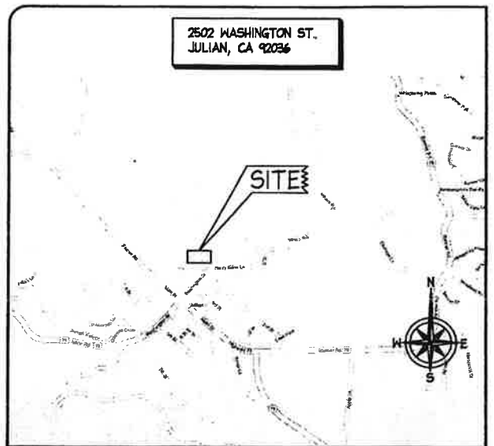


VICINITY MAP - N.T.S.

verizon wireless

DOWNTOWN JULIAN

RECEIVED
JAN 29 2013
Planning and Development Services

DIRECTIONS TO SITE

TAKE RAMP ONTO I-5 S. GO 45.37 MI. TAKE EXIT #51B/ESCONDIDO/VISTA WAY ONTO CA-78 E. GO 16.4 MI. TAKE THE SAN DIEGO EXIT ONTO I-15 S. GO 4.7 MI. TAKE THE VIA RANCHO PARKWAY EXIT. GO 0.3 MI. TURN RIGHT ON W VIA RANCHO PKY. GO 0.6 MI. CONTINUE ON BEAR VALLEY PKY S. GO 0.3 MI. TURN RIGHT ON SAN PASQUAL RD. GO 2.9 MI. TURN RIGHT ON OLD MILKY WAY. GO 1.8 MI. CONTINUE ON CA-78. GO 10.5 MI. TURN LEFT ON CA-78. GO 22.1 MI. CONTINUE ON WASHINGTON ST. GO < 0.1 MI. ARRIVE AT 2502 WASHINGTON ST, JULIAN, ON THE LEFT.

DRIVING DIRECTIONS

NEW ANTENNA
EXISTING ANTENNA
GROUND ROD
GROUND BUS BAR
MECH. GRND. CONN.
CADWELD
GROUND ACC. WELL
ELECTRIC BOX
TELEPHONE BOX
LIGHT POLE
FOUNDATION
SPOT ELEV.
SET POINT
REVISION
GRID REF.
DETAIL REF.
ELEVATION REF.
SECTION REF.
PROP./LEASE LINE
MATCH LINE
WORK POINT
GRND. CONDUCTOR
TELE. CONDUIT
ELECT. CONDUIT
COAXIAL CABLE
OVERHEAD SERV. CONDUCTORS
CHAIN LINK FENCE
CENTERLINE
WOOD CONT.
WOOD BLOCKING
PLASTER
(E) MASONRY
CONCRETE
EARTH
GRAVEL
PLYWOOD
SAND
STEEL

SYMBOLS, LINETYPES AND HATCH PATTERNS

PLAN VERIFICATION

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

GENERAL CONTRACTOR NOTES

AC.	ASPHALT CONCRETE	GVL.	GRAVEL
ANT.	ANTENNA(S)	HC.	HANDICAPPED
BEL	BELOW	HORIZ.	HORIZONTAL
B.G.	BELOW GRADE	HT.	HEIGHT
BLD'G.	BUILDING	HVAC.	HTG./ VENT./ A/C
B.M.	BENCH MARK	INCL.	INCLUDE
BRK.	BRICK	LBS.	POUNDS
CAB.	CABINET	LPT.	LOW POINT
C.B.	CATCH BASIN	MAS.	MASONRY
CEM.	CEMENT	MAX.	MAXIMUM
CFT.	CUBIC FOOT	MET.	METAL
C.I.P.C.	CAST-IN-PLACE CONC.	MFR.	MANUFACTURER
C.L.L.	CONTRACT LIMIT LINE	MIN.	MINIMUM
CLS.	CLOSURE	(N)	NEW
C.M.U.	CONC. MASONRY UNIT	N	NORTH
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT
CONN.	CONNECTION	N.T.S.	NOT TO SCALE
CONST.	CONSTRUCTION	P.P.	POWER POLE
CTR.	CENTER	P.L.	PROPERTY LINE
CYD.	CUBIC YARD	P.O.C.	POINT OF CONN.
DBL.	DOUBLE	PROP.	PROPERTY
DEMO.	DEMOLITION	PT.	POINT
DIM.	DIMENSION	PVMT.	PAVEMENT
DRWG.	DRAWING	REQD.	REQUIRED
DTL.	DETAIL	RFH.	ROOF HATCH
(E)	EXISTING	RFG.	ROOFING
E	EAST	R.O.W.	RIGHT-OF-WAY
E.L.	ELEVATION	S	SOUTH
ELEC.	ELECTRIC (AL)	TEL.	TELEPHONE
ENCL.	ENCLOSURE	T.O.P.	TOP OF PARAPET
E.P.	ELECT. PANELBOARD	T.O.S.	TOP OF SLAB (SURFACE)
EQUIP.	EQUIPMENT		
EX.	EXISTING	T.O.W.	TOP OF WALL
EXT.	EXTERIOR	TYP.	TYPICAL
FS.	FINISH SURFACE	UNF.	UNFINISHED
FT.	FOOT OR FEET	U.N.O.	UNLESS NOTED OTHERWISE
FUT.	FUTURE		
G.C.	GENERAL CONTR.	VERT.	VERTICAL
G.F.	GROUND FACE	W	WEST
GND.	GROUND	W/	WITH
GR.	GRADE OR GRADING	WP.	WATERPROOF
GV.	GAS VENT	WT.	WEIGHT

