

NOTICE AND AGENDA
SANTA CLARA CITY COUNCIL WORK MEETING
Wednesday December 2, 2020,
Time: 5:00 p.m.
AGENDA

NOTICE is hereby given that the Santa Clara City Council will hold a Work Meeting on the 2nd day of December 2020 at 5:00 PM. in the City Council Chambers of the Town Hall at 2603 Santa Clara Drive, Santa Clara Utah 84765.

The Meeting will be available to view live stream on the You Tube link: <http://www.youtube.com/channel/UCxLBLm30-XLqM1AEmhpcMA>

Council Chambers will be available to residents, but we will have limited availability and follow Covid-19 guidelines.

1. **Call to Order**

2. **Working Agenda**

A. General Business

1. Discussion on property between Harmon's and the wash, Dave Hunter.
2. Hydrant Meter Policy & Rate change discussion.
3. Special Assessment Area (Vineyard) discussion.
4. Discussion on purchasing a 2.5-megawatt generator and financing options.
5. Discussion on Washington County Solid Waste Recycling.

3. **Staff Reports**

4. **Adjournment**

Note: In compliance with the Americans with Disabilities Act, individuals needing special accommodation during this meeting should notify the city no later than 24 hours in advance of the meeting by calling 435-673-6712. In accordance with State Statute and Council Policy, one or more Council Members may be connected via speakerphone or may by two-thirds vote to go into a closed meeting.

Zoom Meeting Participants: Participants on the Zoom call are limited to City Staff, Council Members, and applicants on the Agenda. E-mail calendar invitations will be sent out in advance of the meeting. Instructions for each meeting will include the meeting link, ID, and password to join. When joining the meeting your screen name must show your Full Name. Each applicant will be accepted into the meeting when their item is up for discussion. Submissions from this form will be sent directly to the City. Please contact Chris Shelley at (435) 673-6712 Ext. 203 with any questions regarding Public meetings.

The undersigned, duly appointed City Recorder, does hereby certify that the above notice and agenda was posted within the Santa Clara City limits on this 24th day of November 2020 at the Santa Clara City Hall, on the City Hall Notice Board, at the Santa Clara Post Office, on the Utah State Public Notice Website, and on the City Website at <http://www.sccity.org>. The 2020 meeting schedule was also provided to the Spectrum on January 1, 2020.

Chris Shelley – City Recorder

REQUEST FOR COUNCIL ACTION

AGENDA ITEM 1

December 2, 2020



APPLICANT: Dave Hunter

SUBJECT:

Discussion regarding the property located between Harmons and the Tuacahn Wash

BACKGROUND DESCRIPTION:

Mr. Hunter spoke with the Mayor and would like to visit with the council regarding the property located between Harmons and the Tuacahn wash.

Proposed Recommendation

Approval

Cost

0.00

Approved by Legal Department

N/A

Approved in Budget

N/A

Approved by City Finance Department

N/A

Amount

0.00

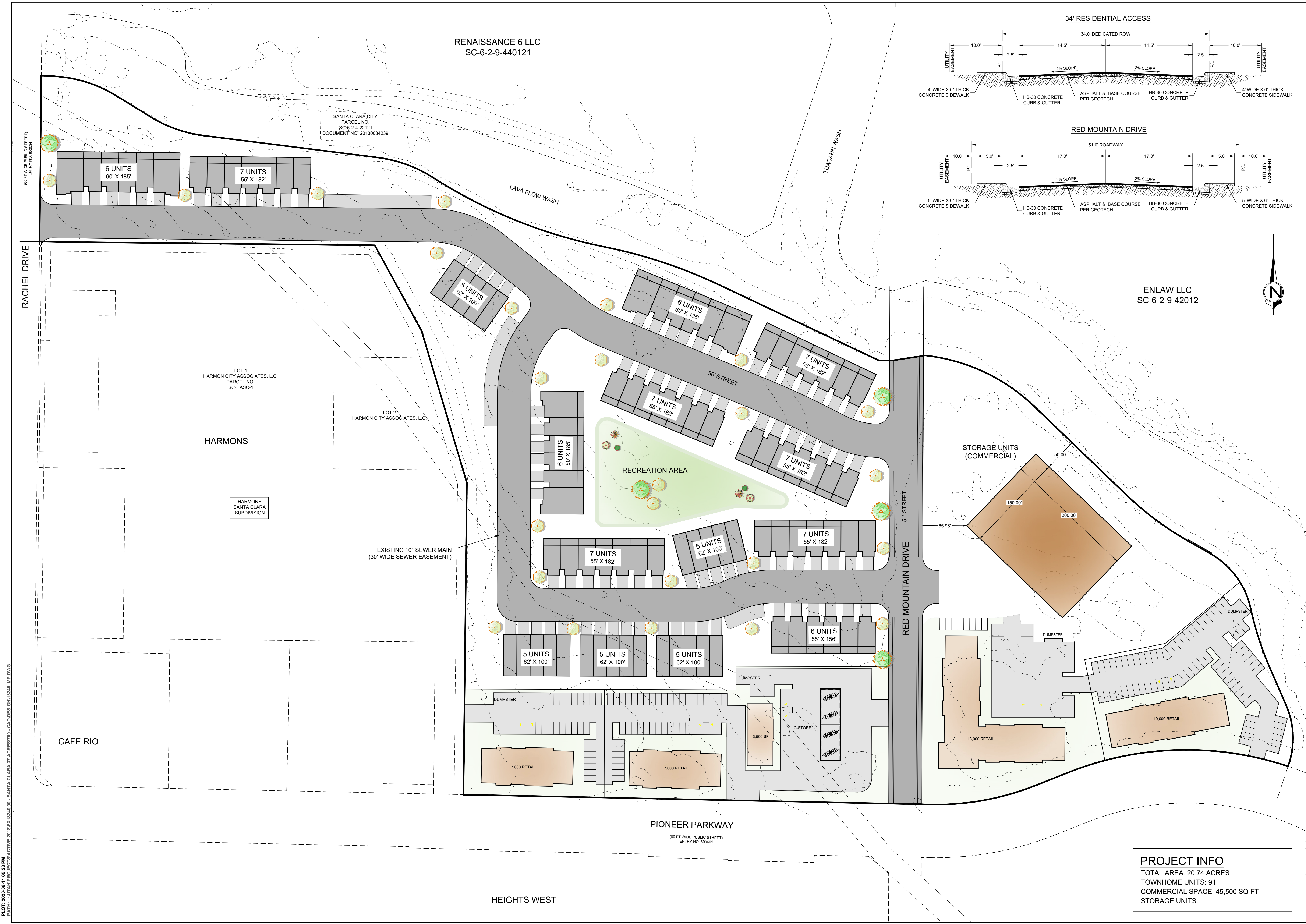
Requested By

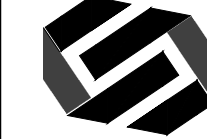
Mayor Rosenberg

File Upload Attachments

<https://sccity.org/wp-content/uploads/formidable/41/Dave-Hunter-Property-Discussion.pdf>





**CivilScience**
INFRASTRUCTURE, INC.

1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435.986.0100

CONCEPTUAL SITE PLAN

PREPARED FOR: SILVERADO BUILDING COMPANY
LOCATED IN SANTA CLARA, UTAH

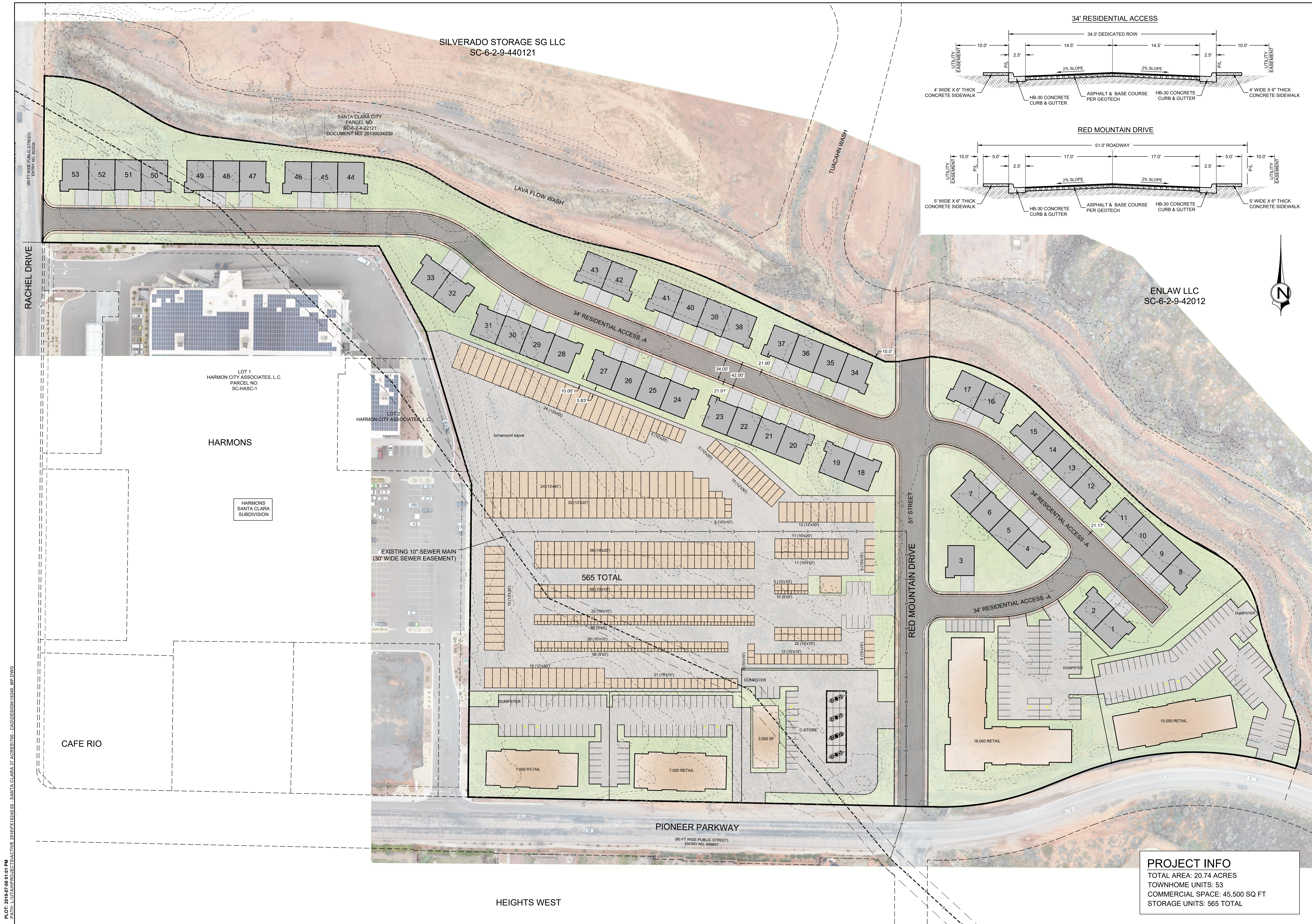
PROJECT INFO

TOTAL AREA: 20.74 ACRES
TOWNHOME UNITS: 91
COMMERCIAL SPACE: 45,500 SQ FT
STORAGE UNITS:

PROJ. #: Fx-18240.00
DRAWN BY: 7/31/2020
DATE: BLW
CHECKED BY:
SCALE OF SHEET:
HOR SCALE: NTS
VER SCALE: N/A
SHEET

1 OF 1

PLOT: 2019-07-08 01:01 PM
PATH: L:\UTAH\PROJECTS\ACTIVE 2019\FX18240.00 - SANTA CLARA 37 ACRES\700 - CAD\DESIGN\18240.MP.DWG



**CivilScience**
INFRASTRUCTURE, INC.

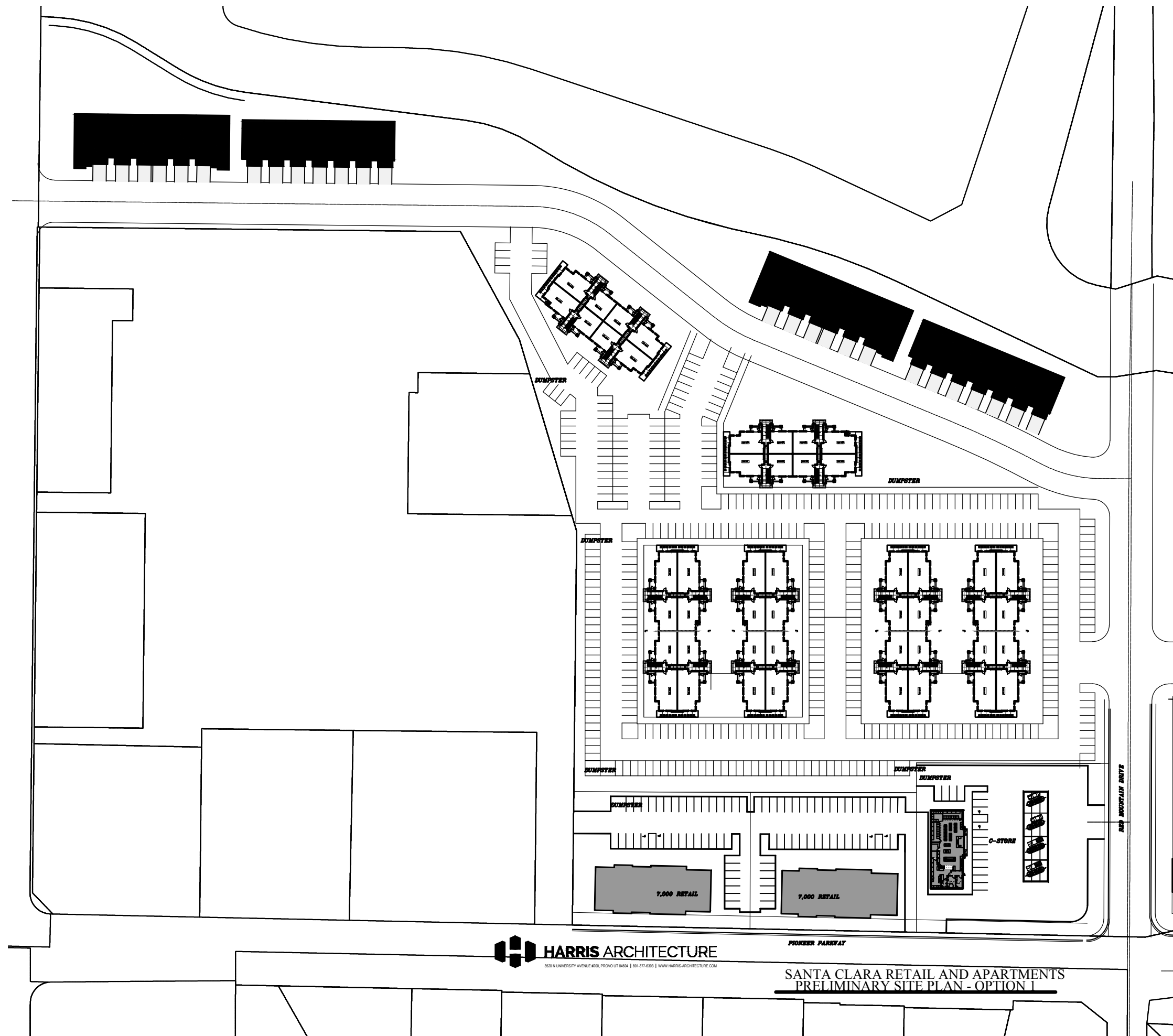
1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435.986.0100

SITE PLAN

PREPARED FOR: SILVERADO BUILDING COMPANY
LOCATED IN SANTA CLARA, UTAH

PROJ. #: FX-18240.00
DRAWN BY: 7/08/2019
DATE: BLW
CHECKED BY:
SCALE OF SHEET
HOR SCALE: NTS
VER SCALE: N/A
SHEET

1 OF 1



REQUEST FOR COUNCIL ACTION

AGENDA ITEM 2

December 2, 2020



APPLICANT: Santa Clara Water Department

SUBJECT:

Update hydrant meter policy and rates

BACKGROUND DESCRIPTION:

The water department would like to update our hydrant meter policy. In the new policy the deposit increases from \$800 to \$1,500 (the cost of a new meter). It clearly states the customer is responsible for bringing the meter in each month for inspection and to read the meter. It also sets forth the penalty if the customer does not bring in the meter for inspection and to be read each month. The daily rate would increase from \$2.50 to \$5.00 per day. The water rate per thousand gallons would remain the same at \$2.50 per thousand gallons.

Proposed Recommendation

Approval

Cost

0.00

Approved by Legal Department

N/A

Approved in Budget

N/A

Approved by City Finance Department

Yes

Amount

0.00

Requested By

Jack Taylor & Brock Jacobsen

File Upload Attachments

<https://sccity.org/wp-content/uploads/formidable/41/Santa-Clara-Hydrant-Meter-Rental-2020.pdf>



Public Works Department
2603 Santa Clara Drive
Santa Clara, Utah 84765
Phone: (435) 656-4690
Fax: (435) 879-5298
Email: contact@sccity.org
www.sccity.org/hydrant-rental

OFFICE USE ONLY

Meter ID #: _____
Begin Date: _____
Begin Read: _____
Return Date: _____
Final Read: _____
Deposit Reference: _____
Account #: _____

\$ 1,500.00 Deposit
\$ 5.00 Per Day
\$ 2.50 Per 1,000 Gallons

HYDRANT METER RENTAL APPLICATION

Location Description/Address of Meter: _____

APPLICANT INFORMATION

Company Name: _____
Address: _____
Billing Address: _____
Contact Person: _____
Contact Phone: _____
Office Phone: _____
Email: _____

HYDRANT METER RENTAL AGREEMENT & PROCEDURES

Deposit: Customer/Contractor requesting temporary water for construction will complete a Hydrant Meter Rental application/agreement form and turn it into the City Public Works Department along with a \$ 1,500.000 deposit. The deposit will be held until the meter is returned in good working order. Deposits can be paid by check or card.

Readings: The customer/contractor will be responsible for returning the meter to the Public Works Department each month for inspecting and reading. Customers will be required to check the meter in on or before the 1st of each month (no exceptions). On the 5th of each month a \$50.00 penalty will be billed on all accounts with no read for that month. Accounts with a second missed reading will be charged a \$ 200.00 penalty. After the third missed reading, a \$ 500.00 penalty will be charged. The customer is responsible for any damages to the meter and will be billed for any repairs that are needed. After the meter reading is recorded each month, the meter will be reissued to the customer.

Billing: The applicant agrees to pay for all water metered. Charges for the water will be made according to the current policy. If the applicant is an entity other than an individual, both the entity and the individual shall be considered the applicant, and both agree to pay for all water used. Payment is due immediately upon billing and shall become delinquent if not paid within 30 days.

REQUEST FOR COUNCIL ACTION

AGENDA ITEM 3

December 2, 2020



APPLICANT: Santa Clara City

SUBJECT:

Special Assessment Areas

BACKGROUND DESCRIPTION:

A special assessment area (SAA) is an option to help facilitate financing of a project in a particular area. These areas were previously known as special improvement districts. Vineyard Drive is an area which has been discussed as a possible special assessment area to help finance the improvements to be paid for by the residents in the assessment area. We want to have a discussion about SAA's and see if it is an option to present to the Vineyard Drive committee to help with financing the project.

Proposed Recommendation

Discussion

Cost

0.00

Approved by Legal Department

N/A

Approved in Budget

N/A

Approved by City Finance Department

N/A

Amount

0.00

Requested By

Brock Jacobsen

File Upload Attachments

<https://sccity.org/wp-content/uploads/formidable/41/Special-Assessment-Areas-Zions-Bank2.pdf>

Accounts will be billed \$ 2.50 per thousand gallons of water used and \$ 5.00 per day of use.

1st Missed Reading - \$ 50.00 penalty charged to account

2nd Missed Reading - \$ 200.00 penalty charged to account

3rd Missed Reading - \$ 500.00 penalty charged to account

NOTICE: Fire Hydrant tampering and/or water theft will result in a minimum of a Class B Misdemeanor. The use of a Santa Clara Hydrant Meter outside Santa Clara limits is prohibited.

By Signing below, you are agreeing to the terms outlined above.

Date: _____
Name (Printed): _____
Signature: _____

Inspection & Reading Record: 1st of Each Month

Date Issued	Date Read	Reading	Usage

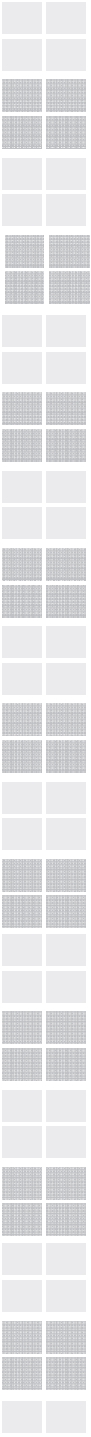


What is a Special Assessment Area?

- A Special Assessment Area is a financing vehicle used when a municipal improvement benefits a particular area to a greater extent than it benefits the municipality.
- Special Assessment Areas were known as SIDs (Special Improvement Districts) prior to 2007.
- Special Assessment Areas and Special Assessment Bonds are used by cities to finance improvements like curb, gutter, and sidewalk. They also can be used to fund infrastructure like roads, water, sewer, storm drain, and street lighting in new developments.

City-Initiated Projects





Special Assessment Bonds: Cautionary Tales

What are the risks to a city in creating a Special
Assessment Area?

