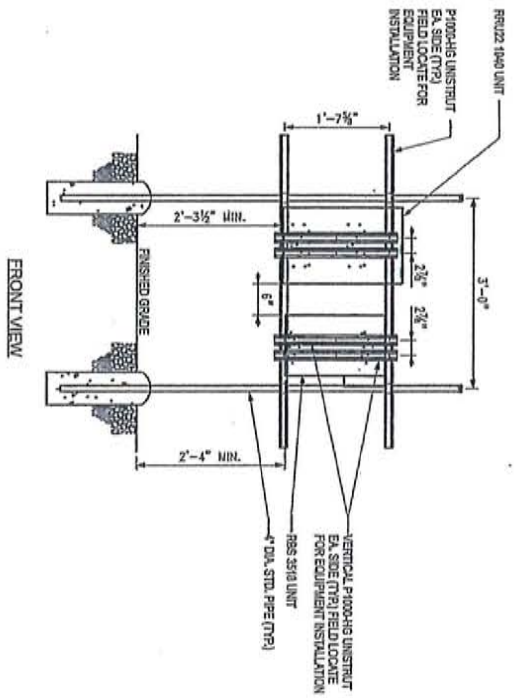
COAX NOTES:

- MINIMUM SEPARATION BETWEEN ANTENNAS IS 36" IF CONTRACTOR CAN NOT MAINTAIN MINIMUM DISTANCE CONTACT ENGINEER FOR SOLUTION/ ALTERNATE DESIGN.
- COAX CABLE LENGTH SHOULD BE APPROXIMATE. CONTRACTOR IS REQUIRED TO MAKE ACTUAL FIELD MEASUREMENT PRIOR TO PURCHASE AND BE RESPONSIBLE FOR SAME.
- COAX CABLE SHALL BE RAISED/SUPPORTED WITH HOISTING GIMP AT APPROPRIATE POINTS PER MANUFACTURER REQUIREMENTS.
- CONTRACTOR WILL PROVIDE COAX CABLE, RF CONNECTORS, AND RF TERMINATING WTS.
- CONTRACTOR SHALL SUPPORT COAX CABLE PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL PROVIDE SUPPORTS FOR COAX CABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CLAMPS, AND NOTION OF PLASTIC "DIP-TESTING" BE ALLOWED. COAX MAY BE UNSUPPORTED INSIDE MONOPOLE INSTALLATIONS.
- NO COAX SHALL BE OUTSIDE THE POLE MORE THAN 20'-0" UNLESS OTHERWISE DIRECTED. TO GET FROM AN EXISTING PORTHOLE TO ANTENNA HEIGHT IF HORIZONTAL SECT. BE INSTALLED PER TOWER MANUFACTURER INSTRUCTIONS. NO NEW PORTHOLES SHALL BE INSTALLED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY A&T.



COAX NOTES:

- MINIMUM SEPARATION BETWEEN ANTENNAS IS 36" IF CONTRACTOR CAN NOT MAINTAIN MINIMUM DISTANCE CONTACT ENGINEER FOR SOLUTION/ ALTERNATE DESIGN.
- COAX CABLE LENGTH SHOULD BE APPROXIMATE. CONTRACTOR IS REQUIRED TO MAKE ACTUAL FIELD MEASUREMENT PRIOR TO PURCHASE AND BE RESPONSIBLE FOR SAME.
- COAX CABLE SHALL BE RAISED/SUPPORTED WITH HOISTING GIMP AT APPROPRIATE POINTS PER MANUFACTURER REQUIREMENTS.
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NOTE:
PER REINFORCING USED FOR
EQUIPMENT RACK

PROPOSED EQUIPMENT
H-FRAME DETAILS
1
A-4

1110 Dallas Street, Suite 200, Waukesha, WI 53186
Phone: (262) 545-1100 Fax: (262) 545-0799
www.ramaker.com

5400 INTERNATIONAL BLVD
FARMINGTON, CT 06031

PROJECT NO: 17358 - RW139
DWG. LET: 0408 E418 APPY: JES

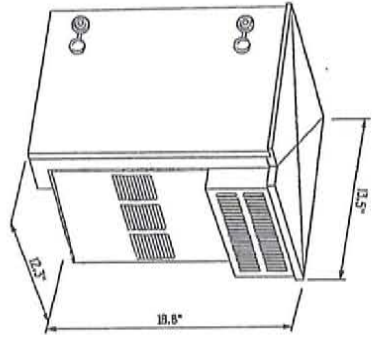
NO.	DATE	BY	DESCRIPTION
1	04/17/20	JES	ISSUE FOR PERMIT
2	04/17/20	JES	ISSUE FOR CONSTRUCTION

WI/4389
DBS - CHIPPEWA
FALLS SOUTH WT
321 CHIPPEWA
CHIPPEWA FALLS, WISCONSIN 54719

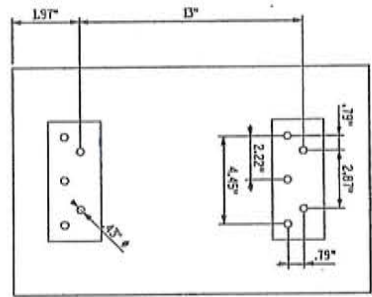
SHEET TITLE
EQUIPMENT
DETAILS

SHEET NUMBER
A-4

RBS 3518 MAIN UNIT MEASUREMENTS



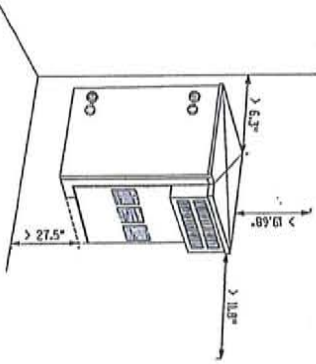
MEASUREMENTS



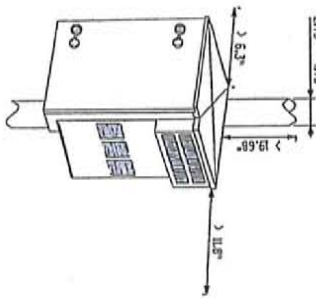
DRILL TEMPLATE

RBS 3518	UNIT	WEIGHT
	FULLY EQUIPPED	72.75 lbs (33 kg)
	COLOR	REFERENCE NUMBER
	GREY	LIV 504 853/3330

WALL-MOUNT REQUIREMENTS

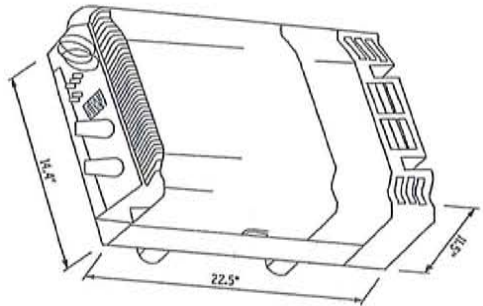


PIPE-MOUNT REQUIREMENTS

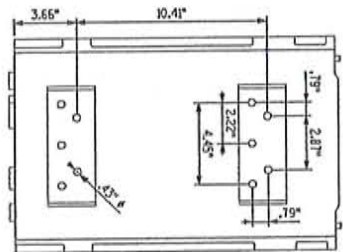


RBS3418- RACK MOUNTED UNIT
SHEET NUMBER 1 A-5

RRU22 1940 (REMOTE RADIO UNIT)



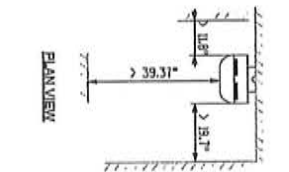
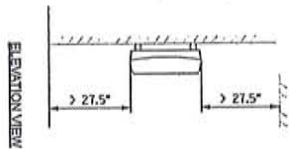
MEASUREMENTS



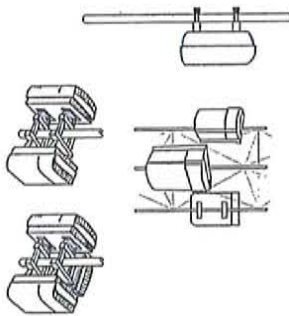
DRILL TEMPLATE

RRU22 1940	UNIT	WEIGHT
	AC INDOOR	57.8 lbs (26.2 kg)
	AC OUTDOOR	71.1 lbs (32.3 kg)
	COLOR	REFERENCE NUMBER
	GREY	NCS 32502-R

WALL-MOUNT REQUIREMENTS



PIPE-MOUNT REQUIREMENTS



RRU22 1940- REMOTE RADIO UNIT
SHEET NUMBER 2 A-5



PRODUCT NO: 0758 B/C093
DATE: 1/97
DRAWN: JMB
BY: JMB

NO	REV	DESCRIPTION	DATE
1		ISSUE FOR PRODUCTION	1/97
2		ISSUE FOR PRODUCTION	1/97
3		ISSUE FOR PRODUCTION	1/97
4		ISSUE FOR PRODUCTION	1/97
5		ISSUE FOR PRODUCTION	1/97
6		ISSUE FOR PRODUCTION	1/97
7		ISSUE FOR PRODUCTION	1/97
8		ISSUE FOR PRODUCTION	1/97
9		ISSUE FOR PRODUCTION	1/97
10		ISSUE FOR PRODUCTION	1/97
11		ISSUE FOR PRODUCTION	1/97
12		ISSUE FOR PRODUCTION	1/97
13		ISSUE FOR PRODUCTION	1/97
14		ISSUE FOR PRODUCTION	1/97
15		ISSUE FOR PRODUCTION	1/97
16		ISSUE FOR PRODUCTION	1/97
17		ISSUE FOR PRODUCTION	1/97
18		ISSUE FOR PRODUCTION	1/97
19		ISSUE FOR PRODUCTION	1/97
20		ISSUE FOR PRODUCTION	1/97