ABBREVIATIONS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ACCEPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES:

1. 2010 CALIFORNIA BUILDING CODE, VOLS. 1 & 2
2. 2010 CALIFORNIA RESIDENTIAL CODE
3. 2010 CALIFORNIA PLUMBING CODE
4. 2010 CALIFORNIA MECHANICAL CODE
5. 2010 CALIFORNIA ELECTRICAL CODE
6. 2010 ENERGY CODE
7. 2010 GREEN BUILDING CODE
8. 2010 CALIFORNIA FIRE CODE
9. 2010 CALIFORNIA REFERENCE STANDARDS CODE

CODE COMPLIANCE

SITE PARCEL NO.:	250-090-39-00
JURISDICTION:	COUNTY OF SAN DIEGO
ZONE:	RC
OCCUPANCY:	UNMANNED TELECOMMUNICATIONS FACILITY
LATITUDE:	33° 4' 49.32"
LONGITUDE:	116° 36' 5.44"
ELEVATION:	4280'
LEGAL DESCRIPTION:	PARCEL 2, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AS SHOWN AT PAGE 2701 OF THE PARCEL MAPS, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, JULY 30 1974.

PROJECT DATA

SITE ADDRESS:	2502 WASHINGTON ST. JULIAN, CA 92036
OWNER:	DARREL STRAUBE 2502 WASHINGTON ST. JULIAN, CA 92036
CONTACT:	XXX (XXX) XXX-XXXX
APPLICANT:	VERIZON WIRELESS 15505 SAND CANYON AVE. BUILDING 'D' 1ST FLOOR IRVINE, CA 92618 PHONE: (949) 286-7000
CONTACTS:	MILESTONE WIRELESS PROJECT MANAGER: EMANUEL HIGGINS 15205 PAYTON IRVINE, CA. 92620 PHONE: (323) 241-8519
ARCHITECT:	ACO ARCHITECTS, INC. 26170 ENTERPRISE WAY #600 LAKE FOREST, CA 92630 PHONE: (949) 716-9940 FAX: (949) 297-4788
CONTACT:	ANTHONY ORTALE (949) 716-9940

PROJECT DIRECTORY

THIS PROPOSED PROJECT CONSISTS OF THE INSTALLATION OF A 30 KW KOHLER EMERGENCY BACKUP GENERATOR OUTSIDE A VERIZON WIRELESS EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THIS GENERATOR WOULD RUN IN THE EVENT OF A MAJOR CATASTROPHE CAUSING COMMERCIAL POWER FAILURE.

PROJECT DESCRIPTION

T-1	TITLE SHEET
A-1	SITE PLAN
A-2	DETAILED SITE PLAN
A-3	ARCHITECTURAL ELEVATIONS
A-4	GENERATOR SPECIFICATIONS

THE PERMIT APPLICANT ACKNOWLEDGES THAT THIS PROJECT PROPERTY IS ZONED RC AND SURROUNDING PROPERTIES ZONED RC AND WILL BE REQUIRED TO COMPLY WITH THE ONE-HOUR SOUND LEVEL LIMITS OF CHAPTER 4 (NOISE ABATEMENT AND CONTROL) IN TITLE 3, DIVISION 6 OF THE SAN DIEGO COUNTY CODE OF REGULATORY ORDINANCES. FOR THIS PROJECT PROPERTY, THE MOST STRINGENT DAYTIME HOURLY LIMIT AT ANY PROPERTY LINE IS 55 DECIBELS (DBA) AND FOR NIGHTTIME CONDITIONS THIS HOURLY LIMIT IS 50 DECIBELS (DBA). AS SUCH, IT IS SOLELY THE RESPONSIBILITY OF THE APPLICANT TO ENSURE COMPLIANCE WITH THESE STANDARDS. THE PROPERTY OWNER SHALL CORRECT ANY REPORTED NOISE VIOLATION OF THE APPLICABLE SOUND LEVEL LIMITS WITHIN 30 DAYS OF WRITTEN NOTIFICATION BY THE COUNTY.

