STAFF REPORT FOR PLANNING COMMISSION MEETING OF SEPTEMBER 30, 2020

FILE NO: LU-2020-0023 & VAR-2020-0003 AGENDA ITEM: E.3 & E.4

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 Single Family 21,000 Planned Unit Development (SF21-P), located at 4669 East 5th Street, APN 010-384-08.

For Possible Action: Discussion and possible action regarding a request for a Major Variance for a front setback of 5 feet where a 20 foot front setback is required so as to accommodate an emergency backup generator on property zoned Single Family 21,000 Planned Unit Development (SF21-P), located at 4669 East 5th Street, APN 010-384-08.

STAFF SUMMARY: Carson City Public Works is proposing to install an emergency backup generator at the City's 3600 square feet, 60-foot-deep well site. An existing masonry building on site currently houses the well equipment. The proposed improvements include installing a new generator and fuel tank on a concrete pad. The generator would be approximately 8-feet, 10-inches tall by 6-feet, 8-inches wide by 18-feet, 7-inches long. The generator will be housed inside a white, sound attenuating enclosure. The proposed generator will provide emergency backup power to the well as well as the Riverview Sewer Lift Station. The Planning Commission is authorized to approve a Special Use Permit.

RECOMMENDED MOTIONS:

I move to approve LU-2020-0023, based on the ability to make the required findings and subject to the conditions of approval contained in the staff report.

I move to approve VAR-2020-0003 based on the ability to make the required findings and subject to the conditions of approval contained in the staff report.

VICINITY MAP:



RECOMMENDED SPECIAL USE PERMIT 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 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.

RECOMMENDED VARIANCE 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 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. 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 18.04.060 Single Family 21,000 (SF21) Conditional Uses

MASTER PLAN DESIGNATION: Low Density Residential

PRESENT ZONING: Single Family 21,000 Planned Unit Development (SF21-P)

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: Single Family 21,000 Planned Unit Development / Single Family Residential SOUTH: Single Family 21,000 Planned Unit Development / Single Family Residential Single Family 21,000 Planned Unit Development / Single Family Residential WEST: Single Family 21,000 Planned Unit Development / Single Family Residential

ENVIRONMENTAL INFORMATION:

FLOOD ZONE: Zone X Shaded

EARTHQUAKE FAULT: Within 200 feet

EARTHQUAKE POTENTIAL: Greatest Severity

SLOPE/DRAINAGE: Flat

SITE DEVELOPMENT INFORMATION:

LOT SIZE: .54 acres

LEASE AREA: 3600 square feet

EXISTING LAND USE: Single Family Home with a municipal well

PREVIOUS REVIEWS:

None

DISCUSSION:

Per CCMC 18.04.060, a municipal well facility is a conditional use in the SF21-P zoning 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 18 feet, 7-inches long by 6-feet, 8-inches wide by 8-feet, 10-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.

The SF21-P zoning district requires a 20-foot front setback. The applicant is proposing a 5-foot front setback. Due to access, the generator must be oriented as proposed.

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 West College Parkway and Marsh Road are on the Commission's September 2020 agenda for consideration.

LU-2020-0023 & VAR-2020-003 Well Generator East 5th Street Planning Commission September 30, 2020 Page 4

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 24 would impact water service to 28,701 people as well as businesses.

The well site is located on an approximately 3600 square foot easement area (approximately 60 feet by 60 feet). Two small buildings on are the easement, one houses the well and one houses the equipment. The parent lot is .54 acres and has a home on it. The well site is in the front of the lot, visible from the road.

PUBLIC COMMENTS:

Public notices were mailed to 40 property owners within 300 feet of the subject site on September 17, 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.

SPECIAL USE PERMIT 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 in the northeast corner of the subject property. The site is surrounded by single family residential properties ranging from approximately a third of an acre to approximately a half acre. 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 70 decibels. This is essentially the sound of a normal conversation. Given that the generator will be in the middle of a residential neighborhood, 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 SF21-P. This zoning district is primarily for single family residences and parks. A municipal well facility is a conditional use in the SF21-P zoning district. The 3600 square foot municipal well site was established with the original Riverview Terrace planned unit development.

The proposed generator will encroach into the required front setback. The applicant is seeking a variance to allow for the encroachment. Provided that applicant can obtain a variance, the request

will be consistent with the purpose statement and standards for the zoning 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.

VARIANCE FINDINGS: Staff's recommendation is based upon the findings as required by CCMC Section 18.02.085 (Variance) enumerated below and substantiated in the public record for the project.

 That because of special circumstances applicable to the subject property, including shape, size, topography or location of surroundings, the strict application of the zoning ordinance would deprive the subject property of privileges enjoyed by other properties in the vicinity or under identical zone classification:

The subject easement that houses the municipal well and associated equipment is approximately 3600 square feet. The setbacks in the SF21-P zoning district presume a lot area of 21,000 square feet. Therefore, the land area where the improvement is contemplated is essentially 17 percent of the minimum lot size for the zoning district. Additionally, the easement area is already improved with one building housing the well, and another building housing the equipment. This creates a constraint as well as the size of the easement.

2. That the granting of the application is necessary for the preservation and enjoyment of substantial property rights of the applicant;

The application is responsible for the provision of water to protect public health and safety. In the case of a power outage, the provision of water to 28,701 people plus businesses may be threatened, thus sacrificing health and safety. The applicant is seeking to install as generator to improve the reliability of the water system, consistent with its responsibility.

The applicant is also responsible for the provision of wastewater collection and treatment. As such, per the State law, the applicant must provide backup power at all sanitary sewer lift station facilities and water pumping facilities. The placement of the generator at the Well 24 site will allow for the removal of the existing Riverview Lift Station generator, currently located in the median in East Fifth Street, and is at the end of its useful life.

3. That the granting of the application will not, under the circumstances of the particular case, adversely affect to a material degree the health or safety of persons residing or working in the neighborhood of the subject property and will not be materially detrimental to the public welfare or materially injurious to property or improvements in the neighborhood of the subject property.

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The well site is located in the northeast corner of the subject property. The site is surrounded by single family residential properties ranging from approximately a third of an acre to approximately a half acre. 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 70 decibels. This is essentially the sound of a normal conversation. Given that the generator will be in the middle of a residential neighborhood, 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.

Attachments: LU-2020-0023 application VAR-2020-0003 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 24

Carson City Public Works is proposing to install a diesel generator at the City's Municipal Well 24 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 8'-10" tall, 6'-8" wide, and 18'-7" long. Pipe bollards are to be placed on the driveway side of the generator and existing landscaping is to be repaired. The generator will be housed inside a white, level 2, sound attenuating enclosure. The proposed generator will provide emergency backup power to Well 24 as well as the Riverview Sewer Lift Station.

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 24 was identified as one of the critical facilities and has the potential to impact 28,000 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.

Additionally, the generator at Well 24 will provide emergency backup power for Riverview Lift Station. The lift station currently has a diesel generator located in the median directly adjacent to the lift station. The existing generator is at the end of its useful life and will be removed as a part of the Riverview Lift Station Upgrades Project planned to be constructed in the fall of 2020. Due to the need to provide redundant power to the lift station, the City plans to connect the Riverview Lift Station to the new generator at Well 24.

