

**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

**MINUTES OF THE PLAN COMMISSION MEETING
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MONDAY, July 8, 2013**

The Plan Commission met in City Hall on Monday, July 8, 2013 at 7:30 P.M. Present were Commissioners Peter Pohl, Dan Varga, Beth Arneberg, Jerry Smith, Dave Cihasky, Vice-Chairperson Tom Hubbard and Mayor Greg Hoffman. Absent were Commissioner Jeff Labs, Mike Tzanakis, Alderman Chuck Hull, and Secretary Rick Rubenzer. Also in attendance were Scott Kauphusman, Machine Tool Camp, Matt Decur, Assistant City Engineer, and Jayson Smith, City Planner.

1. **Motion** by Smith, seconded by Hubbard to approve the minutes of the June 17, 2013 Plan Commission meeting. **All present voting aye. Motion carried.**

2. The Plan Commission considered the attached Special Use Permit petition from Scott Kauphusman, Machine Tool Camp. Jayson Smith introduced Mr. Kauphusman and briefed the Commission on Mr. Kauphusman's request to locate his light manufacturing business in the building located at 128 W. River Street. Mr. Kauphusman reviewed a printed power point that summarized his intent to renovate the building with new windows and entrances, cleaning, and move his business from Riverside Industrial Park into the renovated building providing need space for company growth.
Motion by Cihasky, seconded by Smith to recommend that the Common Council schedule a Public Hearing for the Special Use Permit to operate a light industrial business at 128 W. River Street contingent on:
 - 1) receipt of the \$300 legal advertising fee and proper notification of adjacent property owners.**All present voting aye. Motion carried.**

3. **Motion** by Hubbard, seconded by Varga to adjourn. **All present voting aye. Motion carried.** The Plan Commission adjourned at 8:33 P.M.


Jayson Smith, Acting Secretary
Plan Commission

Date Filed: 7-18-13

Fee Paid: 25.00 Date: 7-18-13 TR# 40031

Fee Paid: 300.00 Date: 7-18-13 TR# 40031

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: 24 SUNSHINE CIRCLE

Lot: 2 Block _____ Subdivision Gateway Subdivision Parcel # 1703.02

or Legal Description: _____

Present zoning classification of property: C-4 Hwy Commercial

Zoning classification requested: R3-A

Name & Address of Petitioner:

JOHN P. Schoppke
440 BROADWAY ST
FAU CLINE, WI 54703

Home/Business Address:

Schoppke Real Estate
440 BRIMWAY STREET
EVA CURTIS, LOT 51703

Phone Number: (715) 883-9625 Cell - 715 577-6384

Lot number of any real estate owned by the petitioner adjacent to the area proposed to be changed: LOT 1 AND LOT 3 SUNSHINE CIRCLE

Existing use of all buildings on such land: LOT 1 - Hwy Commercial - Office
LOT 3 - R3A - Apartment Building

Principal use of all properties within 300 feet of such land: MOSTLY APARTMENTS
A FEW SINGLE FAMILY 1-OFFICE, HWY 52 AND
VACANT LAND

Purpose for which such property is to be used: 16 UNIT APARTMENT BUILDING
ALL UPSCALE 1 Bedroom UNITS

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

LOW TRAFFIC AND USERS IN UPSCALE 1 Bedroom
UNITS - ALL PARKING IS IN THE REAR

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:

WE PROPOSE PLANTING TREES BOTH PINE AND NUTMEG'S
ALONG SUNSHINE URLE IN FRONT OF THE ENTIRE PROPERTY

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

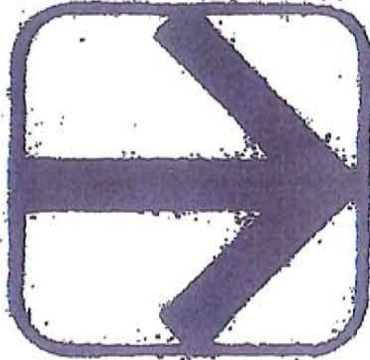
Owners/Addresses

Joe P. Schube
440 BROADWAY ST
EAU CLAIRE, WI 54703

Petitioners/Addresses

440 BROADWAY ST
EAU CLAIRE WI 54703

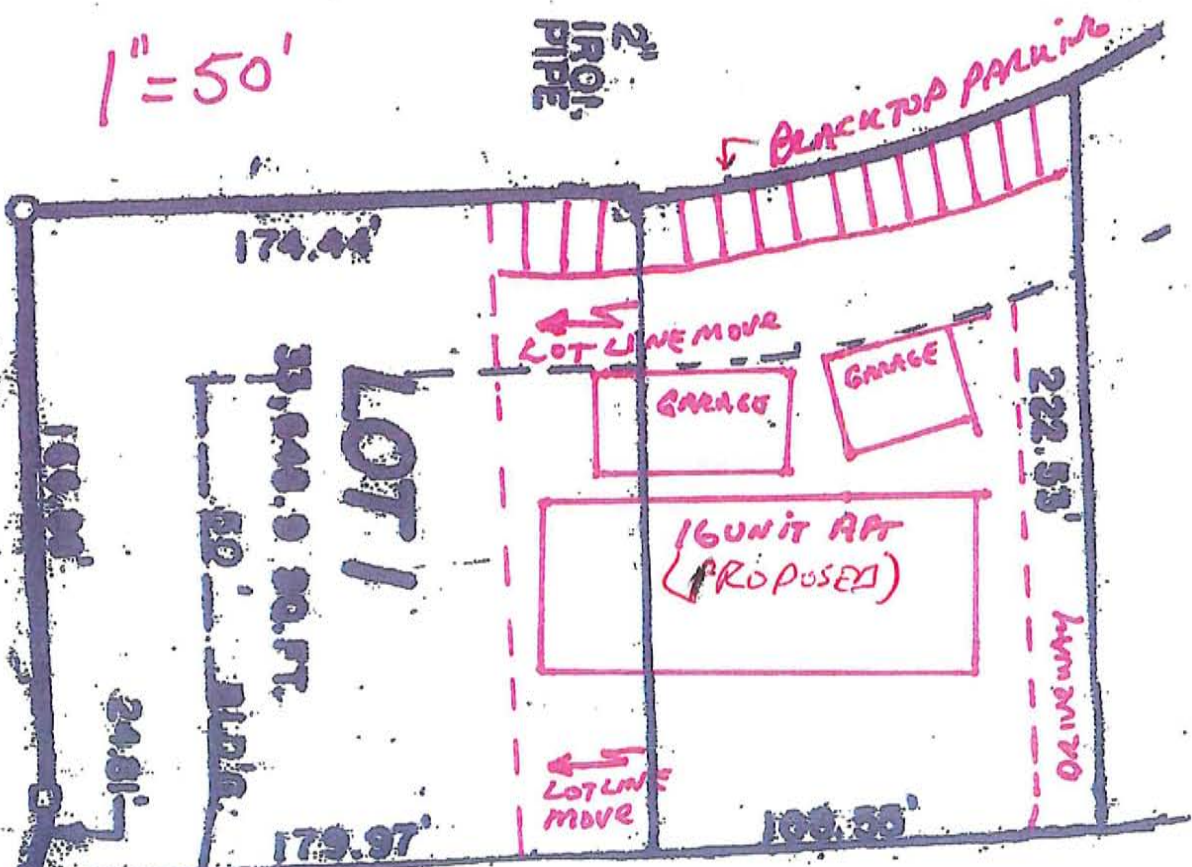
NORTH



1" = 50'

