STAFF REPORT FOR PLANNING COMMISSION MEETING OF SEPTEMBER 30, 2020

FILE NO: LU-2020-0024 AGENDA ITEM: E.5

STAFF AUTHOR: Hope Sullivan, Planning Manager

AGENDA TITLE: For Possible Action: Discussion and possible action regarding a request for a Special Use Permit to modify a municipal well site by adding an emergency backup generator on property zoned Public Regional (PR), located at 2201 W College Parkway, APN 007-521-01.

STAFF SUMMARY: Carson City Public Works is proposing to install an emergency backup generator at the City's well site. The proposed improvements include installing a new generator and fuel tank on a concrete pad. The generator would be approximately 9-feet, 4-inches tall by 6-feet, 9-inches wide by 14-feet, 10-inches long. The generator will be housed inside a white, sound attenuating enclosure. The proposed generator will provide emergency backup power to the well. The Planning Commission is authorized to approve a Special Use Permit.

RECOMMENDED MOTION: I move to approve LU-2020-0024, based on the ability to make the required findings and subject to the conditions of approval contained in the staff report.

VICINITY MAP:



RECOMMENDED CONDITIONS OF APPROVAL:

- 1. All development shall be substantially in accordance with the approved site plan.
- 2. All on and off-site improvements shall conform to City standards and requirements.
- 3. The use for which this permit is approved shall commence within twelve (12) months of the date of final approval. A single, one (1) year extension of time must be requested in writing to the Planning and Community Development Department thirty (30) days prior to

LU-2020-0024 Well Generator College Parkway Planning Commission September 30, 2020 Page 2

the one (1) year expiration date. Should this permit not be initiated within one (1) year and no extension granted, the permit shall become null and void.

- 4. The applicant must sign and return the Notice of Decision for conditions of approval within ten (10) days of receipt of notification. If the Notice of Decision is not signed and returned within ten (10) days, then the item may be rescheduled for the next Planning Commission meeting for further consideration.
- 5. The applicant shall submit exterior light fixture details for any proposed fixtures with the building permit application. Lights must be shielded with a 90-degree full cutoff so that light is projected downward and not horizontally or upward. Light sources or refractors shall not extend below the bottom of the shield.
- 6. Scheduled testing of the generator shall be scheduled for mid-afternoon on a weekday so as to blend with ambient noise.

LEGAL REQUIREMENTS: Carson City Municipal Code 18.04.185 Public Regional (PR) Conditional Uses

MASTER PLAN DESIGNATION: Public / Quasi-Public

PRESENT ZONING: Public Regional

KEY ISSUES: Will the use be compatible with the surrounding neighborhood and be in keeping with the standards of the Carson City Municipal Code?

SURROUNDING ZONING AND LAND USE INFORMATION:

NORTH: Public Regional / Fire Station SOUTH: Public Regional / Flood Control

EAST: Single Family 12 Planned Unit Development / Single Family Residential

WEST: Conservation Reserve / Land owned by the State of Nevada

ENVIRONMENTAL INFORMATION:

FLOOD ZONE: Zone X

EARTHQUAKE FAULT: Beyond 500 feet

SLOPE/DRAINAGE: Flat

SITE DEVELOPMENT INFORMATION:

LOT SIZE: 84.87 acres

EXISTING LAND USE: college

PREVIOUS REVIEWS:

SUP-05-089 – Baseball field and support facilities (Phase 2)

SUP-05-035 – Baseball Stadium

SUP-04-169 - Well

AB-01/02-1 – ROW Abandonment (North property line of 2201 W College Pkwy)

M-01/02-1 – Master Plan review of college

U-00/01-33 - Library and Student Center

U-00/01-4 – Additional facilities for Astronomy and Science programs

DISCUSSION:

Per CCMC 18.04.185, a municipal well facility is a conditional use in the Public Regional zoning

LU-2020-0024 Well Generator College Parkway Planning Commission September 30, 2020 Page 3

district and may only be established with a Special Use Permit. The municipal well use is established. The applicant is now seeking to add an emergency generator to the site. The generator will be 14-feet, 10-inches long by 6-feet, 9-inches wide by 9-feet, 4-inches tall. The addition of the generator requires a modification to the special use permit. The Planning Commission is authorized to approve a modification to a special use permit.

Of note, on August 17, 2017, the Board of Supervisors voted 5-0 to submit a grant application to the Nevada Division of Emergency Management for emergency generators and booster pumps as part of the hazard mitigation grant program. The scope of the grant application, as approved by the Board Supervisors, was for the purchase and installation of four emergency generators in order to provide backup power to critical well facilities and one lift station. The locations where the generators are proposed are:

1881 Winnie Lane 4675 East Fifth Street 603 Marsh Road 2201 West College Parkway

The Planning Commission approved the special use permit for the generator on Winnie Lane at its July 2020 meeting. In addition to the subject request, the requests for the generators on East Fifth Street and Marsh Road are on the Commission's September 2020 agenda for consideration.

The facilities where the generators are proposed were determined based on an analysis of the potential damages for loss of water service. A power outage at the subject well 55 would impact water service to 39,121 people as well as businesses.

The well site is located in the eastern portion of Western Nevada College, to the east of the driveway. The well site is screened from residences to the east by a solid fence.

PUBLIC COMMENTS:

Public notices were mailed to 180 property owners within 900 feet of the subject site on September 11, 2020. As of the writing of this report, staff has not received any written comments. Any comments that are received after this report is completed will be submitted to the Planning Commission prior to or at the meeting on September 30, 2020 depending on the date of submission of the comments to the Planning Division.

OTHER CITY DEPARTMENTS OR OUTSIDE AGENCY COMMENTS:

Plans were routed to commenting agencies, and the following comments were received. Comments have been incorporated into the conditions of approval, as appropriate.

Engineering Division

The Engineering Division has reviewed the application within our areas of purview relative to adopted standards and practices and to the provisions of CCMC 18.02.080, Conditional Uses. The Engineering Division offers the following discussion:

C.C.M.C. 18.02.080 (5a) - Master Plan
The request is not in conflict with any Engineering Master Plans.

C.C.M.C. 18.02.080 (5b) - Use, Peaceful Enjoyment, Economic Value, Compatibility

Development Engineering has no comment on this finding.

C.C.M.C. 18.02.080 (5c) - Traffic/Pedestrians
The use has no impact on vehicle or pedestrian traffic.

C.C.M.C. 18.02.080 (5d) - Public Services
The use improves the reliability of the City's water system.

C.C.M.C. 18.02.080 (5e) – Title 18 Standards Development Engineering has no comment on this finding.

C.C.M.C. 18.02.080 (5f) – Public health, Safety, Convenience, and Welfare The project meets engineering standards for health and safety.

C.C.M.C. 18.02.080 (5g) – Material Damage or Prejudice to Other Property Development Engineering has no comment on this finding.

C.C.M.C. 18.02.080 (5h) – Adequate Information The plans and reports provided were adequate for this analysis.

Fire Department

Project must comply with the International Fire Code and northern Nevada fire code amendments as adopted by Carson City.

FINDINGS: Staff's recommendation is based upon the findings as required by CCMC Section 18.02.062 (Special Use Permits) enumerated below and substantiated in the public record for the project.

1. Will be consistent with the master plan elements.

The Water System Master Plan is an integrated planning document that describes existing regulation and legal commitments, water rights, supply sources, storage and distribution infrastructure and characterization of water use. The generator will allow for the distribution of water consistent with the Master Plan during power outages.

2. Will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties or the general neighborhood; and will cause no objectionable noise, vibrations, fumes, odors, dust, glare or physical activity.

The well site is located near the eastern edge of the college campus. The site is currently screened from a residence to the east by a 6-foot solid wooden fence. As part of the operations, the generator will be tested weekly for approximately 30 minutes. At 23 feet away from the source, the decibel level will be 71 decibels. This is essentially the sound of a normal conversation. The back fence of the residential property to the east is 27.6 feet from the proposed generator site. The additional distance and the solid fence will provide for some noise mitigation. But, to prevent the noise from being objectionable, staff recommends a condition of approval that testing be scheduled for a weekday mid-afternoon. This would coincide with a time when ambient noise may be greater than in the morning or evening, thus causing any noise from testing to blend in with the background noise.

3. Will have little or no detrimental effect on vehicular or pedestrian traffic.

The addition of a generator to the site will not create a detrimental effect on vehicular or pedestrian traffic. There will be no change to traffic patterns.

4. Will not overburden existing public services and facilities, including schools, police and fire protection, water, sanitary sewer, public roads, storm drainage, and other public improvements.

The addition of an emergency generator will not overburden, or even create a demand on public services or facilities. It will allow for more reliable water delivery during times of power outages.

5. Meets the definition and specific standards set forth elsewhere in this title for such particular use and meets the purpose statement of that district.

The subject property is zoned for Public Regional (PR). The purpose of the PR zoning district is for Federal, state and city facilities and uses whose main purpose is to sustain wide regional need. A municipal well facility is a conditional use in the PR zoning district. In the PR zoning district, setbacks and heights are determined as part of the special use permit. As conditioned, staff find that the proposed use meets the purpose statement and definition and standards of the district.

6. The use will not be detrimental to the public health, safety, convenience and welfare.

The emergency generator will not be detrimental to public health, safety, convenience and welfare. Rather, the proposed generator will promote public health and safety by ensuring the availability of water during electricity outages.

7. Will not result in material damage or prejudice to other property in the vicinity.

The proposed emergency generator, subject to the conditions of approval, will not result in material damage or prejudice to other property in the vicinity. As noted, staff was concerned with noise impacts. But with a condition limiting scheduled testing to mid-afternoon on a weekday, staff finds there will not be material damage.

Attachments: LU-2020-0024 application



CARSON CITY NEVADA Consolidated Municipality and State Capital PUBLIC WORKS

July 15th, 2020

Carson City Planning Commission 108 E. Proctor Street Carson City, Nevada 89701

RE: Special Use Permit Project Description – Carson City Municipal Well 55

Carson City Public Works is proposing to install a diesel generator at the City's Municipal Well 55 site. The improvements would include installing a new generator and fuel tank on a concrete pad in the location indicated on the site map. The generator would be approximately 9'-4" tall, 6'-9" wide, and 14'-10" long. The generator will be housed inside a white, level 2, sound attenuating enclosure. The proposed generator will provide emergency backup power to Well 55.

Carson City has received a grant through the Nevada Department of Emergency Management (NDEM) which funds the installation of emergency generators at four critical well facilities in the City. Well 55 was identified as one of the critical facilities and has the potential to impact 39,000 people in the event of a power outage. Installation of the portable generator will provide resiliency against outages and better service to the residents of Carson City.

If you have any questions, please feel free to call or email me.

Sincerely.

Darren Anderson, P.E.

