ADDENDUM NO. 3

Industrial Wastewater Treatment Facility Project

02-13-2025

The following changes additions and clarifications are hereby made part of the contract documents for the above referenced project and shall be taken into account in the preparation of all proposals and the execution of all work. This Addendum shall be signed by the Bidder, be attached to submitted bid and acknowledged on the bid forms. All changes, omissions, additions and alterations in, on and to the Contract Documents and Specification will apply to proposals made for the execution of the various parts of the work affected thereby. In cases of conflict between the Plans, Specifications and this Addendum, this Addendum shall govern.

- A. As discussed during the pre-bid meeting, an emergency infiltration basin has been constructed on the southwesterly portion of the Phase 2 City Property (G-8) and is in operation with the existing MWWTP. The Contractor shall not disturb this facility or inhibit City access throughout construction. Dimensions of the basin and fence are provided via attachment.
- B. Changes to Bid Documents:
 - The Specifications for the Industrial Wastewater Treatment Facility Project have been modified. The links below access the modified sections. All bidders shall replace the original sections with these modified sections in preparing bids:

(Deletions are indicated with strikethrough text, additions are indicated in red and bold.)

- a. ADD: Project shall be constructed in accordance with the approved Conditional Use Permit 2021-01 (CUP 2021-01), see attached.
- b. ADD: Section 01756, Commissioning and Process Start-Up.
- c. **DELETE: Section 01061.3.01.G, Hydrology and Water Quality (MM-HYD-1a)** in its entirety.
- d. **DELETE: Section 01061.3.01.H, Hydrology and Water Quality (MM-HYD-1b)** in its entirety.
- e. **REPLACE:** Appendix H Geotechnical Report cover page in its entirety with the attached. The link to the report has been updated.
- f. **REPLACE: The following Plan Sheets,** see attached:

GP-1	P-1	GH-1	H-1	E-1	I-5
	P-2		H-2	E-2	I-8
	P-3		H-3	E-3	
	P-4		H-4	E-4	
	P-5		H-5	E-5	
			H-6	E-9	
				E-10	
				E-11	
				E-13	
				E-17	
				E-18	
				E-21	

g. ADD: The following Plan Sheets: ECF-1, ECF-2, ECF-3, ECF-4, ECF-5, ECF-6, see attached.

ADDENDUM NO. 3

Industrial Wastewater Treatment Facility Project

02-13-2025

- h. ADD: Drawing S-12, Wet Well Section A/S-11: Add the following note: "INFLUENT WET WELL SHALL BE LINED WITH A PLASTIC LINER. USE CORPROTECT BY PREDL, OR EQUAL."
- i. **REVISE: Section 02446.2.05.A.6, Electric Swing Gate Operator,** page 02446-3: "As manufactured by Doorking, Model 6400 6500, or equal."
- j. REVISE: Section 11310.2.02.C.1.b, Above Grade Valve Skid Assembly (8' x 8' Steel Skid), page 11310-4:

Delete: "(Endress & Hauser FXM21 Pressure transducer)"

Replace with: "(Dwyer Series 3200G)"

k. REVISE: Section 11310.2.02.D.1, Vertical turbine Pump, page 11310-4:

Delete: "Gould"

Replace with: "Goulds"

I. REVISE: Section 11310.2.02.D.6, Vertical turbine Pump, page 11310-5:

"Control panel – NEMA4X stainless steel enclosure with VFD made by ABB ACQ580 Series, **Vacon/Danfoss, KEB America,** or equal. Control devices shall be mounted on inner door of the enclosure."

m. REVISE: Section 11310.2.02.G.1, Pressure control system, page 11310-5:

Delete: "1. Endress & Hauser FXM21 Pressure transducer"

Replace with: "1. Dwyer Series 3200G"

- n. REVISE: Section 11320.2.04.A, Variable Speed Drives, page 11320-7:
 - "A. Description
 - This specifications is to cover a complete Variable Frequency motor Drive (VFD) consisting of a pulse width modulated (PWM) inverter designed for use on a standard NEMA Design B induction motor manufactured by ABB ACQ580 Series, Vacon/Danfoss, or approved equal, and shall be in accordance with the Owner's approve equipment list. All VFDs throughout the project shall be provided from the same manufacturer, unless otherwise approved by the Owner.
 - The drive manufacturer shall supply the drive and all necessary options as herein specified. VFD's that are manufactured by a third party and "brand labeled" shall not be acceptable. All VFDs installed on this project shall be from the same manufacturer."
- o. REVISE: Section 11610.1.02.B, Summary, page 11610-1:

"Blowers shall be complete pre-packaged units consisting of Permanent Magnet Synchronous Motors, integrated air filters, variable speed drive, harmonic filter, and central processing unit (CPU) PLC based Local Control Panel."

p. REVISE: Section 11610.2.05.C, Appurtenances, page 11610-8, first sentence:

"Each blower shall be supplied with one (1) 12" manually **motor** operated discharge isolation valves."