Mailing Notification

- The Responsibility- A “double mailer” detailing the intention to create the SAA, outlining the project and the estimated cost, the method of assessment, and the procedure for protesting the creation of the SAA must be sent to both:
 - ❑ Every physical address within the proposed SAA
 - ❑ Every taxpayer of record from the County’s taxpayer rolls.
- The Risk- Incomplete or improper notification can invalidate the process and require you to begin the entire creation sequence again. Property owners can also challenge an assessment after the improvements are in, causing the City to eat the cost. And you can really upset and alienate your residents.
- The Remedy- Certified mail! Be overly thorough if necessary to ensure legal compliance with Statute.



Cost Estimates

- The Responsibility-Provide property owners in the proposed SAA with an accurate estimate of the cost they will face if the SAA is created.
- The Risk-If final costs come in substantially higher, residents may be able to challenge the legality of the higher assessment and avoid payment. In such an instance, the City could be liable for cost overruns.
- The Remedy-Be conservative. It's ok to begin with a detailed engineer's estimate, but be careful to be very conservative with your estimates and include plenty of contingency. It's easy to tell people their assessment will be lower!

Final Project Design

- The Responsibility-Initial notification must include a detailed description of the project that the SAA is being created to fund.
- The Risk-If the project evolves or changes in any way from the initial notification, certain property owners may no longer benefit or would benefit to different degrees. Residents who no longer benefit cannot be forced to pay, potentially leaving cost overruns for the City to manage.
- The Remedy-Don't put the cart before the horse. Don't begin the process until all parties agree to the scope of the project and near-final design is in place. If the project changes substantially, be prepared to begin the process all over.



Identifying Properties

- The Responsibility-All benefitted properties must be included in an SAA. Property that will not be benefitted may not be included or assessed.
- The Risk-Property owners that are not benefitted cannot be required to pay an assessment (or even be included in the SAA). If estimates for individual assessments are based on the inclusion of “not benefitted” properties, the actual assessment figures will be understated.
- The Remedy-Work closely with your project engineers, legal counsel, and financial advisor to ensure that only benefited properties are included. Properties may be added or deleted after the designation of an SAA, but the process is cumbersome and is better done right the first time.



Recordation

- The Responsibility-Once the SAA is created, the designation resolution must be recorded within fifteen days and a notice of proposed assessment must be on file with the county recorder.
- The Risk-If the recordation does not occur properly people who purchase property within the SAA may be completely unaware that a lien exists for the assessment.
- The Remedy-Proceed carefully-make sure this is done correctly. Don't take anything for granted.



Method of Assessment

- The Responsibility-All assessments must be made in an “equal and uniform” manner according to the benefits received.
- The Risk-Property owners may disagree about what is “equal and uniform” and protest the creation of the SAA if they feel the method of assessment is unfair. There may be competing interests between residential and commercial property owners.
- The Remedy-Involve bond counsel, your city attorney and your financial advisor in the process to determine the most acceptable method of assessment, either by acreage, taxable value, lot, front-footage, ERUs, or some combination thereof.



Prospect of Foreclosure

- The Responsibility-In the event of nonpayment, property owners can lose their property through foreclosure in 4-5 months. The City would be responsible for initiating that process, usually through an attorney acting as foreclosure trustee.
- The Risk-Evicting residents from homes can become a political hot potato. In some instances, municipalities have stepped in to make assessment payments on behalf of residents and then sought to recover payment on their own.
- The Remedy-Rarely will a governing body have the political will to throw someone out of their home. Be aware of this risk and decide in advance how this eventuality would be handled.



Political Fallout from Contested Assessment Areas

- The Responsibility-If owner of property representing less than a majority of the proposed assessments protest the designation of the SAA, the City may proceed with the creation and the assessment.
- The Risk-Even if SAA can legally move forward, there is political risk if a large number of protests have occurred. On particularly contentious projects, an area that can proceed but only by a slim margin will bring increased scrutiny and focus to procedural aspects of the creation and could incite litigation.
- The Remedy-Political leaders should be sensitive to any amount of protests. Understand why some property owners are protesting and seek to proactively mitigate their concerns where possible.

REQUEST FOR COUNCIL ACTION AGENDA ITEM 4

December 2, 2020



APPLICANT: Jack Taylor

SUBJECT:

Santa Clara City Power is looking at adding a 2.5 KW generator at the Santa Clara Generation Building. Cat has developed a Cat G3520H that will pick up load better than the unites we have at this time.

BACKGROUND DESCRIPTION:

Years ago Santa Clara built a generation building to handle six Cat 3520 generators to cover high load hours and for emergency power. Santa Clara started with two 2,000 kw generators and at one time we housed two generators for Washington City. A few years ago Washington took their generators and installed them in their own building, leaving us four spots left for generators. Because of higher power costs in June, July, August and September staff would like to install another generator to help cover peaking high load hours and for emergency power. Staff feels like we can hold off on the south hills substation and the second phase of the 69 KVA power line projects this year. We have funds in impact fees and reserves to cover half the costs and we would like to refinance the other half by restructuring a power bond.

Proposed Recommendation

Discussion

Cost

\$2,217,986.42

Approved by Legal Department

N/A

Approved in Budget

No

Approved by City Finance Department

No

Amount

\$2,217,986.42

Requested By

Jack Taylor

File Upload Attachments

<https://sccity.org/wp-content/uploads/formidable/41/G3520-stanby-and-G3520H.pdf>, <https://sccity.org/wp-content/uploads/formidable/41/Financing.pdf>, <https://sccity.org/wp-content/uploads/formidable/41/Cat-Generation-G3520.pdf>



Conclusions

- Have your eyes wide open to the risks of special assessment financings.
- Work with competent, trained professionals like your financial advisor and bond counsel.
- Remember that a special assessment bond is done in your name and is ultimately your financing. Make sure you run the show.
- The devil is in the details— pay attention to the process and follow it to the letter.

Cat® Electric Power

Santa Clara City Power

G3520 Standby
and G3520H
November 11,
2020



BUILT FOR IT.™

Wheeler
Power Systems

CAT®

Purpose of Meeting: G3520 and G3520H Comparison - Identify Best Solution

Cat® G3520

Gas Generator Sets



Bore – mm (in)	170 (6.7)
Stroke – mm (in)	215 (8.5)
Displacement – L (in³)	97.6 (5956)
Compression Ratio	11.5:1
Aspiration	Turbocharged
Fuel System	Electronic Fuel Control Valve
Governor Type	ADEM™ A4

Cat® G3520H

60 Hz Continuous Gas Generator Sets



Bore – mm (in)	170 (6.7)
Stroke – mm (in)	215 (8.5)
Displacement – L (in³)	97.5 (5956)
Aspiration	Turbocharged
Fuel System	Electronic Fuel Control Valve
Governor Type	ADEM™ A4

Wheeler
Power Systems



Capital Cost and Technical Comparisons 20H and 20Standby

Category	Model G3520 Standby	Model G3520H	Delta	Favor G3520 Standby G3520H		Notes
Site kW Output	2,619	2,399	8.40%	X		
Heat Rate	9,549	8,997	5.79%		X	Genset Fuel Consumption BTU/eKW-hr HHV. C Model ~10,754
Genset Efficiency	40.30	42.20	4.50%		X	Electrical efficiency
Footprint (Ft.)	22.17	25.17	11.92%	X		
RPM	1800.00	1500.00	16.67%		X	Debatable
Begin Air inlet temp Derate F	100	86	14.00%	X		Air Inlet temp at which unit begins to derate from Site kW
Capital \$	\$ 2,441,846.60	\$ 2,368,345.96	-3.10%		X	Budgetary Estimate - SCR Not Included, Oxidation Catalyst Only
\$/kW	\$ 932.36	\$ 987.22	5.56%	X		
Strike Price With Capital	\$ 43.31	\$ 43.26	0.11%		X	100% Utilization @ \$2.50 Gas
Strike Price With Capital	\$ 72.53	\$ 74.20	2.25%	X		20% Utilization (1752 hrs./Year) @ \$2.50 Gas
Strike Price Without Capital	\$ 36.00	\$ 35.53	1.33%		X	At \$2.50 Gas
Generator Coupling	Close Coupled	Gearbox		X		Less Parts to Maintain
Transient Loading	100%	20%	80.00%	X		% of load picked up in single step
Lead Time	15-17	18-20	17.00%	X		Weeks from time of order placement

Unit	Factory kW	Site kW	Site Heat Rate (BTU/eKW-hr HHV)	Engine Speed	Top End Overhaul	Overhaul	Major
G3520H	2469	2399	8997	1500	18000	35000	70000
G3520C	2050	1900	10754	1800	7500	24000	40000
% Difference	17%	21%	16%	17%	58%	31%	43%

*Bottom Table from 2018 Look.

Cat® Electric Power



Maintenance Comparisons

G3520 Standby

- 2000 Hour:
 - Hour Spark Plugs
 - Valve Recession
 - Valve Lash and Bridge check
- 4,000 Hour*:
 - Oil Change Interval*
- 8000 Hour:
 - NOx Sensor Calibrate/Replace
- 18,000-22,000 Hours:
 - Top End Overhaul
 - Inspect Turbo
- 35,000-45,000 Hours:
 - Overhaul In-Frame
- Between 70,000 and 90,000 Hours:
 - Major Overhaul
- *Estimated, Oil change interval
 - will be determined by Oil SOS results

G3520H

- 2000 Hour*:
 - Oil and filter change
 - Spark Plugs
- 4000 Hour:
 - Valve Recession
 - Valve Lash and Bridge Check
- 10000 Hour:
 - NOx Sensor Calibrate/Replace
- 18,000-22,000 Hours:
 - Top End Overhaul
 - Inspect Turbo
- 35,000-45,000 Hours:
 - Overhaul In-Frame
- Between 70,000 and 90,000 Hours:
 - Major Overhaul

Current debt	Principal	
2012	463,000.00	
2017	1,925,000.00	
2021	<u>1,216,000.00</u>	New debt for generator
	3,604,000.00	

All debt is paid off in August 2031

Level	Principal	Interest	Total
	3,604,000.00	268,842.00	3,872,842.00
	Average annual payment of \$355,547		

Spread all 3 bonds out over 10 years *vs*

Uniform	3,604,000.00	307,017.00	3,911,017.00
	Average annual payment \$352,077		

The 2 refunded bonds keep repay *time 2007 to 2029*

Difference	38,175.00
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Current debt	Principal
2012	463,000.00
2017	1,925,000.00

Current Average Annual Payments

2012	64,508.00
2017	<u>340,035.00</u>
Total	404,543.00

Santa Clara City Power Generation Facility Caterpillar G3520 Turnkey Install Proposal



Presented by Wheeler Power Systems

4901 West 2100 South * Salt Lake City, Utah 84120

Shane Minor

Utility, Governmental & International Sales

Phone: 801-978-1533

Cell: 801-201-0929

sminor@wheelercat.com

10-27-2020



Santa Clara City Power
Attn: Jack Taylor
G3520 Install Project
Santa Clara City Power Generation Facility
Santa Clara, Utah

Date: 11/10/2020
Quote # 2020-SPM-28
Quotation Valid for 30 Days
Salesman: Shane Minor
Mobile: (801) 201-0929
sminor@wheelercat.com

PROPOSAL

Project Price.....	\$2,217,986.42
Cost/kW.....	\$846.88
Options:	
Additional Cost for Lower dB(A) Radiators.....	\$79,081.18
Remote Racking and Breaker Closing.....	\$17,941.18
Air Permit Engineering Services.....	\$27,647.06

Project Description



(Image Representative)

QTY	
1	New Caterpillar G3520 Generator Set, rated 2619 kW, 12.47kV, 152 AMPS, 60 Hz, 3 Phase, Load Management Rating, Non-Emission Certified, .5 Gram NOx at the following site conditions: Altitude 3360 Feet, 115F outside temperature. This is an open unit with no enclosure and no unit mounted radiator.