Project Manager

Carson City Public Works danderson@carson.org

100 - 0 1 01 1 0 01	NV 00704	FOR OFFICE USE ONLY:	
108 E. Proctor Street · Carson City NV 89701 Phone: (775) 887-2180 • E-mail: planning@carson.org		CCMC 18.02.080	
		SPECIAL USE PERMIT	
FILE # LU - 2020 -	0024	FEE*: \$2,450.00 MAJOR	
APPLICANT	PHONE #	\$2,200.00 MINOR (Residential	
Carson City Public Works	283-7584	zoning districts)	
MAILING ADDRESS, CITY, STATE, ZIP		+ noticing fee *Due after application is deemed complete by	
3505 Butti Way, Carson C	City, NV, 89701	staff	
danderson@carson.org		□ SUBMITTAL PACKET – 4 Complete Packets (1 Unbound Original and 3 Copies) including:	
PROPERTY OWNER	PHONE #	□ Application Form	
Carson City	887-2000	□ Detailed Written Project Description □ Site Plan	
MAILING ADDRESS, CITY, STATE, ZIP		□ Building Elevation Drawings and Floor Plans □ Special Use Permit Findings	
201 N. Carson St., Carson	n City, NV, 89701	□ Master Plan Policy Checklist	
EMAIL ADDRESS	000 7504	 Applicant's Acknowledgment Statement Documentation of Taxes Paid-to-Date 	
danderson@carson.org	283-7584	Project Impact Reports (Engineering)	
APPLICANT AGENT/REPRESENTATIVE	PHONE #	□ CD or USB DRIVE with complete application in PDF	
Darren Anderson	283-7584	Application Received and Reviewed By:	
mailing adress, city state, zip 3505 Butti Way, Carson C	Sity NIV 20701		
EMAIL ADDRESS	ity, 14 v , 09 i 0 i	Submittal Deadline: Planning Commission application	
EMAIL ADDRESS		submittal <u>schedule</u> .	
danderson@c	arson.org	Note: Submittals must be of sufficient clarity and detail for all departments to adequately review the request. Additional information may be required.	
Project's Assessor Parcel Number(s):	Street Address	mioniauon may be required.	
00752101	2201 West College	Parkway	
00702101		•	
Project's Master Plan Designation	Project's Current Zoning	Nearest Major Cross Street(s)	
Project's Master Plan Designation Public Regional	Project's Current Zoning PR	Nearest Major Cross Street(s) College Drive	
Public Regional	PR	College Drive	
Public Regional Please provide a brief description of your proportion Carson City Public Works is proposing to pla	PR osed project and/or proposed use by ce an emergency backup generator	College Drive elow. Provide additional pages to describe your request in more detail. or at the City's Well 55 site. The City received a FEMA grant to place	
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STATEMENT OF FINDINGS

APPLICATION FOR SPECIAL USE PERMIT

WELL 55 EMERGENCY GENERATOR PROJECT

Question 1: Will be consistent with the objectives of the Master Plan elements.

Installation of the emergency backup generator at Well 55 will be in accordance with Carson City's Master Plan. The generator will help the City to continue to operate the site as it is currently operated. The generator will match the facility and equipment located at the site.

The generator will be constructed of long lasting, rust resistant materials and be housed in a neutral colored, level 2, sound attenuating enclosure.

Completion of the project will allow the City to continue to provide a satisfactory level of service to those connected to the City's water system and help to maintain good quality of life for residents. Installation of the emergency backup generator with help sustainability of our community by adding reliability to the City's water system.

Question 2: Will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties or the general neighborhood; and is compatible with and preserves the character and integrity of adjacent development and neighborhood or includes improvements or modifications either on-site or within the public right-of-way to mitigate development related to adverse impacts such as noise vibrations, fumes, odors, dust, glare or physical activity.

Well 55 is one of Carson City's better producing wells, producing approximately 1,000 gpm. Additionally, Well 55 is located such that water from Well 55 can be moved anywhere in the City.

The site is generally surrounded by large publicly owned parcels (Western Nevada Community College) with single family 12,000 sq ft homes located to the east. The installation of the emergency backup generator will not be detrimental to the use, peaceful enjoyment, economic value, or development of surrounding properties due to the use of the site not changing and the new generator matching the existing facility and equipment.

Adjacent properties:

Public Regional (PR) and Conservation Reserve (CR) to the west

Public Regional (PR) to the south and north

Single Family 12,000 (SF12P) to the east

Question 3: Will have little or no detrimental effect on vehicular traffic or pedestrian traffic.

The project will have no effect on vehicular or pedestrian traffic.

<u>Question 4</u>: Will not overburden existing public services and facilities, including schools, police and fire protection, water, sanitary sewer, public roads, storm drainage and other public improvements.

The project will help improve the public water system and service. Installation of an emergency generator at Well 55 will provide increased reliability of the water system.

<u>Question 5</u>: Meets the definition and specific standards set forth elsewhere in Carson City Municipal Code, Title 18 for such particular use and meets the purpose statement of that district.

A municipal well is a conditional use for parcels Located in PR district. The proposed improvements will help the City to continue to use the site as a municipal well facility as has been previously approved.

Question 6: Will not be detrimental to the public health, safety, convenience and welfare.

This project will help to improve public health, safety, convenience and welfare by providing improved reliability of water from the Well 55 site.

<u>Question 7</u>: Will not result in material damage or prejudice to other property in the vicinity, as a result of proposed mitigation measures.

The use of the land will not vary from how it has been previously used. The site will continue to be used as a municipal well facility with the proposed improvements. The well will operate during power outages if the well is in operation at the time of the outage and on a scheduled maintenance startup frequency of once a week for 30 minutes. The maintenance startup will be scheduled during daytime weekday hours to minimize disturbance to neighbors.

ACKNOWLEDGMENT OF APPLICANT

I certify that the forgoing statements are true and correct to the best of my knowledge and belief. I agree to fully comply with all conditions as established by the Planning Commission. I am aware that this permit becomes null and void if the use is not initiated within one-year of the date of the Planning Commission's approval; and I understand that this permit may be revoked for violation of any of the conditions of approval. I further understand that approval of this application does not exempt me from all City code requirements.

Down Andrew	Darren Anderson	7/27/2020
Applicant's Signature	Print Name	Date

Master Plan Policy Checklist

Special Use Permits & Major Project Reviews & Administrative Permits

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The purpose of a development checklist is to provide a list of questions that address whether a development proposal is in conformance with the goals and objectives of the 2006 Carson City Master Plan that are related to non-residential and multi-family residential development. This checklist is designed for developers, staff, and decision-makers and is intended to be used as a guide only.

Development Name:
Reviewed By:
Date of Review:

DEVELOPMENT CHECKLIST

The following five themes are those themes that appear in the Carson City Master Plan and which reflect the community's vision at a broad policy level. Each theme looks at how a proposed development can help achieve the goals of the Carson City Master Plan. A check mark indicates that the proposed development meets the applicable Master Plan policy. The Policy Number is indicated at the end of each policy statement summary. Refer to the Comprehensive Master Plan for complete policy language.

CHAPTER 3: A BALANCED LAND USE PATTERN



The Carson City Master Plan seeks to establish a balance of land uses within the community by providing employment opportunities, a diverse choice of housing, recreational opportunities, and retail services.

Is or does the proposed development:

		Meet the provisions of the Growth Management Ordinance (1.1d,
		Municipal Code 18.12)?
	√	Use sustainable building materials and construction techniques to promote water and energy conservation (1.1e, f)?
_		
		Located in a priority infill development area (1.2a)?
		Provide pathway connections and easements consistent with the adopted Unified Pathways Master Plan and maintain access to
		adjacent public lands (1.4a)?

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Special Use Permit, Major Project Review, & Administrative Permit Development Checklist

V	Protect existing site features, as appropriate, including mature trees or other character-defining features (1.4c)?
	At adjacent county boundaries or adjacent to public lands, coordinated with the applicable agency with regards to compatibility, access and amenities (1.5a, b)?
	In identified Mixed-Use areas, promote mixed-use development patterns as appropriate for the surrounding context consistent with the land use descriptions of the applicable Mixed-Use designation, and meet the intent of the Mixed-Use Evaluation Criteria (2.1b, 2.2b, 2.3b, Land Use Districts, Appendix C)?
	Meet adopted standards (e.g. setbacks) for transitions between non-residential and residential zoning districts (2.1d)?
	Protect environmentally sensitive areas through proper setbacks, dedication, or other mechanisms (3.1b)?
	Sited outside the primary floodplain and away from geologic hazard areas or follows the required setbacks or other mitigation measures (3.3d, e)?
	Provide for levels of services (i.e. water, sewer, road improvements, sidewalks, etc.) consistent with the Land Use designation and adequate for the proposed development (Land Use table descriptions)?
	If located within an identified Specific Plan Area (SPA), meet the applicable policies of that SPA (Land Use Map, Chapter 8)?
CHAPTER	4: EQUITABLE DISTRIBUTION OF RECREATIONAL OPPORTUNITIES
and recre	on City Master Plan seeks to continue providing a diverse range of park eational opportunities to include facilities and programming for all ages ng interests to serve both existing and future neighborhoods.
Is or does	the proposed development: Provide park facilities commensurate with the demand created and consistent with the City's adopted standards (4.1b)? Consistent with the Open Space Master Plan and Carson River Master

CHAPTER 5: ECONOMIC VITALITY

Plan (4.3a)?



The Carson City Master Plan seeks to maintain its strong diversified economic base by promoting principles which focus on retaining and enhancing the strong employment base, include a broader range of retail services in targeted areas, and include the roles of technology, tourism, recreational amenities, and other economic strengths vital to a successful community.

Is or does the proposed development:

ADOPTED 4.06.06 MASTER PLAN

CARSON CITY

Encourage a citywide housing mix consistent with the labor force and non-labor force populations (5.1j)
Encourage the development of regional retail centers (5.2a)
Encourage reuse or redevelopment of underused retail spaces (5.2b)?
Support heritage tourism activities, particularly those associated with historic resources, cultural institutions and the State Capitol (5.4a)?
Promote revitalization of the Downtown core (5.6a)?
Incorporate additional housing in and around Downtown, including lofts, condominiums, duplexes, live-work units (5.6c)?

CHAPTER 6: LIVABLE NEIGHBORHOODS AND ACTIVITY CENTERS



The Carson City Master Plan seeks to promote safe, attractive and diverse neighborhoods, compact mixed-use activity centers, and a vibrant, pedestrian-friendly Downtown.