ADDENDUM NO. 3 Industrial Wastewater Treatment Facility Project

02-13-2025

q. REVISE: Section 11610.2.07.A. Inverter/VFD, page 11610-8 & 9:

- "A. Each blower shall be equipped with a high efficiency UL listed VFD (Variable Frequency Drive) with 97% efficiency at full rated motor speed and power. VFD Manufacturer shall be ABB ACQ580 Low Harmonic Series, Vacon/Danfoss, KEB America, or approved equal, and shall be in accordance with the Owner's approved equipment list. All VFDs throughout the project shall be provided from the same manufacturer, unless otherwise approved by the Owner. Proprietary or Non-UL listed VFDs shall not be accepted. If the blower Manufacturer does not use a VFD manufactured by a reputable frequency drive Manufacturer in the USA or Canada, a design change must be made to accommodate it. No substitution or equal permitted."
- r. REVISE: Section 11610.2.07.C, Inverter/VFD, page 11610-9, first sentence:

"Each VFD shall be supplied with a passive active harmonic filter that reduces the THD (Total Harmonic Distortion) in compliance with IEEE 519 rating."

s. **REVISE: Section 11610.2.08.A.7, Controls and Instrumentation,** page 11610-9, first sentence:

"7. The system shall have an Allen-Bradley PanelView 800 series HMI 10" touchscreen, or PanelView 700 Series HMI 7" touchscreen no substitutes."

t. REVISE: Section 11610.2.08.G.1, System Function, page 11610-11:

"Each blower LCP shall consist of a PLC or CPU-based control system with the following:"

- u. ADD the following subsection to Section 11610.2.08.G.1.k, System Function, page 11610-12:
 - A. This blower system will be required to operate two blowers in this project and one centrifugal blower in the future. The blower system shall be supplied with a master control panel (MCU) that shall control the operation of all blowers and communicate directly with the plant SCADA system.
 - B. The master control panel shall communicate directly with the plant SCADA system via Ethernet TCP/IP protocol.
 - C. The master control panel shall be equipped with an Allen Bradley PLC (Programmable Logic Controller) with color graphical touch screen based control system that is installed as an integral part of the enclosure. Separately mounted touch screen PLCs shall not be permitted.
 - D. The Programmable Logic Controller shall provide control, monitoring and diagnostics capability.
 - E. The Master Control Panel shall have the ability to control the single or multiple blowers in four different modes: Speed setpoints, constant pressure, constant air flow or constant DO (dissolved oxygen) level.
 - F. The Master Control Panel shall automatically start and stop and control the speed of the blowers to provide the process demand. The high speed turbo blowers shall be designated the lead or lag blower under normal operating conditions. The Master controller shall have an operator input to select any one of the 2 current blowers as lead blower and the remaining blower as the lag blower. It is anticipated that in the future the third blower would be a standby blower.

ADDENDUM NO. 3

Industrial Wastewater Treatment Facility Project 02-13-2025

			02 10 2020
	G.	blow	Master Control Panel shall contain logic that prevents the high speed turbo ver from going into surge when a second blower is called to start and added in llel to the running turbo blower.
	Н.	The pane	Master Control Panel Controls shall be accessible through a touch screen control and remotely through SCADA Ethernet network communications.
	I.	Ethe	rnet communications shall include all blower and system information:
		1.	Remote Command: process variable type and value
		2.	System Airflow: Output
		3.	Discharge pressure: Output
		4.	DO Link: control of blower from feedback from DO analyzer
		5.	Remote system enable: input
		6.	Remote system disable: input
		7.	Remote Emergency stop: input
		8.	Blower run: outputs
		9.	Blower stop: outputs
		10.	Blower fault: outputs
٧.	REV	ISE:	Section 11700.2.03.I, Transmitter Characteristics, page 11700-2:
	"Ι. ⁻	The fl	low meter shall be Badger M2000 series McCrometer or approved equal."
w.			Section 13000.2.6.1.A.6, Pressure switches and gauges, turers, page 13000-13:
	Rev	ise: `	`a. Mercoid
			b. Dwyer "
	Rep	lace	with: "a. Mercoid series by Dwyer Instruments"
х.		/ISE: 00-14	Section 13000.2.6.1.B.2.h, Pressure Transmitter, Performance, page
	"h. I	integt	al Integral LCD meter with the transmitter housing."
у.		/ISE: 00-14	Section 13000.2.6.1.B.4. Pressure Transmitter, Manufacturers, page
	Dele	ete: "	` a. Rosemount 2051C
			b. Endress-Hauser"
	Rep	lace	with: "a. Dwyer Series 3200G"
Ζ.		/ISE: 00-14	Section 13000.2.6.2.A.3, Magnetic flow meters, Manufacturers, page

Revise: "a. Badger M2000

b.-McCrometer, Endress-Hauser, Rosemount"

Replace with: "a. McCrometer"

ADDENDUM NO. 3 Industrial Wastewater Treatment Facility Project 02-13-2025

aa. **REVISE: Section 15064.2.01.B, High Density Polyethylene (HDPE) Pipe,** page 15064-4, first sentence:

"Pipe Size: HDPE pressure pipe shall have a nominal diameter indicated on the plans with outside dimension (OD) correlating to standard stainless steel pipe size (DIPS) as specified in AWWA C906."

bb. REVISE: Section 16900.2.2.1.A.1, Manufacturers, Switchboards, page 16900-3:

Delete: "1. Allen-Bradley"

Replace with: "1. Eaton"

cc. REVISE: Section 16920.2.2.10.A.2.f, Control Wiring and Testing, page 16920-7:

"f. 6-pulse type with active harmonic filter."