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

Carson City Planning Division 108 E. Proctor Street · Carson Con Phone: (775) 887-2180 • E-mail: pla	ity NV 89701	FOR OFFICE USE ONLY: CCMC 18.02.080 SPECIAL USE PERMIT
FILE # LU- 2020	- 0023	FEE*: \$2,450.00 MAJOR
APPLICANT	PHONE #	\$2,200.00 MINOR (Residential
Carson City Public World	ks 283-7584	zoning districts)
MAILING ADDRESS, CITY, STATE, ZIP	Part San Goran	+ noticing fee *Due after application is deemed complete by
3505 Butti Way, Carson	City, NV, 89701	staff
danderson@carson.org		SUBMITTAL PACKET – 4 Complete Packets (1 Unbound Original and 3 Copies) including:
PROPERTY OWNER	PHONE #	Application Form Detailed Written Project Description
Carson City	887-2000	Site Plan
MAILING ADDRESS, CITY, STATE, ZIP	Cit. NV 00704	Building Elevation Drawings and Floor Plans Special Use Permit Findings
201 N. Carson St., Cars	son City, NV, 89701	Master Plan Policy Checklist Applicant's Acknowledgment Statement
EMAIL ADDRESS	283-7584	Documentation of Taxes Paid-to-Date
danderson@carson.org		Project Impact Reports (Engineering)
Darren Anderson	283-7584	CD or USB DRIVE with complete application in PDF
MAILING ADRESS, CITY STATE, ZIP	200-7004	Application Received and Reviewed By:
3505 Butti Way, Carson	City, NV, 89701	And the first of the second se
EMAIL ADDRESS		Submittal Deadline: Planning Commission application submittal schedule.
danderson@	carson.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	
01038499	4675 East Fifth Str	eet
Project's Master Plan Designation	Project's Current Zoning	Nearest Major Cross Street(s)
Low Density Residential	SF21P	Well Way
Please provide a brief description of your processor City Public Works is proposing to emergency generators at 4 control of the PROPERTY OWNER'S AFFIDAVIT In the provided of the provided and th	place an emergency backup general critical well sites which income being duly deposed, do hereby affinite application. 3505 b.H. Address	m that I am the record owner of the subject property, and that I have
COUNTY On Auly 21 , 2020,	Dan Study e person whose name is subscribed	to the foregoing document and who acknowledged to me that he/she LENA E. RESECK NOTARY PUBLIC STATE OF NEVADA
NOTE: If your project is located within the h		My Appl Exp. March 28, 2022 need to be scheduled before the Historic Resources Commission or the hisson. Planning staff can help you make this determination.

STATEMENT OF FINDINGS

APPLICATION FOR SPECIAL USE PERMIT

WELL 24 EMERGENCY GENERATOR PROJECT

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

Installation of the emergency backup generator at Well 24 will be in accordance with Carson City Master Plan. A backup generator program was identified in the 2015 Water Master Plan Update.

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

The generator at Well 24 will provide emergency backup power for Riverview Sewer Lift Station which is located in the median of Fifth Street, 500 feet to the east. Riverview Lift Station handles all sanitary sewer flow in the area of the Riverview Estates Subdivision. Backup power for the sewer lift station is critical since it is a state permitting requirement for this type of facility and is necessary in order to ensure that no spills occur in the event of a power outage. Completion of the project will also assist the City in its efforts to continue to provide a reliable supply of water to those connected to the City's water system in turn helping to maintain good quality of life for residents. Installation of the emergency backup generator with help sustainability of our community by adding resiliency 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 24 is one of several wells serving much of the central and eastern areas of the City. Installation of the emergency generator will help provide water to citizens during power outages.

The generator will operate during power outages if the well is in operation at the time of the outage. The generator will also operate 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.

As a separate phase of the improvements to be completed which are associated with the emergency generator at the Well 24 Site; the City plans to remove the existing generator at the Riverview Lift Station site which is at the end of its useful life. The current generator at Riverview Lift Station is located in the center median of Fifth street, visible to many residents, and has very poor sound attenuation. By removing the generator and re-feeding the power service to the Riverview Lift Station from the Well 24 Site, the Lift Station will be supported by the new generator at the well site. The new generator will be

less visible to residents in the area, have far better sound attenuation, and be more protected against damage by vehicles.

In summary, the new emergency generator will help to provide necessary backup for water and sewer utilities to the residents in the area as well us limit visual impact of the backup facility by relocating it from the center median of Fifth Street to the Well 24 property.

Adjacent properties:

Single Family-21,000 square feet (SF21) in all directions

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 24 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.

The proposed improvements will help the City to continue to use the site as a municipal well facility. The existing uses on City controlled facilities in the area will not change as a result of this project.

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 adding resiliency to the Riverview Lift Station in addition to Well 24 providing improved reliability of water and sewer services for residents in the area.

<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. While some landscaping will need to be

removed to accommodate the footprint of the generator, all other landscaping will remain in place. 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	07/27/2020
Applicant's Signature	Print Name	Date

Carson City Planning Division 108 E. Proctor Street Carson City NV 89701 Phone: (775) 887-2180 * E-mail: planning@carson.org		FOR OFFICE USE ONLY: CCMC 18.02.085		
FILE # VAR 2020		MAJOR VARIANCE		
APPLICANT Carson City Public Works	PHONE # 283-7584	FEE*: \$2,150.00 + noticing fee *Due after application is deemed complete by staff		
MAILING ADDRESS, CITY, STATE, ZIP 3505 Butti Way, Carson C		□ SUBMITTAL PACKET – 4 Complete Packets (1 Unbound Original and 3 Copies) □ Application Form		
email address danderson@carson.org		 □ Detailed Written Project Description □ Site Plan □ Building Elevation Drawings and Floor Plans 		
PROPERTY OWNER Carson City	887-2000	□ Variance Findings □ Applicant's Acknowledgment Statement □ Documentation of Taxes Paid-to-Date		
MAILING ADDRESS, CITY, STATE, ZIP 201 N. Carson St., Carson EMAIL ADDRESS	City, NV, 89701	CD or USB DRIVE with complete application in PDF		
danderson@carson.org	PHONE#	Application Reviewed and Received By:		
Darren Anderson MAILING ADDRESS, CITY, STATE, ZIP 3505 Butti Way, Carson C	283-7584 ity, NV, 89701	Submittal Deadline: Planning Commission application submittal schedule.		
email address danderson@carson.org		Note: Submittals must be of sufficient clarity and detail such that all departments are able to determine if they can support the request. Additional Information may be required.		
Project's Assessor Parcel Number(s): 01038499	Street Address 4675 East Fifth S			
Project's Master Plan Designation Low Density Residential	Project's Current Zoning SF21P	Nearest Major Cross Street(s) Well Way		
	g to place an emergency	ditional pages to describe your request in more detail. backup generator at the City's Well 24 site. The City received Il sites which includes Well 24.		
PROPERTY OWNER'S AFFIDAVIT I. Daniel Stucky have knowledge of, and I agree to, the filing of	f this application.	reby affirm that I am the record owner of the subject property, and that I		
Signature		Buth Way (4301 City NU 8 9701 8/27/20 Date		
Use additional page(s) if necessary for other	names.			
STATE OF NEVADA) COUNTY)				
Onpublic, personally known (or proved) to me to he/she executed the foregoing document.	, 2, be the person whose name is s	, personally appeared before me, a notary subscribed to the foregoing document and who acknowledged to me that		
Notary Public				

STATEMENT OF FINDINGS

APPLICATION FOR MAJOR VARIANCE

WELL 24 EMERGENCY GENERATOR PROJECT

<u>Question 1</u>: That because of special circumstances to the subject property, including shape, size, topography or location of surroundings, the strict application of the zoning ordinance would deprive the subject property of privileges enjoyed by other properties in the vicinity or under identical zone classifications.