Standard Features

Cat® Natural Gas Engine

- Robust 20-cylinder high speed block design provides prolonged life and lower owning and operating costs
- Engineered for standby power and load management
- Designed for maximum performance on low pressure natural gas

Generator Set Package

Accepts 100% block load in one step

Facilitates compliance with NFPA 110, Type 10 starting and loading requirements (LV)

Conforms to ISO 8528-5 G2 load acceptance criteria

- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Generators

- Designed to match performance and output characteristics of Cat engines Superior motor starting capability minimizes
- Superior motor starting capability minimizes need for oversizing generator

Cooling System

- Package tested to ensure proper cooling of complete generator set

EMCP 4 Control Panels

- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site-specific programming for specific customer requirements

Warranty

- 12 months warranty for load management ratings
- Extended service protection is available to provide extended coverage options

Worldwide Product Support

- Cat® dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

GENERAL INFORMATION

G3520 Engine

Caterpillar Gas Engine Control Module (GECM)

(Based upon ADEM4 Module)

Features include:

Fuel/air ratio control

Start/stop logic:

Gas purge cycle

Staged shutdown

Engine Protection Systems:

Detonation Sensitive Timing

High exhaust temperature shutdown

Transient Richening and Turbo Bypass Control

Crankcase Explosion Relief Valves

AIR INLET SYSTEM

Two single-stage air-cleaners with differential pressure sensors.

COOLING SYSTEM

JW and SCAC Engine-Driven pumps

JW and SCAC thermostats

RH connections

EXHAUST SYSTEM

Dry exhaust manifold insulated and shielded.

Flange faced outlet on turbocharger.

Individual exhaust port and turbocharger outlet wired to Temperature Sensing Module with GECM providing alarms and shutdowns.

FUEL SYSTEM

Engine-installed electronic fuel control valve.

Throttle plate, electronically controlled 24V DC actuator; controlled by Gas Engine Control Module.

Fuel train must be installed on the package at the time of installation and is offered.

Gas trains contain the following parts:

24V DC Energized-To-Run (ETR) Gas Shutoff Valve.

Fuel filter

Gas pressure regulator (standard pressure only).

Flexible connection to the Engine Fuel inlet.

Fuel system is sized for 31.5 to 47.2 MJ/nM3 (800 to 1200 btu/cu ft) dry pipeline natural gas.

GENERATORS AND GENERATOR ATTACHMENTS

3-phase brushless, salient pole

6 lead

IEC Platinum Stator RTDs (.00385 Temp coefficient)

Winding and Bearing temperature detectors

Anti-Condensation space heaters

Caterpillar's Integrated Voltage Regulator (IVR)

IVR includes reactive droop capability, 3-phase voltage sensing,



General Contractor's License #: 87 00058-5501

KVAR modes, RFI suppression, min/max exciter.

Limiter and exciter diode monitor.

3000 Frame Generators.

Permanent Magnet Excitation

NEMA Class F Insulation (HV).

Temp Rises available at 40C ambient: 105C

Form Wound

GOVERNING SYSTEM

Caterpillar Gas Engine Control Module (GECM)

Based on ADEM A4 speed governor with 4 to 20 ma (0V to 5V) speed input.

Redundant Shutdown (Overspeed protection through a duplicate speed sensing system).

IGNITION SYSTEM

Electronic Ignition System (controlled by ADEM A4)

Individual Cylinder Detonation Sensitive Timing (DST)

INSTRUMENTATION

Remote mounted EMCP 4.4 controller which includes:

24-volt DC operation

Environmental sealed front face

Text alarm/event descriptions

Kilowatt transducer output

Controls:

Speed/ Voltage adjust

Auto/start/stop control

Alarm-acknowledge

Emergency stop pushbutton

Customer Warning/Shutdown Lamp test

True RMS AC metering, 3-phase, +/-2% accuracy

Remote monitoring and Control capability

Warning/shutdown with common LED indication of shutdowns with indicating lights for:

Low oil pressure

High/Low coolant temperature

High engine oil temp

Low, High and weak battery voltage

Overspeed

Failure to start (Overcrank)

Emergency stop

Loss of sensing

Air filter restriction

Impending shutdown

Digital indication for:

RPM

DC volts
Operating hours
Oil pressure (psi, kPa or bar)
Volts (L-L & L-N), frequency (Hz)
Amps (per phase & average)
Two (2) dedicated digital inputs
Twelve (12) Programmable digital inputs
Two (2) dedicated digital outputs
Sixteen (16) programmable digital outputs
Environmental:
Control module operating temperature:-40C to 70C
Display operating temperature: - 20C to 70C
Humidity: 100% condensing 30C to 60C
Storage temperature: -40C to 85C
Vibration: Random profile, 24-1000Hz, 6.0G rms
Generator protection:
Generator phase sequence
Over/Under voltage
Over/ Under frequency
Reverse power (kW)
Reverse reactive power (kVar)
Over current
Current balance
Over/Loss of Excitation
Generator temperature detectors

LUBE SYSTEM

Lubricating oil (optional selection)
Gear type lube oil pump.
Oil filter, filler and dipstick.
Integral lube oil cooler.
Oil drain lines and valve.
Crankcase breather.
Fumes disposal.
Positive crank ventilation (optional, shipped loose)

MOUNTING SYSTEM

Rails - Engine/Generator mounting
Spring anti-vibration mounts (Optional, Shipped loose)
Seismic anti-vibration mounts (Optional, Shipped loose)

STARTING/CHARGING SYSTEM

24V triple starting motors (included)
Battery disconnect switch
Jacket water heater is REQUIRED with standby:
Customer can provide or select from JW heater options
50-amp, 24V charging system alternator (optional)



General Contractor's License #: 87 00058-5501

Battery with rack and cables (optional, shipped loose)

20 AMP SENS Battery Charger

4 Maintenance Free 153-5710 Batteries

GENERAL

Paint--Caterpillar Yellow except rails Gloss Black rails.

Flywheel SAE No. 21, Flywheel housing SAE No. 00.

SAE Standard Rotation.

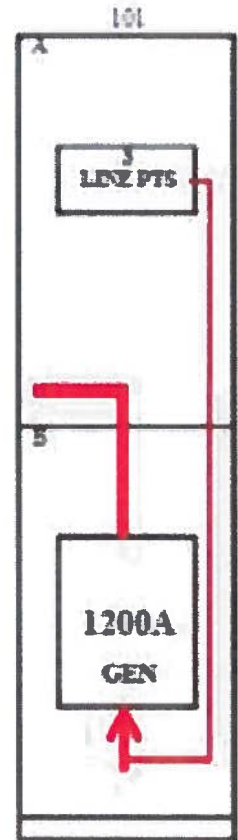
QTY

1

Caterpillar Switchgear – Bay 9 Generator Switchgear Section



To
Existing
powVac SWGR



APPROX Dimensions (Inches) & Weight (lbs)

LENGTH PER VERTICAL STACK: 36
HEIGHT: 93
DEPTH: 94
TOTAL STACKS: 1
TOTAL SWITCHGEAR LENGTH: 36
TOTAL LENGTH WITH AISLES: N/A
WEIGHT (INCLUDING BREAKERS): 4100

PROPOSITION: MP10122020 (242929)
PROP NAME: 15kV Add-on Section
PROP ENGINEER: SL
DESCRIPTION: 15KV - 30KA
1200A COPPER MAIN BUS
STANDARD INDOOR, NEMA 1
REVISION: 0

NOTE: Project examples are for illustration purposes only and are shown in a draft configuration. Actual configuration drawings will be provided during the submittal process

Powell (Formerly GE) POWER/VAC Switchgear add-on section with custom Caterpillar EMCP4.4 Paralleling and Synchronizing controls for baseload and islanding capability. Sweitzer SEL700G Touchscreen Protective relay also included and mounted in switchgear.

ITEM 1: ONE (1) 15KV, 1200A POWERVAC SWITCHGEAR (07071)**Summary**

Powell will provide PowerVac Switchgear to include all material and engineering. All work to be performed in accordance with manufacturer standards and the clarifications provided in this proposal.

POWER/VAC® Switchgear
Tag Number: 15kV Add-On Section

One (1) line-up of Power/Vac® switchgear with vacuum circuit breakers designed in accordance with ANSI and IEEE standards C37.04, C37.06, and C37.20.2 rated as follows:

Maximum Voltage (rms):	15kV
ANSI Rating Basis:	kA Rated
Operating Voltage:	12.47kV
Short Circuit Current Rating:	20kA
Peak Current:	54KA Peak
Close Voltage:	120VAC
Trip Voltage:	120VAC

(1) Vertical section of Power/Vac® switchgear each with the following common features:

- Indoor enclosure, 11 gauge steel
- Basic one-high construction with hinged front compartment door and bolted rear access cover
- 1200A main bus, Tin plated copper, 3 phase, 3 wire
- Flame retardant and track resistant Epoxy (fluidized bed process) bus insulation system
- Molded insulation cover boots at bus joints with removable non-metallic hardware
- Epoxy main bus pass through insulators in a glass polyester mounting
- Zinc-dichromate plated carbon steel bus hardware
- Ground bus, 0.25 X 2 inch, Tin-Plated copper
- Control terminal blocks, 600 volt, 30 ampere
- Control wiring, 14 gauge, 41 strand, type SIS with VW-1 flame retardant rating
- Control wire termination, insulated, locking fork, crimp type
- Current transformer shorting type terminal blocks
- Current transformer control wiring, 10 gauge, 105 strand, type SIS with VW-1 flame retardant rating
- Current transformer terminations, insulated, ring-tongue, crimp type
- 10% Spare terminal blocks
- Control power bus #8 AWG SIS wire with insulated, locking fork, crimp type wire termination