- 2. Answers to Contractor Questions. The following shall be considered as supplemental requirements in preparing bids:
 - a. **Question:** There is a conflict between the plans and the specifications regarding conduit usage. Specification Section 16000 2.2 B requires "*All exposed conduit, indoor and outdoor, shall be threaded, PVC-coated galvanized, rigid steel conduit.*" General Note 13 requires "All exposed conduits shall be rigid galvanized steel conduits..." Please clarify which is correct.

Answer: Please see revised Plan Sheet E-1 attached.

b. Question: I am writing to request an amendment to Specification 16900-2.1A, which currently lists approved switchboard manufacturers as Allen-Bradley, Siemens, and Schneider Electric. It should be noted that Allen-Bradley is not a manufacturer of switchboards but rather motor control centers (MCCs).

To ensure the project remains cost-effective and compliant with BABA requirements, I propose the following changes:

- 1. Remove Allen-Bradley from the list of approved 600V switchboard manufacturers.
- 2. Include Eaton as an approved manufacturer for 600V switchboards.

Limiting the project to only Siemens and Schneider Electric could create significant challenges and may not be cost-effective. Including Eaton will provide more flexibility and help mitigate potential issues.

Answer: Please see 1 bb above.

c. **Question:** Request for Information:

Section 11610, 1.02B ("Blowers shall be complete pre-packaged units consisting of Permanent Magnet Synchronous Motors, integrated air filters, variable speed drive, harmonic filter, and central processing unit (CPU) based Local Control Panel.")

Section 11610, 2.8.G.1 ("*Each blower LCP shall consist of a PLC or CPU-based control system with the following:*")

Section 11610, 2.08.A.6 (*"The blower shall have an Allen Bradley PLC CompactLogix Series for operation, adjustment, and monitoring."*).

ADDENDUM NO. 3 Industrial Wastewater Treatment Facility Project

02-13-2025

Paragraphs 1.02.B and 2.8.G.1 contradict section 2.08.A.6. Please replace CPU by PLC to ensure that microprocessor based controllers are not allowed and each turbo blower shall be provided with an Allen Bradley PLC CompactLogix Series for Operation, Adjustment, and Monitoring.

Answer: See 1 o and t above.

d. Question: Section 11610, Section 2.02.A

Maximum Air Flow at Duty Discharge Pressure Per Blower (SCFM)	4,500
Minimum Air Flow at Duty Discharge Pressure Per Blower (SCFM)	1,500
Maximum Design Blower Flow Rate (SCFM) at Design Operating Pressure (7 psi)	4,500
Minimum Design Blower Flow Rate (SCFM) at Design Operating Pressure (7 psi)	3,000

It seems the Maximum/Minimum Air Flow at Duty Discharge Pressure Per Blower (SCFM) (4,500/1,500) are duplicate requirement of the Maximum/Minimum Design Blower Flow Rate (SCFM) at Design Operating Pressure (7 psi) (4,500/3,000).

Please confirm the Maximum/Minimum Air Flow at Duty Discharge Pressure Per Blower (SCFM) (4,500/1,500) can be ignored.

Answer: The Max/Min airflow (at duty discharge pressure) per blower of (4,500/3,000 SCFM) represents the Max/Min airflow that each blower is capable of. The Max/Min design blower rate at design operating pressure (SCFM) (4,500/3,000) reflects the operating range that each blower is designed for.

e. **Question:** Section 11610, 2.03.C "Blowers shall be designed to operate with Manufacturer's supplied Master Control Panel in order to maximize overall system efficiency."

We confirm that the blowers are designed to operate with the manufacturer's supplied MCP, however, a Master Control Panel it appears that a MCP is not required in the scope of supply for this project as the blowers are controlled via SCADA. Please confirm.

Answer: See 1 u above.

f. **Question:** Section 11610, 2.08.A.7 "The system shall have an Allen-Bradley PanelView 800 series HMI 10" touchscreen, no substitutes."

We provide an Allen Bradley CompactLogix PLC with PanelView Plus 7 (7 inch) Graphic Terminals with our turbo blowers due to the compact design and minimal footprint of the blower enclosure. Please confirm if this standard HMI design is acceptable?

Answer: See 1 s above.

g. **Question:** Section 11610, 2.08.G.1j. "*The blower MCU PLC shall allow for alternating operating schedules such that the service hours per blower is either 2:1, 3:1, 4:1, or 5:1 with respect to the standby unit..."*

The blower supplier scope does not include a Master Control Panel or Master Control Unit. Please clarify what the MCU PLC refers to.

Answer: See 1 u above.