WI4389
DBS - CHIPPEWA FALLS SOUTH W/ CHIPPENAW FALLS, WISCONSIN 54729

SHEET TITLE
EQUIPMENT DETAILS
SHEET NUMBER
A-5



RAMAKER & ASSOCIATES, INC.
 1120 Midway Street, Suite C-104, Waukesha, WI 53186
 TEL: 262-534-4500 FAX: 262-534-4501

COORINATE NETWORKS, INC.
 4400 PLYMOUTH, 1ST FLOOR
 WILSON, WI 53190

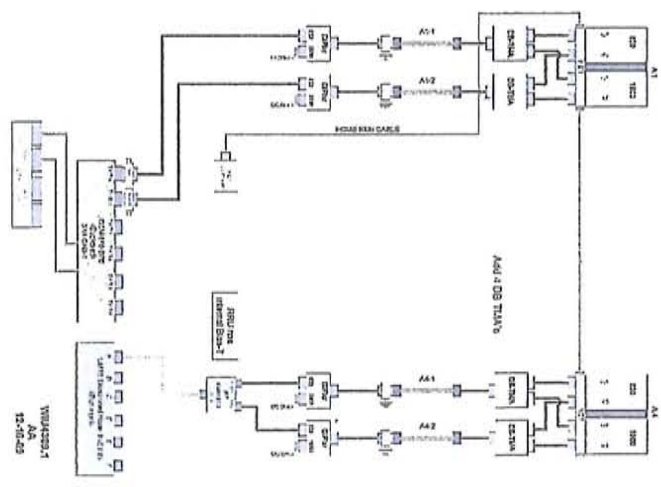
PROJECT NO: 07759 INC389
 DRAWN: LSP CAD: JAS JPV: JS

NO	DATE	DESCRIPTION
1	12-15-00	ISSUE FOR PRELIMINARY DRAW
2	12-15-00	ISSUE FOR FINAL DRAW
3	12-15-00	ISSUE FOR FINAL DRAW
4	12-15-00	ISSUE FOR FINAL DRAW
5	12-15-00	ISSUE FOR FINAL DRAW
6	12-15-00	ISSUE FOR FINAL DRAW
7	12-15-00	ISSUE FOR FINAL DRAW
8	12-15-00	ISSUE FOR FINAL DRAW
9	12-15-00	ISSUE FOR FINAL DRAW
10	12-15-00	ISSUE FOR FINAL DRAW

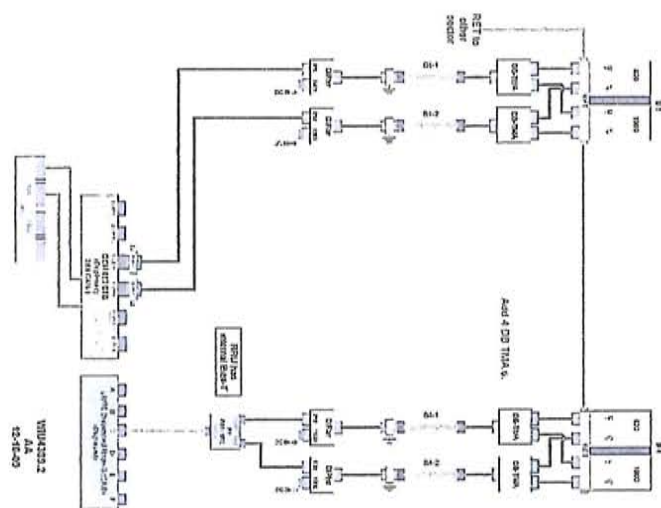
WI4389
 DBS - CHIPPEWA FALLS SOUTH WT
 631 CHIPPEWA
 CHIPPEWA FALLS, WISCONSIN 54178

DIRECTIONAL ANTENNA CONFIGURATION
 SHEET NUMBER
 A-7

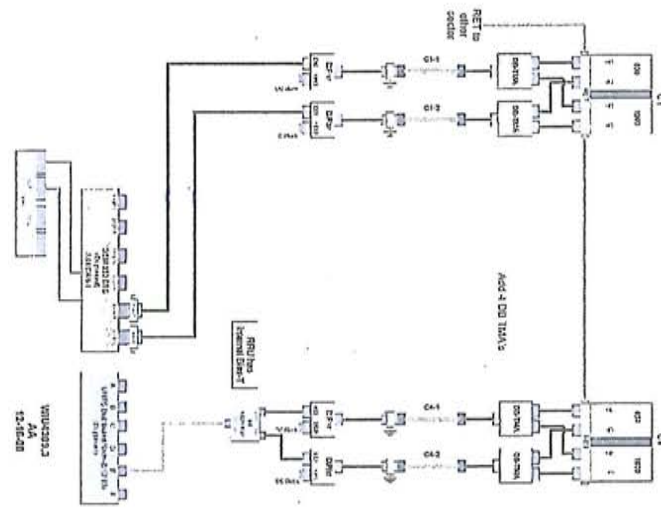
ALPHA SECTOR



BETA SECTOR



GAMMA SECTOR



ANTENNA CONFIGURATION
 1
 A-7



RAMAKER & ASSOCIATES, INC.
 10000 Lakeshore Drive, Westborough, MA 01581
 508-853-1100
 www.ramaker.com

CDROM NETWORKS, INC.
 5409
 FLORNO, TX 75222

PROJECT NO: 0799 W4389
 DMC LET CD: K4B APR: 85

NO	REV	DATE	DESCRIPTION
1	02/20		30% LAYOUT DATA
2	02/20		FINAL LAYOUT DATA

WI4389
DBS - CHIPPEWA FALLS SOUTH WT
 521 CHIPPEWA
 CHIPPEWA FALLS, WISCONSIN 54729

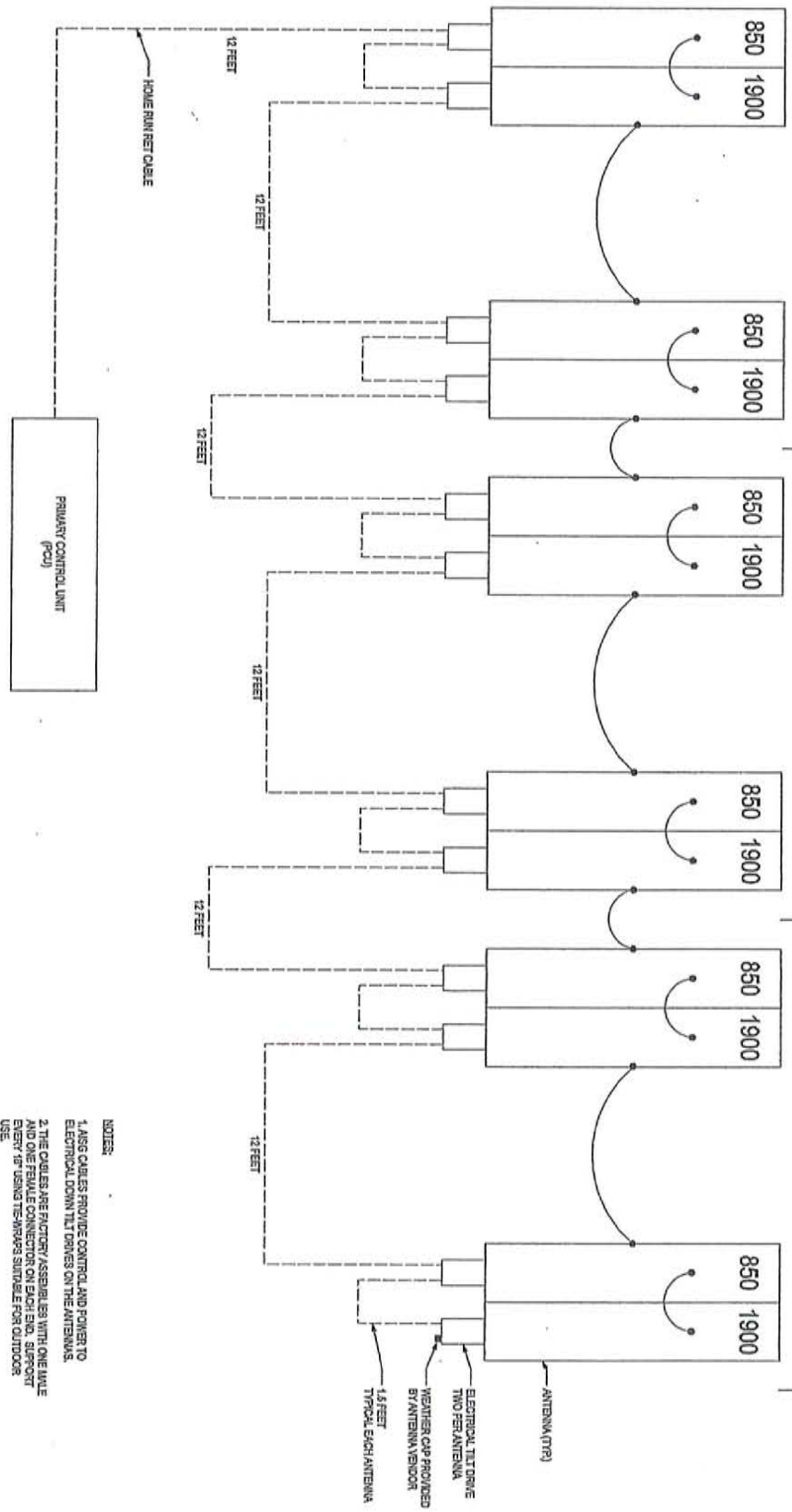
RET CONTROL DIAGRAM

SHEET NUMBER
A-8

SECTOR 1

SECTOR 2

SECTOR 3



- NOTES:**
1. ALL CABLES PROVIDE CONTROL AND POWER TO ELECTRICAL DOWN TILT DRIVERS ON THE ANTENNAS.
 2. THE CABLES ARE FACTORY ASSEMBLED WITH ONE WAVE NUMBER CONNECTION ON EACH END. SUPPORT ENDS BY USING TECHNIQUES SHOWN FOR OUTDOOR USE.
 3. NO TESTING OR WEATHERPROOFING OF THE CABLES REQUIRED.