Is or does the proposed development:

1063	me proposed development.
	Use durable, long-lasting building materials (6.1a)?
	Promote variety and visual interest through the incorporation of varied building styles and colors, garage orientation and other features (6.1b)?
	Provide variety and visual interest through the incorporation of well-articulated building facades, clearly identified entrances and pedestrian connections, landscaping and other features consistent with the Development Standards (6.1c)?
	Provide appropriate height, density and setback transitions and connectivity to surrounding development to ensure compatibility with surrounding development for infill projects or adjacent to existing rural neighborhoods (6.2a, 9.3b 9.4a)?
	If located in an identified Mixed-Use Activity Center area, contain the appropriate mix, size and density of land uses consistent with the Mixed-Use district policies (7.1a, b)?
	If located Downtown:
	☐ Integrate an appropriate mix and density of uses (8.1a, e)?
	Include buildings at the appropriate scale for the applicable Downtown Character Area (8.1b)?
	Incorporate appropriate public spaces, plazas and other amenities (8.1d)?
	Incorporate a mix of housing models and densities appropriate for the project location and size (9.1a)?

CHAPTER 7: A CONNECTED CITY



The Carson City Master Plan seeks promote a sense of community by linking its many neighborhoods, employment areas, activity centers, parks, recreational

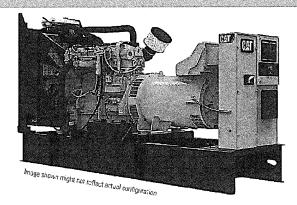


Special Use Permit, Major Project Review, & Administrative Permit Development Checklist

amenities and schools with an extensive system of interconnected roadways, multi-use pathways, bicycle facilities, and sidewalks.

Is or does	the proposed development:
	Promote transit-supportive development patterns (e.g. mixed-use, pedestrian-oriented, higher density) along major travel corridors to facilitate future transit (11.2b)?
	Maintain and enhance roadway connections and networks consistent with the Transportation Master Plan (11.2c)?
	Provide appropriate pathways through the development and to surrounding lands, including parks and public lands, consistent with the Unified Pathways Master Plan (12.1a, c)?





BENEFITS & FEATURES

CAT® GENERATOR SET PACKAGE

Cat generator set packages have been fully prototype tested and certified torsional vibration analysis reports are available. The packages are designed to meet the NFPA 110 requirement for loading, conform to the ISO 8528-5 steady state and fill transient response requirements.

CAT DIESEL ENGINES

The four-cycle Cat diesel engine combines consistent performance with excellent fuel economy and transient response that meets or exceeds ISO 8528-5. The engines feature a reliable, rugged, and durable design that has been field proven in thousands of applications worldwide in emergency standby installations.

COOLING SYSTEM

The cooling system has been designed and tested to ensure proper generator set cooling, and includes the radiator, fan, belts, and all guarding installed as standard. Contact your Cat dealer for specific ambient and altitude capabilities.

GENERATORS

The generators used on Cat packages have been designed and tested to work with the Cat engine. The generators are built with robust Class H insulation and provide industry-leading motor starting capability and altitude capabilities.

EMCP CONTROL PANELS

The EMCP controller features the reliability and durability you have to come to expect from your Cat equipment. The EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

200 ekW- 300 ekW

60 Hz

Standby	Prime	
 200ekW	180ekW	
250ekW	225ekW	
300ekW	275ekW	

SPECIFICATIONS

ENGINE SPECIFICATIONS

Engine Model	Cat® C9 ACERT In-line 6, 4-cycle diesel
Bore x Stroke	112mm x 149mm (4.4in x 5.9in)
Displacement	8.8 L (538 in³)
Compression Ratio	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4
Emission Certifications	EPA Tier 3 - EPA Stationary Emergency

GENERATOR SET SPECIFICATIONS

Alternator Design	Brushless Single Bearing, 4 Pole
Stator	2/3 Pitch
No. of Leads	12
Available Voltage Options	600V/480V/240V/208V
Frequency	60Hz
Alternator Voltage	24V
Alternator Insulation & IP	Class H; IP23
Standard Temperature Rise	150 Deg C
Available Excitation Options	Self-Excited, AR
Voltage Regulation, Steady State +/-	≤0.5%

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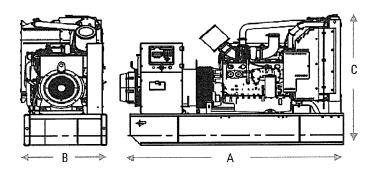
STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

Air inlet system	Aftercooler core, Turbocharger.		STD AIR CLEANER
Control panels	EMCP4.2 control panel.	Air inlet system	Single Element Air Cleaner
	Coolant drain line with valve; terminated on edge of base.	All linet system	Dual Element Air Cleaner
	Fan and belt guards.		EMCP 4.4
7 - 1	Coolant Level Sensor		
Cooling system	Thermostats and housing, full open temperature 92 deg C (198 deg F).	Control panels	Local & Remote Annunciator Discrete I/O Module
	Coolant level sight gauge. Jacket water pump, gear driven, centrifugal.		Power terminal strips- 800A & 600A
Exhaust system	Exhaust manifold; dry.		3-Pole 100% Rated- Single (Manual & Motorised)
	Primary fuel filter w/integral water separator & secondary filter.	Circuit Breakers	3-Pole 100% Rated- Dual (Manual)
	Separator & Secondary Inter.		3-Pole 100% Rated- Third (Manual)
Fuel system	Fuel priming pump.		External Paralleling
	Flexible fuel lines.	cash with hidden and contain the property of the contain the conta	Weather Protective
	Engine fuel transfer pump.	Enclosures	Sound Attenuated
	Brushless, self-excited 2/3 pitch, random wound.		Aluminium Enclosures
Generators and	IP23 Protection.		
generator	Insulation Class H and temperature rise	Cooling system	Stone guards.
attachments	Power center, IP22 bottom cable entry		Industrial grade (10 dBA)
	Segregated low voltage wiring panel	Exhaust system	Residential and Critical grade (25 dBA)
Governing system	Cat Electronic Governor (ADEM A4).		Industrial grade (10 dBA)
	Oil cooler.	Fuel storage	Sub Tank & Integral tank Bases
	Lubricating oil.		Space heater control
Lube system	Oil filter and dipstick.	Generators and	Opace licater control
	Oil drain lines with valve; piped to edge of base.	generator attachments	Permanent magnet generator
	- Fumes disposal; piped to front of radiator.	Mounting system	Captive linear vibration isolators
Starting/charging system	24-volt electric starting motor.	Starting/charging	Battery Chargers
	24V, 45 amp charging alternator.	system	Jacket Water Heater
Conomi	Paint, Caterpillar Yellow.		
General	Vibration damper.	General	Tool Set.



WEIGHTS & DIMENSIONS



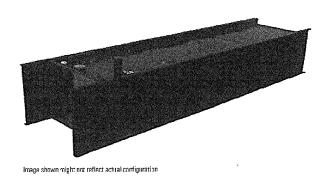
Genset Package		Dim "A"	Dim "B"	Dim "C"	Open Generator Set Weight (Dry) ¹	Maximum Weight (Dry) ²
Standby	Prime	mm (in)	mm (in)	mm (in)	kg (lb)	kg (lb)
200 ekW	180 ekW	3091 (122)	1622 (64)	2066 (82)	2157 (4755)	2692 (5935)
250 ekW	225 ekW	3091 (122)	1622 (64)	2066 (82)	2248 (4956)	2692 (5935)
300 ekW	275 ekW	3091 (122)	1622 (64)	2066 (82)	2313 (5100)	2908 (6411)

¹Estimated weight includes standard generator, narrow skid base and heaviest mechanically operated standard single circuit breaker.

²Estimated weight includes oversize generator, wide skid base and heaviest circuit breaker configuration.

Cat® C9 INTEGRAL & SUB BASE FUEL TANKS





WEATHER PROTECTIVE & SOUND ATTENUATED FUEL TANKS

FEATURES

UL Listed for United States (UL 142) and Canada (CAN/ULC S601)

- Facilitate compliance with NFPA 30 code, NFPA 37 and 110 standards and CSA C282 code.
- Dual wall
- Lockable fuel fill cap, 4" (101.6mm) NPT
- Low fuel level warning standard, customer configurable warning or shutdown Primary tank leak detection switch in containment basin.
- Tank design provides capacity for thermal expansion of fuel
- Fuel supply dip tube is positioned so as not to pick up fuel sediment
- Fuel return and supply dip tube is separated by an internal baffle to prevent immediate re-supply of heated return fuel
- Pressure washed with an iron phosphate solution
- Interior tank surfaces coated with a solvent-based thinfilm rust preventative
- Heavy guage steel gussets with internal lifting rings
- Primary and secondary tanks are leak tested at 20.7 kPa
 (3 psi) minimum
- Compatible with open packages and enclosures
- Gloss black polyester alkyd enamel exterior paint
- Welded steel containment basin (minimum of 110% of primary tank capacity)
- Direct reading fuel gauge with variable electrical output
- Emergency vents on primary and secondary tanks are sized in accordance with NFPA 30

Sub Base

 The sub-base fuel tank mounts below the generator set wide base

Integral Base

- Integral diesel fuel tank is incorporated into the generator set base frame.
- Robust base design includes linear vibration isolators between tank base and engine generator.

Options

- Audio/visual fuel level alarm panel
- 5gal (18.9 L) spill containment
- 5gal (18.9 L) spill containment with fuel fill drop tube with in 6" (152mm) from bottom of tank.
- 5gal (18.9 L) spill containment with overfill prevention valve and fuel fill drop tube with in 6" (152mm) from bottom of tank
- ULC Listed 7.5gal (28.4 L) spill containment with vent extensions, vent whistle, and drop tube facilitating compliance with CSA B139-09.
- ULC Listed 7.5gal (28.4 L) spill containment with overfill prevention valve, vent extensions, vent whistle and drop tube facilitating compliance with CSA B139-09

Cat® C9 INTEGRAL & SUB BASE FUEL TANKS



Integral & Sub-Base Fuel Tank Base Capacities with Fuel Tank Dimensions & Weights

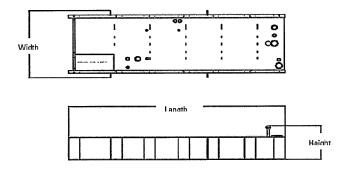
Integral - Width (W) 2014 mm (79.3 in); Sub-base - Width (W) 2056 mm (81.0 in)

Open Set, Weather Protective Enclosure & Sound Attenuated

		Τ	otal	Tank Only Useable						0\	erall P	ackage	Heigh	t with T	ank		
C9 Tank Design	Feature Code		acity		acity	Ē.	ry ight		ight H'	Leng	ıth 'L'	Op	en		ether ective		und nuated
Design	manufacturant in constitution of the constitut	Litr e	Gallo n	Litr e	Gallo n	kg	lb	m m	in	mm	in	mm	in	mm	in	mm	in
Integra I	FTDW010	784	207	770	203	891	1964	635	25.0	3810	150.0	2360	90.0	2438	96.0	2492	98.1
Sub- Base	FTDW008	2476	654	2435	643	1468	3236	635	25.0	3810	150.0	2699	106.3	2777	109.4	2831	111.5
Sub- Base	FTDW009	3941	1041	3876	1024	1832	4039	635	25.0	5550	219.0	2699	106.3	2777	109.4	2831	111.5
Sub- Base	FTDW012	4285	1132	4221	1115	1542	3399	686	27.0	5550	219.0	5550	219.0	2750	108.3	2828	111.4

Estimated Run Times (hours) at 100% Load

C9 Tank	Feature	Sta	ndby Ratings (el	(W)	Prime Ratings (ekW)			
Design	Code	300	250	200	275	225	180	
Integral	FTDW010	9	11	13	10	11	14	
Sub-Base	FTDW008	28	33	42	30	35	46	
Sub-Base	FTDW009	45	53	67	48	56	73	
Sub-Base	FTDW012	48	57	72	52	60	79	



Cat® C9 INTEGRAL & SUB BASE FUEL TANKS



Notes:

The heights listed above do not include lumber used during manufacturing and shipping.