ADDENDUM NO. 3 Industrial Wastewater Treatment Facility Project

02-13-2025

h. Question: Drawing No. I-5, MOV-01 & MOV-02 Both blower discharge isolation valves MOV-01 and MOV-02 are shown to have actuator service, however specifications section 11610-2.05.C has a discrepancy as it requires a manually operator isolation valve. Please advise if the discharge isolation valves shall be manual or actuated?

Answer: Discharge valves MOV-1 and 2 shall be electrically actuated.

i. *Question:* Drawing No. E-15. The Type column is not clear. Does PVC/RGS mean PVC coated RGS, or does it mean part of the run is PVC (UG?) and part of the run is RGS (Overhead? Riser?)

Answer: The Conduit Type column for Cable and Conduit Schedule on Drawing Sheet E-15 where PVC/RGS is identified shall be PVC-coated rigid galvanized steel conduit, as indicated in the list of abbreviations shown on Sheet G-4.

j. *Question:* Will the owner work with the awarded contractor regarding the long lead times due to lingering supply chain issues?

Answer: The project duration was determined based on long lead times for critical equipment; however, the City will review unanticipated supply chain issues on a case-by-case basis, assuming the Contractor has met the critical submittal requirements as detailed in the specifications and has maintained active progress on procurement and construction to the extent feasible.

k. *Question:* Is there an allowance amount for Bid Item 11 Field Orders? Reading the bid documents it appears there was meant to be an amount included in this line item to keep bids equal however we don't see an amount included. Please advise if there is an amount you would like to include for item 11.

Answer: Contractor shall enter a value of \$400,000 for Bid Item 11 Field Orders.

I. Question: On Sheet M-6 of the plans, the construction legend has the tees for 1, 2, and 3 listed as 18x18x10", 16x16x10" and 14x14x10. The pipes listed above for headers B, C, and D is listed as 12" exiting the tee. Should those tees be 18x18x12, 16x16x12, and 14x14x12?

Answer: Yes, that is correct, 18x18x12, 16x16x12, and 14x14x12.

m. **Question:** In regard to the DR rating of the fittings. On page 15064-5, 2.03 A 2, it states that "Due to pressure de-rating of fabricated fittings per AWWA C 906-15 (75% of the pressure rating of the pipe the fitting is fabricated from), all fabricated fittings shall be fabricated from DR9 pipe." The tees listed above (question I) are called out as DR17 on the plans. They will be fabricated.

Answer: Fabricated tees shall be fabricated from DR 9 pipe.

 CONSTRUCTION LEGEND
 12" DR 9

 1
 18" x 18" x 10" DR17 HDPE TEE

 2
 16" x 16" x 10" DR17 HDPE TEE

 3
 14" x 14" x 10" DR17 HDPE TEE

 4
 12" x 12" x 10" DR17 HDPE TEE

 5
 10" x 10" x 10" DR17 HDPE TEE DR 9

ADDENDUM NO. 3

Industrial Wastewater Treatment Facility Project

02-13-2025

n. **Question:** Please clarify Section 11600.1.08.A Aeration System Design Factors, it appears there is potential for a pressure rise value of 11.7 psi. In sizing our (Sulzer) turbo-compressors for this application should we use that value for the basis or rather use the design criteria of 7.0 psi. Our machines are capable of either pressure differential but we want to ensure that we size the best possible solution for this application.

Answer: Use the design operating pressure of 7 psi for sizing the turbo-compressors.

 Question: Please clarify Section 15064 – HDPE Pipe, paragraphs 1.01.C and 2.01 B state "DIPS" piping is to be provided matching outside the diameter of stainless-steel piping. Stainless steel piping sizing is supplied as IPS, so should HDPE with IPS or DIPS sizing be provided?

Answer: See 1 aa above.

- p. Question: Please clarify the following items concerning site fencing
 - 1. What size line, corner, and gate posts are required?
 - 2. Is top rail required or just top and bottom 7 ga. coil spring tension wire?
 - 3. Gate operator model 6400 doorking opener is rated for residential and only for 8' wide gates less than 300lsbs. Please confirm if this was mistaken for a 6500 model opener as that series as a pad mount commercial opener that does handle the other usage and rating.

Answer: See 1 i above and below:

- 1. Line posts shall be 2" Nominal Pipe Size (NPS). Corner and gate posts shall be 2.5" NPS.
- 2. Top rail is not required, just top and bottom tension wire.
- 3. Use the 6500 model Doorking opener.
- q. Question: Please clarify Sheet C-2, the Asphalt Paved area around the operations building on the Legend states "ASPHALT CONCRETE PAVEMENT PER DTL 1 ON DWG GC-1" Detail 1 on sheet GC-1 appears to shows a structural section of 4" Asphalt over 10" Crushed Aggregate Base, over 12" of scarified and compacted subgrade. This detail also has a note that states "ASPHALT CONCRETE AS INDICATED ON PLANS" Can you please confirm that this structural section of 4/10/12 is correct for the access road paving, as well as the site asphalt paving?

Answer: The structural section of 4" Asphalt over 10" Crushed Aggregate Base, over 12" of scarified and compacted subgrade is applicable to the access road paving as well as the site asphalt paving.

r. **Question:** What Topography data is shown is vague, has no elevation markers on many of the contours and does not quite cover the project site. Do you have CAD or a dedicated topo pdf sheet that can be used to produce an accurate estimate for this work?