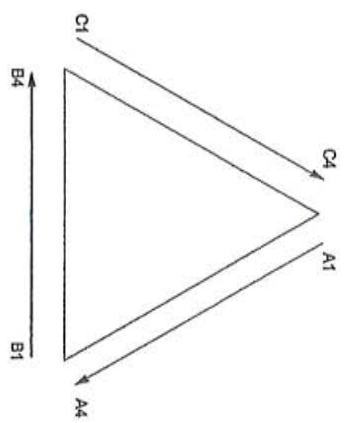
RET CONTROL DETAIL 1
 SCALE: N/A

CABLE MARKING COLOR CONVENTION TABLE

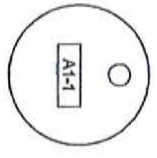
ALPHA, X, #1	A1-1	A1-2	A2-1	A2-2	A3-1	A3-2	A4-1	A4-2
SECTOR ANTENNA PORT	RED WHITE SLATE	RED WHITE BROWN	RED ORANGE SLATE	RED ORANGE BROWN	RED BROWN SLATE	RED BROWN BROWN	RED VIOLET SLATE	RED VIOLET BROWN
	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET
SECTOR ANTENNA PORT	BLUE WHITE SLATE	BLUE WHITE BROWN	BLUE ORANGE SLATE	BLUE ORANGE BROWN	BLUE BROWN SLATE	BLUE BROWN BROWN	BLUE VIOLET SLATE	BLUE VIOLET BROWN
	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET
GAMMA, C, Z, #3	C1-1 +45	C1-2 -45	C2-1 +45	C2-2 -45	C3-1 +45	C3-2 -45	C4-1 +45	C4-2 -45
	GREEN WHITE SLATE	GREEN WHITE BROWN	GREEN ORANGE SLATE	GREEN ORANGE BROWN	GREEN BROWN SLATE	GREEN BROWN BROWN	GREEN VIOLET SLATE	GREEN VIOLET BROWN
BAND (950/1900)	D1-1 +45	D1-2 -45	D2-1 +45	D2-2 -45	D3-1 +45	D3-2 -45	D4-1 +45	D4-2 -45
	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET	ORANGE/ VIOLET
DELTA, D, #4	D1-1 +45	D1-2 -45	D2-1 +45	D2-2 -45	D3-1 +45	D3-2 -45	D4-1 +45	D4-2 -45
	YELLOW WHITE SLATE	YELLOW WHITE BROWN	YELLOW ORANGE SLATE	YELLOW ORANGE BROWN	YELLOW BROWN SLATE	YELLOW BROWN BROWN	YELLOW VIOLET SLATE	YELLOW VIOLET BROWN

NOTES:

1. ALL COLOR CODE TAPE SHALL BE 3/4-35 AND SHALL BE INSTALLED USING A MINIMUM OF 13 STRIPS OF TAPE.
2. ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
3. ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND WIRE BE ONLY 7/8" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH 10 SET OF 3" WIDE BANDS, THE B1'S OR TRANSMITTER BUILDING.
4. EACH MAIN COAX SHALL BE COLOR CODED WITH 10 SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/4" COLOR BANDS JUST PRIOR TO ENTERING THE B1'S OR TRANSMITTER BUILDING.
5. ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH 10 SET OF 3/4" BANDS ON EACH AND OF THE BOTTOM JUMPER.
6. ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
7. EACH COLOR BAND SHALL HAVE A MINIMUM OF 13 STRIPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
8. X-POLE ANTENNAS SHOULD USE "XX-Y" FOR THE "+45" PORT, "XX-Z" FOR THE "-45" PORT.
9. COLOR BAND #4 REFERS TO THE FREQUENCY BAND: ORANGE- 950, VIOLET- 990. USED ON JUMPERS ONLY.
10. IF FEEDLINE SHALL BE IDENTIFIED WITH A METAL TAG STAINLESS OR BRASS AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER.
11. TO PROVIDE ADDITIONAL IDENTIFICATION OF CABLES SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STAINLESS STEEL, OR BRASS, AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER. THE IDENTIFICATION LOCATIONS SHOULD BE AS PER CABLE MARKING LOCATIONS TABLE. THE TAG SHOULD BE ATTACHED WITH CORROSIVE PROOF WIRE OR WAX STRING AROUND THE CABLE. THE TAG SHOULD BE LABELED AS SHOWN IN DETAIL Z/A-3.



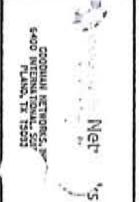
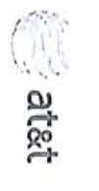
ANTENNA ORIENTATION
SCALE: 1/8" = 1'-0"



TAG DETAIL EXAMPLE
SCALE: 1/8" = 1'-0"

CABLE MARKING LOCATIONS TABLE

TAPE	TAG	LOCATIONS
X		EACH TOP JUMPER SHALL BE COLOR CODED WITH 10 SET OF 3" WIDE BANDS.
X		EACH MAIN COAX SHALL BE COLOR CODED WITH 10 SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 10 SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE B1'S OR TRANSMITTER BUILDING.
X		MARKING TAGS SHALL BE ATTACHED AT CABLE ENTRY POINT ON THE INTERIOR OF THE SHELTER.
X		ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH 10 SET OF 3/4" WIDE BANDS ON EACH END OF BOTTOM JUMPER.



PROJECT NO: 1739
DATE: 02/01/05

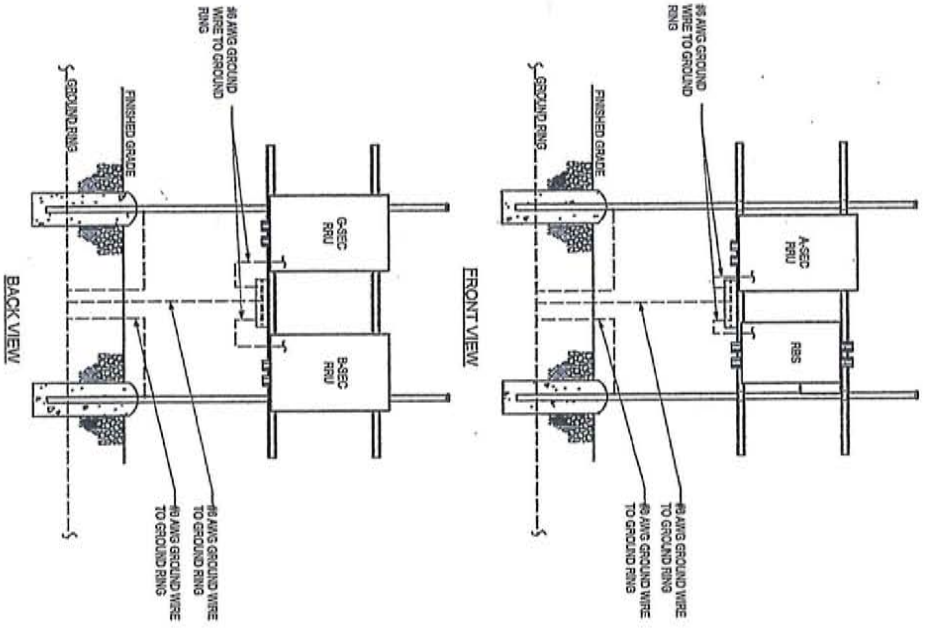
NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT		
2	ISSUED FOR CONSTRUCTION		
3	ISSUED FOR AS-BUILT		

DBS - CHIPPEWA FALLS SOUTH WT
CHIPPEWA FALLS, WISCONSIN 54129

COAX COLOR CODING

SHEET NUMBER
A-9

OUTDOOR RBS & RRU GROUNDING DETAIL 1 E-2



1. (1) SET OF #12 AWG. 6A DC WIRE TO POWER PLANT.