SHEET INDEX

REV:	DATE/BY:	REVISION DESCRIPTION:
3	05-06-11 / RS	CLIENT REVISION
4	08-22-11 / MY	CLIENT REVISIONS
5	08-01-12 / JY	CLIENT REVISIONS
6	08-22-12 / TW	CLIENT REVISIONS
7	01-22-13 / EL	COUNTY COMMENTS

CONSULTANT:

milestone wireless
8941 ATLANTA AVENUE, #504
HUNTINGTON BEACH, CA. 92646

SITE BUILDER:

verizon wireless
15505 SAND CANYON AVE.
BUILDING 'D' 1st. FLOOR
IRVINE, CA. 92618
PHONE (949) 286-7000

A&E DEVELOPMENT:

ACO ARCHITECTS - INC.
26170 ENTERPRISE WAY #600
LAKE FOREST, CA 92630
TEL: 949-716-9940
FAX: 949-297-4788

ENGINEER:

SITE INFO:

SITE NAME:
DOWNTOWN JULIAN

SITE ADDRESS:
2502 WASHINGTON ST.
JULIAN, CA 92036

SHEET TITLE:
TITLE SHEET

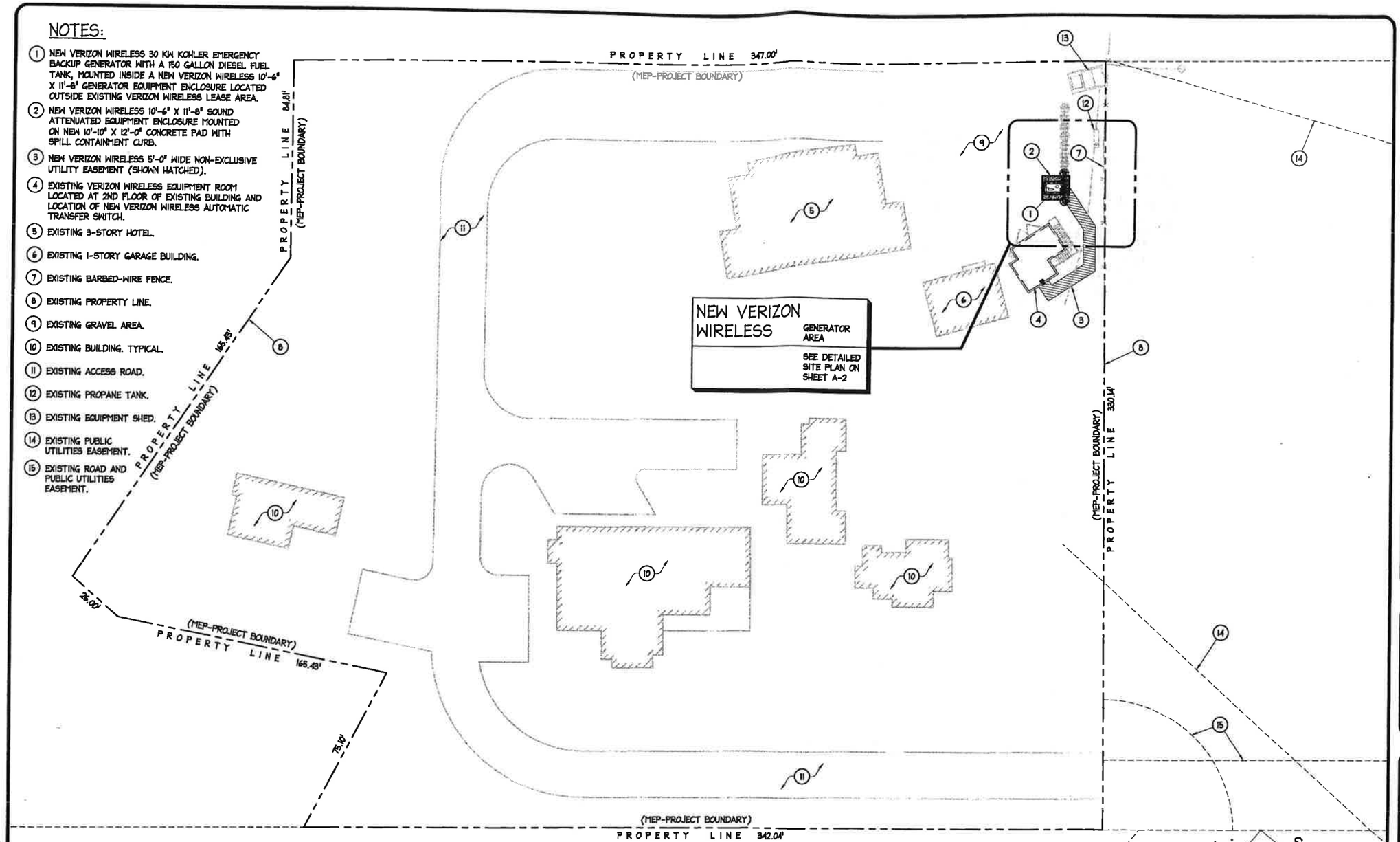
DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
T1	MY	11-12-09