Answer: Contours are visible on Sheets C-2 to C-5 as well as sections on Sheet C-7 and C-8 and C-9. The unlabeled contour on sheet C-3 surrounding the Headworks Pad is elevation 112.

ADDENDUM NO. 3 Industrial Wastewater Treatment Facility Project

02-13-2025

s. *Question:* Would you please direct me to a Plan Sheet or Specification Section that defines the Pipe Schedule (Pipe Type and Fitting) for each Service Description The Plan Sheets direct us to DWG G-5. PIPING SERVICE IDENTIFICATION only is shown.

Answer: Throughout the mechanical plans, there are pipe callouts that are written with three numbers (eg.,12" IW-7). The numbers correspond to:

- 1. PIPE DIAMETER SIZE
- 2. PIPING SERVICE IDENTIFICATION
- 3. GROUP NUMBER

The Piping Service identifications are as follows:

- A AERATION AIR
- CW COLD WATER
- EFF TREATED EFFLUENT
- HW HOT WATER
- IW INDUSTRIAL WASTEWATER
- NPW NON-POTABLE WATER
- S SEWER

The general layout of the above service types are shown on the summary on G-6.

The **group numbers** include the type of pipe and fitting for each group, which are summarized on the table on sheet G-5

3. Bid opening date remains the same: February 26, 2024, at 2:00 pm local time.

This Addendum has been sent to all "bidders of record". If there are questions regarding this addendum or bid, contact Megan Panofsky of MNS Engineers, Inc. via email at <u>mpanofsky@mnsengineers.com</u>.

negaranopsky

Megan Panofsky, Program/Construction Manager

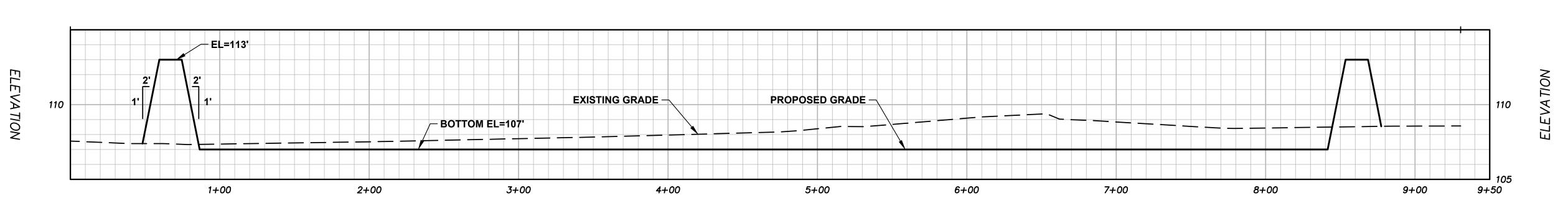
Bidders shall acknowledge receipt of the Addendum by signing and dating below and returning the Addendum with your sealed bid