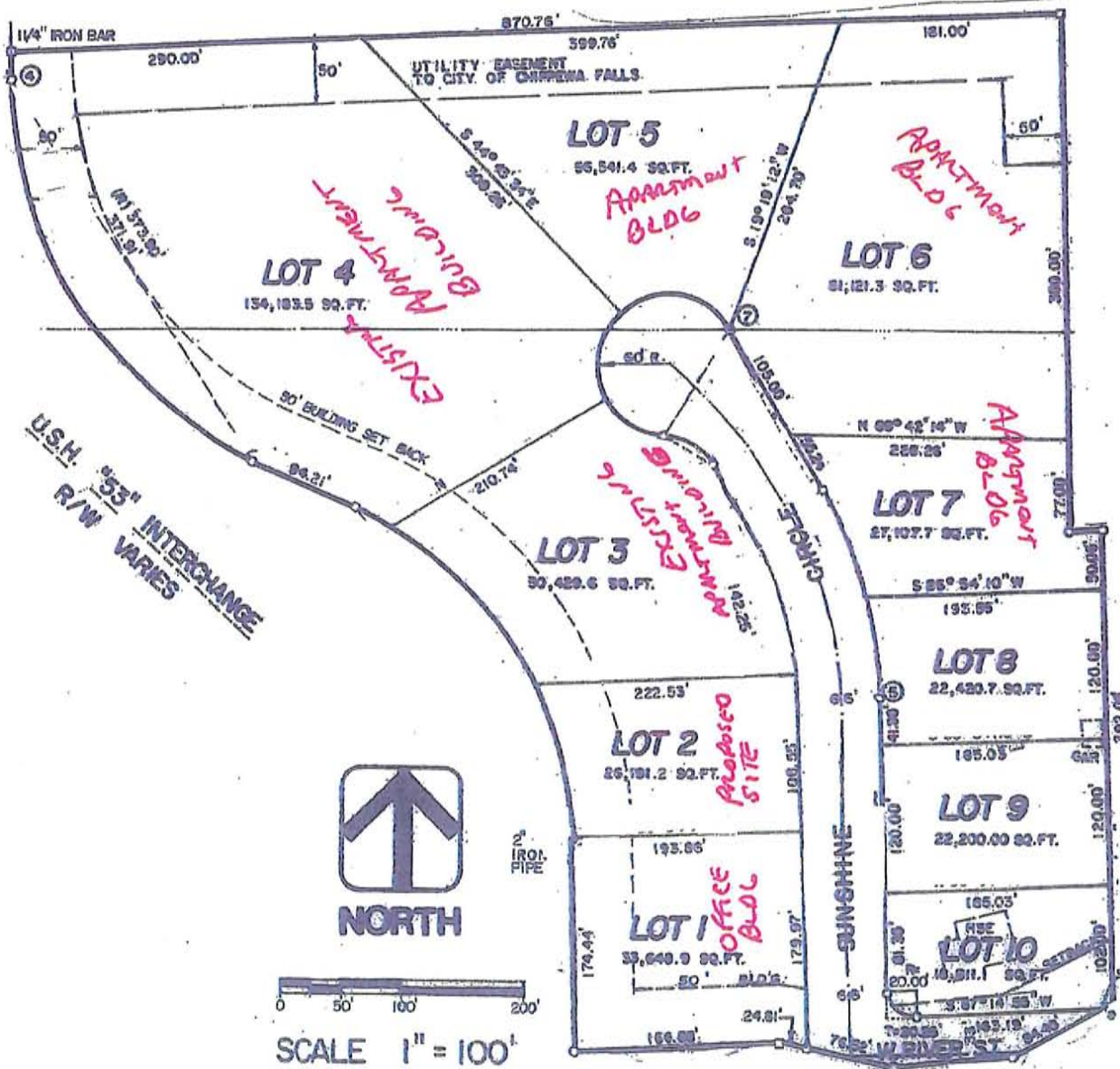
2" IRON PIPE

BLACKTOP PARKING



SUNSHINE

RAILROAD STATION



Date Filed: 7-18-13

Fee Paid: \$25.00 Date: 7-18-13 TR# 40238

Fee Paid: _____ Date: _____ TR# _____

PETITION FOR A CONDITIONAL USE PERMIT

TO THE CITY OF CHIPPEWA FALLS, WISCONSIN:

I/We, the undersigned, hereby petition the Plan Commission of the City of Chippewa Falls, Wisconsin, for a Conditional Use Permit as authorized by the Chippewa Falls Zoning Code, Section 17.47, for the following described property:

Address of Property: 631 Chippewa Street, Chippewa Falls, WI 54729

Lot: _____ Block _____ Subdivision _____

Or Legal Description: SW 1/4 of Section 8, T28N, R8W

Property is zoned: R-1e

Home/Business Address: 225 Bridge Street, Collegewille, PA 19426

Phone Number: (215) 317-8555

Purpose for which this Permit is being requested:
To install a permanent backup generator at an existing cell site on a 10'x4' poured concrete pad.

Existing use of property within 300' of subject property: (List or attach map)
cell site at water tank

CONDITIONAL USE PERMIT APPLICATION (Continued)

Indicate any facts that indicate the proposed use will not be detrimental to the general public interest, the purposes of this Chapter and the general area in which it is located:

This benefits the general public interest. It will provide backup power if/when power goes out in a possible emergency situation. That is its sole purpose.

Operational plans of the proposed use:

Hours of Operation: backup power provider
Days of Operation: _____
Number of Employees: N/A Part-Time N/A Full-Time

Capacity:

Number of Units: 1

Size: dimensions include steel enclosure (sound reduction)
94.8" x 38" x 99"
L W H

Number of Children/Residents: N/A

Age: _____
Other: _____

Building plans:

Existing buildings: N/A

Proposed buildings: N/A

Use of part of building: N/A

Proposed Additions: adding permanent backup generator to existing cell site lease area.

Future Additions: N/A

Change in Use: N/A

Outside Appearance: generator to be installed onto a 10' x 4' concrete pad next to existing equipment

Number of Buildings: N/A

Planting & Landscaping:

Type: N/A

Timetable:

Screening:

Type: Generator to be enclosed in steel for noise reduction

Fences:

Type:

Height:

Location:

Earth Bank:

Planting: N/A
Maintenance: _____
Other: _____

Lights:

Number of Lights: N/A
Location: _____
Hours: _____
Type: _____

Signs:

Type: N/A
Lighted: _____
Size: _____
Location: _____
Setbacks: _____

Drives:

Number of: N/A
Location: _____
Width: _____

Parking:

Number of Stalls: N/A
Location of Stalls: _____
Setbacks: _____
Surfacing: _____
Screening: _____

Drainage:

Storm Sewer: N/A

RockBeds: _____

Detention Pond: _____

Retention Pond: _____

Submit Site Plan Showing Property Line, Buildings and Other Structures: CIDs included

List any additional information being submitted with this permit application:

Construction drawings + Generator Specs.

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

Owners/Addresses

City of Chippewa Falls Dept.
of Public Utilities

30 West Central Street

Chippewa Falls, WI 54729

Petitioners/Addresses



CHIPPEWA FALLS S. WT

FA#: 10123980
USID: 96849

631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729



GENERAL DYNAMICS
Wireless Services

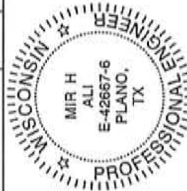
1325 Wiley Road, Ste. 136
Schwartzville, IL 60173
847-598-4611



DTEI Engineering & Consultants, LLC
Engineering solutions made easy
Reg. # 2165-11

DRAWING REVISIONS

REV.	DESCRIPTION	DATE	BY
A	100% CD	05.19.13	JEPF



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		

DESIGNED BY: JEPF
CHECKED BY:
DATE: 05.19.13
FILE:

SHEET INDEX

APPROVALS

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	GENERAL ATS SPECIFICATIONS	0

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

SITE INFORMATION

IBC & NEC
631 CHIPPEWA ST., CHIPPEWA FALLS, WI 54729
PROPERTY OWNER: CITY OF CHIPPEWA FALLS DEPT. OF PUBLIC UTILITIES
715-726-2701

AT&T MOBILITY
930 NATIONAL PKWY, 4TH FLOOR
SCHUMBERG, IL 60173

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

SCOPE OF WORK:
INSTALL NEW DIESEL GENERATOR WITH SUBBASE FUEL TANK ON NEW 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 THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AT (800) 242-8511 OR (414) 255-1181 BEFORE DIGGING OR DRILLING ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE CONTRACTOR'S EXPENSE.