SHEET NUMBER:
T-1

NOTES:

1. NEW VERIZON WIRELESS 30 KW KOHLER EMERGENCY BACKUP GENERATOR WITH A 150 GALLON DIESEL FUEL TANK, MOUNTED INSIDE A NEW VERIZON WIRELESS 10'-6" X 11'-8" GENERATOR EQUIPMENT ENCLOSURE LOCATED OUTSIDE EXISTING VERIZON WIRELESS LEASE AREA.
2. NEW VERIZON WIRELESS 10'-6" X 11'-8" SOUND ATTENUATED EQUIPMENT ENCLOSURE MOUNTED ON NEW 10'-10" X 12'-0" CONCRETE PAD WITH SPILL CONTAINMENT CURB.
3. NEW VERIZON WIRELESS 5'-0" WIDE NON-EXCLUSIVE UTILITY EASEMENT (SHOWN HATCHED).
4. EXISTING VERIZON WIRELESS EQUIPMENT ROOM LOCATED AT 2ND FLOOR OF EXISTING BUILDING AND LOCATION OF NEW VERIZON WIRELESS AUTOMATIC TRANSFER SWITCH.
5. EXISTING 3-STORY HOTEL.
6. EXISTING 1-STORY GARAGE BUILDING.
7. EXISTING BARBED-WIRE FENCE.
8. EXISTING PROPERTY LINE.
9. EXISTING GRAVEL AREA.
10. EXISTING BUILDING. TYPICAL.
11. EXISTING ACCESS ROAD.
12. EXISTING PROPANE TANK.
13. EXISTING EQUIPMENT SHED.
14. EXISTING PUBLIC UTILITIES EASEMENT.
15. EXISTING ROAD AND PUBLIC UTILITIES EASEMENT.



CUMULATIVE CHANGE TABLE		
APPROVED SQUARE FOOTAGE	DESCRIPTION	PERCENTAGE CHANGE
± 11168.8 SQ. FT.	(6) (E) BUILDINGS	BASELINE
± 505.1 SQ. FT.	(E) VZW EQUIPMENT SHELTER	PLUS 4.5 %
± 130 SQ. FT.	NEW GENERATOR WITH ENCLOSURE	PLUS 1.2 %
NET CHANGE		TOTAL 5.7%

SITE PLAN

SCALE: 1" = 20'

REV:	DATE/BY:	REVISION DESCRIPTION:
3	05-06-11 RS	CLIENT REVISION
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6	08-22-12 TW	CLIENT REVISIONS
7	01-22-13 EL	COUNTY COMMENTS

CONSULTANT:

milestone wireless
8941 ATLANTA AVENUE, #504
HUNTINGTON BEACH, CA. 92646

SITE BUILDER:

verizon wireless
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PHONE (949) 286-7000

A&E DEVELOPMENT:

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26170 ENTERPRISE WAY #600
LAKE FOREST, CA 92630
TEL: 949-716-9940
FAX: 949-297-4788

ENGINEER:

SITE INFO:

SITE NAME:
DOWNTOWN JULIAN

SITE ADDRESS:
2502 WASHINGTON ST.
JULIAN, CA 92036

SHEET TITLE:
SITE PLAN

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
A1	MY	11-12-09

SHEET NUMBER:
A-1

NOTES:

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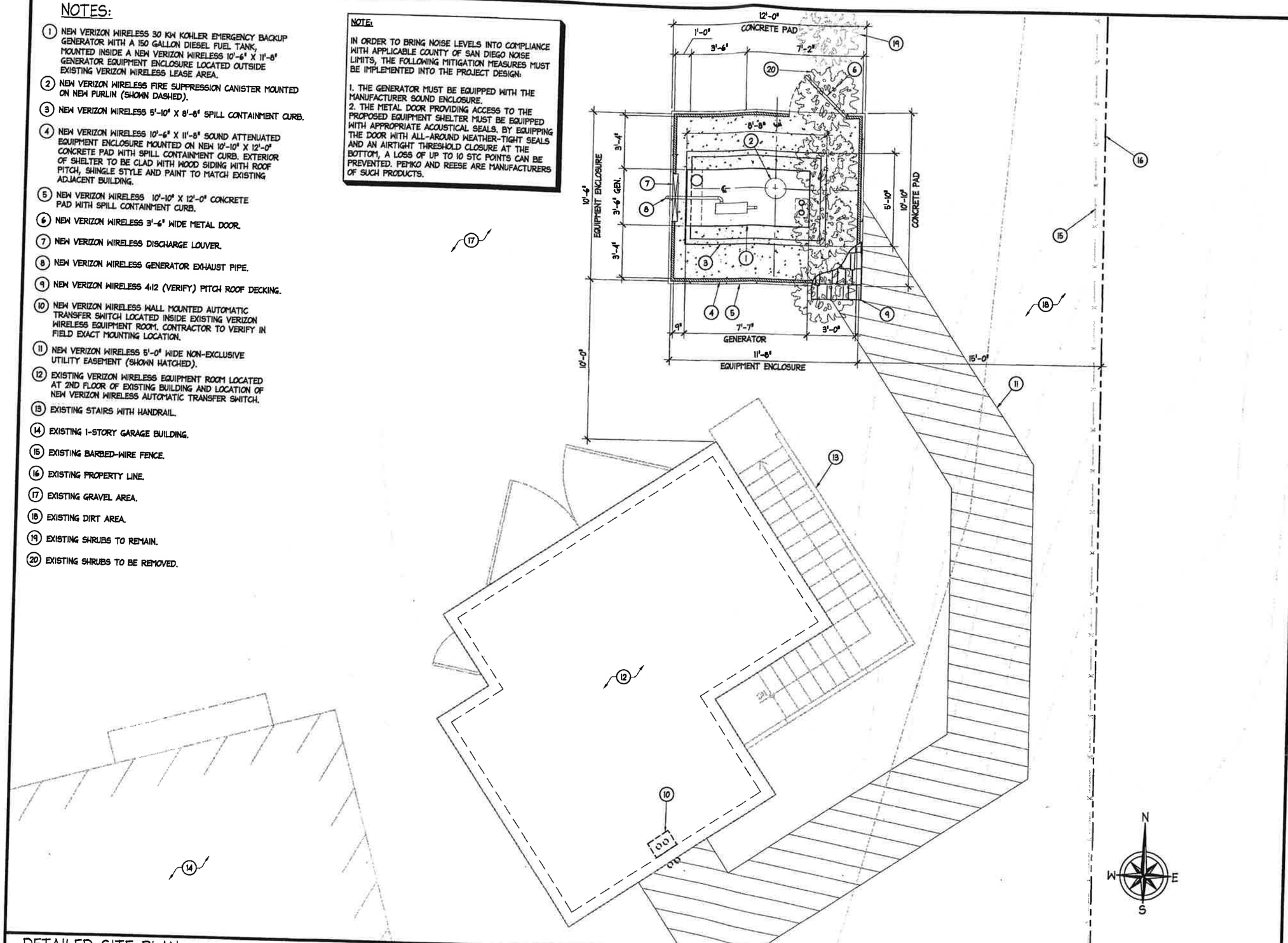
2. NEW VERIZON WIRELESS FIRE SUPPRESSION CANISTER MOUNTED ON NEW PURLIN (SHOWN DASHED).
3. NEW VERIZON WIRELESS 5'-10" X 8'-8" SPILL CONTAINMENT CURB.
4. NEW VERIZON WIRELESS 10'-6" X 11'-8" SOUND ATTENUATED EQUIPMENT ENCLOSURE MOUNTED ON NEW 10'-10" X 12'-0" CONCRETE PAD WITH SPILL CONTAINMENT CURB. EXTERIOR OF SHELTER TO BE CLAD WITH WOOD SIDING WITH ROOF PITCH, SHINGLE STYLE AND PAINT TO MATCH EXISTING ADJACENT BUILDING.
5. NEW VERIZON WIRELESS 10'-10" X 12'-0" CONCRETE PAD WITH SPILL CONTAINMENT CURB.
6. NEW VERIZON WIRELESS 3'-6" WIDE METAL DOOR.
7. NEW VERIZON WIRELESS DISCHARGE LOUVER.
8. NEW VERIZON WIRELESS GENERATOR EXHAUST PIPE.
9. NEW VERIZON WIRELESS 4:12 (VERIFY) PITCH ROOF DECKING.
10. NEW VERIZON WIRELESS WALL MOUNTED AUTOMATIC TRANSFER SWITCH LOCATED INSIDE EXISTING VERIZON WIRELESS EQUIPMENT ROOM. CONTRACTOR TO VERIFY IN FIELD EXACT MOUNTING LOCATION.
11. NEW VERIZON WIRELESS 5'-0" WIDE NON-EXCLUSIVE UTILITY EASEMENT (SHOWN HATCHED).
12. EXISTING VERIZON WIRELESS EQUIPMENT ROOM LOCATED AT 2ND FLOOR OF EXISTING BUILDING AND LOCATION OF NEW VERIZON WIRELESS AUTOMATIC TRANSFER SWITCH.
13. EXISTING STAIRS WITH HANDRAIL.
14. EXISTING 1-STORY GARAGE BUILDING.
15. EXISTING BARBED-WIRE FENCE.
16. EXISTING PROPERTY LINE.
17. EXISTING GRAVEL AREA.
18. EXISTING DIRT AREA.
19. EXISTING SHRUBS TO REMAIN.
20. EXISTING SHRUBS TO BE REMOVED.