The subject property was granted as an easement to the City in order to construct a well. The size of the property was determined in order to house the well facility and equipment with minimal additional space in order to limit the impact to the adjacent property that the easement was granted from. Due to the limited space within the easement area, the City is proposing to install the generator towards the front of the property, encroaching the minimum front setback of 20'.

There are 3 areas within the property that have enough space for the generator. The City considered the different locations before determining the location shown as the best location. The two other locations considered were the space in the southwest corner of the property and space along the eastern fence of the property. The southwest corner of the property would require the generator to be placed on top of critical underground components of the well. Additionally, access for placement of the generator and any extensive repair and maintenance would need to be from the adjacent property owner's driveway. The location along the eastern fence does not allow for adequate room to open the generator doors and effectively perform repair and maintenance, and would encroach on the side property setback.

Part of the City's 2015 Water Master Plan Update includes a backup generator program which is necessary to provide reliable service to residents and businesses throughout the City. Well 24 was selected as one of the most critical sites to maintain power during a power outage and in order to provide a satisfactory level of service to water users.

<u>Question 2</u>: That the granting of the application is necessary for the preservation and enjoyment of substantial property rights of the applicant.

The City obtained the easement for the sole purpose of operating a well. Allowing the placement and installation of the emergency backup generator will allow the City to continue to use the property for the purpose it was originally acquired. The City is proposing to install the generator in order to meet State regulations which require standby power to be provided for pumping facilities.

Question 3: That granting of the application will not, under the circumstances of the particular case, adversely affect to a material degree the health or safety of persons residing or working in the neighborhood of the subject property and will not be materially detrimental to the public welfare or materially injurious to property or improvements in the neighborhood of the subject property.

Well 24 is one of several wells serving much of the central and eastern areas of the City. Installation of the emergency generator will help maintain supply and pressure of water to citizens during power outages and help to avoid material or adverse effects that could be caused in the neighborhood if backup power were not provided.

As a separate phase of the improvements to be completed which are associated with the emergency generator at the Well 24 Site; the City plans to remove the existing generator at the Riverview Lift Station site which is at the end of its useful life. The current generator at Riverview Lift Station is located in the center median of Fifth street, visible to many residents, and has very poor sound attenuation. By removing the generator and re-feeding the power service to the Riverview Lift Station from the Well 24 Site, the Lift Station will be supported by the new generator at the well site. The new generator will be less visible to residents in the area, have far better sound attenuation, and be more protected against damage by vehicles.

State regulations require the City to provide backup power at all sanitary sewer lift station facilities and water pumping facilities. Adding the generator at the Well 24 site will allow the City to meet this requirement, protect the environment, and provide resiliency to both the sanitary sewer and water systems.

The generator will operate during power outages if the well is in operation at the time of the outage. The generator will also operate 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 of shan	Darren Anderson	8/28/2020
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:

	The Control of the Co
	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 adiacent public lands (1.4a)?

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)?
PTE	R 4: EQUITABLE DISTRIBUTION OF RECREATIONAL OPPORTUNITIES

CHAF



The Carson City Master Plan seeks to continue providing a diverse range of park and recreational opportunities to include facilities and programming for all ages and varying 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 Plan (4.3a)?

CHAPTER 5: ECONOMIC VITALITY



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:

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, pedestrianfriendly Downtown.

is or de

does	the 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)?

Cat® C13 DIESEL GENERATOR SETS





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.

350 ekW- 400 ekW

60 Hz

Standby	Prime
350 ekW	320 ekW
400 ekW	365 ekW

SPECIFICATIONS

ENGINE SPECIFICATIONS

Engine Model	Cat® C13 ACERT In-line 6, 4-cycle diese
Bore x Stroke	130mm x 157mm (5.1in x 6.2in)
Displacement	12.5 L (763 in³)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4
Emission Certifications	EPA TIER III

GENERATOR SET SPECIFICATIONS

Alternator Design	Brushless Single Bearing, 4 Pole
Stator	2/3 Pitch
No. of Leads	12
Available Voltage Options	600/480/440/240/220V
Frequency	60Hz
Alternator Voltage	24V
Alternator Insulation & IP	Class H; IP23
Standard Temperature Rise	125/130 Deg C
Available Excitation Options	Self-Excited, PMG
Voltage Regulation, Steady State +/-	≤1%

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Cat® C13 DIESEL GENERATOR SETS

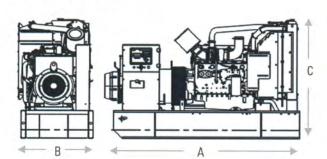


STANDARD EQUIPMENT

Air inlet system	Aftercooler core. Turbocharger
Control panels	EMCP4.2 control panel.
Cooling system	Coolant drain line with valve; terminated on edge of base. Fan and belt guards. Coolant Level Sensor Thermostats and housing, full open temperature 92 deg C (198 deg F). Coolant level sight gauge. Jacket water pump, gear driven, centrifugal. Caterpillar Extended Life Coolant.
Exhaust system	Exhaust manifold; dry.
Fuel system	Primary fuel filter w/integral water separator & secondary filter. Fuel cooler. Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump
Generators and generator attachments	Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise Power centre, IP22 bottom cable entry Segregated low voltage wiring pane
Governing system	Cat Electronic Governor (ADEM A4).
Protection System	Safety Shutoff — High Water Temperature Safety Shutoff — Low Oil Pressure Safety Shutoff — Overspeed Coolant Level Sensor
Base / Fuel Tank	Narrow Skid Wide / Standard Sub Tank Base — UL & ULC Listed Integral Tank Base — UL & ULC Listed Spill Containment Overfill Prevention Valve
Starting/charging system	24-Volt Electric Starting Motor Charging Alternator
Certifications	EPA Stationary Emergency Use

OPTIONAL EQUIPMI	ENT
Air inlet system	Single/Dual Element Air Cleaner Heavy Duty Air Cleaner
Control panels	EMCP 4.4 Local Annunciator Remote Annunciators Discrete I/O Module Device Server Volt Free Contact Earth (Ground) Fault Relay
Circuit Breakers	3-Pole 100% Rated — Single (Manual & Motorized). 3-Pole 100% Rated — Dual & Third (Manual). External Paralleling Auxiliary Contacts Neutral Bar
Enclosures	Sound Attenuated (SA). Weather Protective
Cooling system	Stone guards.
Mufflers	Industrial grade (10 dBA) Residential and Critical grade (25 dBA)
Base / Fuel Tank	Audio & Visual Fuel Alarm
Fuel System	Integral 670 Gal Tank Base Sub Tank Bases:660, 1000, 1900, 2200 Gal
Generators and generator attachments	Excitation — Self Excitation — Internal / AREP / PMG Oversize Coastal Protection (CIP) Space Heater Control
Starting/charging system	Standard Battery Set Oversize Battery Set.
Certifications	UL2200 Listed CSA 22.2 Certification of Compliance — IBC Seismic Certification of Compliance — IBC Seismic and OSHPD
General	Tool Set.