PROJECT TEAM

ENGINEER:
DTEI ENGINEERING & CONSULTANTS
3740 N. JOSEY LANE, SUITE 123
CARROLLTON, TX 75007
TEL: 972-395-8888 x103
FAX: 972-395-8883
WWW.DTEI-TEXAS.COM

CONSTRUCTION MANAGER:
MIKE CERRO
GENERAL DYNAMICS
WIRELESS SERVICES
1325 WILEY RD., STE. 136
SCHWARTZVILLE, IL 60173
847-598-4611 DIRECT
847-252-2477 FAX

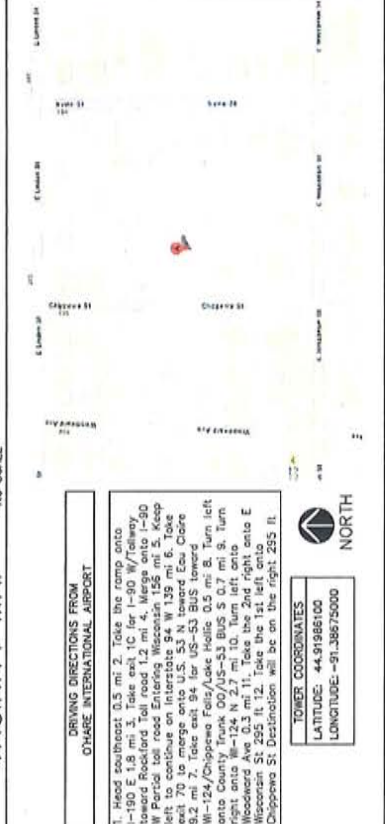
DO NOT SCALE DRAWING

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

HANDICAP REQUIREMENTS
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED

OTHER REQUIREMENTS
- FACILITY HAS NO PLUMBING OR PAVING
- NO GRADING WILL BE REQUIRED FOR THIS SITE

VACINITY MAP



AREA MAP





GENERAL DYNAMICS
WIRELESS SERVICES

1325 Wiley Road, Ste. 136
505
847-598-4811



DTE Engineering & Consultants, LLC
Engineering Solutions for the West
Reg. # 2084-11

DRAWING REVISIONS

REV	DESCRIPTION	DATE	BY
A	100% CD	05.19.13	BJP



SITE NAME: CHIPPEWA FALLS
S. WT

FA: 10123960

631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:

GENERAL NOTES

SCALES LISTED ARE FOR 11"x17" SHEETS

SHEET NO./REV.	SCALE	AS NOTED
	DRAWN BY	BJP
	CHECKED BY	
	DATE	05.19.13
	FILE	

SP-1

NOTES TO CONTRACTOR:

- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE NECESSARY PERMITS, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- 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 METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS RESPONSIBILITY SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
- SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY TOWERS GROUNDING STANDARDS. NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN.
- ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, EXISTING CONSTRUCTION AND UTILITIES SHALL BE PROTECTED AT ALL TIMES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
- ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.
- THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITAL.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT FENCE AND EROSION CONTROL SHALL BE MAINTAINED ON THE SITE THROUGHOUT THE CONSTRUCTION PERIOD. ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS, INSPECTIONS, CERTIFICATES, ETC. DURING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
- RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS AND REVISIONS TO THE DRAWINGS. RECORD CHANGES ON A CLEAN SET BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON THE DRAWINGS AND MAINTAIN THEM UNDER THE CONTROL OF THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
- RECORD PHOTOS: INCLUDE TIME/DATE STAMPED PHOTOS WITH TAPE MEASURE DEPTH VERIFICATION.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTOR SHALL NOTIFY GENERAL DYNAMICS WIRELESS SERVICES OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PRECEDING WITH CONSTRUCTION.
- CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL SUITABLE MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT A LOCATION APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.

- SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MINIMUM AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A MINIMUM PERIOD OF ONE YEAR.
- SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MINIMUM AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A MINIMUM PERIOD OF ONE YEAR.

GENERAL NOTES:

- THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
- THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITATION. NO HANDICAP ACCESS IS REQUIRED.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.
- OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 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 PRECEDING WITH CONSTRUCTION.

ELECTRICAL NOTES:

- GENERAL**
- COORDINATE LOCATION AND PROPER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T MOBILITY AND EQUIPMENT SUPPLIES PRIOR TO INSTALLATION.
- COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE PROPERTY REPRESENTATIVE. AT&T MOBILITY AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.
- ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED.
- UNTESTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION. DO NOT REMOVE EXISTING EQUIPMENT FROM THE FACILITY. CONTRACTOR SHALL MAINTAIN AND WHATSOEVER ELSE IS NECESSARY SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY WRITINGS STATING THE DATE, TIME, ETC. OF THE SERVICE WORK SHALL BE PRESERVED. PERMISSION TO REQUEST SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
- COORDINATE UNUSUAL WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T MOBILITY REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED. REGARDLESS OF WHICH WAS FIRST INSTALLED.
- THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T MOBILITY REPRESENTATIVE.