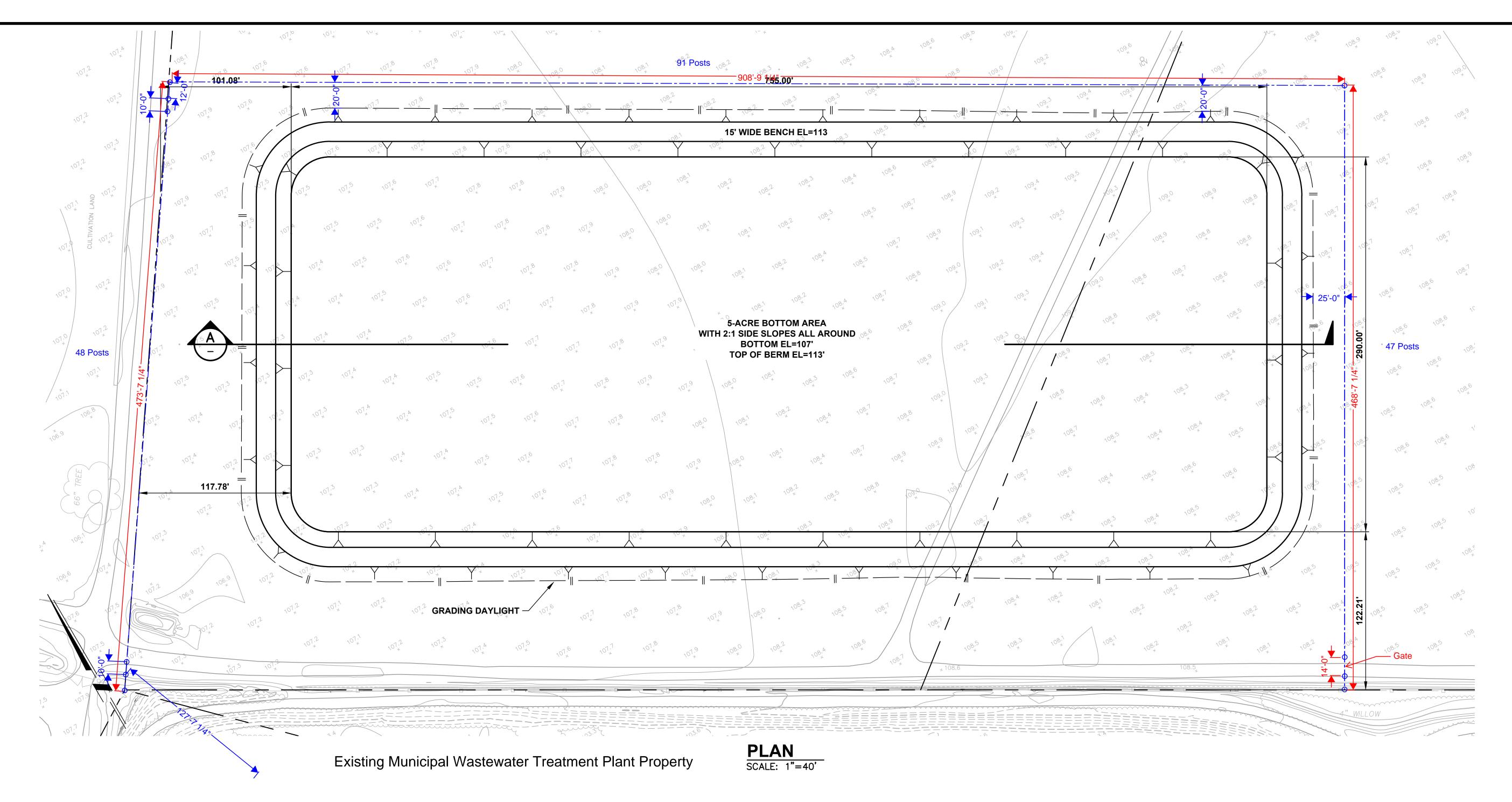
Bidder's Authorized Representative

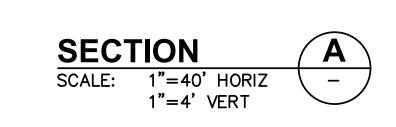
Date

End of Addendum 3









STATION

CONDITIONAL USE PERMIT 2021-01

COMMUNITY DEVELOPMENT DEPARTMENT

Property Address:	500 Short Road Gonzales, CA 93926		
Assessor Parcel Numbers:	223-061-017, 223-061-020, 223-061-019, 223-061-002, and 223-061-014		
Property Owner:	City of Gonzales	Applicant/ Permittee:	Same as Owner
Permit Issued To:	City of Gonzales		
Approval Date:	September 20, 2021 by the City Council		
PC Resolution:	PC-2021-01		

Permitted Use. Construct a 1.0 MGD Industrial Wastewater Treatment Facility (IWTF) on city owned property abutting the existing 1.3 MGD (Municipal Wastewater Treatment Plant (MWTP) resulting in a 2.3 MGD City wastewater system. In addition, construct a 10,700 linear foot wastewater pipeline to connect the IWTF to select dischargers in the Gonzales Agricultural Industrial Business Park.

The proposed IWTF would be located adjacent to the existing MWTP on Short Road. The IWTF plant includes a 1-acre emergency over flow pond, six 2-acre facultative lagoons, two 5-acre polishing ponds, and three 6-acre rapid infiltration disposal basins.

The proposed IWTF would comprise a total of approximately 54 acres. Approximately 49 acres are within the City limits and 5 acres are within Monterey County but located in the City's sphere of influence (SOI). The 5 acres within Monterey County will be annexed to the City as part of the proposed project and as a result of a separate application to the LAFCO before construction.

FINDINGS & CONSISTENCY

Section 1. Environmental (CEQA) Finding.

An Environmental Impact Report ('EIR') was prepared for the Gonzales Industrial Wastewater Treatment Facility and Industrial Wastewater Conveyance. (SCH#2020069049) The public review period for the EIR commenced on June 30, 2021 and ended on August 13, 2021. One comment letter was received from a State agency – Central Coast Regional Water Quality Control Board. No other comments/letters were received.

Section 2. General Plan Consistency

- A. The permitted use is consistent with the Gonzales General Plan to the following extent:
 - 1. The proposed project is consistent with the City's General Plan. The project is located in the land use area designated Public/Quasi Public where an IWTF is allowed. As stated in the 2010 Gonzales General Plan, this land use designation includes the 50 acres of land proposed for expansion of the MWTP.

Section 3. Zoning Ordinance Consistency

- A. The proposed use is consistent with the Gonzales Zoning Ordinance to the following extent:
 - 1. The proposed use is consistent with the Gonzales Zoning Ordinance. The intent of the Public Facility (PF) district is to provide areas parks, corporation yards, fire and police departments, city hall, and wastewater treatment plants needed by the city subject to regulation necessary to protect other nearby uses from hazards, noise and other disturbances..
- B. The Conditional Use Permit has been processed per the City's Zoning Ordinance requirements per Chapter 12.28 as follows:
 - 1. A Public Hearing Notice was published in the Salinas Valley Tribune on September 1, 2021.
 - 3. Public Hearing Notices were mailed to all property owners within 300'-0" of the site. An affidavit of mailing is on file at the Planning Department.
 - 4. A public hearing was conducted by the Planning Commission to consider the request on September 13, 2021, and members of the public were invited to comment and all comments were considered by the Planning Commission prior to its decision on the request.

