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430 E 8TH ST STE 8017 HOLLAND MI 49423

ENGINEER'S TEAM

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OWNER:

Colorado Springs, Colorado

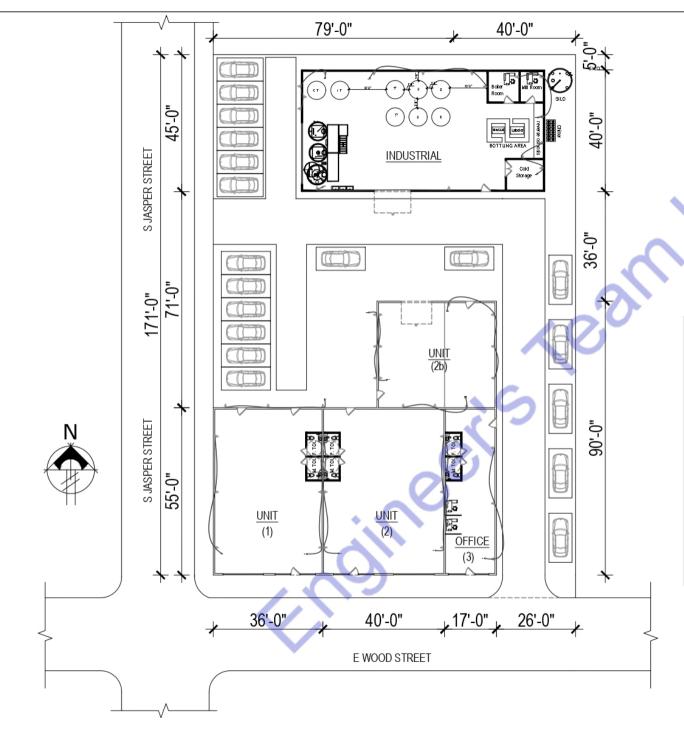
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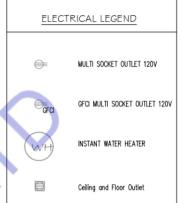
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Release for construction

ELECTRICAL LIGHTING PLAN

- 1		
	Drawn by:	Engr. Al Amin
	Checked:	
	Date:	OCT, 24.
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Note

This electrical plan has been prepared following all applicable codes and regulations for Colorado Springs, Colorado, ensuring alignment with the latest standards. Specifically, it adheres to the 2023 National Electrical Code (NEC) as mandated by the Pikes Peak Regional Building Department (PPRBD), which governs electrical installations in the region. Key sections include:

- NEC Article 210 Receptacle placement, including specific guidelines for kitchen countertops, islands, and work surfaces.
- NEC Article 225 & 230 Requirements for emergency disconnects in residential units.
 NEC Article 240 Placement of overcurrent protection
- NEC Article 240 Placement of overcurrent protection devices, avoiding installation in restricted areas such as bathrooms.
- NEC Article 406 Specifications for tamper-resistant receptacles in specified locations to enhance safety.

Additionally, surge protection and earth movement allowances have been incorporated as per local amendments, ensuring the system's resilience against environmental factors in Colorado Springs.

This compliance guarantees that the design meets both national and local requirements for safety, functionality, and durability in electrical installations.



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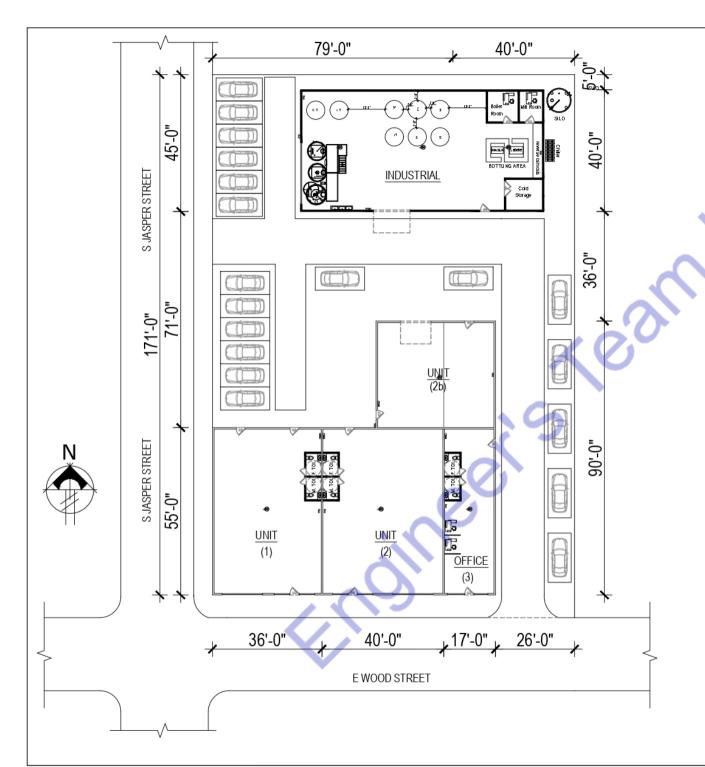
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ELECTRICAL POWER PLAN

Drawn by: Engr. Al Amin
Checked:
Date: OCT, 24.