NOTE:

IN ORDER TO BRING NOISE LEVELS INTO COMPLIANCE WITH APPLICABLE COUNTY OF SAN DIEGO NOISE LIMITS, THE FOLLOWING MITIGATION MEASURES MUST BE IMPLEMENTED INTO THE PROJECT DESIGN:

1. THE GENERATOR MUST BE EQUIPPED WITH THE MANUFACTURER SOUND ENCLOSURE.
2. THE METAL DOOR PROVIDING ACCESS TO THE PROPOSED EQUIPMENT SHELTER MUST BE EQUIPPED WITH APPROPRIATE ACOUSTICAL SEALS. BY EQUIPPING THE DOOR WITH ALL-AROUND WEATHER-TIGHT SEALS AND AN AIRTIGHT THRESHOLD CLOSURE AT THE BOTTOM, A LOSS OF UP TO 10 STC POINTS CAN BE PREVENTED. PEMKO AND REESE ARE MANUFACTURERS OF SUCH PRODUCTS.



DETAILED SITE PLAN

SCALE: 3/8" = 1'-0"

REV:	DATE/BY:	REVISION DESCRIPTION:
3	05-06-11 RS	CLIENT REVISION
4	08-22-11 MY	CLIENT REVISIONS
5	08-01-12 JT	CLIENT REVISIONS
6	08-22-12 TW	CLIENT REVISIONS
7	01-22-13 EL	COUNTY COMMENTS

CONSULTANT:

milestone wireless
8941 ATLANTA AVENUE, #504
HUNTINGTON BEACH, CA. 92646

SITE BUILDER:

verizon wireless
15505 SAND CANYON AVE.
BUILDING 'D' 1st. FLOOR
IRVINE, CA. 92618
PHONE (949) 286-7000

A&E DEVELOPMENT:

ACO ARCHITECTS - INC.
26170 ENTERPRISE WAY #600
LAKE FOREST, CA 92630
TEL: 949-716-9940
FAX: 949-297-4788

ENGINEER:

SITE INFO:

SITE NAME:
DOWNTOWN JULIAN

SITE ADDRESS:
2502 WASHINGTON ST.
JULIAN, CA 92036

SHEET TITLE:
DETAILED SITE PLAN

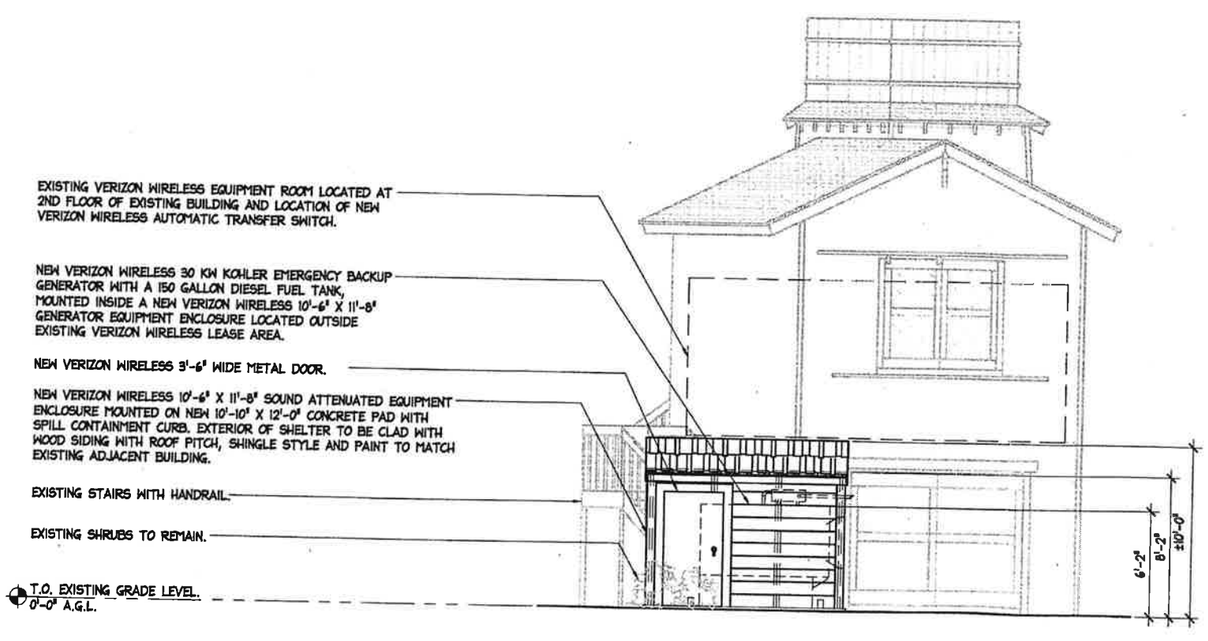
DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
A2	MY	11-12-09