Section 4. Conditional Use Permit Findings

Pursuant to the Gonzales City Code Chapter 12.28, §12.28.030, the following findings are made in support of approval of the Conditional Use Permit 2021-01. The findings are labeled numerically with the "evidence" proposed by staff in *italics*.

1. The use is necessary or desirable in relation to the purposes and intent of the Gonzales General Plan, zoning ordinance, and the economic, social and environmental status of the City because:

The proposed uses are fully consistent with the General Plan designation of the site as "Public/Quasi Public" as defined on page II-46 of the General Plan. This designation emphasizes public uses. The proposed project is consistent with General Plan policies that accommodate expansion of the wastewater treatment facilities.

2. The use will be properly related to other uses, transportation facilities, and other public facilities in the area, and will not cause undue environmental impacts relating to noise, odor, pollution, etcetera, because:

The proposed project consists of building a new 1.0 MGD industrial wastewater treatment plant and installation of 10,700 linear feet of new underground pipeline from the industrial park to the wastewater facilities. All environmental impacts are mitigated to a less than significant level except that the project would result in significant direct and cumulative impacts related to the conversion of Prime Farmland and Farmland of Statewide Importance and the project would result in a significant impact related to the potential for inundation due to the failure of uncertified levees and dams.

Because of the location of the project area is not near sensitive receptors or population centers, and surrounded by agricultural land and, or located in the ag business park, noise, odor, etc. are not deemed significant.

3. The use will not adversely affect the health or safety of persons living or working in the vicinity, or be materially detrimental to the public welfare of the city and its residents because:

The operation of a new wastewater treatment facility and ancillary pipelines will not have any effect on the health or safety of persons because of the significant distance (13,000 to 15,000 linear feet to waste treatment facility) to the nearest area of population (i.e., City of Gonzales residents). The project will be materially beneficial to the City because with project implementation there will be a separation of industrial and residential waste treatment and an overall increase in capacity for both residential and industrial uses which is an economic benefit to the community.

CONDITIONS OF APPROVAL

A. <u>Standard Conditions</u>.

1. **Timely Completion of Conditions**. Unless otherwise provided for in a special condition to this Use Permit, all conditions shall be satisfied prior to operations.

2. **Conditions Run with Land**. The conditions of approval contained herein shall be perpetual and it is the intention of the City that the conditions of approval run with the land and bind the Owner/Applicant and its successors and assigns in interest of the subject property to all of the conditions of approval.

3. **Conditions to be Included on all Plan Sets**. All conditions of approval for this project shall be included as a component (sheet) of all plan sets submitted for review and approval. These conditions of approval shall be on (at all times), all grading and construction plans kept on the project site. It is the responsibility of the Owner/Applicant to ensure that the various contractors are aware of, and abide by, the conditions of approval.

4. **No Nuisance/Use of Property**. Use of the property shall be conducted in such a way that it does not constitute a nuisance to the surrounding neighborhood. If the Community Development Director/Planning Commission/City Council finds at any time that any use of the property constitutes such a nuisance or is otherwise detrimental to the neighborhood or to the community, such use shall be discontinued or modified as may be required. Failure to fully comply with all conditions of this approval may result in revocation of this permit.

5. **Code and Standards Compliance**. All construction and improvements and uses shall be in accordance with zoning, building, fire, and all other codes, ordinances, and public works standards and specifications of the City of Gonzales or agencies that have regulatory jurisdiction over the project. All such requirements shall be met prior to issuance of a temporary and/or Final Certificate of Occupancy for the entire Project, or a portion thereof, or final building inspection, except for items agreed to by the owner and the Building Official and/or Director of Public Works.

B. <u>Special Conditions/Environmental Impact Report Mitigation Measures</u>

The Conditions of Approval for this project incorporates herein by reference the IWTF EIR Mitigation Monitoring and Reporting Program ("MMRP").

<u>General</u>

6. **California Code – Green Building Standards ('CalGreen')**. The Owner/Applicant shall comply with all of the applicable non-residential mandatory measures contained in Chapter 5 of the 2016 California Code of Green Building Standards ('CalGreen'); California Code of Regulations, Title 24, Part 11.

7. **Climate Action Plan Compliance**. At the time Improvement Plans are submitted, the Owner/Applicant shall demonstrate to the satisfaction of the Director of Community Development that the Project includes greenhouse gas emission reduction measures that when applied together will account for a reduction in greenhouse gas (GHG) emissions of 159.90 MT Co₂e. Any documentation used to quantify the reduction in GHG emissions shall include a GHG emission reduction value for each measure and a calculation demonstrating how the reduction value was determined.