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Note

To ensure the highest standards of safety, this Fire Safety Plan has been developed following all relevant and current fire codes and regulations specific to Colorado Springs, Colorado. Key updated standards and ordinances incorporated in this plan include:

- 2021 International Fire Code (IFC): Adopted by Colorado Springs, this code establishes comprehensive guidelines for fire prevention, emergency planning, fire protection systems, and overall safety measures within buildings (e.g., Section 8.4.102 Colorado Springs Fire Prevention Code)
- Local Amendments and Ordinances: Specific amendments
 to the 2021 IFC as adopted by the City of Colorado Springs
 address unique regional needs and requirements, ensuring
 that local fire hazards are adequately managed and
 mitigated These include guidelines on fire access roads,
 hydrant placements, and additional fire-resistant
 construction materials as outlined in the municipal codes.
- Annual Compliance Reviews and Updates: Per Colorado Springs fire regulations, the Fire Safety Plan is periodically reviewed to align with updated code provisions and regional safety requirements. This ensures continued compliance with evolving fire safety protocols and community-specific regulations.

This plan adheres to all necessary provisions to maintain compliance, mitigate risks, and prioritize occupant safety through a code-compliant, structured approach to fire prevention and emergency management.



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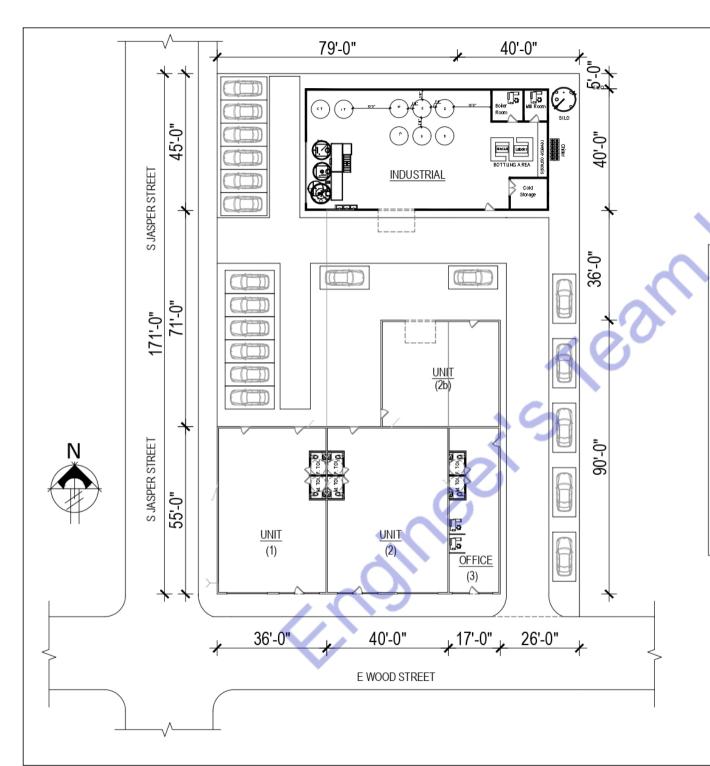
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FIRE PROTECTION PLAN

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SEWERAGE LEGEND

WASTE WATER/ SEWER LINE (UPVC PIPE)



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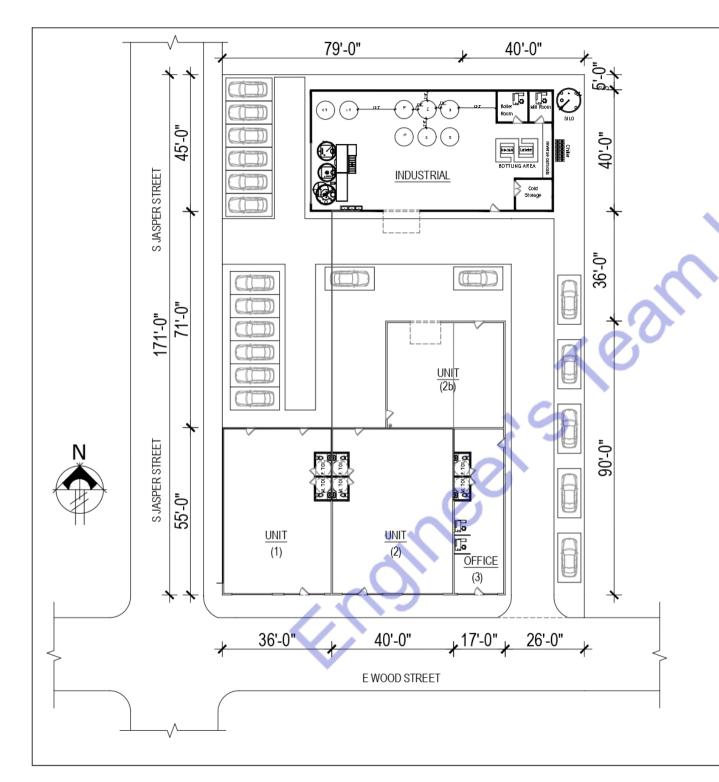
PLUMBING SANITARY PLAN

