

February 19, 2020

RECEIVED

By Andrew Trippel at 3:19 pm, Feb 19, 2020

Re: Timothy Shannon
3182 Juniper Ave,
Santa Rosa, CA 95407
Cannabis Cultivation, Distribution & Manufacturing -
City of Santa Rosa – Conditional Use Permit Application

As required by the City of Santa Rosa's Cannabis – Conditional Use Permit Application, the Owner has hired TEP Engineering to address three items regarding cannabis odor mitigation. These three odor control items are "Operational Processes and Maintenance Plan", "Engineering Controls" and "Staff Training Procedures".

Cannabis Cultivation, Distribution & Manufacturing – "Operational Processes and Maintenance Plan"

Each day Timothy Shannon, the manager or supervisor on duty must assess the on-site and off-site odors for potential release of cannabis odors. The manager on duty will be responsible for assessing and documenting odor impacts daily. The cannabis odor mitigation systems shall be maintained per the manufacturer's instructions.

Cannabis Cultivation, Distribution & Manufacturing – "Engineering Controls"

The project as proposed shall comply with the City of Santa Rosa's odor mitigation standards set forth in Zoning Code Chapter 20-46. The industry accepted method to remove cannabis odors for exhaust airstreams is carbon filtration. Timothy Shannon will install activated carbon filter canisters or inline filters on their exhaust systems serving spaces at risk for emitting cannabis odors. Timothy Shannon will also install activated carbon inline filters on their recirculating air systems serving spaces at risk for emitting cannabis odors. These carbon filters are designed for the control of VOC's, odors and other gaseous contaminants. The spaces at risk for emitting cannabis odors are noted on the odor-control floor plan provided by Timothy Shannon; the spaces at risk are as follows: "Trim and Intake", "Extraction, Post Processing, Packaging, Storage", "Cultivation", "Filling, Packing", "Extraction" and "Storage". The exhaust and recirculated air for this space will pass through an activated carbon filter, which uses chemical adsorption to remove organic compounds from the airstream. These organic compounds carrying the cannabis odor are captured through a process of adsorption in the microporous carbon. The activated carbon filtration systems must be sized properly by a Professional Mechanical Engineer and maintained by the Owner per the manufacturer's instructions. Suitable activated carbon filters manufacturers include: Camfil, Purafil or approved equivalent by a Professional Engineer.

Cannabis Cultivation, Distribution & Manufacturing – "Staff Training Procedure"

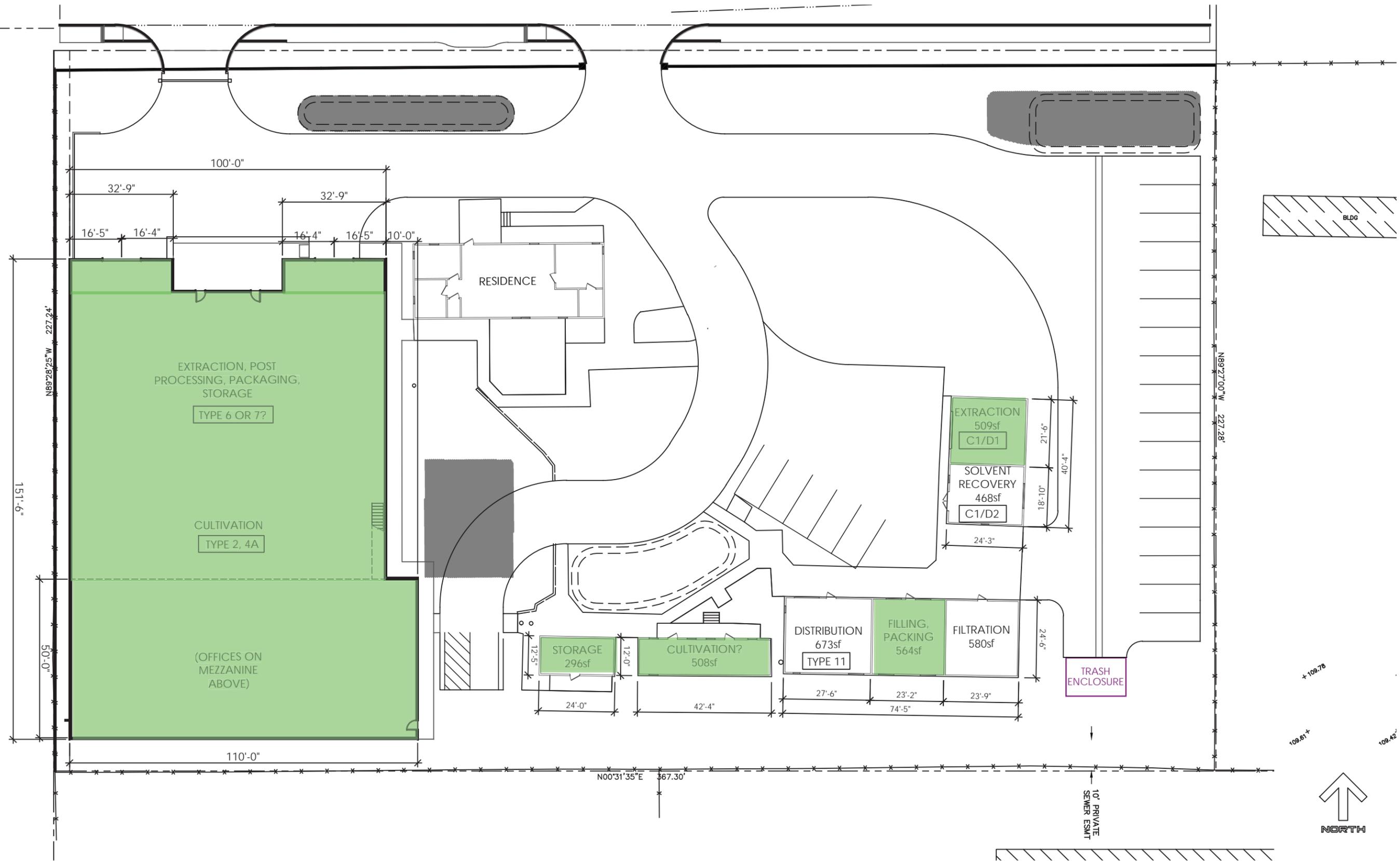
Timothy Shannon shall maintain and replace carbon filters per the manufacturer's instructions. Pressure drop on the particulate filter should be double the initial before replacement is deemed necessary. The dirty pressure drop on the molecular is not applicable and it is recommended to change this filter every 12 to 18 months.

Sincerely,



TEP Engineering
Andrew Souza, P.E., CPD, GPD, LEED AP BD+C





LEGEND

SPACES AT RISK FOR EMITTING CANNABIS ODORS

3182 JUNIPER AVENUE
SANTA ROSA CA

DRAFT
LICENSING FLOOR PLAN
03.12.2019



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Engineer Name: ANDREW SOUZA, P.E. (MECHANICAL ENGINEER)
Phone: 707-538-0400
Email Address: andy@tep.net

ENGINEER /SURVEYOR'S SIGNATURE Andy Souza

Architect Name: _____
Phone: _____
Email Address: _____

ARCHITECT/DESIGNER'S SIGNATURE _____

Landscape Architect Name: _____
Phone: _____
Email Address: _____

LANDSCAPE ARCHITECT/DESIGNER SIGNATURE _____