Tanks with full electrical stub-up area include removable end channel. Tanks with RH/LH stub-up include stub-up area directly below the circuit breaker or power terminal strips. Dimensions include weather-protective enclosure exhaust system.

Dual wall sub-base tanks are UL Listed and constructed in accordance with UL Standard for Safety UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids and Canada CAN/ULC S601, Standard for Shop Fabricated Steel Aboveground Horizontal Tanks for Flammable and Combustible Liquids.

Fuel tanks and applicable options facilitate compliance with the following United States NFPA Code and Standards:

NFPA 30: Flammable and Combustible Liquids Code

NFPA 37: Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines NFPA 110: Standard for Emergency and Standby Power Systems

Fuel tanks and applicable options facilitate compliance with the following Canadian Standard and Code:

CSA C282 — Emergency Electrical Power Supply for Buildings CSA B139-09 — Installation Code for Oil-Burning Equipment

The following sub-base fuel tanks meet Chicago code for containment and labelling:

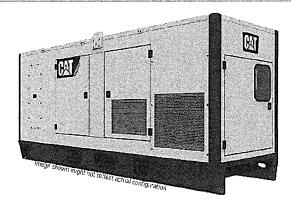
FTDW008 FTDW009

FTDW012

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Cat® C9 ENCLOSURES





SOUND ATTENUATED & HIGH AMBIENT ENCLOSURES

60 Hz

These Sound Attenuated & High Ambient, factory installed enclosures incorporate internally mounted super critical level silencers and residential level silencers respectively, designed for safety and aesthetic value on integral fuel tank base or optional dual wall integral fuel tank base for total fluid containment. These enclosures are of extremely rugged construction to withstand exposure to the elements and provide weather protection.

FEATURES

Robust/Highly Corrosion Resistant Construction

- · Factory-installed on skid base
- · Environmentally friendly, polyester powder baked paint
- · Zinc plated or stainless steel fasteners.
- Internally mounted-critical exhaust silencing system (sound attenuated only)
- · Externally front-mounted enclosed exhaust
- silencing system (weather protective only)
- Designed and tested to comply with UL 2200 listed generator set package.
- · Compression door latches providing solid door seal

Excellent Access

- · Large cable entry area for installation ease.
- · Accommodates side-mounted single or multiple breakers
- · Two doors on both sides
- Vertically hinged allow 180° opening rotation and retention with door stays.
- Lube oil and coolant drains routed to the exterior of the enclosure base.

Transportability

- These enclosures are of extremely rugged construction to withstand outdoor exposure and rough handling common on many construction sites.
- Security and Safety
- Lockable access doors which give full access to control panel and breaker.
- · Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill, and battery can only be reached via lockable access.
- · Externally mounted emergency stop button
- · Designed for spreader bar lifting to ensure safety
- Stub-up area is rodent proof.

Options

- · Caterpillar yellow* or white paint
- Weather protective enclosure constructed with14-gauge steel
- · Sound attenuated Level 1 constructed with 14-gauge steel
- · Sound attenuated Level 2 constructed with 14-gauge steel
- Sound attenuated enclosure constructed with 12-gauge aluminum (5052 grade)
- UL Listed 203 gallon integral fuel tank
- · UL Listed 660 or 1002 gallon sub base fuel tanks
- Seismic certification per applicable building codes:
 - IBC 2000, IBC 2003, IBC 2006,
 - IBC 2009, IBC 2012, CBC 2007, CBC 2010
- · IBC certification for 150 mph wind loading
- Anchoring details are site specific and are dependent on many factors such as generator set size, weight and concrete strength.
- IBC certification requires that the anchoring system used is reviewed and approved by a professional engineer.
- · Control panel viewing window**
- Cold weather bundle. Available with SA Level 2 and Aluminum SA enclosures only.

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^{**}Not available with aluminum enclosures

^{**}Steel sound attenuated only

Cat® C9 ENCLOSURES



Enclosure Package Operating Characteristics

-		COOLING AIR FLOW AMBIENT CAPABILITY*							
ENCLOSURE	STANDBY	PRIME	R	RATE S		ndby	Pr	ime	(DBA) @ 7M (23 FT)
TYPE	ekW	ekW	m³/min	cfm	°C	°F	°C	°F	AT 100% LOAD
SOUND	300	275	351	12395	46	115	50	122	71
ATTENUATED	250	225	351	12395	53	127	56	133	71
LEVEL 2	200	180	351	12395	59	138	60	140	71
SOUND	300	275	351	12395	46	115	50	122	75
ATTENUATED	250	225	351	12395	53	127	56	133	74
LEVEL 1	200	180	351	12395	59	138	60	140	73
	300	275	516	18222	49	120	52	126	82
WEATHER PROTECTIVE	250	225	516	18222	55	131	59	138	82
	200	180	516	18222	60	140	60	140	82
ALUMINUM	300	275	351	12395	46	115	46	115	72
SOUND	250	225	351	12395	53	127	56	133	72
ATTENUATED	200	180	351	12395	59	138	60	140	72

^{*}Cooling system performance at sea level. Consult your Caterpillar dealer for site specific ambient and altitude capabilities.

The sound pressure level data shown in the tables above is quoted as free field and is for guidance only. Actual levels produced may vary according to site conditions.

Component Weights to Calculate Package Weight

				Steel Enclosure					Aluminum Enclosure		
Narrow Skid		Wide			Weather Sound Sound Protective Attenuated Level 1 Attenuated Level 2				Sound A	attenuated	
kg	lb ·	kg	lb	kg	lb	kg	lb	kg	kg lb		lb
219	483	468	1032	660	1455	1062	2341	1062	2341	629	1387

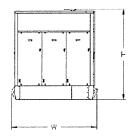
LEHE1567-00 8/10

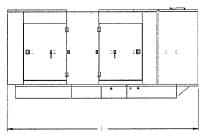
Cat® C9 enclosures



Enclosure Weights and Dimensions

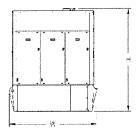
A. Enclosure on Skid Base

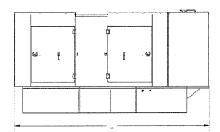




Enclosure Type	Leng	th "L"	Widtl	n "W"	Heigh	nt "H"
- , -	mm	in	mm	in	mm	in
Sound Attenuated	4515	177.8	2037	80.2	2196	86.5
Weather Protective	4035	158.9	2037	80.2	2142	84.3

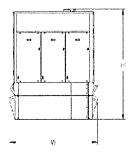
C. Enclosure on UL Listed 203 Gallon Integral Fuel Tank Base

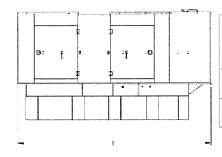




Enclosure Type	Leng	th "L"	Widt	n "W"	Heigl	nt "H"
	mm	in	mm	in	mm	in
Sound Attenuated	4515	177.8	2014	79.3	2492	98.1
Weather Protective	4035	158.9	2014	79.3	2438	96.0

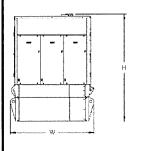
B. Enclosure on UL Listed 660 Gallon Sub Base Fuel Tank Base

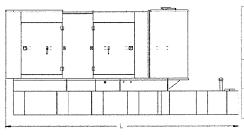




Enclosure Type	Leng	th "L"	Width	1 "W"	Heigh	nt "H"
,,	mm	in	mm	in	mm	in
Sound Attenuated	4515	177.8	2056	80.9	2831	111.5
Weather Protective	4035	158.9	2056	80.9	2777	109.3

D. Enclosure on UL Listed 1002 Gallon Sub Base Fuel Tank Base





Enclosure Type	Leng	th "L"	Width	ı "W"	Height "H"		
- / F -	mm	in	mm	in	mm	in	
Sound Attenuated	5739	225.9	2056	80.9	2831	111.5	
Weather Protective	5739	225.9	2056	80.9	2777	109.3	



EMCP 4 CONTROL KEY FEATURES

EMCP 4 control features

- Run / Auto / Stop Control
- Speed and Voltage Adjust
- Engine Cycle Crank
- 24-volt DC operation
- Environmental sealed front face
- Text alarm/event descriptions

Digital indication for:

- RPM
- DC volts
- Operating hours
- Oil pressure (psi, kPa or bar)
- Coolant temperature
- Volts (L-L & L-N), frequency (Hz)
- Amps (per phase & average)
- ekW, kVA, kVAR, kW-hr, %kW, PF (4.2 only)

Warning/shutdown with common LED indication of:

- Low oil pressure
- · High coolant temperature
- Overspeed
- Emergency Stop
- Failure to start (overcrank)
- Low coolant temperature
- Low coolant level



Programmable protective relaying functions:

- · Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under Frequency (81 o/u)
- Reverse Power (kW) (32) (4.2 only)
- Reverse reactive power (kVAr) (32RV)
- Overcurrent (50/51)

Communications:

- 4 digital inputs & 4 relay outputs (4.1)
- 6 digital inputs & 8 relay outputs (4.2)
- 12 digital inputs & 8 relay outputs (4.4)
- Customer data link (Modbus RTU) (4.2 only)
- Accessory module data link (4.2 only)
- Serial annunciator module data link (4.2 only)
- Emergency stop pushbutton

Compatible with the following:

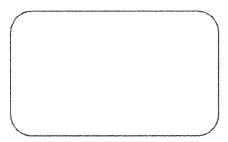
- Digital I/O module
- Local Annunciator
- Remote CAN annunciator
- Remote serial annunciator

FINANCING

Caterpillar offers an array of financial products to help you succeed through financial service excellence. Options include loans, finance lease, operating lease, working capital, and revolving line of credit. Contact your local Cat dealer for availability in your region.

WORLDWIDE PRODUCT SUPPORT

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Caterpillar® SOSSM program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.