- Laminated plastic device nameplates, stainless steel mounting screws
 - Wiremarkers, thermally imprinted natvar sleeving
 - Powder coat paint finish
 - ANSI-61, light gray interior and exterior
- (1) **Set of enclosure options:**
- 2 Ground cable lugs #2-250MCM
- (1) **Set of Incoming line voltage monitoring equipment to include:**
- 1 Roll-out assembly complete with primary & secondary fuses
 - 1 Set of hard copper bus connection to PT's primary
 - 3 Voltage transformers, 14400:120 volts
- (1) **GEN Circuit Breaker equipment set to include:**
- 1 Circuit breaker cell rated 1200A
 - 1 Tin plated copper runback bus assembly rated 1200A
 - 1 Lot of bus stand off supports for 1200A
 - 1 Set of three phase cable connection cover insulating boots
 - 1 Power/Vac® drawout vacuum circuit breaker rated 1200A, 15kV, 20kA
 - 1 Circuit breaker capacitor trip device, ITI model CTDB-6
 - 1 Breaker secondary disconnect harness, #14 ga with insulated lugs
 - 1 Circuit breaker open/close control switch
 - 2 Circuit breaker status indicating lights LED type, Control Concepts
 - 1 MOC-52STA6, 6 stage
 - 1 TOC-52POS6, 6 stage
 - 1 Circuit breaker position indicator
 - 1 Circuit breaker closed door manual racking
 - 1 Set close/trip circuit disconnect fuse block with fuses (Tilt-out type)
 - 6 Current transformers, single ratio, standard burden
 - 1 SEL-700G Generator and Intertie Protection Relay (0700G01A1A1A3A85A400)
 - 1 Device 86, lockout relay, 12 contacts (Three Decks)
 - 2 Test Switch, 6 Current, 4 Potential test block, 10 point
- (1) **Set of Switchgear accessories to include:**
- 1 Manual charging handle
 - 1 Circuit breaker racking handle
 - 1 Touch-up paint
 - 1 AC control power UPS
- (1) **Set of Miscellaneous Items to include:**
- 1 Lot of Cable Lugs

QTY
1

STROMART SUTTON RADIATOR

Engine & Environment

Engine		Site Conditions	
1	Engine:	Caterpillar G3520	7 Ambient Temp: 120.0 °F
2	Rated Power:		8 Elevation: 3,360' ASL
3	Electrical Power:		9 External Static: 0.00 "WG
4	Duty Rating:		
5	System Configuration:	2 Circuit - Stacked Cores (SCAC)	
6	Core Orientation:	Horizontal Core	

Engine Circuit(s)

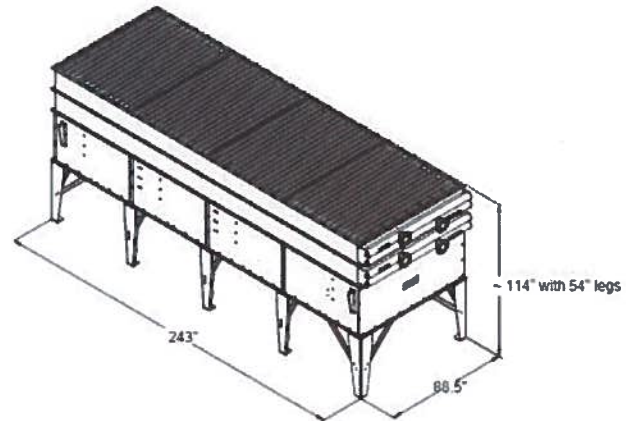
	Jacket Water Circuit	After Cooler Circuit
10	Heat Load: 95,928 BTU/Min	23,253 BTU/Min
11	Safety Factors: Engine: 0% Customer: 0%	Engine: 0% Customer: 0%
12	Design Heat Load: 95,928 BTU/Min	23,253 BTU/Min
13	Coolant Type/Mix: Ethylene Glycol @ 50%	Ethylene Glycol @ 50%
14	Flow: 540 USGPM	180 USGPM
15	Out from Engine: 210.0 °F	147.9 °F
16	Return to Engine: 185.6 °F	130.0 °F

Radiator(s)

	Jacket Water Radiator	After Cooler Radiator
25	Core Type: Sutton Round Copper Tube - 5/8" Dia. x .020" Wall	Sutton Round Copper Tube - 5/8" Dia. x .020" Wall
26	Connection Type: 6" Flange	3" Flange
27	Internal Pressure Drop: 6.2 PSI	7.1 PSI

Fan & Motors(s)

28	Fan Quantity x Fan Type @ Dia.:	4 x Multi-Wing Fan @ 48"
29	Fan RPM:	1,200
30	Direct Drive:	Yes
31	Projected Sound Level:	86 dBA @ 23.0 ft
32	Motor RPM:	1,200
33	Motor HP:	4 x 15 HP
34	Motor Electrical:	460/3/60
35	Design Air Flow:	108,000 SCFM



QTY

1

MIRATECH GROUND ACESS SILENCER/OXIDATION CATALYST HOUSING

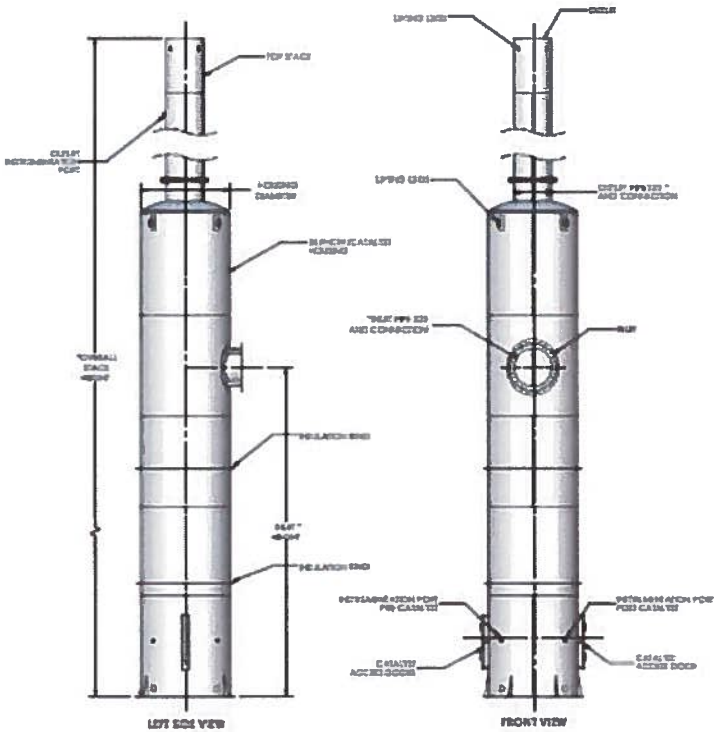
INNOVATIVE DESIGN

MIRATECH's Ground Access product line is a custom solution with a unique design for large gas compression and power generation engines. Ground Access is a combination catalyst/silencer that allows the housing to set vertically. Ground Access eliminates the need for stands, ladders and platforms, improves overall aesthetics, plus reduces install cost as well as install footprint.

Ground Access has a base mounted, ground accessible design. It is the solution for engines in the range of 1400 to 20,000+ hp.

Ground Access utilizes MIRATECH's VORTEX® catalyst elements that provide increased durability and catalyst performance from higher air-flow turbulence across the catalyst surface.

VORTEX® is engineered with an advanced substrate that has multiple turbulent zones, superior stability, better CO reduction and a two-year element warranty. It can be designed with extra catalyst tracks to meet future emission needs.



Emission	Raw Engine Emissions						Target Outlet Emissions						Calculated Reduction
	g/bhp-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	g/kWh-hr	lb/MMBtu-hr	g/bhp-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	g/kWh-hr	lb/MMBtu-hr	
NO _x **	0.67	2.08	03	119	0.808	1.08							
CO	1.76	7.04	273	500	2.36	5.2	0.12	0.49	10	35	0.165	0.36	93%
THC**	3	12	813	1,488	4.023	8.87							
NAHCHC**	0.33	1.32	89	164	0.443	0.98							
CHO	0.33	1.32	48	88	0.443	0.98							

CAT® DATA LOGGING AND ALARM SYSTEM 300 (DLAS300)



Cat® DLAS300 control box

The microprocessor-based Cat® DLAS300 is designed to continuously monitor and record exhaust backpressure, temperature, and event codes.

The DLAS300 supports multiple exhaust aftertreatment applications and is RICE/NESHAP and CARB compliant.

- Large data storage: 20,000 lines of data (up to 5,000 hours)
- No proprietary software required
- Compact design
- Simple to install, configure, and operate

View a real-time web page display of exhaust temperature and backpressure. Web page interface works with most standard browsers.

- Download data to a laptop in the form of a csv file.
- Configurable sample rate
- Ethernet interface – easy to use web pages, MODBUS TCP output
- Pre-wired harness included for easy installation
- Integrated pressure sensors factory calibrated
- Single button alarm reset
- Water-resistant enclosure and connections (IP 54)

QTY
1

Post Glover Neutral Ground Resistor

(Image Representative)



Post Glover Resistors, founded in 1892, has the industrial and utility experience in power resistors to deliver proven solutions for your critical applications. With the broadest line of resistor products and the most capable engineering, Post Glover Resistors remains the world leader in the industry. We proudly manufacture all our products in the USA.