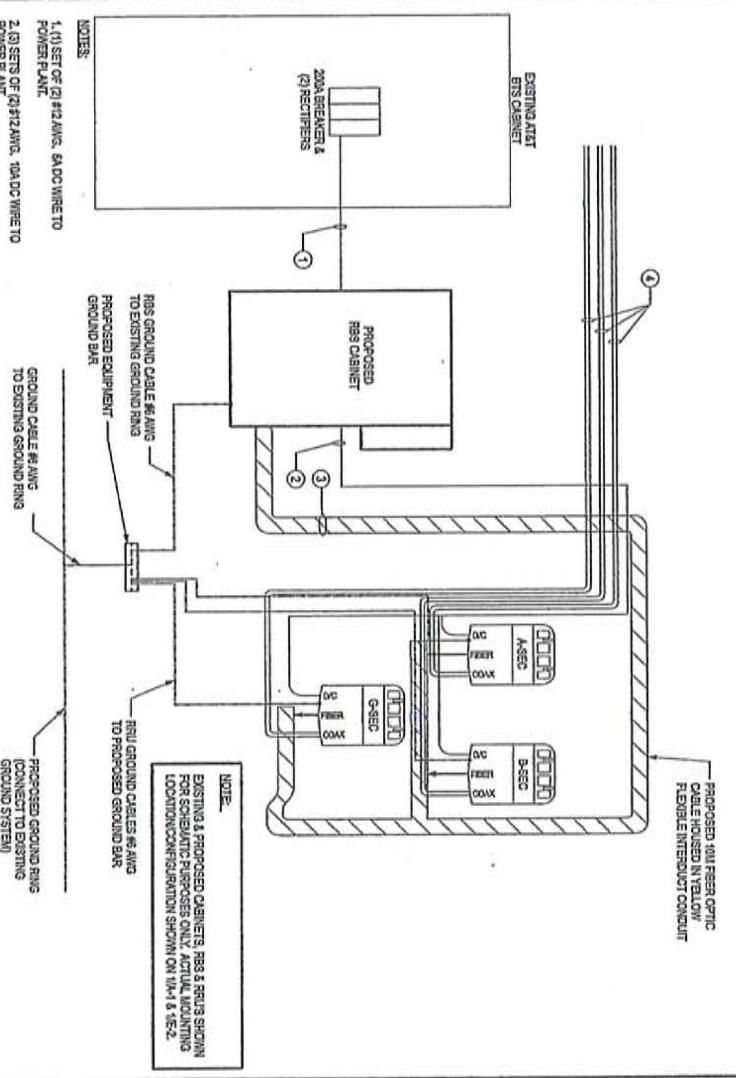
2. (3) SETS OF #12 AWG. 10A DC WIRE TO POWER PLANT.

3. RUN 10A FIBER OPTIC CABLE WITH YELLOW INTERDUCKET CABLE FINISHED & INSTALLED BY ERIGRESS. CONDUIT TO BE FURNISHED & INSTALLED BY CONTRACTOR.

4. (2) JUMPEES FROM EACH RRU TO TOWER.

*** ALL MATERIALS TO BE PROVIDED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

OUTDOOR RBS & RRU RISER DETAIL 2 E-2



- GENERAL NOTES:**
1. OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO AT&T.
 2. SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING JURISDICTION, CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTIONS.
 3. REMOVED AS-BUILTS ARE TO BE DELIVERED TO AT&T REPRESENTATIVE.
 4. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
 5. PUNCH AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, TELLER SYSTEM AND THE FOUNDATION SYSTEM AS SHOWN ON THESE DRAWINGS.
 6. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES INSTALLED IN A NEAT MANNER AND SHALL BE SUBJECT TO APPROVAL BY AT&T.
 7. CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS BEFORE THE START OF CONSTRUCTION OR DISCREPANCIES FOR CLARIFICATION REFER TO THE START OF CONSTRUCTION.
 8. PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION AND DAMAGED AREA.
 9. PROVIDE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY MANNER WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE OWNER OF THE PROPERTY. DEBRIS MUST BE DIVULGED TO THE OWNER OF THE PROPERTY. DEBRIS IS PROHIBITED.
 10. CONTRACTOR TO VERIFY AVAILABLE CAPACITY AT EXISTING UTILITY ELECTRICAL AND ABOVE ENGINEER OF SERVICE SIZE AND FAULT CURRENT LEVEL.
 11. IF PERESTAL DOES NOT HAVE ADEQUATE CAPACITY CONTRACTOR TO SUBMIT COST QUOTATION TO UPGRADE. UPON APPROVAL OF SUBMITTED COST QUOTATION, THE CONTRACTOR SHALL PROVIDE NEW SERVICE AND/OR UPGRADE SERVICE. FEESERS AND EQUIPMENT/ELECTRICAL GROUNDING CONDUCTORS SEE ACCORDINGLY.
 12. CONTRACTOR SHALL VERIFY SEPARATION DIMENSION BETWEEN POWER COMPANY ELECTRICAL CONDUITS AND P-GAS PIPES AS PER UTILITY COMPANY, LOCAL CODES, NEC, NFPA, AND GAS TANK MANUFACTURERS SPECIFICATION.
 13. CONTRACTOR SHALL VERIFY THAT THE TOTAL NUMBER OF SERVICE ENTRANCE OVERCURRENTS IN THE RISER ARE WITHIN THE CAPACITY OF THE OVERCURRENT DEVICE. IF THE UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION, THE RUNNING OF ANY ADDITIONAL EXCLUSIVE AND DEREGATED SERVICE LATERAL SET FOR THE NEW LOAD ADDED TO THE COMPOUND AS PER NEC ARTICLE 230-20B.
 14. THE EQUIPMENT/PROTECTIONS MUST BE RATED FOR STANDARD AC RATE HIGHER THAN INCLUDING EQUIPMENT AND/OR UTILITY COMPANY AC RATE.

<p>PROJECT NO: 17358 MW339 DMC LFT CDR: KAS LFW: JSS</p>		<p>PROJ. NO: 17358 MW339 DMC LFT CDR: KAS LFW: JSS</p>	
<p>DBS - CHIPPEWA FALLS SOUTH WT AT&T CENTER CHEPPEWA FALLS, WISCONSIN 54739</p>		<p>W14389</p>	
<p>SHEET NUMBER E-2</p>		<p>SHEET NUMBER E-2</p>	

7755.00

Dual Broadband Cross Polarized

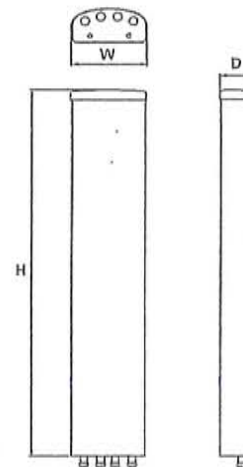
POLARIZATION: X-Pol
 FREQUENCY (MHz): 824-960, 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi/dBd): 17.3/15.2, 17.8/15.7
 TILT: MET*
 LENGTH: 2.6m (8'6")

ELECTRICAL SPECIFICATIONS*

	824-960		1710-1880	1710-2170	
	824-896	880-960		1850-1990	1900-2170
Frequency range (MHz)					
Frequency band (MHz)	824-896	880-960	1710-1880	1850-1990	1900-2170
Gain (dBi/dBd)	16.6/14.5	17.3/15.2	17.3/15.2	17.6/15.5	17.8/15.7
Polarization	Dual linear ±45°			Dual linear ±45°	
Nominal Impedance (Ω)	50			50	
VSWR	1.5:1			1.5:1	
Horizontal beam width, -3 dB (°)	71	67	65	65	62
Vertical beam width, -3 dB (°)	7.4	7	6.9	6.4	6.1
Electrical down tilt (°)	2 to 8			0 to 8	
Side lobe suppression, vertical 1st upper (dB)	>18,18,17,16,16@ 2,4,6,8*	>18,18,17,16,16@ 2,4,6,8*	>17,16,15,14,13@ 2,4,6,8*	>17,17,16,15,14@ 2,4,6,8*	>17,17,16,15,14@ 2,4,6,8*
Isolation between inputs (dB)	30		30	30	
Inter band Isolation (dB)	38				
Tracking, horizontal plane ±60° (dB)	<1.0		<1.5	<1	
First null fill (dB)	<-25		<-25	<-25	
Vertical beam squint (°)	0.5		0.5	0.5	
Front to back ratio (dB)	>30		>30	>30	
Front to back ratio, total power (dB)	>25		>25	>25	
Cross polar discrimination (XPD) 0° (dB)	16		16	16	
Cross polar discrimination (XPD) ±60° (dB)	>11		>6.3	>7.2	
Far field coupling	<0.3		<0.53	<0.58	
IM3, 2xTx@43dBm (dBc)	<-150			<-150	
IM7, 2xTx@43dBm (dBc)	-			<-160	
Power handling, average per input (W)	300			250	
Power handling, average total (W)	600			600	

MECHANICAL SPECIFICATIONS*

Connector	4 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	2658x280x125mm (8'8"x11"x4")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	25.1 (55)
Weight, without brackets, kg (lbs)	19.6 (43)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	880
Maximum operational wind speed, m/s (mph)	42 (93)
Survival wind speed, m/s (mph)	55 (123)
Lightning protection	DC grounded
Operating Temperature	
Radome material	GRP
Packet size, HxWxD, mm (ft)	2800x355x255 (9'2"x1'2"x10")
Radome colour	Light Grey
Shipping weight, kg (lbs)	32.5 (71.6)
RET	8210.40, 8210.10, 8220.40, 8220.10
Brackets	7256.00, 7454.00, 2210.10



*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpal>.