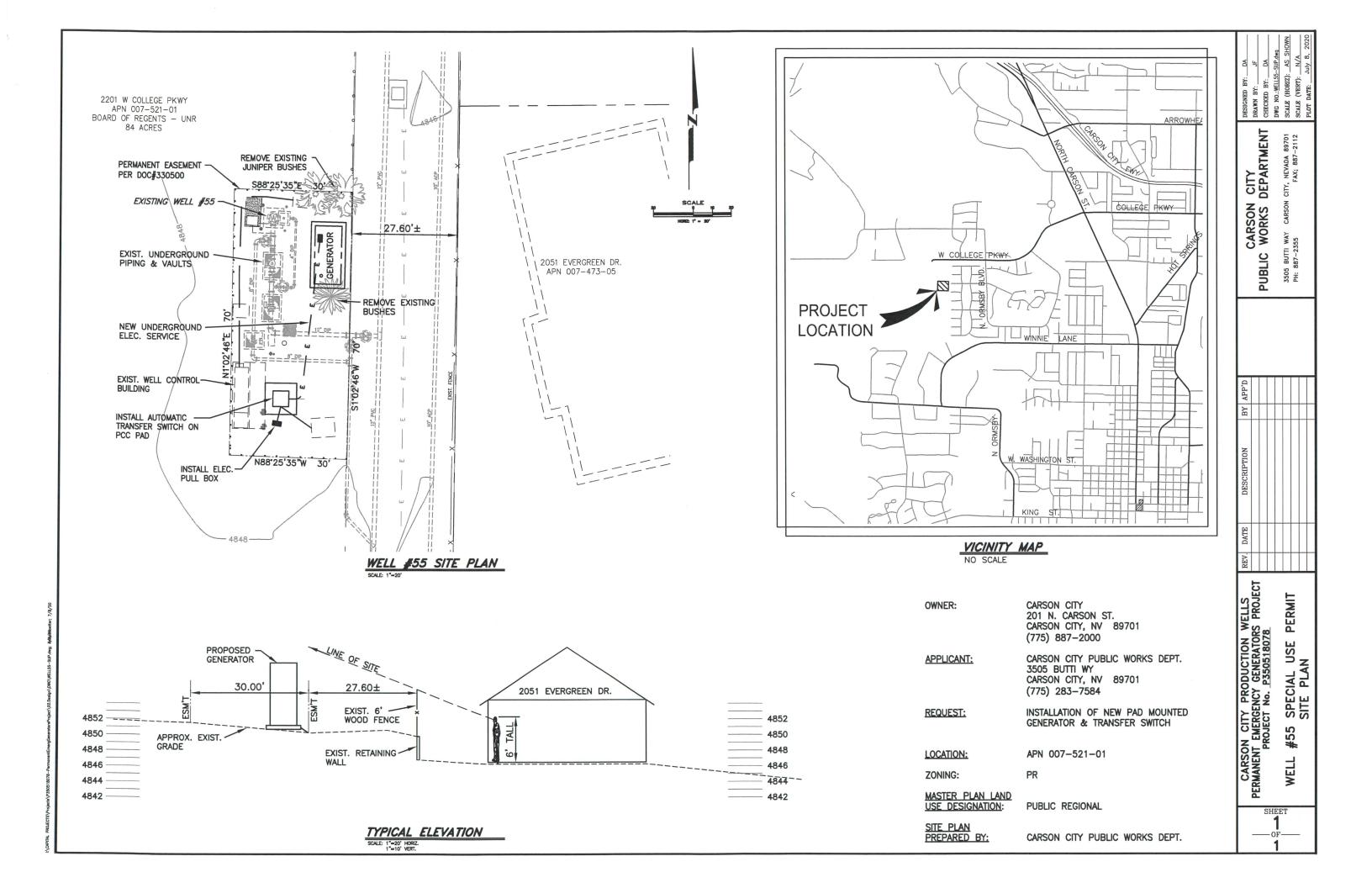


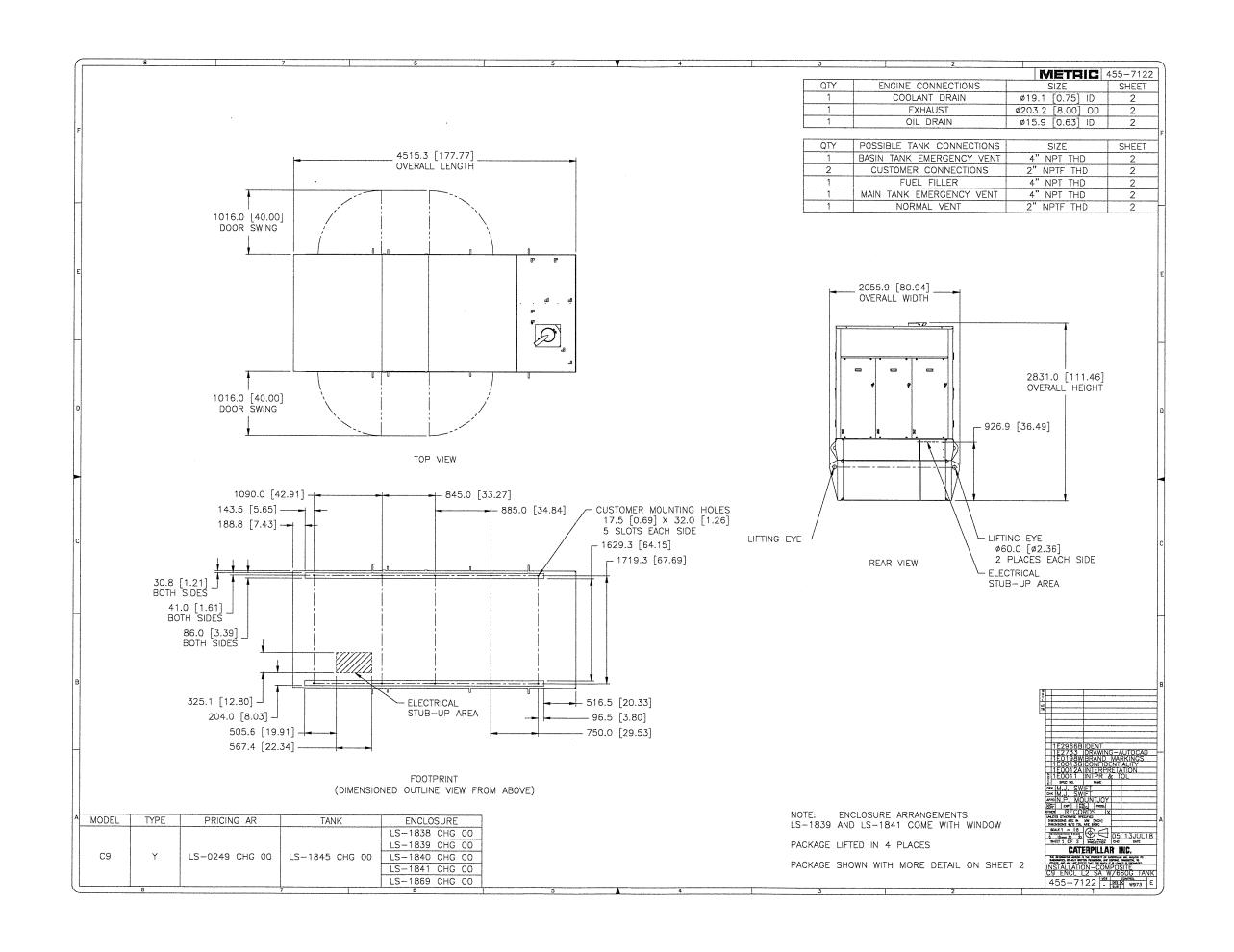
BUILT FOR IT.

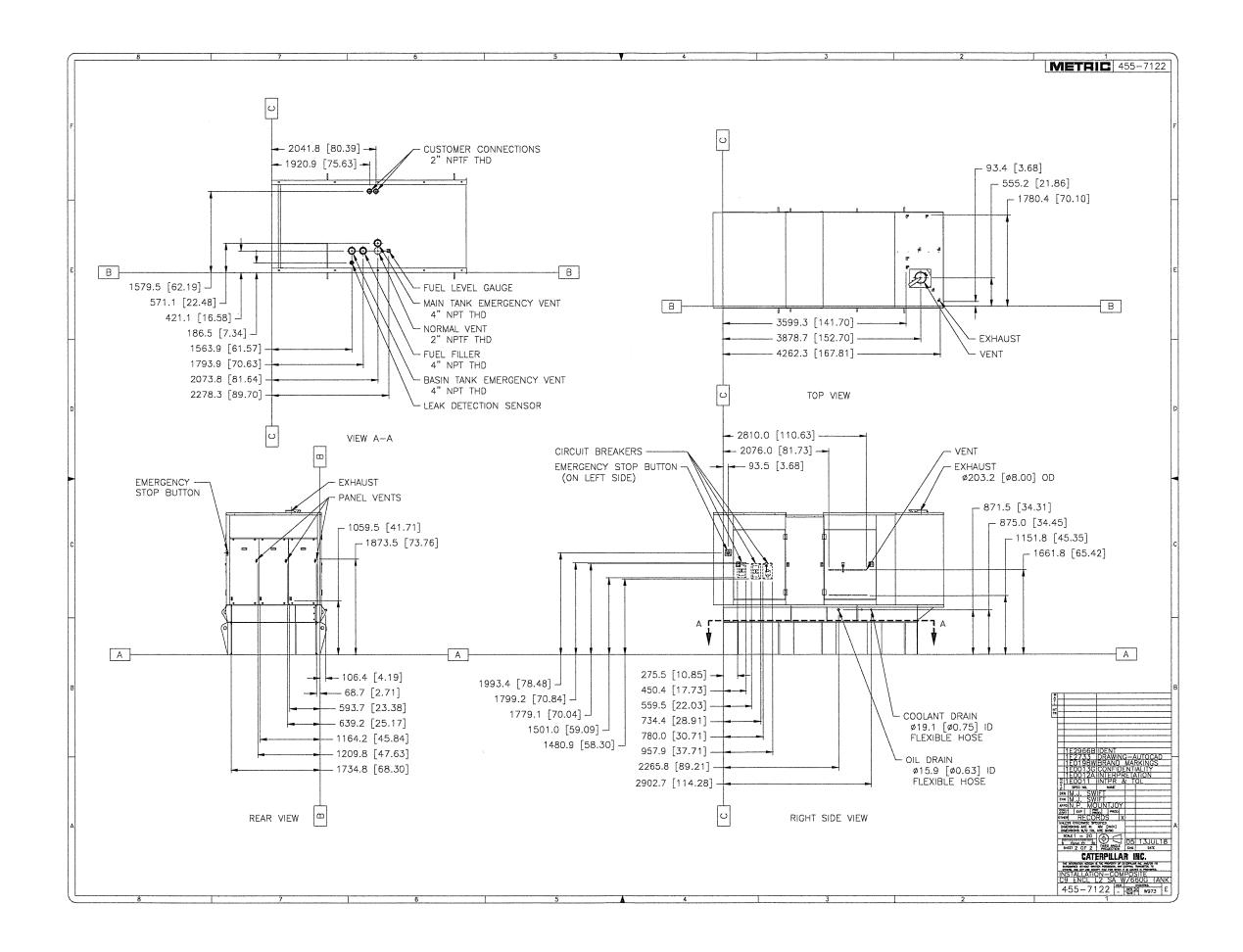
www.Cat.com/electricpower

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CARSON CITY PRODUCTION WELLS PERMANENT EMERGENCY GENERATORS WELL #55 PROJECT