QTY
2

Evaporative Cooling

MegEvap Evaporative
Cooling
Equipment

RCF Inc. Fillmore, Utah

Specifications - Model HV 50-20

Fan: 50" belt drive

CFM: 20,000

HP: Fan 1.0, Pumps fractional

Voltage: 115/230 single phase

Amps: 13.4/6.7

Dimensions: 80"H x 72"W x
40"D

Weight: 520 lbs. (Dry)

Standard Features:

Stainless steel wet section and fan housing

12" high efficiency rigid media

Adjustable water flow

Six blade high efficiency fan

Washable aluminum pre-filters

Adaptable to suspension or through the
wall mounting

Options:

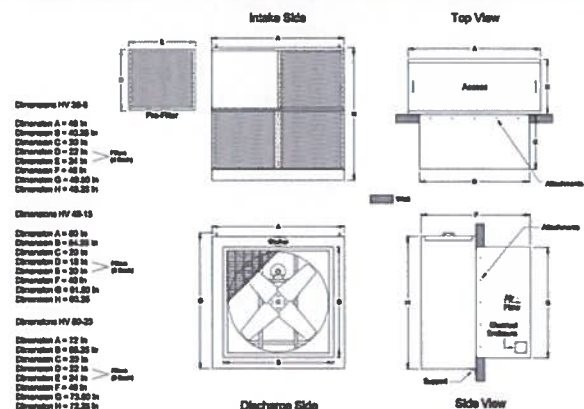
O.S.H.A. spec. guard screen for low
mounting heights

Three phase fan motor (suspension or through wall mount only)

Adjustable discharge dampers (suspension or through wall mount only)

Digital output air thermometer

Glasdek media



Balance of Plant

- **Freight for all equipment and components to Hurricane Generation Facility are included.**
- **Electrical**
 - Generator and switchgear low voltage DC and AC
 - Engine Controls
 - Ancillary Equipment
 - NGR
 - New Low Voltage Wire
 - Assist Powell during pre and post inspection of new switchgear section
 - SCADA Support
 - Electrical Marshalling/Pull/Control Box out at Generator
 - New Motor Starters for two swamp coolers
- **Cooling System**
 - Coolant Line Isolation Valves
 - Radiator Piping
 - Paint Radiator Piping
 - Radiator Piping Stands
 - Low Level Switches
 - Sight Glass/Level
 - Auto Bleeders
 - Auto Bleeder Brackets, Tubing
 - Auto Bleeders, Brackets, Tubing Install
 - Expansion Tank Stands
 - Expansion Tanks
 - Engine to Coolant Pipe Flexes
 - Install Engine to Coolant Pipe Flexes
 - Pipe Flexes/Gasket Bolt Kits
 - Temporary Strainers - Install and Removal
 - Temp Strainers - Gasket Kits
 - Bleeder Valves/Fittings and Thredolets for Gas Line and Coolant Lines
 - Coolant Drain Valves in Coolant Pipes
 - Expansion Tank to Radiator Headers Tubing
 - Expansion Tank to Radiator Headers Tubing install
 - Rubber Expansion Joints
 - Rubber Expansion Joints Hardware and Install
 - Radiator Mounting - Anchor
 - Radiator Mounting Install
 - Antifreeze
- **Exhaust**
 - Install Oxidation Catalyst/Silencer/Stack Assembly
 - Engine to Exhaust Pipe-Flex, Labor, Hardware



General Contractor's License #: 87 00058-5501

- Engine to Oxidation Catalyst Exhaust Piping
 - Exhaust Stacks - Hardware and Gaskets Kits
 - Thimbles/Flashing
 - Exhaust Wrap in Building
 - Exhaust Wrap Outside/Exhaust Pipe and Bottom of Catalyst housing
 - Exhaust Pipe Mounting Brackets/Hangers
 - Exhaust Stack/to Follow Air Permit Height Requirement
 - Exhaust Flex Connections from Exhaust Pipe to Catalyst Housing
- **Air Cooling**
 - 2 20,000 CFM Evaporative Coolers
 - Install Evaporative Coolers
 - New Motor Starters
 - Swamp Cooler Plumbing
 - Automated Controls
 - Pipe, Valves, Solenoids, Floats
- **Room Air Relief**
 - Exhaust Ventilator
 - Install Exhaust Ventilator
 - Damper for Relief Air as Needed
 - Curbs
- **Gas**
 - Welded and Painted Engine Gas Line from Main Header to Engine
 - Gas Line Mounts and Brackets
 - Drop Down Pressure Regulator
 - Regulator Install and Set Up
- **Misc.**
 - Crane Rentals
 - Repair conduits and concrete near engine in existing slab and pad
 - Concrete cutting for coolant piping, conduits and evaporative coolers through wall
 - Freight, Hotshots
 - Paint block wall where cuts are made
 - Connect Oil Lines for Filling and emptying engine
 - Connect Water Lines for Filling and emptying engine
 - Crankcase Ventilation Mounting Stand
 - Crankcase Mounting system Install and Labor
 - Concrete anchors, wall anchors, box mounting hardware, Unistrut, pipe clamps, hold down clamps, bracketry
 - New Oil Tank for Synthetic Engine Oil (180 gallon)
 - Labor and Supplies to pipe in system and make functional
 - New Oil Pump for pumping fresh synthetic oil into engine
 - Will tie in the engine waste oil drain to the existing system

- **OTHER**
 - Emission Testing
 - Engineering Services – test breaker and protective relay, coordination study, program protective relay, settings, as-builts schematics/drawings
 - General Conditions: Mobilize/Demobilize, Transport Supply Conex Containers to Site, Trash Service, Porta Toilet Service, Temporary Internet Service
 - Transport Office Container to Site
 - Telehandler Rental
 - Scissor Lift Rental
 - Rigging Services to get generator into plant
 - For project management and communication between Wheeler and Hurricane City Power, we will be utilizing Procore® an all-in-one construction management software built to help finish quality projects and communicate important submittal and other documentational info as well as share drawings, submit RFIs and other important data amongst all team members and Santa Clara City Power.
 - Installation of all equipment
 - Startup
 - Commissioning
 - System Set-Up

Notes & Clarifications:

- The scope contained herein is covered under a 1-year warranty unless otherwise specified below. The warranty begins at final completion and commissioning of project.
- Genset availability is estimated at 14-16 weeks from date of submittal approval.
- Provides Caterpillar standard warranty, one (1) year on continuous duty gensets.

Items	Warranty Terms
Switchgear	Cat Switchgear Aftermarket Services warranty period is the shorter of:
	12 months from startup completion for equipment / materials provided
	90 days from startup completion for onsite labor and workmanship
	OR
	18 months from shipment

- Taxes are not included in this quotation and may or may not apply.
- Quoted Radiator will be 85dB(A) at 23 feet
- Optional Radiator will be 62dB(A) a 33 Feet
- Optional Radiators (jacket water and aftercooler) will need to be butted up to each other side to side and a custom stand built for each one to get them 3 feet in the air. This drives the cost up.

City of Santa Clara, Utah

\$3,604,000 Electric Revenue and Refunding Bonds

Series June 1, 2021

(Refund Series 2012, 2017 and New Money) LEVEL

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
06/01/2021	-	-	-	-	-
08/01/2021	346,000.00	1.620%	9,730.80	355,730.80	355,730.80
02/01/2022	-	-	26,389.80	26,389.80	-
08/01/2022	303,000.00	1.620%	26,389.80	329,389.80	355,779.60
02/01/2023	-	-	23,935.50	23,935.50	-
08/01/2023	308,000.00	1.620%	23,935.50	331,935.50	355,871.00
02/01/2024	-	-	21,440.70	21,440.70	-
08/01/2024	312,000.00	1.620%	21,440.70	333,440.70	354,881.40
02/01/2025	-	-	18,913.50	18,913.50	-
08/01/2025	318,000.00	1.620%	18,913.50	336,913.50	355,827.00
02/01/2026	-	-	16,337.70	16,337.70	-
08/01/2026	322,000.00	1.620%	16,337.70	338,337.70	354,675.40
02/01/2027	-	-	13,729.50	13,729.50	-
08/01/2027	328,000.00	1.620%	13,729.50	341,729.50	355,459.00
02/01/2028	-	-	11,072.70	11,072.70	-
08/01/2028	334,000.00	1.620%	11,072.70	345,072.70	356,145.40
02/01/2029	-	-	8,367.30	8,367.30	-
08/01/2029	339,000.00	1.620%	8,367.30	347,367.30	355,734.60
02/01/2030	-	-	5,621.40	5,621.40	-
08/01/2030	344,000.00	1.620%	5,621.40	349,621.40	355,242.80
02/01/2031	-	-	2,835.00	2,835.00	-
08/01/2031	350,000.00	1.620%	2,835.00	352,835.00	355,670.00
Total	\$3,604,000.00	-	\$307,017.00	\$3,911,017.00	-

Yield Statistics

Bond Year Dollars	\$18,951.67
Average Life	5.259 Years
Average Coupon	1.6200000%

Net Interest Cost (NIC)	1.6200000%
True Interest Cost (TIC)	1.6201464%
Bond Yield for Arbitrage Purposes	1.6201464%
All Inclusive Cost (AIC)	1.8750243%

IRS Form 8038

Net Interest Cost	1.6200000%
Weighted Average Maturity	5.259 Years

City of Santa Clara, Utah

\$3,604,000 Electric Revenue and Refunding Bonds

Series June 1, 2021

(Refund Series 2012, 2017 and New Money) UNIFORM

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
06/01/2021	-	-	-	-	-
08/01/2021	362,000.00	1.570%	9,430.47	371,430.47	371,430.47
02/01/2022	-	-	25,449.70	25,449.70	-
08/01/2022	372,000.00	1.570%	25,449.70	397,449.70	422,899.40
02/01/2023	-	-	22,529.50	22,529.50	-
08/01/2023	371,000.00	1.570%	22,529.50	393,529.50	416,059.00
02/01/2024	-	-	19,617.15	19,617.15	-
08/01/2024	379,000.00	1.570%	19,617.15	398,617.15	418,234.30
02/01/2025	-	-	16,642.00	16,642.00	-
08/01/2025	387,000.00	1.570%	16,642.00	403,642.00	420,284.00
02/01/2026	-	-	13,604.05	13,604.05	-
08/01/2026	394,000.00	1.570%	13,604.05	407,604.05	421,208.10
02/01/2027	-	-	10,511.15	10,511.15	-
08/01/2027	259,000.00	1.570%	10,511.15	269,511.15	280,022.30
02/01/2028	-	-	8,478.00	8,478.00	-
08/01/2028	264,000.00	1.570%	8,478.00	272,478.00	280,956.00
02/01/2029	-	-	6,405.60	6,405.60	-
08/01/2029	268,000.00	1.570%	6,405.60	274,405.60	280,811.20
02/01/2030	-	-	4,301.80	4,301.80	-
08/01/2030	272,000.00	1.570%	4,301.80	276,301.80	280,603.60
02/01/2031	-	-	2,166.60	2,166.60	-
08/01/2031	276,000.00	1.570%	2,166.60	278,166.60	280,333.20
Total	\$3,604,000.00	-	\$268,841.57	\$3,872,841.57	-

Yield Statistics

Bond Year Dollars	\$17,123.67
Average Life	4.751 Years
Average Coupon	1.5700000%
Net Interest Cost (NIC)	1.5700000%
True Interest Cost (TIC)	1.5701514%
Bond Yield for Arbitrage Purposes	1.5701514%
All Inclusive Cost (AIC)	1.8508947%

IRS Form 8038

Net Interest Cost	1.5700000%
Weighted Average Maturity	4.751 Years

City of Santa Clara, Utah

\$3,604,000 Electric Revenue and Refunding Bonds

Series June 1, 2021

(Refund Series 2012, 2017 and New Money) UNIFORM

Total Issue Sources And Uses

Dated 06/01/2021 | Delivered 06/01/2021

	Ref 2012	Ref 2017	New Money	Issue Summary
Sources Of Funds				
Par Amount of Bonds	\$463,000.00	\$1,925,000.00	\$1,216,000.00	\$3,604,000.00
Total Sources	\$463,000.00	\$1,925,000.00	\$1,216,000.00	\$3,604,000.00
Uses Of Funds				
Deposit to Escrow Fund	456,517.23	1,900,220.00	-	2,356,737.23
Deposit to Project Construction Fund	-	-	1,200,000.00	1,200,000.00
Costs of Issuance	5,781.08	24,035.79	15,183.13	45,000.00
Rounding Amount	701.69	744.21	816.87	2,262.77
Total Uses	\$463,000.00	\$1,925,000.00	\$1,216,000.00	\$3,604,000.00