SHEET NUMBER:
A-2

WEST ELEVATION

SCALE: 1/4" = 1'-0" | 1



NORTH ELEVATION

SCALE: 1/4" = 1'-0" | 2

REV:	DATE/BY:	REVISION DESCRIPTION:
3	05-06-11 / RS	CLIENT REVISION
4	08-22-11 / MY	CLIENT REVISIONS
5	08-01-12 / JT	CLIENT REVISIONS
6	08-22-12 / TN	CLIENT REVISIONS
7	01-22-13 / EL	COUNTY COMMENTS

CONSULTANT:

milestone wireless
8941 ATLANTA AVENUE, #504
HUNTINGTON BEACH, CA. 92646

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ENGINEER:

SITE INFO:

SITE NAME:
DOWNTOWN JULIAN

SITE ADDRESS:
2502 WASHINGTON ST.
JULIAN, CA 92036

SHEET TITLE:
ARCHITECTURAL ELEVATIONS

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
A3	MY	11-12-09

SHEET NUMBER:
A-3

NOT USED

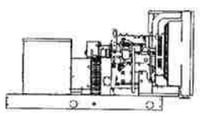
SCALE: N.T.S. (2 A-4)

Model: 30REOZJC-VER

KOHLER.POWER SYSTEMS

Diesel

ISO 9001 SGS KOHLER POWER SYSTEMS



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories
- The generator set and its components are prototype-tested, factory-built, and production-tested
- The 60 Hz generator set is UL 2200 listed
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards
- The generator set complies with ISO 8528-5, Class G2, requirements for transient performance
- The generator set engine is certified by the Environmental Protection Agency (EPA) to conform to Interim Tier 4 nonroad emissions regulations.
- A five-year basic limited warranty covers all systems and components
- The unique Fast-Response™ II excitation system delivers excellent voltage response and short circuit capability using a permanent magnet (PM)-excited alternator
- The low coolant level shutdown prevents overheating
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	105°C Rise Standby Rating kWe/kVA	Amps
4P5	120/208	3	60	30/38	104
4Q5	120/240	1	60	30/30	125

Ref NEC: All the above units are rated at 0 power factor. All single phase units are rated at 1.0 power factor. Standby Ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for standby. Prime Power Ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, these units are capable of an unlimited number of hours of operation. Ratings are in accordance with ISO 8528-1, nominal power in accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271. The alternator rating is based on the insulation system class rating as offered for sale at the rated ambient temperature and altitude specified on the data sheet. Obtain the nominal alternator bulletin (TP-181) on design guidelines for the generator range derating. The generator set manufacturer reserves the right to change the design specifications without notice and without any obligation or liability whatsoever. CALIFORNIA GUIDELINES FOR DERATING: Altitude: Derate 3.5% per 100 m (328 ft) above sea level. Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F)

GS-337 (30REOZJC-VER) 1/09

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	±1% Average
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA: (35% dip for voltages below)	
208 V 4P5	121
240 V 4Q5	95

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life
- Superior voltage waveform from a two-thirds pitch stator and slanted rotor
- Fast-Response™ II brushless alternator with brushless exciter for excellent load response

Application Data

Engine

Engine Specifications	
Manufacturer	John Deere
Engine model	4024TF281
Engine type	4-Cycle, Turbocharged
Cylinder arrangement	4 Inline
Displacement, L (cu. in.)	2.4 (149)
Bore and stroke, mm (in.)	86 x 105 (3.39 x 4.13)
Compression ratio	20.5:1
Piston speed, m/min. (ft./min.)	375 (1230)
Main bearings: quantity, type	5, Replaceable Insert
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	36 (48)
Cylinder head material	Cast Iron
Crankshaft material	Ductile Iron
Valve material:	
Intake	Chromium-Silicon Steel
Exhaust	Stainless Steel
Governor: type, make/model	Electronic, Standalone/Unit Pump
Frequency regulation, no-load to full load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed
Air cleaner type, all models	Dry