WEIGHTS & DIMENSIONS



Standby Ratings	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Generator Set Weight kg (lb)
350 ekW	3505 (138)	1652 (65)	2069 (82)	3696 (8147)
400 ekW	3505 (138)	1652 (65)	2069 (82)	3823 (8427)

Cat® C13 INTEGRAL & SUB BASE FUEL TANKS





INTEGRAL & SUB BASE FUEL TANKS

Image shown might not reflect actual configuration

FEATURES

- UL Listed for United States (UL 142) and Canada (CAN/ULC S601)
- Facilitates compliance with NFPA 30 code, NFPA 37 and 110 standards and CSA C282 code
- Dual wall
- Lockable fuel fill cap, 4" (101.6 mm) 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 gauge 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
- Rear stub-up access

SUB BASE

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

INTEGRAL

- 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" (152 mm) from bottom of tank
- 5gal (18.9 L) spill containment with overfill prevention valve and fuel fill drop tube with in 6" (152 mm) 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

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Cat® C13 INTEGRAL & SUB BASE FUEL TANKS



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

Integral - Width (W) 2014 mm (79.3 in)

Sub-base - Width (W) 2056 mm (81.0 in)

A. Open Set & Weather Protective Enclosure

C13 Tank	Feature Code	7.0	otal		eable			Tank	Only			Ove	rall Pac with	kage H Tank	eight
Design		Capacity		Capacity		Dry Weight		Height 'H'		Length 'L'		Open		Enclosure	
		Litre	Gallon	litre	Gallon	kg	lb	mm	in	mm	in	mm	in	mm	in
Integral	FTDW013	2646	699	2540	671	1569	3450	762	30	5461	215	2552	100.5	2743	108
Sub-Base	FTDW005	3941	1041	3876	1024	1659	3657	635	25	5550	218.5	2763	108.8	2955	116.3
Sub-Base	FTDW006	7643	2019	7556	1996	2228	4912	889	35	6184	243.5	3017	118.8	3209	126.3
Sub-Base	FTDW007	8339	2203	8244	2178	2150	4134	889	35	7074	278.5	2291	117.8	3789	149.2
Sub-Base	FTDW011	2476	654	2435	643	1468	3236	635	25	3810	150	2763	108.8	2955	116.3

B. Sound Attenuated Enclosure

C13 Tank Design	Feature		otal pacity	25.2	eable pacity			Tank	Only			Over		kage H Tank	eight	
	Code	Code					Dry Weight		Height 'H'		Length 'L'		Open		Enclosure	
		litre	Gallon	litre	Gallon	kg	lb	mm	in	mm	in	mm	in	mm	in	
Integral	FTDW013	2646	699	2540	671	1569	3450	762	30.0	5461	215.0	NA	NA	2743	108.0	
Sub-Base	FTDW005	3941	1041	3876	1024	1659	3657	635	25.0	5550	218.5	NA	NA	2955	116.3	
Sub-Base	FTDW006	7643	2019	7556	1996	2033	4483	889	35.0	6184	243.5	NA	NA	3209	126.3	
Sub-Base	FTDW007	8339	2203	8244	2178	2292	5052	889	35.0	7074	278.5	NA	NA	3209	126.3	
Sub-Base	FTDW011	2476	654	2435	643	1468	3236	635	25.0	3810	150.0	NA	NA	2955	116.3	

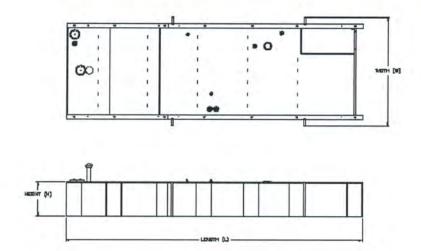
C. Estimated Run Time (Hours) at 100% Load

C13 Tank Design	Feature Code	Standby Ra	tings (ekW)	Prime Ratings (ekW)			
ntegral Tank		400	350	350	320		
ntegral Tank	FTDW013	24	27	25	29		
Sub-Base	FTDW005	36	41	38	43		
Sub-Base	FTDW006	71	80	74	85		
Sub-Base	FTDW007	77	87	81	93		
Sub-Base	FTDW011	23	25	24	27		

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Cat® C13 INTEGRAL & SUB BASE FUEL TANKS





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 stub-up include stubup 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:

FTDW005

FTDW008

FTDW011





SOUND ATTENUATED & WEATHER PROTECTIVE ENCLOSURES

60 Hz

FEATURES

Robust / Highly Corrosion Resistant Construction

- · Factory installed on skid base
- Environmentally friendly, polyester powder baked paint
- 14 gauge steel
- · Interior zinc plated fasteners
- Exterior stainless steel fasteners
- Internally mounted exhaust silencing system
- 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
- Three doors on both sides
- Vertically hinged allow 180° opening rotation and retention with door stays
- Lube oil and coolant drains piped to the exterior of the enclosure base
- Radiator fill cover

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

Transportability

 These enclosures are of extremely rugged construction to withstand outdoor exposure and rough handling common on many construction sites.

Options (Sound Attenuated)

- · Enclosure constructed with 14 gauge steel
- Enclosure constructed with 12 gauge aluminum (5052 grade)
- · Caterpillar yellow or white paint
- Control panel viewing window
- UL Listed integral fuel tank with 670, 400, and 300 gallon capacities
- UL Listed sub base fuel tank with 660, 1000, 1900, and 2200 gallon capacities.
- 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
- AC/DC lighting package
- 5 kW Canopy space heater to facilitate compliance with NFPA 110
- Motorized louvers and gravity discharge damper
- 125A Load Center
- GFCI outlets

Options (Weather Protective)

- · Caterpillar Yellow or white paint
- UL Listed integral fuel tank with 680, 400, and 300 gallon capacities
- UL Listed sub-base fuel tank with 660, 1000, 1900, and 2200 gallon capacities.
- 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.
- AC/DC lighting package

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Cat® C13 ENCLOSURES



Enclosure Package Operating Characteristics

Enclosure Type	Standby ekW	Cooling Ra	10,000	bient bility*	Sound Pressure Levels (dBA) at 7m (23 ft)	
		m³/s	cfm	°C	°F	100% Load
1 14 C 1 A M 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1	350	8.5	18010	57	135	74
Level 1 Sound Attenuated Enclosure (Steel)	400	8.5	18010	56	133	75
1 100 184 (Ct1)	350	7.2	15256	50	122	70
Level 2 Sound Attenuated Enclosure (Steel)	400	7.2	15256	50	122	70
0 184 15 1 (81)	350	8.5	-	57	135	75
Sound Attenuated Enclosure (Aluminum)	400	8.5		56	133	75
Weather Protective Enclosure	350	8.5	-	54	129	87
	400	8.5	-	53	127	88

Note: Sound level measurements are subject to instrumentation, installation and manufacturing variability, as well as ambient site conditions.