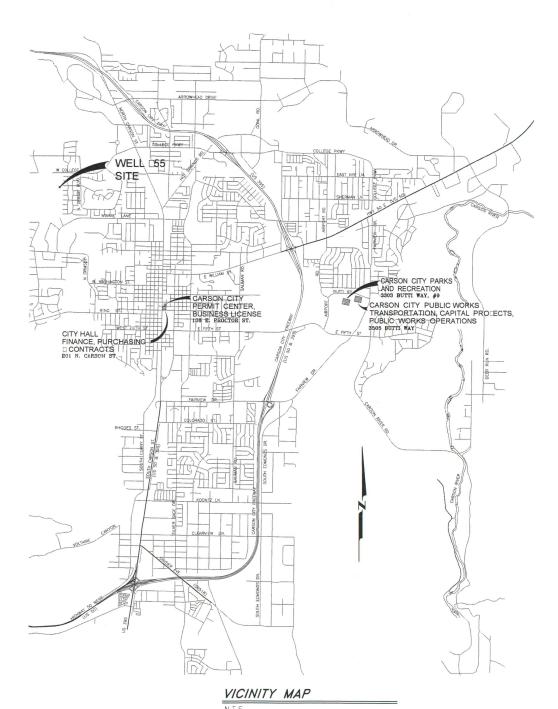
PROJECT P350518078

BOARD OF SUPERVISORS

Robert Crowell Mayor
Stacey Giomi Supervisor
Brad Bonkowski Supervisor
Lori Bagwell Supervisor
John Barrette Supervisor
Aubrey Rowlatt City Clerk

DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT OPERATIONS DIVISION 3505 BUTTI WAY CARSON CITY, NV 89701 887-2355



SHEET INDEX

C1 TITLE SHEET

? WELL #55 SITE PLAN

C3 GENERAL NOTES AND DETAILS

S-1.1 STRUCTURAL SLAB PLAN

E1 ELECTRICAL LEGEND

AND DRAWING SCHEDULE

E2 SHEET SPECIFICATIONS

E3 ELECTRICAL ONELINE DIAGRAMS

E4 DETAILS

DITANA SOSE

DARREN'S.
ANDERSON
SSEED 12/31/20
AC 23728

I CITY DEPARTMENT

CARSON WORKS

DESCRIPTION BY APP'D

RSON CITY PRODUCTION WELLS
NENT EMERGENCY GENERATORS
WELL #55 PROJECT
PROJECT No. P350518078
TITLE SHEET

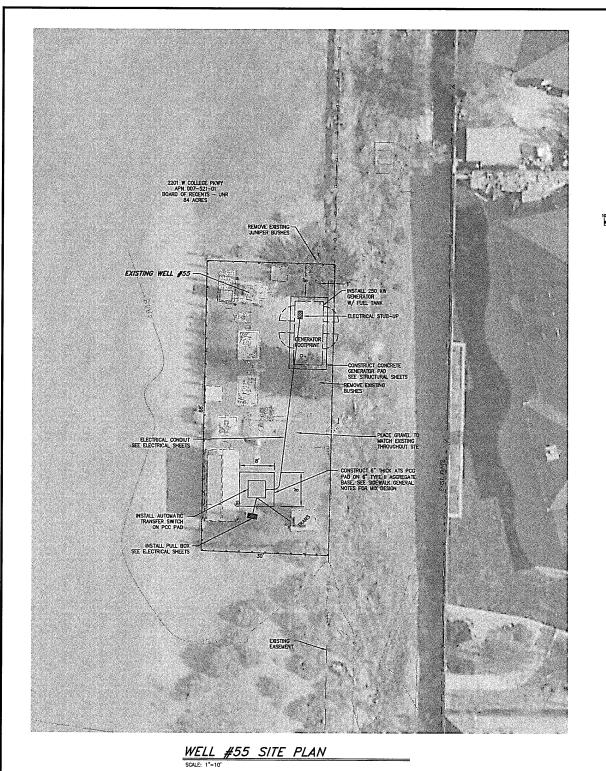
SHEET C1

PLANS

SET

BID





GENERATOR FOOTPRINT - CONST PCC GENERATOR PAD CONDUIT TO ATS -

> WELL #55 SLAB DETAIL SCALE: 1/2"=1"

REFERENCE CODES



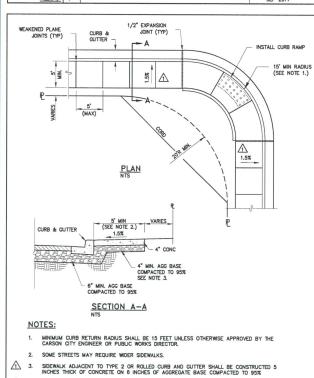
SITE PLAN

WELL #55

CARSON CITY PUBLIC WORKS DEPARTMENT | CITY, NEVADA 89701 | FAX; 887-2112 3505 BUTTI WAY (PH: 887-2355

- ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AS ADDRED BY CARSON CITY. THE CONTRACTOR SHALL GOSTAN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR 1-800-227-2800) AT LEAST TWO (2) MORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF MRS AND MAC 65 THROUGHOUT THE COURSE OF THE WORK, SEMER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
- THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL CINE (1) WORKING DAY PRIOR TO REQUIRED MSPECTIONS AND TESTING. ARE USETED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MIST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SHALL SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE MSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE MSPECTIONS PER THE CONTRACT DOCUMENTS.
- FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND IN WIGKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL COMBINIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPINCY BY THE CARSON CITY SONDERSON DIVISION.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
- 7. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
- PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)
- 9. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIMSION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTION, AND IMPLEMENTION A STORM WATER POLITION PREVENTION FLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2013).
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR LOCATING EXISTING UTILITIES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIEV THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONCILIC WITH HEW UTILITY INSTALLAND, PRIOR TO BEGINNING CONSTRUCTION. POTHOLING IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCES BETWEEN THE CONDITIONS ESTIMATION OF THE PROPOSED FOR SHOULD AND THE ROBORMATION SHOWN OF THE CONSTRUCTION DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OF THE PROPOSED FOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. \triangle
- THE CONTRACTOR WILL BE SOLELY AND COMPLITELY RESPONSELE FOR THE CONDITIONS OF THE JOS STE MICLIDING SAFTY OF ALL PRESONS AND PROFESTY DIBBING PERFORMANCE OF THE MORRY THE ROSIDIREDING MILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORMING OF TREADEDS IN ACCORDANCE HIS CONTRACTOR SHAPE IN AND. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, OR, OR NEAR THE CONSTRUCTION STORY. \triangle
- 12. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLANED ON THE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH PRIVILED REVIEWED AND A

NO.	REVISION NOTE 10,11,12		STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
_			GENERAL NOTES	DRAWING NO. C-1.1.1
ADDDO	VED BY: 28	9/17		DATE SEP 2017



4. SIDEWALK SHALL BE POURED NON-MONOLITHICALY FROM CURB AND GUTTER.

NO. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION CARSON

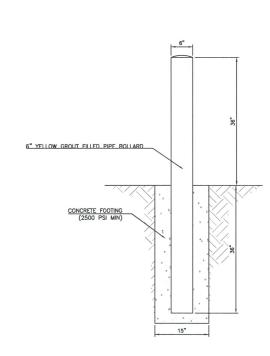
TYPE "A" SIDEWALK

CARSON CITY
DRAWING NO.
C-5.2.2
DATE

SEP 2017

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A WINMAUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH 28 DAYS, MIN SACKS OF CEMENT PER CUBIC YARDS WITH A MAX. WATER/COMENT RATIO OF 0.45, AIR ENTRAINBENT 68 ±1.58, \$1,000 AT 11 TO 4 MONES ALL MARERALS SHALL CONFROIL TO SEPHIC SECTION 202. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- <u>↑</u> 3.
- FORSTRUCTION SUCH AS INLETS, UTILITY POLES, FIRE HYDRAITS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SIPACE OF 4 FEET CLAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHAVE AND A MINIMUM SUFFACE OF 4 FEET CLAR IS REQUIRED WHERE DIRECTION OF TRAVEL MAY CHAVE AND A MINIMUM SUFFACE OF 4 FEET CLAR IS REQUIRED WHERE DIRECTION OF TRAVEL S NOT EXPERTED OF CHAVIOR. UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC MORKS DIRECTION. 1 4.
- 5. ALL CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE AT THE NEAREST CONTROL JOINT.
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- 7. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
- 8. AC PAVEMENT EDGE SHALL BE FLUSH TO 1/4 INCH ABOVE THE LIP OF GUTTER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	NOTE 2,3,4,5,8	9/17		CARSON CITY
			SIDEWALK AND DRIVEWAY	DRAWING NO. C-5.2.1
APPRO	WED BY: BS	9/17	GENERAL NOTES	DATE SEP 2017



PIPE BOLLARD DETAIL

CITY DEPARTMENT

ADA 887 AX:

WAY 55 3505 PH: 8

CARSON WORKS I **PUBLIC** DARREN S. ANDERSON

SUGINEER-S Exp: 12/31/ CIVIL

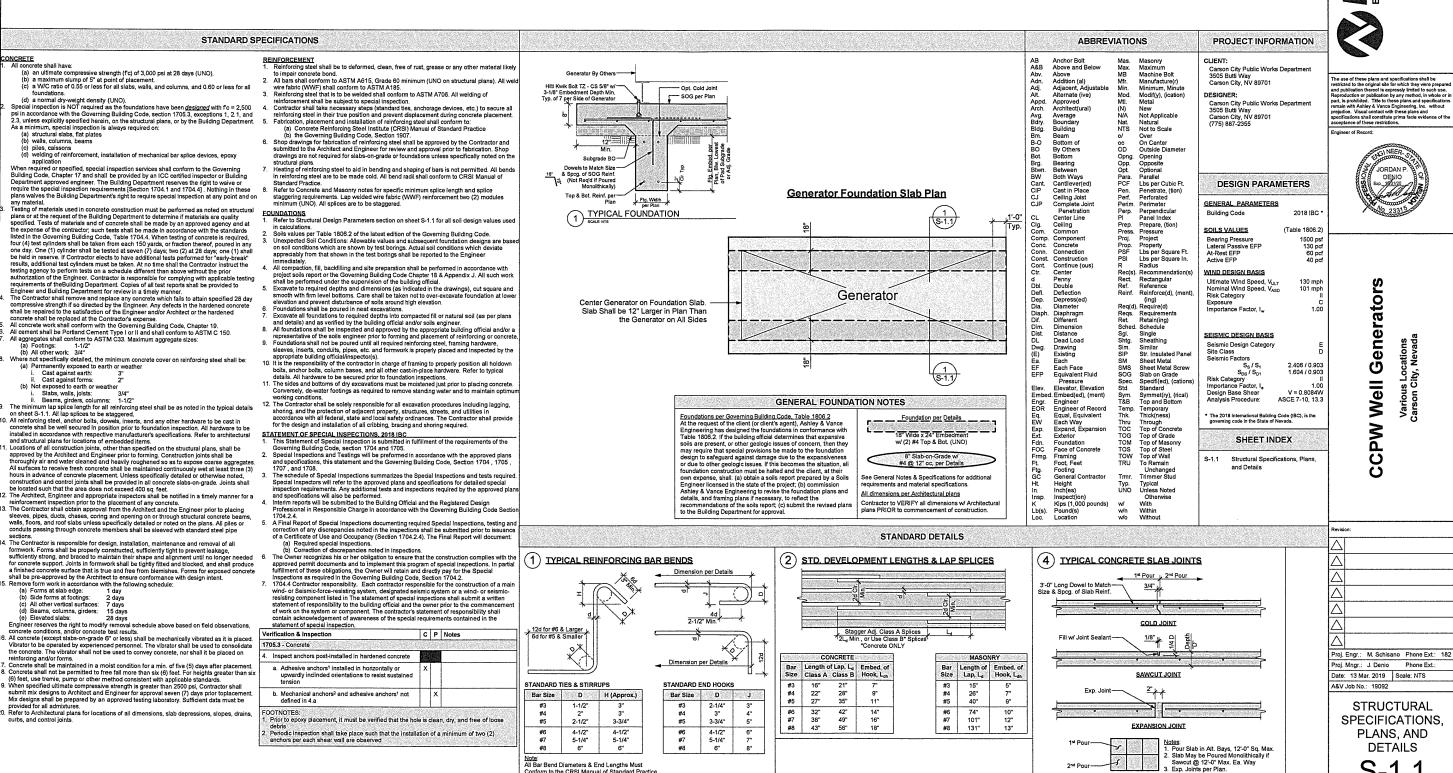
CARSON CITY PRODUCTION WELLS
PERMANENT EMERGENCY GENERATORS
WELL #55 PROJECT
PROJECT No. P350518078
GENERAL NOTES AND DETAILS

C3 8

BID SET |

CCPW Well Generators

Various Locations Carson City, Nevada



Note: All Bar Bend Diameters & End Lengths Must Conform to the CRSI Manual of Standard Practic

gley Lane, Suite 105 Reno, NV 89511 (775) 825-4945

ENGINEERING, INC.

DRAV	VING SCHEDULE	
SHEET	DESCRIPTION	100% FINAL DESIGN 06 FEBRUARY 2020
EI	ELECTRICAL LEGEND & DRAWING SCHEDULE	
E2	SHEET SPECIFICATIONS	0
E3	ELECTRICAL ONELINE DIAGRAMS	•
E4	ELECTRICAL SITE PLAN	0
	TOTAL SHEETS IN ISSUE:	4

ELEC	TRICAL LEGEND		
	TRICAL LEGEND PANELBOARD; SURFACE MOUNTED PANELBOARD; FLUSH MOUNTED SWITCHBOARD OR DISTRIBUTION PANEL TRANSFORMER PULLBOX / VAULT MOTOR STARTER COMBINATION MOTOR STARTER COMBINATION MOTOR STARTER PROVIDED BY OTHERS DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE) DISCONNECT SWITCH - NON-FUSIBLE DISCONNECT SWITCH PROVIDED BY OTHERS VARIABLE FREQUENCY DRIVE ENCLOSED CIRCUIT BREAKER	SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (INO) DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (INO) DUPLEX RECEPTACLE: 1ALF SHITCHED DUPLEX RECEPTACLE: 1ALF SHITCHED DUPLEX RECEPTACLE: 1ALF SHITCHED OUAD RECEPTACLE: 1ALOR MOINTED OUAD RECEPTACLE: 1ALOR MOINTED ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-20(6, +18" AFF (INO) DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF (INO) DUPLEX RECEPTACLE: ABOVE COINTER (VERIFY HEIGHT) SPECIAL PURPOSE RECEPT.: SEE DWGS FOR NEMA CONFIG. DUPLEX RECEPTACLE: CEILING MOINTED DUPLEX RECEPTACLE: ABOVE COINTER (VERIFY HEIGHT) SPECIAL PURPOSE RECEPT.: SEE DWGS FOR NEMA CONFIG. DUPLEX RECEPTACLE: CEILING MOINTED MULTI-OUTLET ASSEMBLY: SPACING PER DWGS DATA / VOICE OUTLET; 18" AFF (INO) - 1 VOICE, 1 DATA POR POLES 2, 3 OR 4 SROUND FAULT INTERRUPTER DEVICE METERING DEVI	A AMPS ADA AMERICANS MITH DISABILITIES ACT AFC ABOVE FINISHED CEILING AFG ABOVE FINISHED FILOUR ALL ALMINIM ATS AUTHORITY HAVING JURISDICTION ATG AUTHORITY HAVING JURISDICTION ATG AUTHORITY FINISHED FINISHED FINISHED BC BARE COPFER BKR BREAKER C CONDUITACEMAY CEC CALIFORNIA ENERGY COMMISSION CKT CIRCUIT CLG CEILING CO CONDUITRACEMAY ONLY CUT COPPER CUT COPPER DE DISTRIBUTION BOARD DISTR
	GROUND ROD SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON REMOTE METER	DATA / VOICE OUTLET: BAPT IND) - T VOICE, I DATA ACK, 2 BLANKS DATA / VOICE OUTLET: FLOOR MOUNTED DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT) DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT) VVV MULTI-OUTLET ASSEMBLY: SPACING PER DWGS WORMALLY CLOSED (NC) CONTACT	(E) EXISTING TO REMAIN ELEC ELECTRICAL EM EMERGENCY EMT ELECTRICAL METALLIC TUBING (F) FUTURE FILA FULL LOAD AMPS FMC FLEXIBLE METAL CONDUIT (STEEL)
S 57 57 57 57 58 58	SINGLE POLE SWITCH 48" AFF (UNO) THREE WAY SWITCH 48" AFF (UNO) FOUR WAY SWITCH 48" AFF (UNO) KEY OPERATED SWITCH 48" AFF (UNO) SMITCH WITH LIGHTED HANDLE MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT 48" AFF (UNO)	TELEPHONE CUTLET: 18* AFF (INC) DATA CUTLET: 18* AFF (INC) SPEAKER TELEVISION CUTLET: 18* AFF (INC) TELEVISION CUTLET: 18* AFF (INC) TELEPHONE TERMINAL BOARD (TTB) VOLUME CONTROL GROUNDING BAR TELEPHONE OVERLOAD	FPEN FUSE PER EQUIP. NAMEPLATE GFI GROND FAULT INTERRUPT GND GROUND FAULT RELAY GND GROUND FAULT RELAY GND GROUND HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO SWITCH HP HORSEPOWER HKKP HOUSEKEEPING INC INTERMEDIATE METAL CONDUIT J-BOX JUNCTION BOX K kmill (GOOK = 300 kcmill) KVA KLOVOLT AMPS
· Sī □ Ŷ ૹ ® • \ @	TIME WALL SWITCH 48" AFF (INO) DIMMER OPERATED SWITCH 48" AFF (INO) OCCUPANCY SENSOR - WALL MOINTED 48" AFF (INO) = 360" OCCUPANCY SENSOR - CEILING MOUNTED. ARRONG INDICATE COVERAGE, DIRECTION \$ PATTERN, PROVIDE WITH POWER PACK PER ### OF REQUIREMENTS.	Description Push button normally open (no)	KM KILOHATT LTG LIGHTING IG SOLATED GROUND MCB MAIN CIRCUIT BREAKER MCM THOUSAND CIRCULAR MILS MFG MANUFACTURER MCD MAIN LIDES ONLY MS MOTOR STARTER MSB MAIN SHITCHBOARD MTS MANUAL TRANSFER SHITCH NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA MATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NIC NOT IN CONTRACT NL NIGHTLIGHT NO NORMALLY OPEN
@ • 	TIMECLOCK CONDUIT/RACEWAY IN WALL OR ABOVE CEILING CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR CONDUIT/RACEWAY UP CONDUIT/RACEWAY DOWN BREAK OR RUN CONTINUES OVERHEAD SERVICE	TRACK LIGHTING TRACK LIGHTING UNIT EMERGENCY LIGHTING UNIT EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARRONG DENOTE DIRECTION EMERGENCY FIXTURE TICS = NO. OF #12 WIRES (INO) IF MORE THAN TWO MITHIN RACEMAY. GROUNDING CONDUCTOR (NOT SHOWN) ALMAYS REQUIRED. THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO) JUNCTION BOX (SIZE AS REQUIRED UNO)	NTS NOT TO SCALE NYE NY ENERGY POLE PHAP PHAP PHAP PTC PANEL PTC PANEL PTC PUSA TEST CONDITIONS PWR POWER (R) RELOCATED RAC RIGID ALIMINUM CONDUIT RFC RIGID FIBERGLASS CONDUIT RFC RIGID STEEL CONDUIT RFC RIGID STEEL CONDUIT RFC RIGID STEEL CONDUIT
-F- -5- -C- -T-	PRIMARY SECONDARY COMMUNICATIONS OR SIGNAL TELEPHONE TELEVISION LOW VOLTAGE AND/OR CONTROL WIRING EMERGENCY CIRCUIT CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)	SHEET NOTE DESIGNATION FI FIXTURE DESIGNATION: FI=TYPE (SEE FIXTURE SCH.) REVISION DELTA: NUMBER REPRESENTS REVISION AHU CONSIDER OF THE POLE CIRCUIT BREAKER CONSIDER OF DESIGNATION BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN): (I) PHASE (I) NEUTRAL AND (I) GROWNDING CONDUCTOR HOMERUN TO PANELBOARD OR DEVICE HA-[1,3,5,8,1]G HOMERUN CIRCUIT DESIGNATION GROWNDING CONDUCTOR NEUTRAL CONDUCTOR (N=I, 2N=2 NEUTRALS, 3N=5 NEUTRALS, 3	SE SERVICE ENTRANCE SPD SINGLE-POLE CITION DEVICE SPDT SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE, SINGLE-THROW STC STANDARD TEST CONDITIONS SW SWITCH TE TELECOM TTB TELECOM TYP TYPICAL UL UNDERWRITER'S LABORATORY UNO ULESS NOTEO OTHERWISE UNSWITCHED UPS WINTERRUPTED POWER SUPPLY V VOLTS VA VOLT AMPS VFD VARIABLE FREQUENCY DRIVE M WATTS
		20A ARC FAULT CIRCUIT BREAKER M = MOTOR M: LARGEST MOTOR CONTROLLABLE CIRCUIT BREAKER K = KITCHEN EQUIP H = ELECTRIC HEAT PANELBOARD DESIGNATION	MP MEATHER PROOF (X) EXISTING TO BE REMOVED XFMR OR XF TRANSFORMER