- WIRING/CONDUIT**
- 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 DEGREES TOTAL) EXIST IN/ON CONDUIT RUN.
- ALL POWER AND CONTINUOUS CURRENT WIRING SHALL BE TYPE THHW/THWN 90°C RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.
- CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 340.10. NO RIGHT ANGLE BENDS OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
- POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
- ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE. ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
- CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
- INSTALL PULL STRINGS IN ALL CONDUIT.
- FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDINGS AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAIN AND STEAM AREAS, COLLOCATES, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
- MAINTAIN MINIMUM 1/2" VERTICAL AND 1/2" HORIZONTAL SEPARATION FROM ANY MECHANICAL GAS PIPING.
- ALL WIRING ROUTED IN PLENUM TO BE PLENUM RATED OR IN METALLIC FLEX (LONIDITE) CONDUIT.
- INSPECTION WINDOWS ARE REQUIRED ON ALL LUGS.
- EQUIPMENT**
- EQUIPMENT PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (AVC, V.A.) OF THAT EQUIPMENT.
- ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.
- GROUNDINGS**
- ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTIONS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
- ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE OF A TYPE AS TO NOT CAUSE A GALVANIC OR CORROSIIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.
- ANY METALLIC TERMINALS OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
- EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
- ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.
- EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON THE PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTIONS CABLES AS SHORT AS POSSIBLE.
- PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIPMENT ENCLOSURES AND ALL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.
- ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- INSPECTION/DOCUMENTATION**
- INCLUDE TIME/DATE STAMPED PHOTOS WITH TAPE MEASURE VERIFICATION FOR ALL BURRED CONDUIT.
- THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS-BUILT DRAWINGS. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.
- CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEM RESISTIVITY (MAX. 5 OHMS).
- AN ELECTRICAL TEST SHALL BE MADE BY AN INSPECTING AGENCY APPROVED BY THE LOCALITY'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.
- CONTRACTOR SHALL HAVE AT&T AND GENERATOR RELAY INSTALLATION AND EQUIPMENT IS NOT VOIDED.



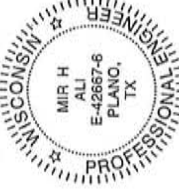
GENERAL DYNAMICS
Wireless Services

1325 Wiley Road, Ste. 136
Spartanburg, SC 29583-1773
847-556-4611



DTI Engineering & Consultants, LLC
Engineering and Construction
Reg. #278541

REV	DESCRIPTION	DATE	BY
A	100% CD	05.19.13	JEFF



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

SHEET NAME:

WIRING DETAILS

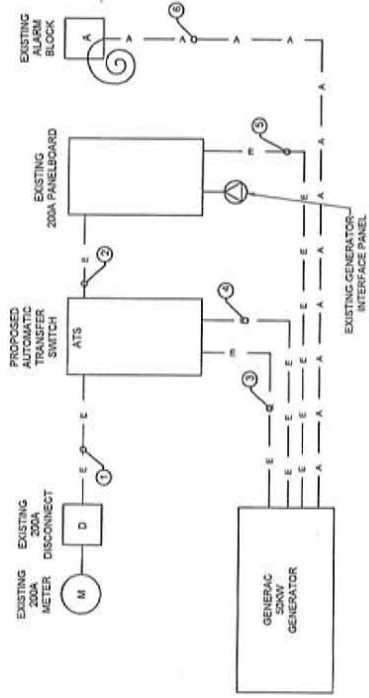
SCALES LISTED ARE FOR 11"X17" SHEETS
SHEET NO./REV.
SCALE: AS NOTED
DRAWN BY: JEFF
CHECKED BY: JEFF
DATE: 05.19.13
FILE:

ALARM WIRE IDENTIFICATION CHART

NAME	DESCRIPTION
CF	CRITICAL FAILURE
FL	FUEL LEAK / OVERFILL
GR	GENERATOR RUNNING
LF	LOW FUEL
MF	MAJOR FAULT
MP	MINOR FAULT (PRE-ALARM)

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

2 ALARM WIRING IDENTIFICATION CHART
SCALE: NONE

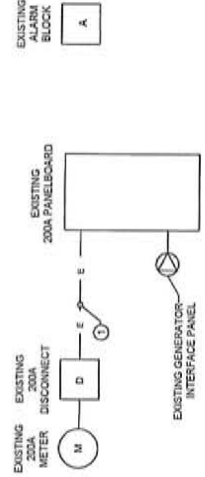


NOTE:
CONTRACTOR TO FOLLOW
MANUFACTURER ALARM
RECOMMENDATIONS

4 PROPOSED WIRING DIAGRAM
SCALE: NONE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(2) 30	(1) #4	2"	NORMAL POWER FEEDER TO ATS (OUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(2) 30	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(2) 30	(1) #4	2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	1"	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION PANEL)	GENERATOR	(2) #12 (2) #12	(1) #12 (1) #12	1"	CIRCUIT FOR GENERATOR BLOCK HEATER (START HEATER) CANNOT BE USED FOR BATTERY CHARGER
6	ALARM BLOCK	GENERATOR	13-PAIR 24 AWG	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG (RUN THROUGH THE CENTER OF THE CABLE) AND (2) 2 PAIR 24 AWG (RUN THROUGH THE CENTER OF THE CABLE) FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