City of Santa Clara, Utah

\$2,193,000 SalesTax Revenue Refunding Bonds

Series January 7, 2021

(Ref Series 2019)

Gross Debt Service Comparison

Date	Principal	Coupon	Interest	New D/S	Old D/S	Savings	Fiscal Total
01/07/2021	-	-	-	-	-	-	-
03/01/2021	-	-	-	-	52,500.00	52,500.00	52,500.00
03/01/2022	126,000.00	1.600%	40,351.20	166,351.20	140,500.00	(25,851.20)	(25,851.20)
03/01/2023	133,000.00	1.600%	33,072.00	166,072.00	140,300.00	(25,772.00)	(25,772.00)
03/01/2024	135,000.00	1.600%	30,944.00	165,944.00	140,050.00	(25,894.00)	(25,894.00)
03/01/2025	137,000.00	1.600%	28,784.00	165,784.00	140,750.00	(25,034.00)	(25,034.00)
03/01/2026	139,000.00	1.600%	26,592.00	165,592.00	141,375.00	(24,217.00)	(24,217.00)
03/01/2027	142,000.00	1.600%	24,368.00	166,368.00	140,925.00	(25,443.00)	(25,443.00)
03/01/2028	144,000.00	1.600%	22,096.00	166,096.00	140,425.00	(25,671.00)	(25,671.00)
03/01/2029	146,000.00	1.600%	19,792.00	165,792.00	140,875.00	(24,917.00)	(24,917.00)
03/01/2030	149,000.00	1.600%	17,456.00	166,456.00	140,250.00	(26,206.00)	(26,206.00)
03/01/2031	151,000.00	1.600%	15,072.00	166,072.00	140,575.00	(25,497.00)	(25,497.00)
03/01/2032	153,000.00	1.600%	12,656.00	165,656.00	140,825.00	(24,831.00)	(24,831.00)
03/01/2033	156,000.00	1.600%	10,208.00	166,208.00	140,000.00	(26,208.00)	(26,208.00)
03/01/2034	158,000.00	1.600%	7,712.00	165,712.00	140,125.00	(25,587.00)	(25,587.00)
03/01/2035	161,000.00	1.600%	5,184.00	166,184.00	140,175.00	(26,009.00)	(26,009.00)
03/01/2036	163,000.00	1.600%	2,608.00	165,608.00	140,150.00	(25,458.00)	(25,458.00)
03/01/2037	-	-	-	-	140,050.00	140,050.00	140,050.00
03/01/2038	-	-	-	-	140,875.00	140,875.00	140,875.00
03/01/2039	-	-	-	-	140,600.00	140,600.00	140,600.00
03/01/2040	-	-	-	-	133,250.00	133,250.00	133,250.00
Total	\$2,193,000.00	-	\$296,895.20	\$2,489,895.20	\$2,714,575.00	\$224,679.80	-

PV Analysis Summary (Gross to Gross)

Gross PV Debt Service Savings	134,895.38
Contingency or Rounding Amount	506.09
Net Present Value Benefit	\$135,401.47
Net PV Benefit / \$2,100,000 Refunded Principal	6.448%
Net PV Benefit / \$2,193,000 Refunding Principal	6.174%
Average Annual Cash Flow Savings	11,233.99

Refunding Bond Information

Refunding Dated Date	1/07/2021
Refunding Delivery Date	1/07/2021

REQUEST FOR COUNCIL ACTION

AGENDA ITEM 5

December 2, 2020



APPLICANT: Washington County Solid Waste District No. 1

SUBJECT:

Updating current ordinance establishing rules and regulations pertaining to collection and disposal of garbage and recycling

BACKGROUND DESCRIPTION:

The Washington County Solid Waste recently entered into a new 10 year contract with Republic Services for solid waste collection (including recycling) and disposal. Under the new agreement the cost for recycling is going to increase. The residents of the City were given a 90 day opt-out period to opt-out of the recycling portion. The opt-out period expired on November 30, 2020. The cost of recycling to each resident depends on the participation county wide. The rate if 51% participation will be \$4.91 per month, 41-50% \$5.35 and 34-40% \$5.91. These rates will be subject to an annual increase of 2.5%. Under the current ordinance if a resident of Santa Clara opted-out back during the first opt-out period and then moved they would be then be required to participate in the recycling program. Under the proposed ordinance a resident who opts-out and moves within Santa Clara City can remain out of the recycling program.

Proposed Recommendation

Approval

Cost

0.00

Approved by Legal Department

Yes

Approved in Budget

N/A

Approved by City Finance Department

N/A

Amount

0.00

Requested By

Brock Jacobsen

File Upload Attachments

<https://sccity.org/wp-content/uploads/formidable/41/Ord-2020-18-Solid-Waste-Ordinance-mje.docx>,
<https://sccity.org/wp-content/uploads/formidable/41/Recycling-Rates.pdf>

EXHIBIT B, Cont'd

Recycling Rates Table

Year	Tier 1 (51% or more of residences)	Tier 2 (41%– 51% of residences)	Tier 3 (34%- 41% of residences)
February 1, 2021	\$4.91	\$5.35	\$5.91
January 1, 2022	5.03	5.48	6.06
January 1, 2023	5.16	5.62	6.21
January 1, 2024	5.29	5.76	6.36
January 1, 2025	5.42	5.91	6.52
January 1, 2026	5.56	6.05	6.69
January 1, 2027	5.69	6.20	6.85
January 1, 2028	5.84	6.36	7.03
January 1, 2029	5.98	6.52	7.20
January 1, 2030	6.13	6.68	7.38

Notes:

1. The percentage of residential participation shall be based on all residences in District, excluding residences in Enterprise, Apple Valley, New Harmony and in the unincorporated area of Washington County.
2. Below a participation level equal to 34% of all residences, District and Republic will negotiate a reasonable recycling rate
3. All recycling rates subject to a 2.5% annual increase, which is included in above Recycling Rates Table
4. Rates for Tier 2 and Tier 3 require a 50% rate of residence participation in Virgin, Rockville, & Springdale area in order for this area to receive recycling collection services at Tier 2 or Tier 3 rates
5. If/when the participation level reaches the level for inclusion in the next higher Tier of pricing, the recycling rate shall be adjusted to the amount in said next higher Tier as of the date that said participation level is achieved.

ORDINANCE NO. 2020-18

AN ORDINANCE OF THE CITY OF SANTA CLARA, UTAH, ESTABLISHING RULES AND REGULATIONS PERTAINING TO THE COLLECTION AND DISPOSAL OF RESIDENTIAL SOLID WASTE PRODUCED OR GENERATED WITHIN THE BOUNDARIES OF SANTA CLARA, AND ESTABLISHING FEES FOR COLLECTION AND DISPOSAL OF SUCH RESIDENTIAL WASTE.

WHEREAS, Washington County Special Service District No. 1 (hereafter “the District”) was duly created by resolution of the Washington County Commission for the purpose of developing and implementing a system for the collection and disposal of solid waste generated within the boundaries of the District; and

WHEREAS, the District and Republic Services have entered into Residential Waste Collection Agreement (hereafter “the Agreement”), dated September 1, 2020, whereby solid waste collection and disposal services shall be provided to all residences within the District, including the incorporated area of Santa Clara, for a period from February 1, 2021 to December 31, 2030,

WHEREAS, Santa Clara is located within the boundaries of the District; and

WHEREAS, the District and Santa Clara have entered into Municipal Billing and Collection Agreement dated July 22, 2020, whereby the residential waste collection and disposal services described in the Agreement shall be provided to residences located within the boundaries of the City of Santa Clara; and

WHEREAS, the Santa Clara City Council desires to establish rules and regulations, including monthly fees, pertaining to collection and disposal of residential solid waste generated within its boundaries; and

WHEREAS, the Santa Clara City Council further desires to update and streamline its current ordinances governing residential waste collection by replacing Chapters 13.12 and 13.13 of the Santa Clara City Code with this Ordinance; and

WHEREAS, said City Council now deems it necessary and desirable for the preservation and protection of the general health, safety and welfare of the residents of Santa Clara, Utah,

BE IT HEREBY ORDAINED by the City Council of Santa Clara, Utah, as follows:

- A. Santa Clara City Code Title 13, Chapters 12 and 13, are hereby repealed and revoked, and replaced in their entirety with the provisions of this Ordinance.
- B. This Ordinance is hereby adopted and codified as the new Chapter 12 of Title 13 of the Santa Clara City Code, entitled “Collection of Residential Solid Waste for Disposal or Recycling.”

13.12.010: DEFINITIONS. For purposes of this chapter, the following words or phrases shall have the following meanings.

- a. "Republic or Republic Services" shall mean Allied Waste Transportation, Inc, a Delaware corporation, d/b/a Republic Services of St. George, licensed to do business in the State of Utah.
- b. "District" shall mean Washington County Special Service District No. 1.
- c. "City" shall mean the City of Santa Clara.
- d. "Agreement" shall mean Residential Waste Collection Agreement, dated September 1, 2020, between Washington County Special Service District No. 1 and Allied Waste Transportation, Inc, a Delaware corporation, d/b/a Republic Services of St. George, licensed to do business in the State of Utah, a copy of which is attached hereto as Exhibit "A" and incorporated herein by this reference
- e. "Automated or Semi-Automated Container" means a waste receptacle approved by the District, with a capacity of 60 to 94 gallons, equipped with a tight-fitting, permanently attached lid and wheels for easy movement, and specifically designed for automated and semi-automated pick up.
- f. "Bulky Waste" means residential waste materials with lengths, weights or volumes greater than those allowed for automated containers, including but not limited to stoves, refrigerators, dryers, dishwashers, televisions, hot water tanks, washing machines, household furniture, four (4) or fewer tires, air conditioners, Christmas trees, bicycles, large toys, tree limbs of 3-6 feet in length and up to 6 inches in diameter, and Bags used for seasonal disposal of leaves. Bulky Waste does not include automobiles, more than four (4) tires, motorcycles, boats, Construction/Demolition Waste, large dead animals, Hazardous Waste, Special Waste and trees (other than Christmas trees) or limbs exceeding six (6) feet in length and six (6) inches in diameter, and other similar items. All items must be free of extraneous materials and shall be capable of being lifted into Republic's collection vehicle by two (2) men. A Resident may not place more than three Bulky Waste items out for collection per call.
- g. "Commercial" shall mean or refer to property:
 - (i) used primarily in connection with the supply of goods or professional services on a regular basis or in the regular course of business, and for which a business or other license is required by state law or local ordinance, and
 - (ii) a hotel, motel, recreational vehicle rental park used for overnight or short term rental of less than thirty (30) days, or an apartment

complex of more than eight (8) units used for a rental term of more than thirty (30) days.