Drawn by: Engr. Al Amin Checked: OCT, 24. Date: P. 1

This Plumbing Plan has been developed in full adherence to the latest applicable codes and standards mandated by Colorado Springs and the State of Colorado. The following guidelines were strictly followed:

- International Plumbing Code (IPC), 2021 Edition -Adhering to the IPC provisions, including backflow prevention, waste receptor guidelines, and water supply system protection, ensures all installations are compliant with the most current plumbing standards.
- 2. National Standard Plumbing Code (NSPC) This code complements the IPC and covers essential criteria for plumbing systems' safe and efficient design and operation.
- 3. Local Amendments to the IPC All applicable local amendments specific to Colorado Springs were reviewed and integrated, such as modifications related to water heater discharge pan requirements and solvent cementing adjustments.
- Water Conservation and Nonpotable Water Signage -Compliance with signage regulations and requirements for nonpotable water usage, as prescribed in local adaptations of Section 608 of the IPC, was achieved for any system involving nonpotable water.

Colorado Revised Statutes and Colorado Department of Public Health and Environment (CDPHE) – Regulations regarding environmental health and public safety were followed, including





LINES TYPE LEGEND

 COLD WATER LINE (CW)				
 HOT WATER LINE (HW)				
 SEWER LINE (S)				
 GAS LINE (G)				



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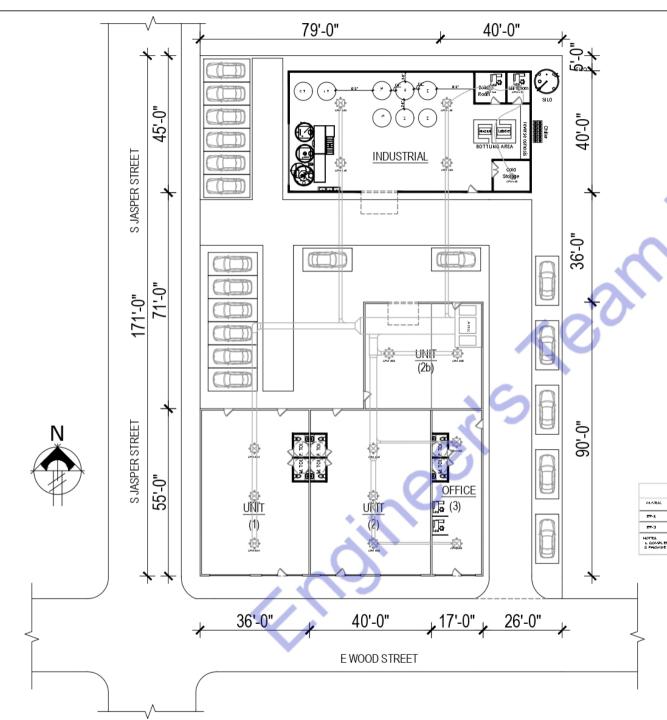
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PLUMBING WATER SUPPLY PLAN

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	Date:	OCT, 24.
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Note:

This HVAC Plan has been developed in strict accordance with all applicable codes and regulations for Colorado Springs, Colorado. The following updated standards were observed:

- 2021 International Mechanical Code (IMC) Governing the installation, design, and inspection of HVAC systems to ensure safety, energy efficiency, and indoor air quality.
- 2021 International Building Code (IBC) Regulating structural and fire-related aspects in HVAC installations to enhance occupant safety and structural integrity.
- 2021 Pikes Peak Regional Building Code Providing local amendments and standards tailored to the Colorado Springs region, specifically addressing regional safety and operational standards for HVAC installations.
- 2021 International Fire Code (IFC) Ensuring fire safety in HVAC system components, including smoke control systems and mechanical ventilation for fire prevention.

This HVAC plan aims to meet or exceed these requirements to deliver a safe, efficient, and compliant design requirements for graywater and reclaimed water systems.

This adherence ensures that the plumbing system is safe, efficient, and fully compliant with the latest regulatory requirements for Colorado Springs, Colorado.

EXHAUST FAN SCHEDULE									
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er-3	KITCHEN	115	-	72	940	130/60/1	5 red n- Nix Tond 505@£3055		(N-L/NE

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HVAC LAYOUT PLAN

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