7755.00**Dual Broadband Cross Polarized**

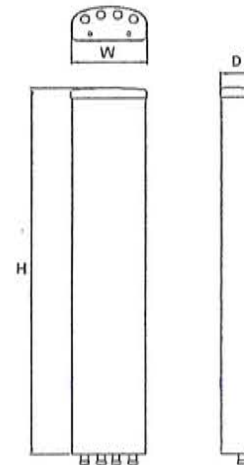
POLARIZATION: X-Pol
 FREQUENCY (MHz): 824-960, 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi/dBd): 17.3/15.2, 17.8/15.7
 TILT: MET
 LENGTH: 2.6m (8'6")

ELECTRICAL SPECIFICATIONS*

	824-960		1710-1880	1710-2170	
	824-896	880-960		1850-1990	1900-2170
Frequency range (MHz)	824-960			1710-2170	
Frequency band (MHz)	824-896	880-960	1710-1880	1850-1990	1900-2170
Gain (dBi/dBd)	16.6/14.5	17.3/15.2	17.3/15.2	17.6/15.5	17.8/15.7
Polarization	Dual linear ±45°			Dual linear ±45°	
Nominal Impedance (Ω)	50			50	
VSWR	1.5:1			1.5:1	
Horizontal beam width, -3 dB (°)	71	67	65	65	62
Vertical beam width, -3 dB (°)	7.4	7	6.9	6.4	6.1
Electrical down tilt (°)	2 to 8			0 to 8	
Side lobe suppression, vertical 1st upper (dB)	>18,18,17,16,16@ 2,4,6,8*	>18,18,17,16,16@ 2,4,6,8*	>17,16,15,14,13@ 2,4,6,8*	>17,17,16,15,14@ 2,4,6,8*	>17,17,16,15,14@ 2,4,6,8*
Isolation between inputs (dB)	30	30	30	30	30
Inter band Isolation (dB)	38				
Tracking, horizontal plane ±60° (dB)	<1.0	<1.0	<1.5	<1	<3.5
First null fill (dB)	<-25	<-25	<-25	<-25	<-25
Vertical beam squint (°)	0.5	0.5	0.5	0.5	0.5
Front to back ratio (dB)	>30	>30	>30	>30	>30
Front to back ratio, total power (dB)	>25	>25	>25	>25	>25
Cross polar discrimination (XPD) 0° (dB)	16	14	16	16	16
Cross polar discrimination (XPD) ±60° (dB)	>11	> 9.5	> 6.3	>7.2	>7.5
Far field coupling	<0.3	<0.41	<0.53	<0.58	<0.58
IM3, 2xTx@43dBm (dBc)	<-150			<-150	
IM7, 2xTx@43dBm (dBc)	-			<-160	
Power handling, average per input (W)	300			250	
Power handling, average total (W)	600			600	

MECHANICAL SPECIFICATIONS*

Connector	4 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	2658x280x125mm (8'8"x11"x4")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	25.1 (55)
Weight, without brackets, kg (lbs)	19.6 (43)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	880
Maximum operational wind speed, m/s (mph)	42 (93)
Survival wind speed, m/s (mph)	55 (123)
Lightning protection	DC grounded
Operating Temperature	
Radome material	GRP
Packet size, HxWxD, mm (ft)	2800x355x255 (9'2"x1'2"x10")
Radome colour	Light Grey
Shipping weight, kg (lbs)	32.5 (71.6)
RET	8210.40, 8210.10, 8220.40, 8220.10
Brackets	7256.00, 7454.00, 2210.10



*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.

Market: North Central - IL/WI
Cell Site Number: WI4389
Cell Site Name: Chippewa Falls South WT
Fixed Asset Number: 10123980

FIRST AMENDMENT TO WATER TOWER AND BUILDING SPACE LEASE AGREEMENT

THIS FIRST AMENDMENT TO WATER TOWER AND BUILDING SPACE LEASE AGREEMENT ("Amendment"), dated as of the latter of the signature dates below, is by and between the City of Chippewa Falls Department of Public Utilities, having a mailing address of 30 West Central Street, Chippewa Falls, WI 54729 (hereinafter referred to as "Landlord") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as successor in interest to American Cellular Corporation, having a mailing address of 12555 Cingular Way, Suite 1300, Alpharetta, GA 30004 (hereinafter referred to as "Tenant").

WHEREAS, Landlord and Tenant's predecessor in interest entered into a Water Tower and Building Space Lease Agreement dated October 13, 2004, whereby Landlord leased to Tenant certain Premises, therein described, that are a portion of the Property located at 631 Chippewa Street, Chippewa Falls, State of Wisconsin ("Agreement"); and

WHEREAS, Landlord and Tenant desire to amend the rent in Agreement; and

WHEREAS, Landlord and Tenant desire to amend the ground space and antennas; and

WHEREAS, Landlord and Tenant desire to amend the Agreement to modify the notice section thereof; and

WHEREAS, Landlord and Tenant desire to amend the Agreement to permit Tenant to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including but not limited to emergency 911 communication services; and

WHEREAS, Landlord and Tenant, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Landlord and Tenant agree as follows:

1. **Rent.** Upon completion of the installation of the Additional Equipment (as defined below) on the Premises by Tenant, the existing monthly rent shall increase by Three Hundred and No/100 Dollars (\$300.00).

2. **Tower Space and Equipment.** In addition to the other antennas permitted in the Agreement, Landlord consents to the installation and operation of additional antennas, associated cables and equipment as more completely described on Exhibit B-1 attached hereto and by this reference made a part hereof (the "Additional Equipment"). Landlord's execution of this Amendment will signify Landlord's approval of Exhibit B-1. Exhibit B-1 hereby replaces Exhibit B to the Agreement.

3. **Notices.** The notice information erroneously included in Paragraph 21 of the Agreement is hereby deleted in its entirety. Further, Paragraph 20 of the Agreement is hereby deleted in its entirety and replaced with the following:

NOTICES. All notices, requests, demands and communications hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows:

As to Tenant:

New Cingular Wireless PCS, LLC

Attn: Network Real Estate Administration

Re: Cell Site #: WI 4389; Cell Site Name: Chippewa Falls South (WI)

Fixed Asset No: 10123980

12555 Cingular Way, Suite 1300

Alpharetta, GA 30004

With a copy to:

New Cingular Wireless PCS, LLC

Attn: Legal Department

Re: Cell Site #: WI 4389; Cell Site Name: Chippewa Falls South (WI)

Fixed Asset No: 10123980

15 East Midland Avenue

Paramus, NJ 07652

As to Landlord:

City of Chippewa Falls Department of Public Utilities

30 West Central Street

Chippewa Falls, WI 54729

Either party hereto may change the place for the giving of notice to it by thirty (30) days prior written notice to the other as provided herein.

4. **Emergency 911 Service.** In the future, without the payment of additional rent and at a location mutually acceptable to Landlord and Tenant, Landlord agrees that Tenant may add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including but not limited to emergency 911 communication services.

5. **Memorandum of Lease.** Either party will, at any time upon fifteen (15) days prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease substantially in the form of the Attachment 1. Either party may record this memorandum at any time, in its absolute discretion.

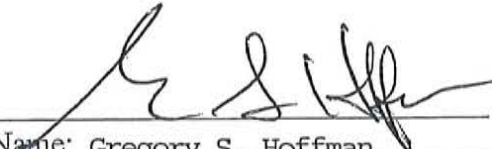
6. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Amendment, the terms of this Amendment shall control. Except as expressly set forth in this Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Amendment.

7. **Capitalized Terms.** All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

IN WITNESS WHEREOF, the parties have caused their properly authorized representatives to execute and seal this Amendment on the dates set forth below.

LANDLORD


City of Chippewa Falls Department of
Public Utilities

By: 
Print Name: Gregory S. Hoffman
Its: Mayor
Date: 9/8/10

TENANT

New Cingular Wireless PCS, LLC
A Delaware limited liability company

By: AT&T Mobility Corporation
Its: Manager

By: 
Name: Scott A. Root
Title: Manager of Network Implementations,
IL/WI
Date: 9-30-10

[ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGE]

Exhibit B-1

A final configuration as follows:

- (6) P65-17-XLH-RR antennas
- (12) NK 7/8" & AVA 7/8" coax feedline
- (12) KRY112 75/1 TMAs
- (1) Homerun Cable
- (1) Additional outdoor cabinet

All as further described on the attached drawings

ATTACHMENT 1

MEMORANDUM OF LEASE

Prepared by and

Return to:

New Cingular Wireless PCS, LLC
Attn: Network Real Estate Administration
12555 Cingular Way, Suite 1300
Alpharetta, GA 30004

Re: Cell Site # WI4389; Cell Site Name: Chippewa Falls South
Fixed Asset Number: 10123980
State: Wisconsin
County: Chippewa

MEMORANDUM
OF
LEASE

This Memorandum of Lease is entered into on this 8th day of September, 2010, by and between the City of Chippewa Falls Department of Public Utilities, having a mailing address of 30 West Central Street, Chippewa Falls, WI 54729 ("**Landlord**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, successor in interest to American Cellular Corporation, having a mailing address of 12555 Cingular Way, Suite 1300, Alpharetta GA 30004 ("**Tenant**").


1. Landlord and Tenant's predecessor in interest entered into a certain Water Tower and Building Space Lease Agreement dated October 13, 2004, as amended by that certain First Amendment to Water Tower and Building Space Lease Agreement (collectively, the "**Agreement**") for the purpose of installing, operating and maintaining a communications facility and other improvements. All of the foregoing are set forth in the Agreement.
2. The initial lease term will be five (5) years ("**Initial Term**") commencing on the effective date of the Agreement, with five (5) successive five (5) year options to renew.

3. The portion of the land being leased to Tenant (the "Premises") is described in **Exhibit 1** annexed hereto.
4. This Memorandum of Lease is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed. In the event of a conflict between the provisions of this Memorandum of Lease and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

IN WITNESS WHEREOF, the parties have executed this Memorandum of Lease as of the day and year first above written.

"LANDLORD"


City of Chippewa Falls Department of Public Utilities

By: 
Print Name: Gregory S. Hoffman
Its: Mayor
Date: 9-8-10

"TENANT"

New Cingular Wireless PCS, LLC,
a Delaware limited liability company

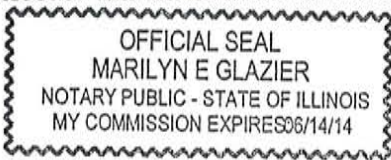
By: AT&T Mobility Corporation
Its: Manager

By: 
Print Name: SCOTT A ROOT
Its: Real Estate & Construction Manager
Date: 9-30-10

TENANT ACKNOWLEDGEMENT

STATE OF ILLINOIS)
) ss:
COUNTY OF COOK)

On the 30TH day of SEPT, 2010, before me personally appeared SCOTT A. ROOPE, and acknowledged under oath that he is the REAL ESTATE CONSTRUCTION MANAGER of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.