1 CIRCUIT DETAIL
SCALE: NONE



3 EXISTING WIRING DIAGRAM
SCALE: NONE



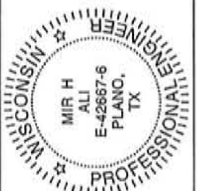
GENERAL DYNAMICS
Wireless Services

1325 Wiley Road, Ste. 136
Schumburg, IL 60173
947-598-4611



Dtel Engineering & Consultants, LLC
Engineering and Construction
11111 Highway 130, Suite 100
P.O. Box 100
Chicago, IL 60666
Tel: 773-225-1111
Fax: 773-225-1112
www.dtel.com

REV	DESCRIPTION	DATE	BY
A	10022 CDS	05.19.13	JEFF



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

SHEET NAME:
PANEL AND
PENETRATION DETAILS

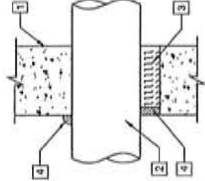
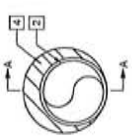
SCALES LISTED ARE FOR 11"x17" SHEETS

SCALE:	AS NOTED
DRAWN BY:	JEFF
CHECKED BY:	
DATE:	05.19.13

E-2

U.L. SYSTEM NO. C-AJ-1150
CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. 10922
F RATING = 3 HR
T RATING = 0 HR

- FLOOR OR WALL ASSEMBLY: MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK. MAXIMUM HEIGHT SHALL BE 10 FEET. CONCRETE SHALL BE CAST IN PLACE. THE REINFORCING STEEL SHALL BE UL LISTED (OR SMALLER) CATEGORY IN CONDUIT. MINIMUM 1/2" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT. MINIMUM 1/4" THICKNESS OF MIN. 10 PCF MINERAL WOOL PACKING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE CONDUIT. MINIMUM 1/4" SEALANT. MINIMUM 1/4" THICKNESS OF FILL WOOL OR CAVITY MATERIAL. SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF SEALANT SHALL BE APPLIED TO BOTH SURFACES OF WALL. SEALANT SHALL APPLY ONLY WHEN CP6015 OR CP604 SEALANT IS USED.
- HEAVY CONSTRUCTION CHEMICALS, DIV OF HALTINC.: CP6015, CP604, CP606, OR PG-ONE SEALANT.
- BEARING THE UL CLASSIFICATION MARK



SECTION A-A

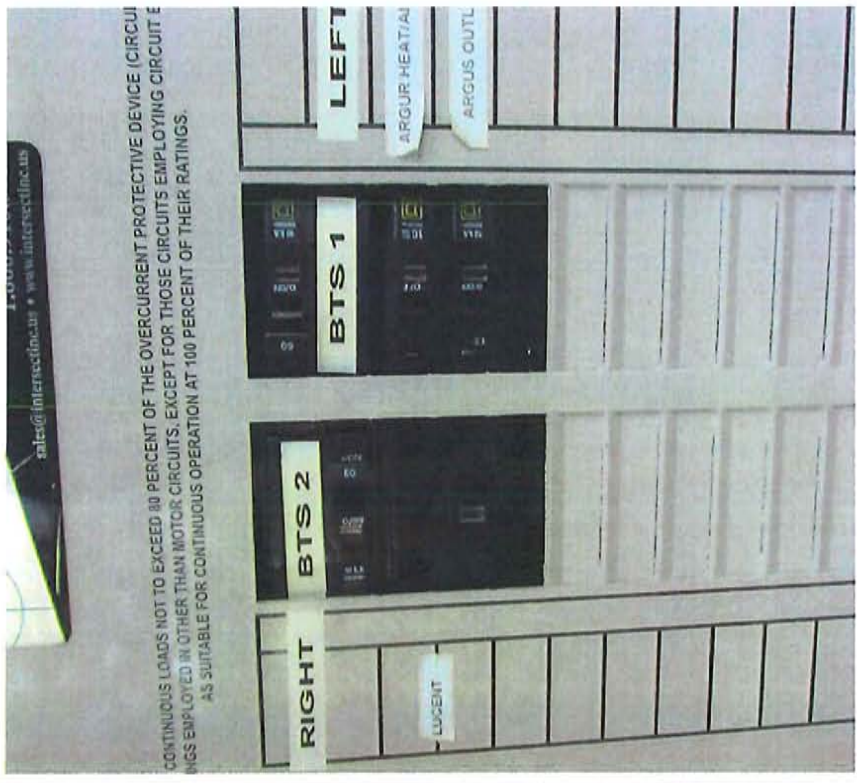
NOTE:
IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HOUR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED.

NOTE:
DO NOT USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS INTO OR THRU SHELTER WALL.

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

	TYPE GR CABLE TAP TO GROUND ROD		TYPE GT THROUGH CABLE TO SIDE OF GROUND ROD		TYPE GS THROUGH CABLE TO SIDE OF GROUND ROD		TYPE GV CABLE TAP DOWN AT 45° TO TOP OF GROUND ROD		TYPE VS THROUGH CABLE TO STEEL SURFACE OR SIDE OF HORIZONTAL PIPE		TYPE VW HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR HORIZONTAL PIPE		TYPE WS THROUGH CABLE TO STEEL SURFACE OR SIDE OF HORIZONTAL PIPE		TYPE WR CABLE TAP DOWN TO TOP OF GROUND ROD
	TYPE HS HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OF PIPE		TYPE HT HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OF PIPE		TYPE TA TEE OF HORIZONTAL RUN AND TAP CABLES.		TYPE GR CABLE TAP TO TOP OF GROUND ROD		TYPE VS THROUGH CABLE TO STEEL SURFACE OR SIDE OF HORIZONTAL PIPE		TYPE VW HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR HORIZONTAL PIPE		TYPE WS THROUGH CABLE TO STEEL SURFACE OR SIDE OF HORIZONTAL PIPE		TYPE WR CABLE TAP DOWN TO TOP OF GROUND ROD