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m³/min. (cfm)	8.0 (283)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	552 (1026)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)
Exhaust outlet size at engine hookup, mm (in.)	63.5 (2.5)

Engine Electrical

Engine Electrical System	
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	70
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating	One, 640
Battery voltage (DC)	12

Fuel

Fuel System	
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)
Fuel return line, min. ID, mm (in.)	6.0 (0.25)
Max. lift, engine-driven fuel pump, m (ft.)	3.0 (10.0)
Max. fuel flow, Lph (gph)	99 (26.1)
Fuel prime pump	Manual
Fuel filter	
Secondary	5 Microns @ 98% Efficiency
Water Separator	Yes
Recommended fuel	#2 Diesel

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	7.3 (7.7)
Oil pan capacity with filter, L (qt.)	8.2 (8.7)
Oil filter: quantity, type	1, Cartridge
Oil cooler	Water-Cooled

GS-337 (30REOZJC-VER) 1/09

Application Data

Cooling

Radiator System	
Ambient temperature, °C (°F)	50 (122)
Engine jacket water capacity, L (gal.)	2.8 (0.7)
Radiator system capacity, including engine, L (gal.)	11.4 (3.0)
Engine jacket water flow, Lpm (gpm)	91 (24)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	24.5 (1412)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	597 (23.5)
Fan, kWm (HP)	2.9 (3.9)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	0.125 (0.5)

Operation Requirements

Air Requirements	
Radiator-cooled cooling air, m³/min. (scfm)‡	96 (3400)
Cooling air required for generator set when equipped with city water cooling or remote radiator, based on 14°C (25°F) rise and ambient temp. of 25°C (85°F), m³/min. (cfm)	48 (1700)
Combustion air, m³/min. (cfm)	3.0 (106)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	8.6 (490)
Alternator, kW (Btu/min.)	4.4 (250)

‡ Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption	
Diesel, Lph (gph) at % load	Standby Rating
100%	10.6 (2.8)
75%	8.0 (2.1)
50%	5.8 (1.5)
25%	3.9 (1.0)

KOHLER CO., Kohler, Wisconsin 53044 USA
Phone 920-565-3381, Fax 920-459-1646
For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444
KohlerPower.com

Controller

KPC 1000 Controller Features

- Audio/visual annunciation with NFPA 99 and NFPA 110 capability
- Multi-line digital data display and keypad to access data
- 12- or 24-volt DC engine electrical system capability
- Graphic liquid crystal display (LCD) with 128 x 64 pixel resolution and backlighting
- Sealed six-button keypad
- Ten bi-color (yellow warning and red shutdown) fault or green status indicating LED lights
- Red failure (fault) shutdown LED
- Three-button master switch: Auto, Off (Reset), Run
- Alarm horn with silence switch function
- Upgradeable application code
- RS-485 connector for serial data communication
- Password-protected programming mode
- PC Interface Software for monitoring, adjustment, and upgrades
- Faults:
  - Auxiliary fault
  - High engine temperature
  - Low cranking voltage
  - Low oil pressure
  - Low coolant level
  - Overcrank
  - Overspeed
  - Overvoltage
  - Undervoltage
  - Overfrequency
  - Underfrequency
  - Low battery voltage
  - High battery voltage

GS-337 (30REOZJC-VER) 1/09

GENERATOR SPECIFICATIONS

SCALE: N.T.S. (1 A-4)

REV:	DATE/BY:	REVISION DESCRIPTION:
3	05-06-11 RS	CLIENT REVISION
4	08-22-11 MY	CLIENT REVISIONS
5	06-01-12 JY	CLIENT REVISIONS
6	08-22-12 TW	CLIENT REVISIONS
7	01-22-13 EL	COUNTY COMMENTS

CONSULTANT:

milestone wireless
8941 ATLANTA AVENUE, #504
HUNTINGTON BEACH, CA. 92646

SITE BUILDER:

verizon wireless
15505 SAND CANYON AVE.
BUILDING 'D' 1st. FLOOR
IRVINE, CA. 92618
PHONE (949) 286-7000

A&E DEVELOPMENT:

ACO ARCHITECTS - INC.
26170 ENTERPRISE WAY #600
LAKE FOREST, CA 92630
TEL: 949-716-9940
FAX: 949-297-4788

ENGINEER:

SITE INFO:

SITE NAME:
DOWNTOWN JULIAN

SITE ADDRESS:
2502 WASHINGTON ST.
JULIAN, CA 92036

SHEET TITLE:
GENERATOR SPECIFICATIONS

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
A4	MY	11-12-09

SHEET NUMBER:
A-4