Marilyn E. Glazier
Notary Public: MARILYN E. GLAZIER
My Commission Expires: 6-14-2014

LANDLORD ACKNOWLEDGEMENT

STATE OF Wisconsin)
) ss:
COUNTY OF Chippewa)

I CERTIFY that on September 8, 2010, Gregory S Hoffman [name of representative] personally came before me and acknowledged under oath that he or she:

- (a) is the Mayor [title] of the City of Chippewa Falls Department of Public Utilities, the municipal corporation named in the attached instrument,
- (b) was authorized to execute this instrument on behalf of the corporation and
- (c) executed the instrument as the act of the corporation.

Nancy J. Flynn
Notary Public: Nancy J. Flynn
My Commission Expires: 06-19-2011

EXHIBIT 1

DESCRIPTION OF PREMISES

Page ____ of ____

to the Memorandum of Lease dated 9/08, 2010, by and between City of Chippewa Falls Department of Public Utilities, as Landlord, and New Cingular Wireless PCS LLC, a Delaware liability company, as Tenant.

The Premises are described and/or depicted as follows:

SW ¼ of Section 8, T28N, R8W
State of Wisconsin
County of Chippewa
Latitude: 44-55-11.48
Longitude: 91-23-12.29

CHIPPEWA CO. CERTIFIED SURVEY
MAP No. _____

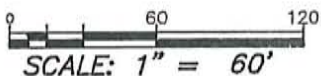
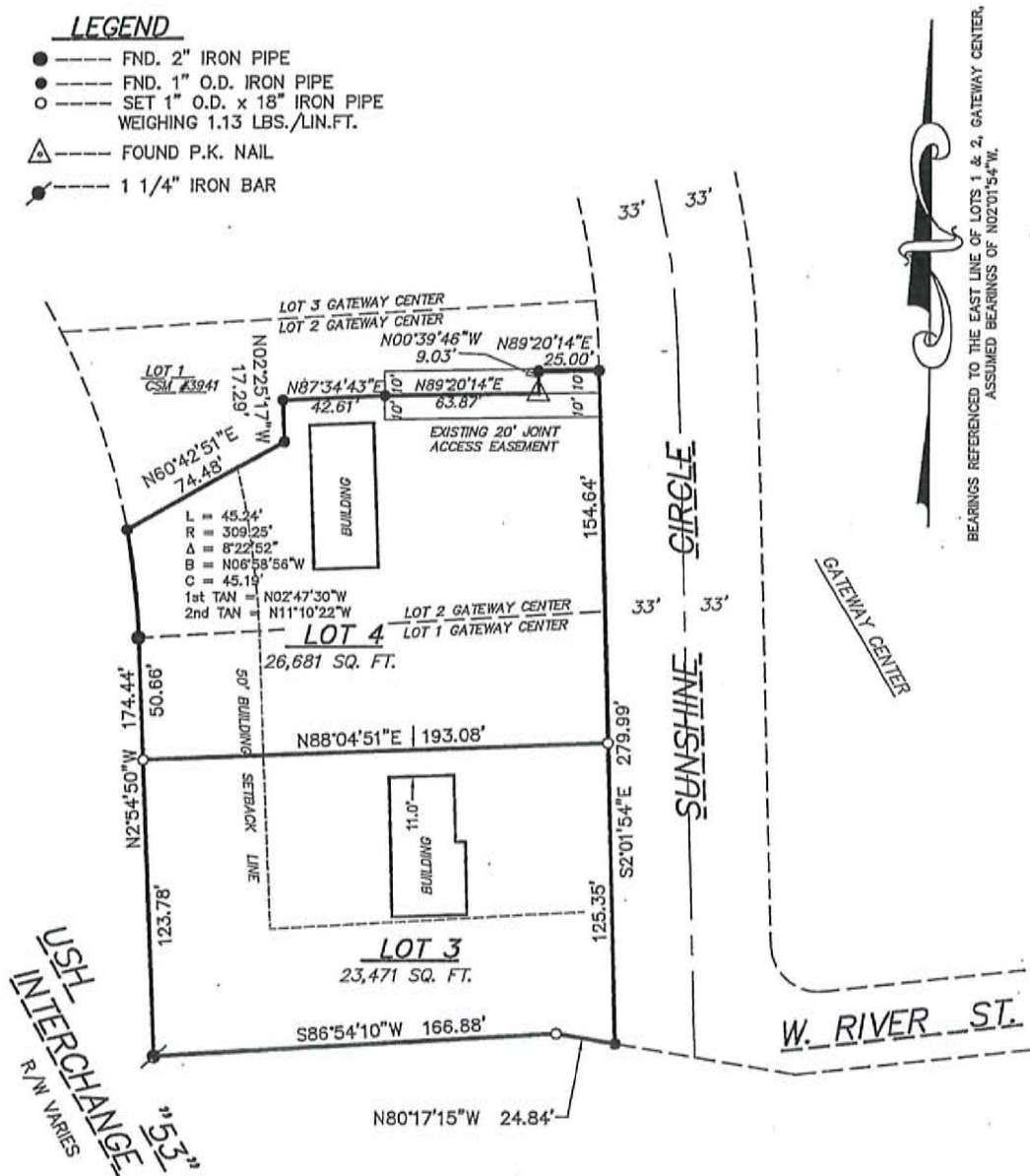
RECORDED IN VOL. _____ OF CERTIFIED SURVEY MAPS PAGE _____

REGISTER

BEING PART OF LOTS 1 AND 2, GATEWAY CENTER ALSO LOT 2 CERTIFIED
 SURVEY MAP #3941, VOLUME 18, PAGES 50-51
 IN THE GOVERNMENT LOT 4
 SECTION 12, T28N, R9W,
 CITY OF CHIPPEWA FALLS, CHIPPEWA COUNTY, WISCONSIN

LEGEND

- --- FND. 2" IRON PIPE
- --- FND. 1" O.D. IRON PIPE
- --- SET 1" O.D. x 18" IRON PIPE
WEIGHING 1.13 LBS./LIN.FT.
- △ --- FOUND P.K. NAIL
- --- 1 1/4" IRON BAR



REAL LAND SURVEYING
 635 FAIRFAX ST.
 ALTOONA, WI 54720
 (715) 514-4115
 CADD No. 13144

**CHIPPEWA CO. CERTIFIED SURVEY
MAP NO. _____**

RECORDED IN VOL. ____ OF CERTIFIED SURVEY MAPS PAGE ____

REGISTER

BEING PART OF LOTS 1 AND 2, GATEWAY CENTER,
ALSO LOT 2, CERTIFIED SURVEY MAP #3941, VOLUME
18, PAGES 50-51
LOCATED IN GOVERNMENT LOT 4
SECTION 12, T28N, R9W,
CITY OF CHIPPEWA FALLS, CHIPPEWA COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE:

I, PETER J. GARTMANN, REGISTERED LAND SURVEYOR, HEREBY CERTIFY:
THAT BY THE DIRECTION OF JOHN SCHEPPKE, I HAVE SURVEYED, DIVIDED AND MAPPED THE LAND
PARCEL WHICH IS REPRESENTED BY THIS CERTIFIED SURVEY MAP.
THAT THE EXTERIOR BOUNDARY OF THE LAND PARCEL SURVEYED AND MAPPED IS AS
FOLLOWS: BEING PART OF LOTS 1 AND LOT 2, GATEWAY CENTER, ALSO LOT 2 CERTIFIED
SURVEY MAP #3941, VOLUME 18, PAGES 50-51,
LOCATED IN GOVERNMENT LOT 4, SECTION 12, T28N, R9W, CITY OF CHIPPEWA FALLS,
CHIPPEWA COUNTY, WISCONSIN AND BEING MORE PARTICULARLY DESCRIBED AS
FOLLOWS:

BEGINNING AT THE SW CORNER OF SAID LOT 1, GATEWAY CENTER; THENCE N.2°54'50"W. ALONG THE
WEST LINE OF GATEWAY CENTER A DISTANCE OF 174.44 FEET; THENCE 45.24 FEET ALONG THE ARC OF A
CURVE CONCAVE WESTERLY HAVING A RADIUS OF 309.25 FEET AND A CHORD BEARING AND DISTANCE OF
N.06°58'56"W. 45.19 FEET TO THE NE CORNER OF SAID LOT 2, CSM #3941;
THENCE N.60°42'51"E. ALONG THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 74.48 FEET;
THENCE N02°25'17"W 17.29 FEET; THENCE N87°34'43"E 42.61 FEET; THENCE N89°20'14"E 63.87 FEET;
THENCE N00°39'46"W 9.03 FEET; THENCE N889°20'14"E, ALONG THE NORTH LINE OF SAID LOT 2 25.00 FEET TO
THE WEST RIGHT OF WAY LINE OF SUNSHINE CIRCLE; THENCE S02°01'54"E 279.99 FEET TO THE INTERSECTION
WITH USH "53"; THENCE N80°54'10"W ALONG THE SOUTH LINE OF GATEWAY CENTER 24.84 FEET; THENCE
S86°54'10"W ALONG SAID SOUTH LINE OF GATEWAY CENTER A DISTANCE OF 166.88 FEET TO THE POINT OF
BEGINNING. BEING SUBJECT TO ALL EASEMENT, RESTRICTIONS AND COVENANTS OF THE PLAT OF GATEWAY
CENTER.