3 CADWELD DETAILS
SCALE: NONE



1 EXISTING PANEL PHOTO
SCALE: NONE

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

NOTE:
CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY INVERTER, AND BUCK INVERTER.



at&t

GENERAL DYNAMICS
Wireless Services

1324 Wiley Road, Ste. 136
Spartanburg, SC 29173
847-536-4611



DTE Engineering & Consultants, LLC
Engineering and Consulting
Reg. # 279411

REV	DESCRIPTION	DATE	BY
A	100% CD	05.19.13	JEF



SITE NAME: CHIPPEWA FALLS
S. W.T

FA: 10123980

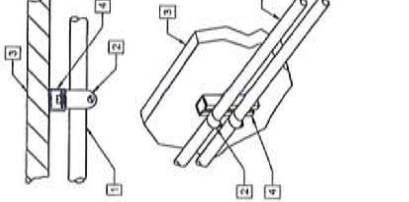
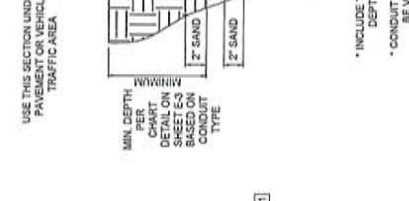
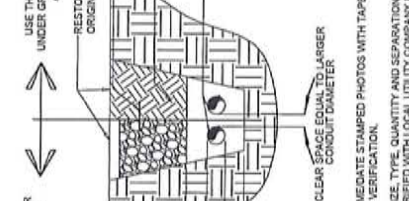
631 CHIPPEWA ST.
CHIPPEWA FALLS, WI 54729

SHEET NAME:

**ATS, CONDUIT, TRENCH
AND GROUND ROD
DETAILS**

SCALES LISTED ARE FOR 11"x17" SHEETS
SHEET NO./REV.: E-3
SCALE: AS NOTED
DRAWN BY: JEF
CHECKED BY:
DATE: 05.18.13
FILE:

MINIMUM COVER REQUIREMENTS, 0 TO 60V VOLTS, NOMINAL BURIAL IN INCHES	TYPE OF WIRING METHOD OR CIRCUIT
24 INCHES	DIRECT BURIAL CABLES OR CONDUITS
6 INCHES	RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT
18 INCHES	IN TRENCH BELOW 2 INCH THICKNESS OF EQUIVALENT
24 INCHES	UNDER STREETS OR HIGHWAYS
24 INCHES	UNDER STREETS OR HIGHWAYS



WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8\"/>
HOLLOW, AT STUD	3/8\"/>
CONCRETE BLOCK/HOLLOW	3/8\"/>
CONCRETE (SOLID)	3/8\"/>

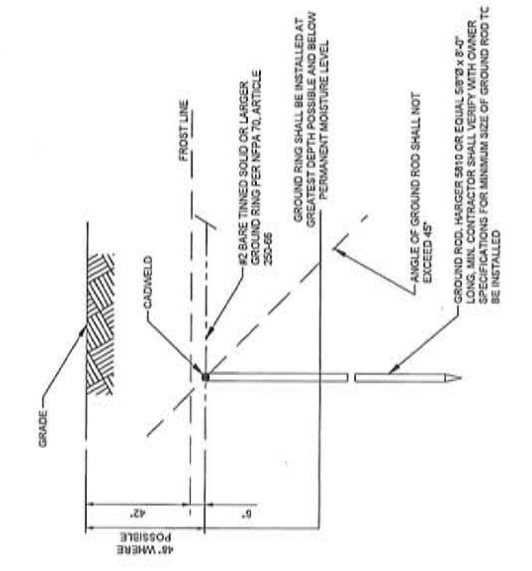
NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTIONS OF CHANNELS SPACE UNITS @ 3'-0\"/>

2 CONDUCTOR BURIAL REQUIREMENTS

SCALE: NONE

1 CONDUIT WALL MOUNT

SCALE: NONE



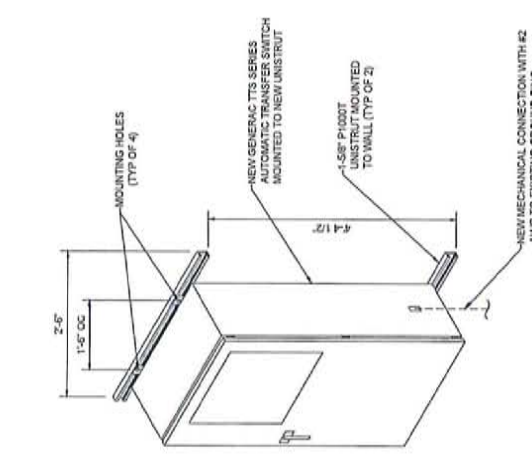
NOTE: GROUND RODS MAY BE:
- COPPER CLAD STEEL
- SOLID COPPER

NOTE: GROUND RODS SHALL HAVE A MAXIMUM SPACING THREE TIMES THE LENGTH OF ROD

NOTE: SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE

NOTE: LARGER CONDUCTORS SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL

NOTE: GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO CONDUITS SHALL BE INSTALLED AT OR BELOW 2\"/>



WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8\"/>
HOLLOW, AT STUD	3/8\"/>
CONCRETE BLOCK/HOLLOW	7/16\"/>
CONCRETE (SOLID)	7/16\"/>