- h. “Commercial Hauler” shall mean any person or entity who in the regular course of business or for a fee collects and disposes of commercial waste.
- i. “Commercial Waste” shall mean non-hazardous waste materials produced by businesses or resulting from normal activities on or use of commercial property or premises.
- j. “Curbside” shall mean at or near any curb, sidewalk or other location immediately adjacent to any street, highway or road which is safely accessible to Republic’s waste collection vehicles.
- k. “Dumpster or Roll-off” shall mean any metal container with a volume of 1.5 cubic yards or more, designed for storage of waste and to be compatible with collection equipment.
- l. “Hazardous Waste” means a solid waste or combination of solid wastes, other than Household Waste, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness or may pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed, and as further defined in R315-2-3 of the Utah Administrative Code.
- m. “Household Waste” means any waste material, including garbage, trash, and sanitary wastes in septic tanks, derived from households, including single-family and multiple-family residences, apartments, hotels and motels, bunk houses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas.
- n. “Infectious Waste” means a solid waste that contains or may reasonably be expected to contain pathogens of sufficient virulence and quantity that exposure to the waste by a susceptible host could result in an infectious disease. Infectious Waste is included in Household Waste unless subject to regulation in accordance with R315-316(1) of the Utah Administrative Code.
- o. “Recyclables or Recyclable Materials” any material or substance included in waste materials that can be put to beneficial re-use or sold in recognized markets for purposes other than disposal, including, without limitation, uncontaminated, non-hazardous corrugated cardboard, white paper, newsprint and other paper; plastics and plastic film; ferrous and non-

ferrous metals; and glass or such other items as may be specified from time to time.

- p. “Residence or Residential” shall mean the use of property or premises containing a structure which is hooked to culinary water and power and is intended or used for human habitation, including but not limited to:
- (i) single homes,
 - (ii) mobile homes,
 - (iii) town homes,
 - (iv) condominiums,
 - (v) short-term vacation rentals (VRBO’s) of less than 30 days,
 - (vi) apartments not contained in or as part of an apartment complex of more than eight (8) units.

Except as may be specified hereinafter, each residential unit or structure on property or premises classified as residential shall be considered a separate residence for purpose of billing and collection.

- q. “Residential Waste” shall mean household waste, bulky waste, and other non-hazardous waste produced by or resulting from the normal activities on or use of residential property or premises. Residential Waste includes but is not limited to waste wood, wood products, tree trimmings, grass cuttings, dead plants, seeds, leaves, chips, shavings, saw-dust, printed matter, paper, pasteboard, plastic, aluminum cans, flattened cardboard boxes, wooden boxes, rags, loose straw, used and discarded mattresses, used and discarded clothing, used and discarded shoes and boots, combustible and waste pulp and other products such as are used for packaging or wrapping crockery and glass, cold ashes, cinders, floor sweepings, glass, mineral or metallic substances and any and all other waste materials not included in the definition of bulky waste, construction/demolition waste, dead animals, garbage or hazardous waste. Residential Waste does not include special waste or stable matter as defined herein.

- r. Special Waste – "Special waste" means discarded solid waste that may require special handling or other solid waste that may pose a threat to public safety, human health, or the environment. Special waste includes

- (i) ash
- (ii) automobile bodies
- (iii) infectious waste subject to regulation under R315-316(1) of the Utah Administrative Rules.
- (iv) waste tires
- (v) dead animals
- (vi) asbestos

- (vii) waste exempt from the hazardous waste regulations under R315-261-4
- (viii) very small quantity generator hazardous waste as defined by R315-260-10
- (ix) waste containing PCBs
- (x) petroleum contaminated soils
- (xi) waste asphalt
- (xii) sludge.
- (xiii) stable matter

13.12.020: Use of Washington County Landfill. All residential waste generated within the corporate limits of City shall be transported to and disposed of at the Washington County Landfill or such other waste disposal facility as may be approved by District.

13.12.030: Required Use of Automated/Semi-automated Containers. Except for residential developments approved by City where density and lack of access by waste collection vehicles requires the use of dumpsters or roll offs as a means of residential waste collection, each residence or residential unit within the incorporated areas of City shall be required to utilize for residential waste collection service an automated/semi-automated container or containers which have been approved and delivered to the property by City or its authorized agent.

13.12.040: Residential Waste Collection and Disposal Services Provided by City. City shall provide the following services to all residences within its corporate limits in accordance with the Agreement:

- a. Basic Residential Waste Collection Service: once-a-week curbside collection to all residences of residential waste placed in automated/semi-automated containers or in dumpsters or roll offs, along with collection of bulky waste, and
- b. Collection of Recyclable Materials: every-other-week curbside collection of recyclable materials placed in recycling containers by residences participating in curbside residential recycling.

13.12.050: Mandatory Use of Service. The use by all residences within the boundaries of City of the basic residential waste collection services described in Section 13.12.040 a. is hereby declared to be mandatory; however, participation in curbside residential recycling as described in Section 13.12.040 b. shall be determined in accordance with the opt out rules and guidelines specified in Section 13.12.060.

13.12.060: Recycling Opt Out Rules and Guidelines. Participation in curbside recycling collection services shall be mandatory for any residential unit within the boundaries of City for which the election to opt out of such services is not made by the owner, or such other person designated in writing by the owner, on or before February 1, 2020, in accordance with the following opt out rules and guidelines:

- a. The election to opt out shall be made by the owner of the residence, or by such other person designated in writing by the owner, or as otherwise approved by the City.

- b. For purposes of these rules and guidelines, all City residences/residents who are not participants in curbside recycling collection services as of the effective date of this Ordinance shall be deemed to have opted out of receiving curbside recycling collection services.
- c. Except as provided herein, all City residences/residents who do not opt out by February 1, 2020 shall be deemed to be included in the curbside recycling collection program for the term of the Agreement.
- d. City residents/residences who opt out or who are deemed to have opted out on or before February 1, 2020, as determined by City, may opt in at any time but thereafter shall be included in the recycling program for the remaining term of the Agreement.
- e. City residents/residences who opt out or who are deemed to have opted out on or before February 1, 2020, as determined by City, shall be entitled to continue such opt out status in the event they move to another or new residence within the boundaries of City.
- f. New residents, i.e., people who move from outside of City to a residence within the boundaries of City, regardless of a prior election to opt out, shall be automatically included in the recycling program for the remainder of the term of the Agreement.

Notwithstanding the foregoing, upon written request from the owner or occupant of the residence, the City Council shall have authority to grant a variance to the above provisions based on a showing of undue hardship or other extraordinary circumstances.

13.12.070: Residential Waste Collection Procedures. Except where the use of dumpsters or roll offs are authorized, residential waste shall be placed for collection in accordance with the following:

- a. All residential waste shall be placed for collection in automated/semi-automated containers.
- b. All residential waste shall be placed for collection by 6:00 a.m. of the day scheduled for collection.
- c. No hazardous waste, infectious waste or special waste shall be placed for collection in any automated/semi-automated container or any dumpster or roll-off.
- d. Only recyclable materials, as determined from time to time by City, shall be placed for collection in recycling automated/semi-automated collection containers
- e. Automated/semi-automated containers shall be placed within three (3) feet of the curbside, blacktop or other roadway surface, with three (3) feet clearance on either side of the container from parked cars or other objects, and at other

locations readily accessible to collection vehicles and personnel.

- f. All empty waste containers shall be removed from the street as soon as reasonably practicable but not later than 24 hours after being emptied.
- g. Bulky waste shall be placed at or near the curbside, blacktop or other roadway surface, or at other locations readily accessible to collection vehicles and personnel.

13.12.080: Establishment of Residential Fees. There is hereby established a monthly residential waste collection and disposal fee for each residence or residential unit in City, which shall include the following amounts:

- a. for basic residential waste collection service:
 - (i) the amount to be paid to Republic in the amount of \$6.90 per month per residence, which shall be subject to an annual increase of 2.5%; and
 - (ii) the amount to be paid to the District for administrative costs and expenses in the amount of \$4.45 per month per residence, which shall be subject to an annual increase of ten cents (\$.10); and
 - (iii) such amount as may be established from time to time by resolution of the City Council for administrative costs and expenses incurred by the City in billing and collection; and
- b. for residences receiving curbside recycling collection services, the following additional amounts:
 - (i) the amount to be paid to Republic in the amount of \$4.90 per month per residence, subject to an annual increase of 2.5%; and
 - (ii) the amount of \$.75 per month per residence for the cost of the recycling container.

13.12.090: Fee for Availability of Service. The residential fee established hereby for basic collection service is for the availability of service provided by City through the District and its authorized agent, Republic, and said fee shall be due and owing when service is available, regardless of whether said service is actually utilized.

13.12.100: Monthly Billing. Fees for residential waste collection and disposal services provided by City shall be paid on a monthly basis, and shall be included in any billing for other municipal services supplied by City, including water, power, sewer, etc. Payments for residential waste collection and disposal services not received on or before the twentieth (20th) day of the month following the month for which services were provided shall be deemed delinquent and shall thereafter bear interest at the rate of ten percent (10%) per annum until paid in full, and shall be subject to all collection practices or procedures as may be established from time to time by ordinance.

13.12.110: Collection of Commercial Waste. Nothing in this ordinance shall preclude the owner or lessee of any commercial property or premises from transporting his or her own

commercial waste to the landfill, or contracting for its removal with a commercial hauler properly licensed by District and authorized to conduct business within City.

13.12.120: Commercial or Private Haulers. No private or commercial hauler shall be allowed to collect or dispose of commercial solid waste generated by businesses or through the use of commercial property within City without having first obtained from District a license to operate as a private or commercial hauler.

13.12.130: Collection Vehicles. All trucks or other vehicles used by any private or commercial hauler to collect or transport solid waste within City shall:

- a. be maintained in a good mechanical condition,
- b. be equipped with fully enclosed sides and bottom and otherwise constructed as to prevent the contents of the vehicle from spilling or blowing while the vehicle is in motion,
- c. clearly bear on the outside of the body of the vehicle the name and telephone number of the hauler, and
- d. comply with all provisions of all applicable state or federal regulations or laws concerning the collection, transportation or disposal of solid waste.

13.12.140: Transportation of Waste. All solid waste transported by any private or commercial hauler shall be contained, tied or enclosed in such a manner that leaking, spilling or blowing are prevented during transportation.

BE IT FURTHER ORDAINED that this Ordinance shall take effect on February 1, 2021 after publication and posting as required by law and shall supersede any other ordinance or provision in conflict with the terms hereof.

PASSED AND APPROVED on this 9th day of December, 2020.

CITY OF SANTA CLARA

Rick Rosenberg, Mayor

Attest:

Chris Shelley, Recorder