THAT THIS CERTIFIED SURVEY MAP IS A CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARY
SURVEYED AND DESCRIBED, AND THE SUBDIVISION THEREOF.

THAT I HAVE FULLY COMPLIED WITH THE PROVISIONS OF CHAPTER 236 OF THE WISCONSIN
STATUTES AND THE SUBDIVISION REGULATIONS OF THE CITY OF CHIPPEWA FALLS AND CHAPTER 38, LAND
DIVISION ORDINANCE OF THE GENERAL CODE OF CHIPPEWA COUNTY, WISCONSIN IN SURVEYING AND
MAPPING THE SAME.

_____ DATED THIS _____ DAY OF _____, 2013
PETER J. GARTMANN, R.L.S. 2279

CITY COUNCIL RESOLUTION

RESOLVED, THAT THIS CERTIFIED SURVEY MAP IN THE CITY OF CHIPPEWA FALLS, JOHN SCHEPPKE, OWNER,
IS HEREBY APPROVED BY THE CITY COUNCIL.

MAYOR

DATE

I HEREBY CERTIFY THAT THE FOREGOING IS A COPY OF A RESOLUTION ADOPTED BY THE CITY COUNCIL OF
THE CITY OF CHIPPEWA FALLS

CITY CLERK

DATE

CHIPPEWA CO. CERTIFIED SURVEY
MAP No. _____

RECORDED IN VOL. _____ OF CERTIFIED SURVEY MAPS PAGE _____

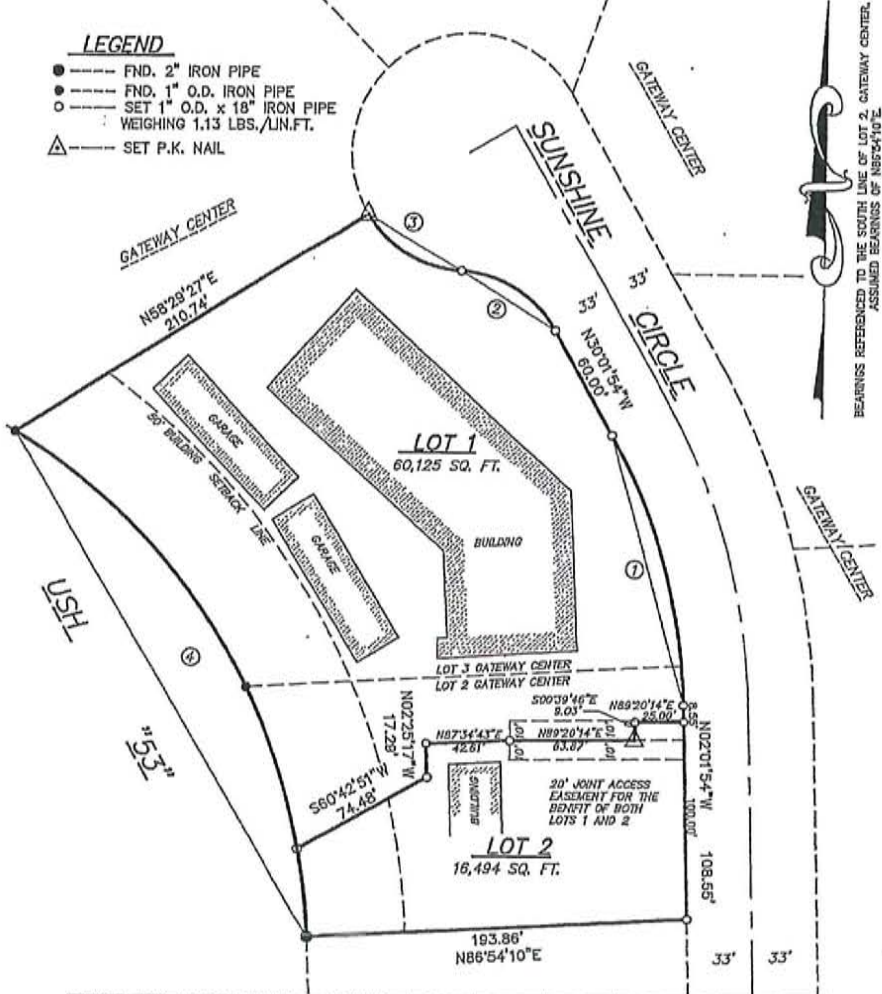
REGISTER _____

**IN THE GOVERNMENT LOT 4
 BEING LOTS 2 AND 3, GATEWAY CENTER
 SECTION 12, T28N, R10W,
 CITY OF CHIPPEWA FALLS, CHIPPEWA COUNTY, WISCONSIN**

*Previously
 Approved*

LEGEND

- --- FND. 2" IRON PIPE
- --- FND. 1" O.D. IRON PIPE
- --- SET 1" O.D. x 18" IRON PIPE
- --- WEIGHING 1.13 LBS./LIN.FT.
- △ --- SET P.K. NAIL



BEARINGS REFERENCED TO THE SOUTH LINE OF LOT 2, GATEWAY CENTER, ASSUMED BEARINGS OF N86°54'10"E

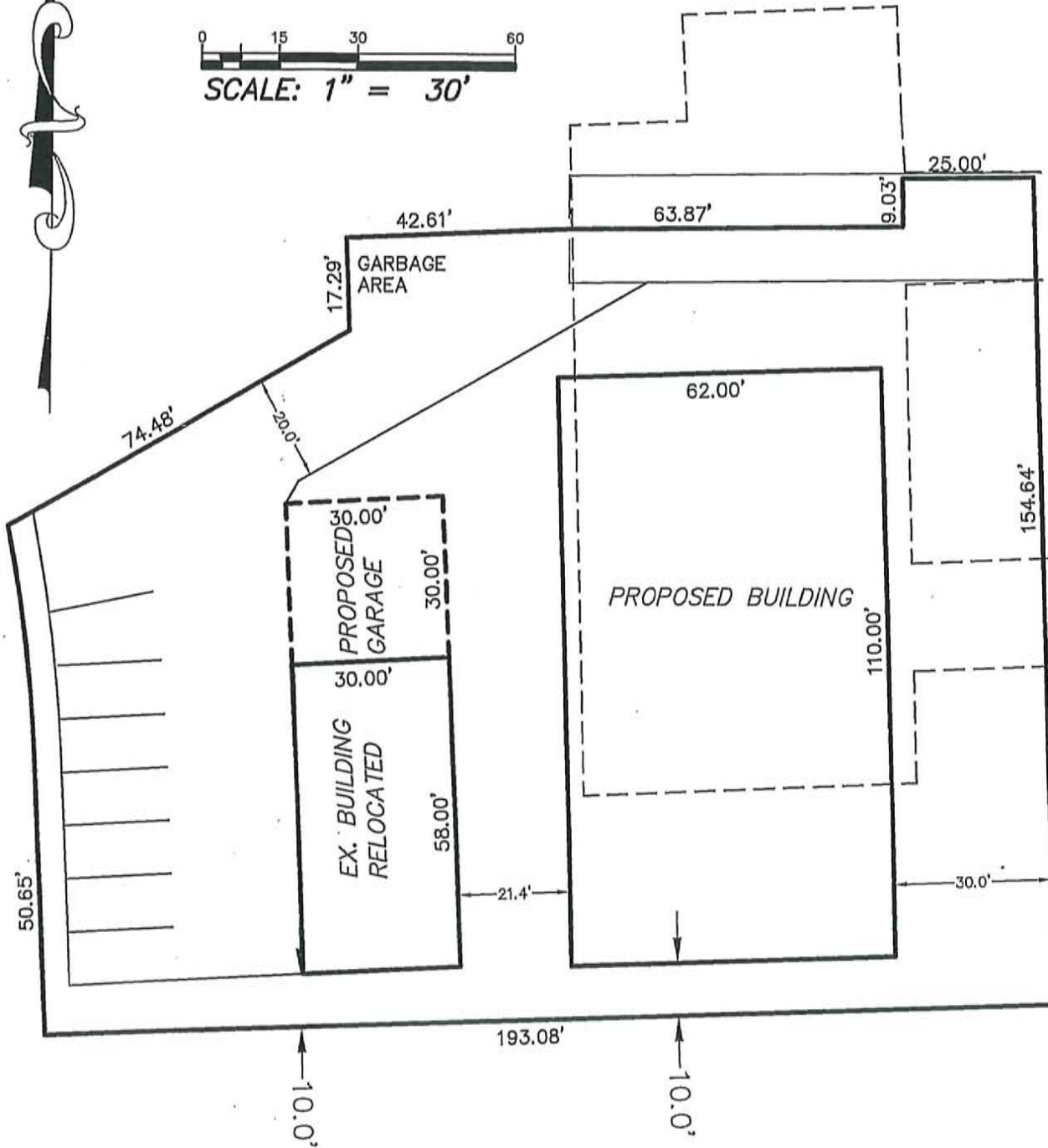
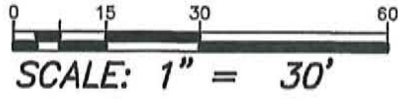
CURVE	LOT	LENGTH	RADIUS	BEARING	CHORD	DELTA	TANGENT	1ST TANGENT	2ND TANGENT
1		143.68'	294.00'	N16°01'54"W	142.25'	28°00'00"	73.30'	N02°01'54"W	N30°01'54"W
2		59.33'	60.00'	N58°21'28"W	56.94'	58°39'12"	32.34'	N30°01'54"W	N86°41'06"W
3		57.59'	60.00'	S59°11'19"E	55.40'	54°59'35"	31.23'	N86°41'06"W	N31°41'31"W
4		311.76'	315.04'	N31°15'50"W	299.20'	58°42'00"	169.99'	N59°36'50"W	N02°54'50"W
	1	286.54'	315.04'	N35°22'34"W	259.66'	48°28'32"	141.83'		
	2	45.22'	315.04'	N07°01'34"W	45.18'	8°13'28"	22.65'		