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

NOTE: CC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL

4 GROUND ROD DETAIL

SCALE: NONE

3 INTERSECT ATS MOUNTING DETAIL

SCALE: NONE

SD050

CUSTOM MODEL

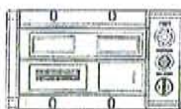
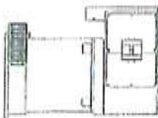
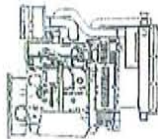
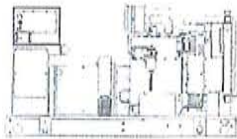
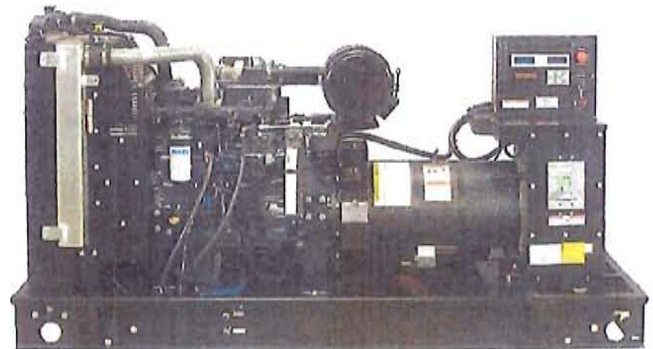
Industrial Diesel Generator Set

EPA Emissions Certification: Tier III

50 kW Diesel

1 of 5

Standby Power Rating
50KW 60 Hz



features

Generator Set

- PROTOTYPE & TORSIONALLY TESTED
- UL2200 TESTED
- RHINOCOAT PAINT SYSTEM
- SOUND LEVEL 2 ENCLOSURE

Engine

- EPA TIER CERTIFIED
- INDUSTRIAL TESTED, GENERAC APPROVED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE

Alternator

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL

Controls

- ENCAPSULATED BOARD W/ SEALED HARNESS
- 4-20mA VOLTAGE-TO-CURRENT SENSORS
- SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS

benefits

- ▶ PROVIDES A PROVEN UNIT
- ▶ ENSURES A QUALITY PRODUCT
- ▶ IMPROVES RESISTANCE TO ELEMENTS
- ▶ 71dbA @ 7 METERS (23FT)

- ▶ ENVIRONMENTALLY FRIENDLY
- ▶ ENSURES INDUSTRIAL STANDARDS
- ▶ ENGINEERED FOR PERFORMANCE
- ▶ IMPROVES LONGEVITY AND RELIABILITY

- ▶ ELIMINATES HARMFUL 3RD HARMONIC
- ▶ IMPROVES COOLING
- ▶ HEAT TOLERANT DESIGN
- ▶ FAST AND ACCURATE RESPONSE

- ▶ EASY, AFFORDABLE REPLACEMENT
- ▶ NOISE RESISTANT 24/7 MONITORING
- ▶ PROVIDES VIBRATION RESISTANCE
- ▶ 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 oC)	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
- BS5514
- 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 200A.

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

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" H₂O Column

		STANDBY	
Coolant Flow per Minute	gpm (lpm)	32.7(123.8)	
Heat rejection to Coolant	BTU/min	123,000	
Inlet Air	cfm (m ³ /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

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 (m ³ /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	

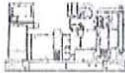
* CA units include aftertreatment

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

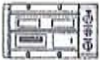
- Engine Electrical System**
- Battery charging alternator Std
 - Battery cables Std
 - Battery tray Std
 - 75W 120VAC Battery heater Std
 - Solenoid activated starter motor Std
 - 10A UL float/equalize battery charger Std
 - Weather Resistant electrical connections Std
 - Duplex GFCI Convenience Outlet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

ALTERNATOR SYSTEM



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

CONTROL SYSTEM



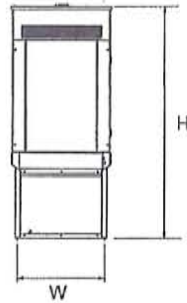
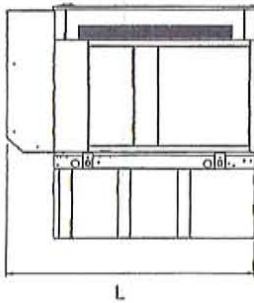
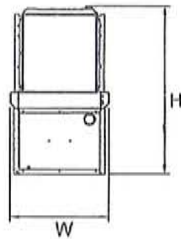
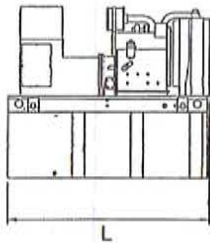
- Control Panel**
- Digital H Control Panel - Dual 4x20 Display Std
 - Programmable Crank Limiter Std
 - 7-Day Programmable Exerciser (requires H-Transfer Switch) Std
 - Special Applications Programmable PLC Std
 - RS-232 Std
 - RS-485 Std
 - All-Phase Sensing DVR Std
 - Full System Status Std
 - Utility 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.

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