DIMENSIONS

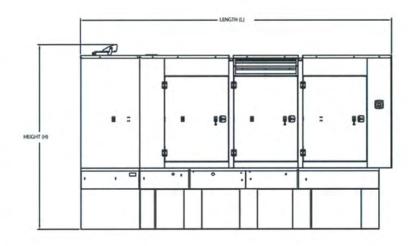
120212	Standby	Leng	gth, L	Widt	th, W	Height, H		
Enclosure Type	Ratings, ekW	mm	in	mm	in	mm	in	
Sound Attenuated Enclosure on Skid Base	350	4948	194.8	2014	79.3	2320	91.3	
Sound Altenuated Enclosure on Skid base	400	4340	134.0	2014	75.5	2320	51.5	
Sound Attenuated Enclosure on a UL Listed	350	5461	215.0	2014	79.3	2743	108.0	
Integral Fuel Tank Base	400	5401	215.0	2014	75.5	2743	108.0	
Sound Attenuated Enclosure on a UL Listed 660	350	4040	1040	2050	00.0	2955	1100	
Gallon Sub-Base Fuel Tank Base	400	4948	194.8	2056	80.9	2900	116.3	
Sound Attenuated Enclosure on a UL Listed	350	5751	226.4	2056	80.9	2955	116.3	
1000 Gallon Sub-Base Fuel Tank Base	400	3/31	220.4	2000	00.5	2500	(110.0	
Sound Attenuated Enclosure on a UL Listed	350	6382	251.2	2056	80.9	3209	126.3	
1900 Gallon Sub-Base Fuel Tank Base	400	0302	231.2	2000	00.9	3203	120.3	
Sound Attenuated Enclosure on a UL Listed	350	7074	070.5	0050	00.0		400.0	
2200 Gallon Sub-Base Fuel Tank Base	400	7074	278.5	2056	80.9	3209	126.3	
Weather Protective Enclosure on Skid Base	350	4948	194.8	2014	79.3	2320	91.3	
vvediner Frotective Englosure on Skiu Dase	400	4340	134.0	2014	73.3	2320	31.3	
Weather Protective Enclosure on a UL Listed	350	5461	215.0	2014	79.3	2743	108.0	
Integral Fuel Tank Base	400	0401	210.0	2014	73.5	2/40	100.0	

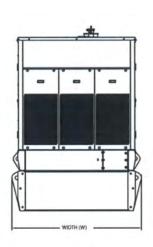
Cat® C13 ENCLOSURES



Component Weights to Calculate Package Weight

Standby ekW	Narrow Skid Base		Wide Skid Base			tenuated re (Steel)	Sound Att Enclo (Alumi	sure	Weather Protective Enclosure	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
350 400	253	578	579	1276	1245	2745	765	1687	1166	2570





Cat® C13 DIESEL GENERATOR SETS



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.

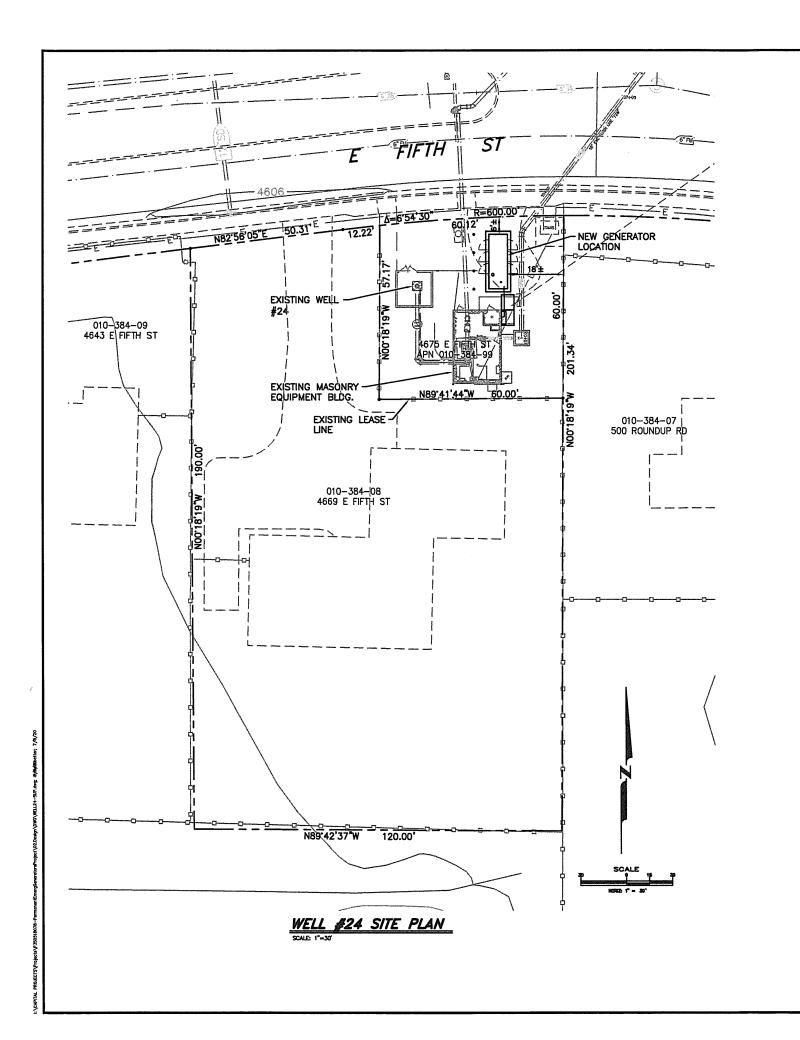
WORLDWIDE PRODUCT SUPPORT

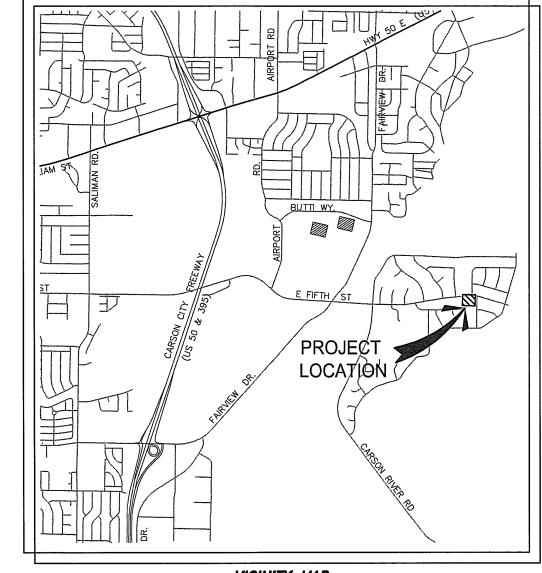
Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Caterpillar® SOSSM program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion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



www.Cat.com/electricpower

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VICINITY MAP

OWNER:

CARSON CITY 201 N. CARSON ST. CARSON CITY, NV 89701

(775) 887-2000

APPLICANT:

CARSON CITY PUBLIC WORKS DEPT. 3505 BUTTI WY

CARSON CITY, NV 89701 (775) 283-7584

INSTALLATION OF NEW PAD MOUNTED REQUEST:

GENERATOR & TRANSFER SWITCH

LOCATION: APN 010-384-99

ZONING: SF21P

MASTER PLAN LAND USE DESIGNATION:

SINGLE FAMILY RESIDENCE

SITE_PLAN PREPARED_BY: CARSON CITY PUBLIC WORKS DEPT. CITY DEPARTMENT CITY, NEVADA 89701 FAX; 887-2112 CARSON WORKS I PUBLIC 3505 PH: 8