0 60 120
 SCALE: 1" = 60'

REAL LAND SURVEYING
 635 FAIRFAX ST.
 ALTOONA, WI 54720
 (715) 814-4116
 CADS No. 12005

SHEET 1 OF 2
 PAGE _____

SITE PLAN



9158 SQ. FT. EXISTING IMPERVIOUS
 16,650 SQ. FT. PROPOSED IMPERVIOUS

SUNSHINE ——— CIRCLE

Date Filed: 9-3-13

Fee Paid: 25.00 Date: 9-3-13 TR # 40451

Fee Paid: _____ Date: _____ TR# _____

PETITION FOR REZONING

TO THE CITY OF CHIPPEWA FALLS, WISCONSIN:

I/We, the undersigned, hereby petition the Common Council of the City of Chippewa Falls, WI., for a rezoning authorized by the Chippewa Falls Zoning Code, Section 17.46, for the following described property:

Address of Property: LOT 11

Lot: 11 Block 1 Subdivision REPLAT OF ZIELLE ADDITION Parcel # _____

or Legal Description: _____

Present zoning classification of property: R-1C Single Family

Zoning classification requested: R-2 Two Family

Name & Address of Petitioner:

MARK MUELLER
5734 139th ST
CHIPPEWA FALLS, WISC. 54729

Home/Business Address:

SAME

Phone Number: (715) 514.9507

Lot number of any real estate owned by the petitioner adjacent to the area proposed to be changed: N/A

Existing use of all buildings on such land: N/A

Principal use of all properties within 300 feet of such land: RESIDENTIAL / VACANT

Purpose for which such property is to be used: RENTAL

Recite any facts indicating that the proposed change will not be detrimental to the general public's interest and the purposes of this Chapter:

PROPOSED DUPLEX WOULD COMPLIMENT THE AREA (SEE ATTACHED PHOTOS).
PROPOSED DUPLEX WOULD ADD \$200,000+ TO TAX BASE.
PROPOSED DUPLEX WOULD NOT INCREASE ~~TRAFFIC~~ FLOW SIGNIFICANTLY
TRAFFIC
PROPOSED DUPLEX WOULD BE MANAGED BY ACTIVE OWNER.

Attach a plot plan or survey plat, drawn to scale, showing the property to be rezoned, location of structures, and property lines within 300 feet of the property to be altered. Attached _____.

SEE ATTACHED.


Add any further information requested on the petition or which may be required by the Common Council to facilitate the making of a comprehensive report to the Council:


THIS PROPERTY IS LOCATED AT THE END OF ALEXANDER ST. A CITY STREET
THAT IS IN GOOD SHAPE. NO WORK WOULD BE NEEDED TO ACCOMMODATE
THIS DUPLEX.

IN ORDER FOR THIS PETITION TO BE CONSIDERED, THE OWNER (S) OF THE PROPERTY MUST SIGN BELOW:

Owners/Addresses

Petitioners/Addresses

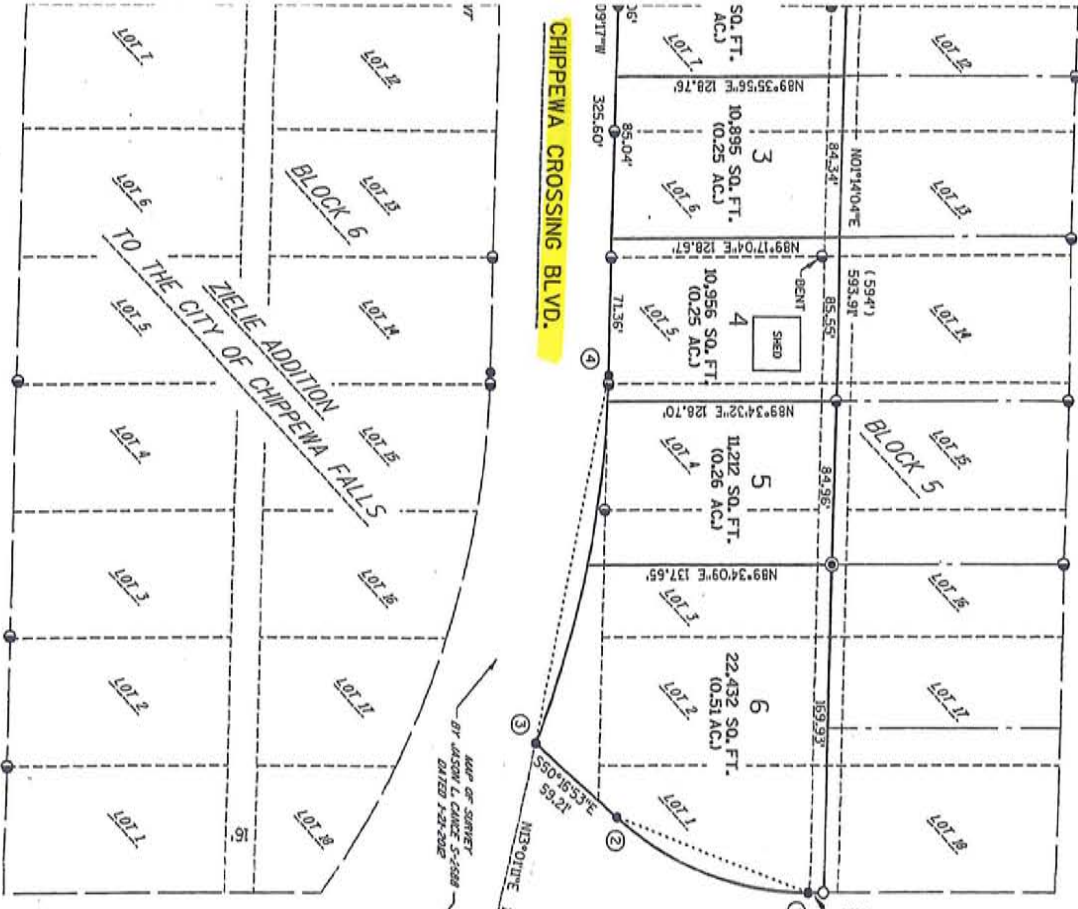
MARK MUELLER 
5734 189TH ST
CHAMPLAIN FALLS, WIS

BARBARA G. MUELLER / 
5734 189TH ST
CHAMPLAIN FALLS, WIS

THE ADDITION
CITY OF CHIPPEWA FALLS

OF DISCONTINUED ALLEY, BLOCK 5, PART OF DISCONTINUED MARILYN STREET, LOTS 6, 7, 8, 10, 11, PART OF DISCONTINUED ALLEY, BLOCK 1, ALL IN ZIELE FALLS, VOLUME 3-A, PAGE 101, LOCATED IN THE SOUTHWEST 1/4 OF THE 8TH, RANGE 8 WEST, CITY OF CHIPPEWA FALLS, CHIPPEWA COUNTY, WISCONSIN.

VERONICA STREET



ALEXANDER STREET
(UNIMPROVED)

SIXTEENTH LINE

CURVE DATA TABLE

CURVE	LOT	RADIUS	CENTRAL ANGLE	LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT FOREWARD	TANGENT BACK
1-2	167.00'	40°09'35"	117.05'	S70°21'40"E	114.67'	S50°16'53"E	S89°33'33"E	
3-4	533.00'	21°05'57"	196.28'	S11°42'16"W	193.11'	S01°09'17"W	S22°15'14"W	
4	533.00'	01°27'24"	13.55'	S01°52'59"W	13.55'	S02°36'41"W	S11°50'02"W	
5	533.00'	09°13'21"	85.79'	S07°13'22"W	85.70'	S02°36'41"W	S11°50'02"W	
6	533.00'	10°25'12"	96.93'	S17°02'38"W	96.80'	S11°50'02"W	S22°15'14"W	
5-6	467.00'	22°22'01"	182.93'	S47°35'48"W	181.14'	S27°48'48"W	S24°52'48"W	

816336
RECORDED ON
12/06/2012
NANCY L. GENSER
REGISTERED DEEDS
CHIPPEWA FALLS, WI
PAGES: 2



SCALE
50
100

LEGEND

- GOVERNMENT CORNER (AS NOTED)
 - SET 1 1/4" X 16" IRON REBAR,
 - WEIGHING 4.13 LBS./LIN. FT.
 - FOUND 3/4" O.D. REBAR
 - FOUND 2" O.D. IRON PIPE
 - FOUND 1" O.D. IRON PIPE
 - RECORDED AS
- ALL OTHER LOT, AND OUTLOT CORNERS,
ARE SET 3/4" X 18" IRON REBAR
WEIGHING 1.502 LBS./LIN. FT.

PROPERTY OWNER AND SUBOWNER:
CITY OF CHIPPEWA FALLS
DEED REFERENCE: 2012-000001
30 N. CENTRAL ST.
CHIPPEWA FALLS, WI 54729
(715) 720-2718
AND
PATRICIA H. HANNAK
SUBOWNER
CHIPPEWA FALLS, WI 54729

LAND SURVEYOR:
JASON L. CANZE, RLS #268
DEPARTMENT OF PUBLIC WORKS
30 N. CENTRAL ST.
CHIPPEWA FALLS, WI 54729
(715) 720-6200

There are no objections to this plat with respect to

CHIPPEWA CROSSING BLVD.

VARIABLE