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS, HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

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CARSON CITY WORKS DEPARTMENT

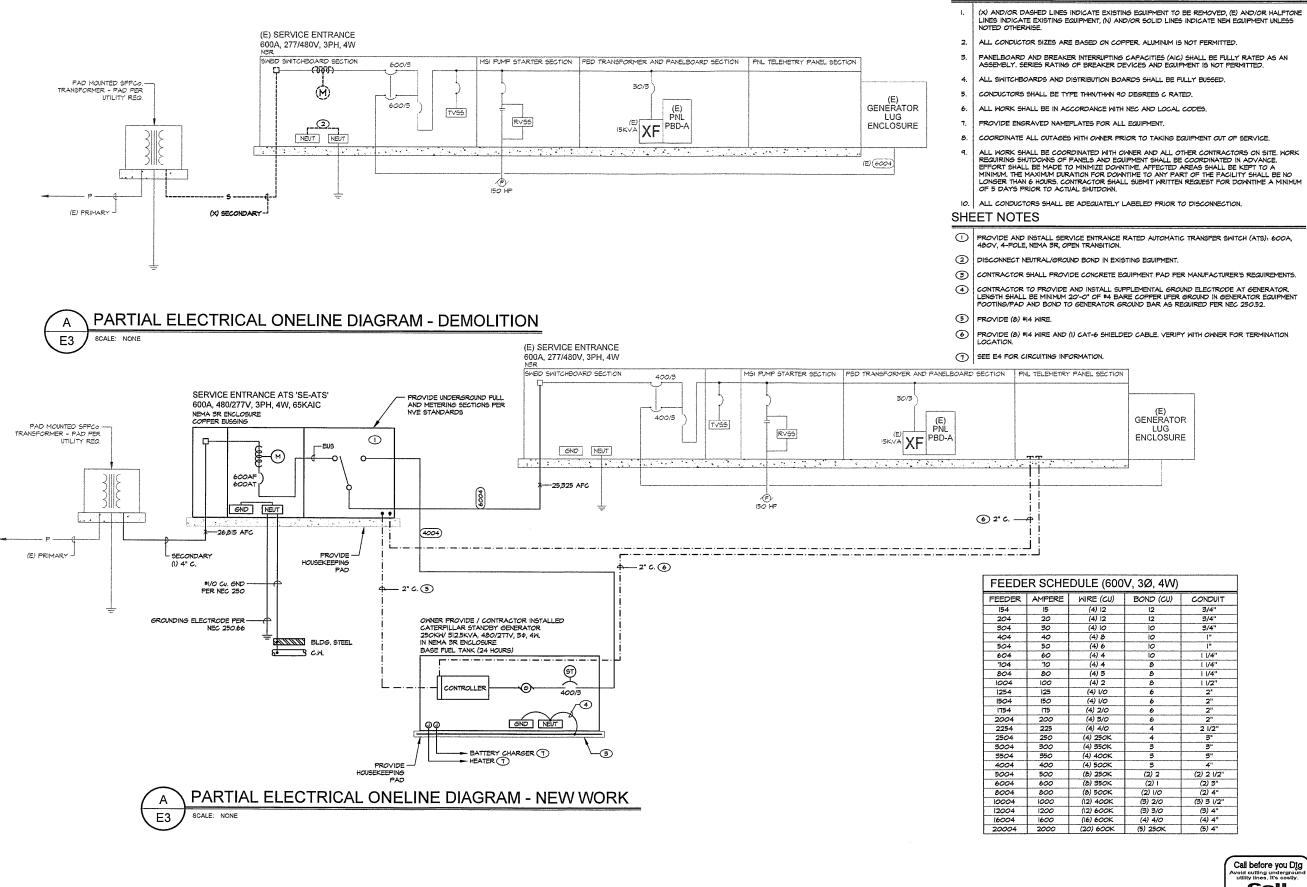
PUBLIC

JOSEPH E.
GANSER,
EXP. 06/30/2

3505 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 887-2355 FAX: 887-2112

681 Sierra Rose Dr., Ste. B | Reno, Nevada 89511 | 775.826.9010 5105 OTC Parkway Suite 420 | Greenwood Village, Colorado 80111 | 720.481.3290 nkelentria (com © 2008-2011 PK Electrica) Ioc.

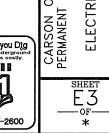
1-800-227-2600





GENERAL NOTES





CITY PRODUCTION WELLS #55
EMERGENCY GENERATORS PROJECT
PROJECT NO. 9.1811
RICAL ONELINE DIAGRAMS

ELECTRICAL

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DWG NO.:19032 E3.

SCALE (HORIZ):

SCALE (WERT):

89701 -2112

NEVADA FAX: 887-

CARSON

887-2355

3505 PH: 8

CITY DEPARTMENT

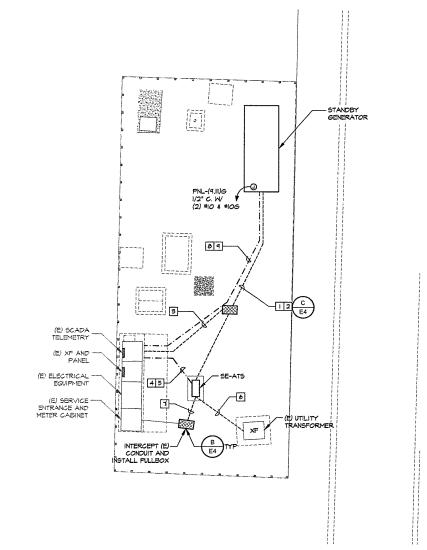
CARSON WORKS

PUBLIC

GINEER-

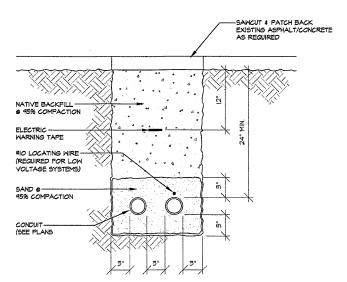
JOSEPH E.
GANSER
JEXP: 06/30/21

6-Feb-20			PA	NEL		(E)			LO	CATION:	WEL	L #55
TYPE	DESCRIPTION	LOAD	BKR	CIR	Α	В	С	CIR	BKR	LOAD	DESCRIPTION	TYPE
E	WELL DISCHARGE ACT	120	20	1	920			2	40/3	800	ASR ACTUATOR	E
Ε	PTW OPERATOR	120	20	3		920		4	X	800	x	E
Н	CHLORINATOR HEATER	120	20	5	i .		920	6	X	800	x	E
Ε	FLOW METER	120	20	7	720			8	20	600	CHLORINATOR	E
	[1]GENERATOR PANEL	2500	30/2	9		2780		10	20	280	CHLORINATOR LIGHT/REP	L
E	X	2500	X	11			3250	12	20	750	TELEM RECEPTICAL	R
	SPARE		20	13	0			14	20		SPARE	
	SPARE		20	15		0		16	20		SPARE	T
	SPARE		20	17	Í		0	18	20		SPARE	
	SPARE		20	19	0			20	20		SPARE	
	SPARE		20	21	4	0		22	20		SPARE	
	SPARE	1	20	23	-		0	24	20		SPARE	
					1640	3700	4170					
	ER BUS SIZE:	100			GROUND	:		STANDARD			NOTES:	
VOLT					MOUNTIN						BOLD INDICATES NEW OR	
PHAS		3							A 1		MODIFIED LOADS	
WIRE:		4 # OF 1				1-POLE CIRCUITS 24					[1] PROVIDE NEW BREAKER	
LUGS:		MLO			CONNEC.					9.5	MATCH TYPE AND AIC RATI	NG
BREAKER AIC RATING:		10K				TED AMPS:			26.4			
NEUTRAL:		100%			NET KVA					8.8		
FEED	R OCPD SIZE:	100			NET AMP	S:				24.3	D 2008-2014 PK ELECTR	ICAL, INC.

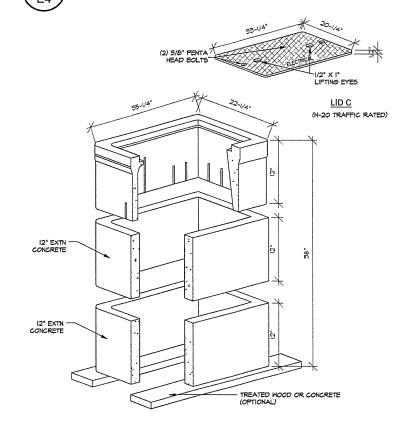










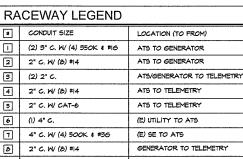


N-36 CONCRETE BOX E4 SCALE: NONE

GENERAL NOTES

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR HALF TONE LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLD LINES INDICATE NEW EQUIPMENT, UNLESS NOTED OTHERWISE.
- REPAIR AND REPLACE ALL LANDSCAPING AND SITEMORK DISTURBED BY EXCAVATION INCLUDING BUT NOT LIMITED TO IRRIGATION LINES, LAWNS, PLANTING, ETC.
- PAINT EXPOSED BUILDING MOUNTED CONDUITS TO MATCH EXISTING FINISH.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL I-800-221-2600 FOR LOCATES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL ABANDONED MATERIALS LEFT OVER FROM DEMOLITION. ITEMS MAY INCLIDE, BUT ARE NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES.

RA	RACEWAY LEGEND							
*	CONDUIT SIZE	LOCATION (TO FROM)						
Ξ	(2) 3" C. W (4) 350K \$ #16	ATS TO GENERATOR						
2	2" C. W (8) #14	ATS TO GENERATOR						
3	(2) 2° C.	ATS/GENERATOR TO TELEMETR						
4	2" C. W (8) #14	ATS TO TELEMETRY						
5	2" C. W CAT-6	ATS TO TELEMETRY						
6	(I) 4" C.	(E) UTILITY TO ATS						
7	4" C. W (4) 500K \$ #36	(E) SE TO ATS						
B	2" C. W (8) #14	GENERATOR TO TELEMETRY						
9	2" C. W CAT-6	GENERATOR TO TELEMETRY						







CARSON CITY PRODUCTION WELLS #55
PERMANENT EMERGENCY GENERATORS PROJECT
PROJECT NO. 9.1811
ELECTRICAL SITE PLAN

CARSON CITY WORKS DEPARTMENT

PUBLIC

NGINEER. JOSEPH E. L. GANSER, EXP. 06/30/

CITY, NEVADA 89701 FAX: 887-2112

CARSON

3505 BUTTI WAY PH: 887-2355

SHEET E4