CARSON CITY PRODUCTION WELLS
PERMANENT EMERGENCY GENERATORS PROJECT
PROJECT No. P350518078 SPECIAL USE PERMIT SITE PLAN #24 WELL

SHEET

CARSON CITY PRODUCTION WELLS PERMANENT EMERGENCY GENERATORS WELL #24 PROJECT

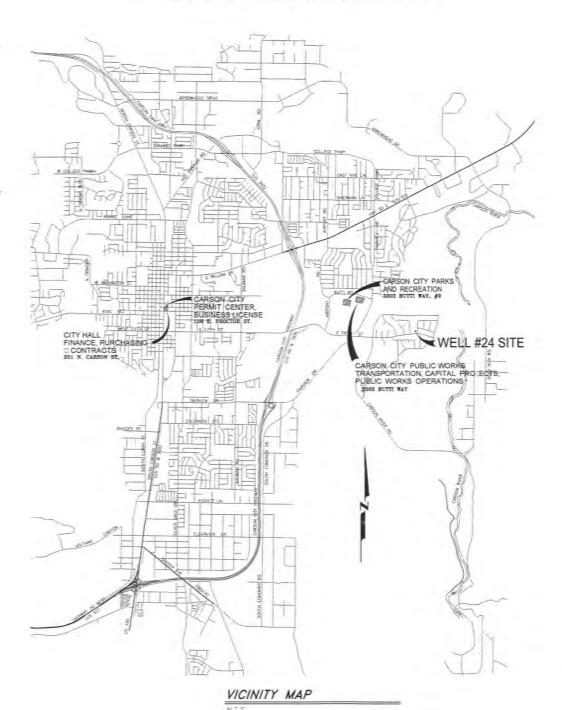
PROJECT P350518078

BOARD OF SUPERVISORS

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

C2 WELL #24 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

DARROY OF SAME OF SAME

CARSON CITY WORKS DEPARTMENT

VDA 887

DARREN & ANDERSON (S. 12 (12/31/20) (CVIL of Ma 23712) (CVIL of Ma 237

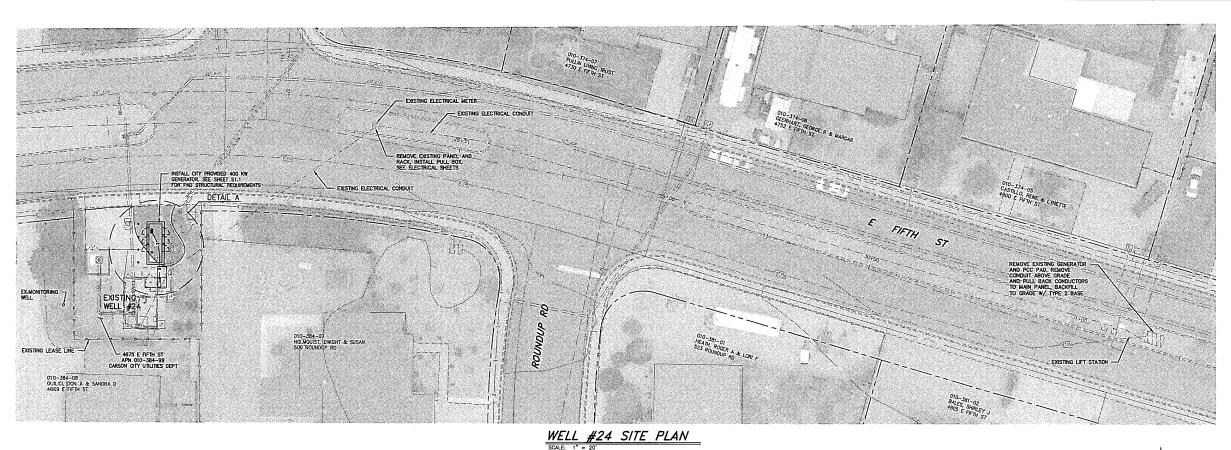
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CARSON CITY PRODUCTION WELLS
IMANENT EMERGENCY GENERATOR
WELL #24 PROJECT
PROJECT No. P350518078
TITLE SHEET

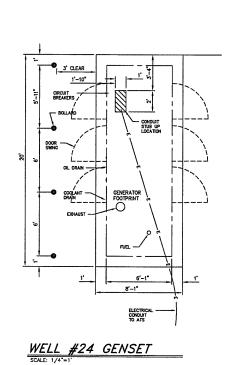
BID SET PLAN

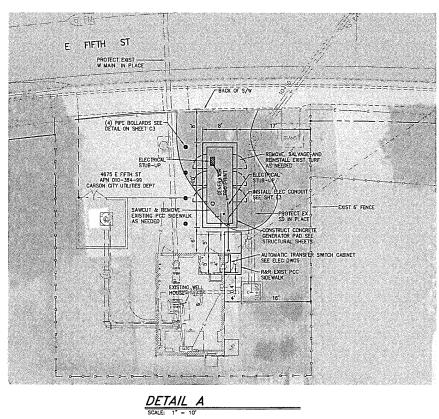
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REFERENCE CODES

2009 ICC/ANS A17.1
2017 National Electrical Code
2018 International Building Code
2018 International Building Code
2018 International Fire Code
2018 International Fire Code
2018 Northern Neroda International Fire Code Amendments
2018 Northern Neroda International Fire Code Amendments
2018 Northern Neroda International Fire Code Amendments







CARSON CITY PRODUCTION WELLS
PERMANENT EMERGENCY GENERATORS PROJECT
PROJECT No. P350518078

SITE PLAN

WELL #24

BID SET PLANS

CARSON CITY

WORKS DEPARTMENT
TII WAY CARSON CITY, NEVADA 89701

FAX: 887-2112

PUBLIC

DARREN S. ANDERSON Exp: 12/31/20 CIVIL

3505 BUTTI WAY PH: 887-2355

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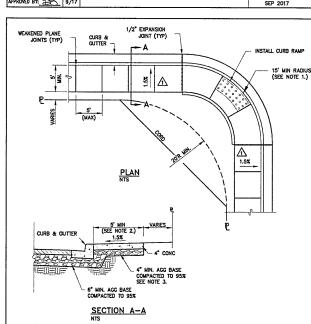
- ALL MORK CHILL CONTONL TO THE "STANDARD SPECIFICATIONS FOR FUBLIC WORKS CONSTRUCTION" (SSEWE) AND THE "STANDARD SETAILS FOR PUBLIC WORKS CONSTRUCTION" (SSEWE) AND THE CONTRACTIONS SHALL OSTAM A PERMIT FOR FUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE STATE OF CONSTRUCTION.
- ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART 6 OF THE MANUAL OF UNFORM TRAFFIC CONTROL DEVICES, LITEST EDITION, AND THE URIT IS CONTROL TRAFFIC CONTROL CAPICAL PLAN WAS THE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DISTRICT OF ANY STREET CLOSURES.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR 1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRSS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
- THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISON (887-2300) TWO (2) WORKING DAYS PROR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PROR TO REQUIRED INSPECTIONS ON TESTING. THE REQUIRED INSPECTIONS AND TESTING, ARE LISTED ON THE RISPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION BROWN DESTING, FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE REQUIRED INSPECTIONS AND TESTING, FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE WISPECTIONS PER THE CONTRACT DOCUMENTS.
- FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES REQUIRES REQUIRES SUBJUTTAL OF RECORD GRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DON'S TO PREPARE A FINAL PUNCH LIST, ALL CONDITIONS OF THE FINAL INSPECTION MIST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPIANCY BY THE CARSON CITY RONGERIES 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 COURTE AROUND SEVERAL
- 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, 12.01.1400)
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIMISION OF ENVIRONMENTAL PROTECTION (NOPP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAY (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPULANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2013).
- 10. THE CONTRACTOR WILL BE SOLELY AND COMPLITELY RESPONSIBLE FOR LOCATING EXISTING MUTILIDES. IT SHALL BE HE CONTRACTORS RESPONSIBILITY TO VERFY THESE LOCATIONS AT THE PROPOSED POINTS OF THE PROPOSED POINTS Λ
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB STE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORANCE OF THE WORK. THIS REQUIREMENT MILL APPLY CONTINUOUSLY AND NOTE EN UNITED TO ROWALL, MORNING HOURS. THE CONTRACTOR SHALL PER RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TREMOMES IN ACCORDANCE WITH COCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENCAMEED DOT IN LIQUID REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE. Δ
- 12. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLANED ON THE CONSTRUCTION FLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SIGHT UPTHER EXPLANTIONS AS MAY BE NECESSARY.

	NO. REVISION DATE STANDARD DETAIL F	FOR PUBLIC WORKS CONSTRUCTION		NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
	/1 NOTE 10,11,12 9/17		CARSON CITY	Λ	NOTE 2,3,4,5,8	9/17		CARSON CITY
ı	CENT	CDAL NOTES	DRAWING NO. C-1.1.1					DRAWING NO. C-5.2.1
	GENE	ERAL NOTES	DATE	<u> </u>				DATE
	APPROVED BY: 28 9/17		SFP 2017	APPRO	ATO RY: SUSS.	9/17	GENERAL NUICO	CCD 2017

BEDDING MATERIAL - CLASS "A"-BACKFILL (SEE NOTE 3.)

⚠ NOTE 8 9/17

(SEE NOTE 4.)



NOTES:

- MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- 2. SOME STREETS MAY REQUIRE WIDER SIDEWALKS.
- 3. SIDEWALK ADJACENT TO TYPE 2 OR ROLLED CURB AND GUTTER SHALL BE CONSTRUCTED 5 INCHES THICK OF CONCRETE ON 6 INCHES OF AGGREGATE BASE COMPACTED TO 95%
- 4. SIDEWALK SHALL BE POURED NON-MONOLITHICALY FROM CURB AND GUTTER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
A	NOTE 3 & 4	9/17		CARSON CITY
			TYPE "A" SIDEWALK	DRAWING NO. C-5.2.2
<u> </u>			LIPE A SIDEWALK	DATE
APPROVED BY: 28 9/17				SEP 2017

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- Δ²
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC). **∆** 3.
- **A** 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).

- BACKFILL ---

TYPICAL TRENCH SECTION

BACKFILL SHALL CONFORM TO THE REQUIRENENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPIKE. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPIKE AND DENSIFIED TO GOW RELATIVE COMPACTION.

BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION. PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURA GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHIER POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.

8. TRACER WIRE SHALL BE 12 CAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER WIRE, INSULATION SHALL BE 30 MIL HOPE, PLANS SHALL SPECTY WIRE STENGTH AND INSULATION THICKNESS FOR BORING APPLOATIONS, SPLICES SHALL BE CONNECTED BY WIRE WINTS, SEALED WITH AQUAD SELLO RILLED, AND DOUBLE WARPED WITH U.A. LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECHAMED WATER, GREEN FOR SEVER AND YELLOW FOR ELECTRICAL OR FIBER OPTIC.

TRENCH EXCAVATION

AND BACKFILL

1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.

5. FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.6).

NO. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

PLACE WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.

- 7. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK

17" TYPICAL SECTION

NOTES:

BACKFILL TO SUBGRADE IF TRENCH IS IN AN EXISTING PAVEMENT, BACKFILL TO ORIGINAL GROUND IF TRENCH IS OUTSIDE EXISTING PAVEMENT (SEE NOTES 1., 2.

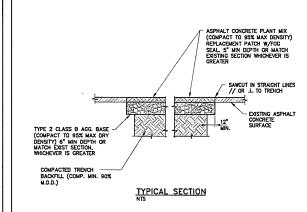
& 6.) WARNING TAPE (SEE NOTE 7.)

TRACER WIRE FOR WATER LINES, RECLAIMED WATER LINES, AND SEWER LINES (SEE NOTE 8.)

CARSON CITY
DRAWING NO.
C-1.2.1 (305)
DATE

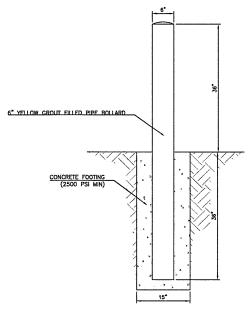
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS.
 SYNTHETIC FIBER-REINFORCEMENT (A.T. A MININUM OF I POUND PER CUBIC YARD), 4000 PSI
 MYTHETIC FIBER-REINFORCEMENT (A.T. A MININUM OF I POUND PER CUBIC YARD WITH A
 MAX. WHITEYOCOMET FROM BY 28 ANS. MY SHAND THE STANDARD STEAR AT 17 OF REGISTION
 MAX. WHITEYOCOMET STANDARD STEAR AT 17 OF REGISTION
 MORKS CONSTRUCTION.
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTED, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ↑ 4. CURB & GUTTER SHALL BE POURED SEPARATELY/NON-MONOUTHCALLY FROM SIDEWALK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
Λ	NOTES 2 & 4	9/17	200 01122 4 0112222	CARSON CITY
		T .	PCC CURB & GUTTER	DRAWING NO.
			TV0F 4	C-5.1.3
APPRO	VED BY: 228	9/17	TYPE 1	DATE SEP 2017



- IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE DOSTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL EMISSIED SURFACE OF PATCH SHALL NOT BE BELOW DAISTING ADJACENT SURFACE.
- 5. PLANTMIX BITUMINOUS PAVEMENT SURFACE AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 WITH LIME 50 BLOW AND 15% RAP MAX. UNLESS OTHERWISE NOTED.
- PLANTMIX BITMUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
- 7. PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

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٦		NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
		Λ	5" AC DEPTH	09/11		CARSON CITY
1		A	NOTE 5	9/17	PAVEMENT PATCH	DRAWING NO. C-5.1.6
┪	ì				FAVEMENT FAICH	DATE
╛	1	APPRO	25 and 100	9/17		SEP 2017



PIPE BOLLARD DETAIL

C3 OF

CITY DEPARTMENT

CARSON WORKS

89701 --2112

NEVADA FAX; 887

CITY,

WAY 355

BUTTI 887-23

3505 PH: 8

NEER-S

DARREN S. ANDERSON

Exp: 12/31/20

No. 23728

CARSON CITY PRODUCTION WELLS
PERMANENT EMERGENCY GENERATORS
WELL 41 PROJECT
PROJECT No. P350518078
GENERAL NOTES AND DETAILS

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SIDEWALK SURFACE 20 - CONCRETE TYPICAL SECTION

DIRT FINISH CRADE

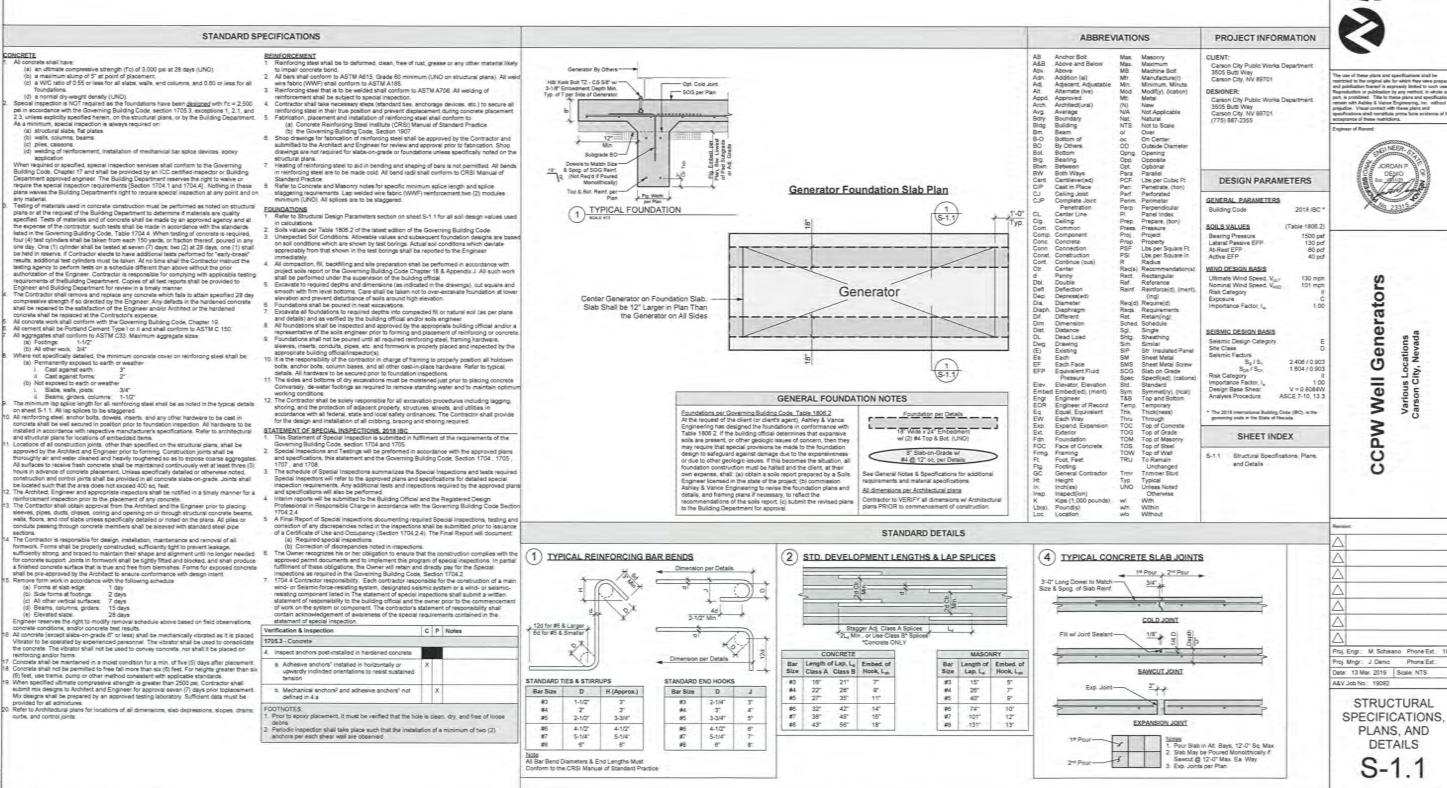
5" IN ROADWAY (VARIES BEHIND SIDEWALK)

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY PUBLIC WORKS
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS C-5.1.1, AND, C-5.3.1 AND CONFORM TO SEC, 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
∕ı\	NOTE 2	9/17		CARSON CITY
		1	P.C.C. RETAINING CURB	DRAWING NO. C-5.3.10
APPRO	VED BY: 258	9/17	1.0.0. KEIAMMO OOKB	DATE SEP 2017

CCPW Well Generators

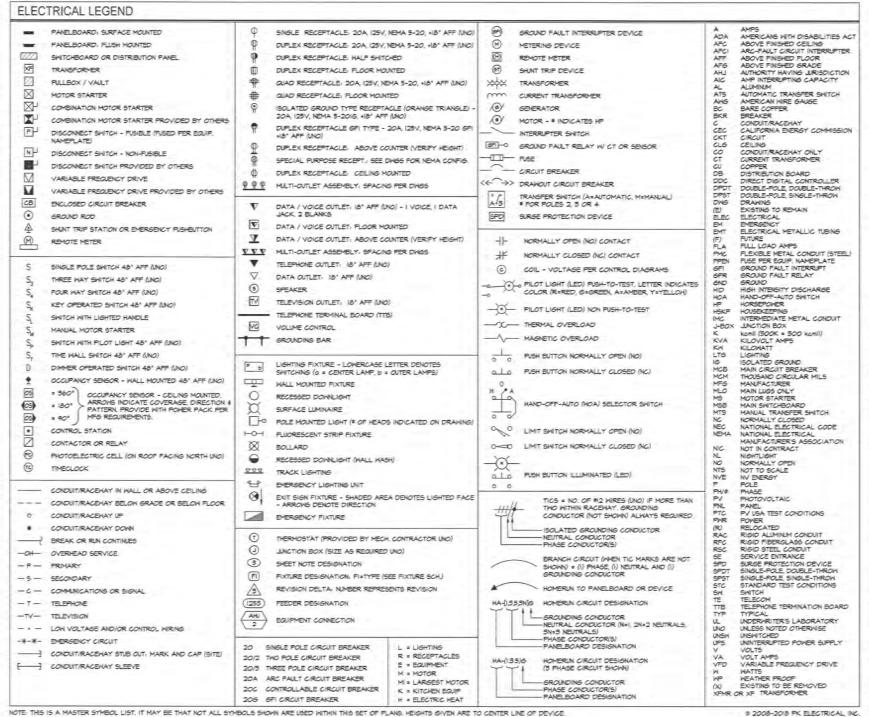
Various Locations Carson City, Nevada



Suite 105 NV 89511 825-4945

Ashley&Vance

DRA	WING SCHEDULE	
SHEET	DESCRIPTION	NOSS FINAL DESIGN
El	ELECTRICAL LEGEND 4 DRAWING SCHEDULE	
E2	SHEET SPECIFICATIONS	
3	ELECTRICAL ONELINE DIAGRAMS	
E4	ELECTRICAL SITE PLAN	•
	TOTAL SHEETS IN ISSUE:	4



PK Electrical, Inc.

Engineering · Design · Consulting

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CARSON CITY PRODUCTION V
CARSON CITY PRODUCTION V
PERMANENT EMERGENCY GENERATO
PROJECT NO. 9.1811
PROJECT NO. 9.1811
SCHEDULE

S #24 PROJECT

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