Improvement Plans, Soils/Geotechnical Investigation/Grading

8. **Improvement Plans**. The Owner/Applicant shall cause the preparation and submittal of improvement plans in a form acceptable to the City for review and approval. The improvement plans shall be accompanied by supporting studies and documentation which shall set forth the improvements necessary to construct, and thereafter serve the proposed Project including, but not limited to, final grading plans, geotechnical investigation and recommendations, temporary access, water supply and electrical power, permanent street and parking area improvements, water and sewer system improvements, storm drainage and retention facilities, gas, electric, telephone and cable facilities, and any other necessary appurtenances and/or services. Unless otherwise noted, all improvement plans and specifications shall be designed by a Civil Engineer licensed in the State of California. Prior to the issuance of a Final Certificate of Occupancy for the project, the Owner/Applicant shall cause the final improvement plans and map documents to be submitted to the City in digital format (AutoCADD).

9. **Structural Stability/Seismic Safety**. All structures shall be designed and constructed to resist a major earthquake as required by the latest edition of the California Building Code. All recommendations regarding seismic concerns identified in any geotechnical investigation prepared for the site shall be incorporated into the final building and improvement plans for the Project.

10. **Construction and Maintenance of On-site Utilities**. All on-site utilities (i.e., water, sanitary sewer and storm drainage) shall be designed and constructed to City standards and subject to the review

and approval of the Director of Public Works and the City Engineer and accepted by the City prior to uses. All on-site utilities shall be privately maintained.

11. **Warranty and Workmanship of Public Improvements**. All public improvements, as shown on the Improvement Plans, or required by these conditions of approval, shall be constructed per City Standards and Regulations and approved by the Director of Public Works and the City Engineer. The City may reject defective work and require its repair, replacement, or removal at no expense to City. All work shall meet the standards adopted or in current use by City, and otherwise shall conform to the approved plans and specifications.

All work is to be free of all defects of workmanship and materials for a period of one year after initial acceptance of the entire work by City. If defects in design, workmanship and materials actually appear during the guarantee period, and once corrected, the guarantee period with respect to such repairs shall automatically be extended for an additional year to ensure that such defects have actually been corrected.

12. **Soils Report/Geotechnical Investigation**. Improvement Plans submitted to the City for review and approval shall be accompanied by a soils report/geotechnical investigation. The project designer shall follow all recommendations included in soils report/geotechnical investigation when preparing the grading plan, site design and utility plans. The project soils engineer shall review the project plans and shall perform all required site inspections during construction.

13. **Grading & Excavation**. A qualified professional geotechnical engineer shall perform on-site monitoring of all grading, excavation and compaction activities on the Project site and in the public rights-of-ways. Evidence of an agreement between the Owner/Applicant and a geotechnical engineer shall be submitted for review and approval by the Building Department/City Building Official and the City Engineer prior to the issuance of a grading permit. Said geotechnical engineer will submit evidence that grading, excavation and compaction were performed consistent with the recommendations of the geotechnical investigation.

14. **Construction Equipment Emissions**. The Owner/Applicant shall be aware that the Air District suggests that cleaner construction equipment be used for the project, including equipment that conforms to ARB Tier 3 or Tier 4 emission standards. The District further recommends that, whenever feasible, construction equipment use alternative fuels such as compressed natural gas (CNG), propane, electricity or biodiesel.

Storm Water Pollution Prevention

15. **Storm Water Pollution Prevention Plan.** Prior to the issuance of a grading permit, the Owner/Applicant shall prepare and submit a Notice of Intent to the State Water Resources Control Board (SWRCB) and prepare a Storm Water Pollution Prevention Plan (SWPPP) that has been designed specific to its site, conforming to the State Storm water NPDES Construction Permit or local ordinance, which-ever is stricter, as is required for projects one acre or more. The Plan should cover prevention of soil loss by storm water run-off and/or wind erosion, of sedimentation, and/or of dust/particulate matter air pollution. Evidence of such submittal shall be provided to the Director of Public Works and City Engineer prior to commencement of grading. The SWPPP shall remain onsite during the duration of project construction. Obtaining the appropriate operational permit is also required prior to the issuance of an occupancy permit.

16. **State Water Resources Control Board Industrial Permit**. The Owner/Applicant is responsible for determining if the project must comply with the State's General Permit for Storm Water Discharges Associated with Industrial Activities including on-site sampling requirements. If the project must comply with this Storm Water Permit, the Owner/Applicant shall take all appropriate actions and all design, permitting and construction costs shall be borne by the Owner/Applicant.

17. **State Water Resources Control Board Phase II Small MS4 NPDES Permit (MM-3).** Owner/Applicant shall be aware that a Storm Water Control Plan (SCP) will be required as a result of the City of Gonzales' enrollment on, July 1, 2013, into the "State Water Resources Control Board Water Quality National Pollution Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) - Order No. 2013-0001-DWQ, General Permit CAS000004."

Prior to the issuance of a temporary or permanent Certificate of Occupancy for the entire project, or any portion thereof, the Owner/Applicant shall cause the preparation of a Stormwater Control Plan (SCP) to document the Post-Construction Stormwater Control Measures (SCMs). The SCP shall be prepared by a registered civil engineer, in conformance with the Post Construction Standards outlined in Section XII of the "General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities Order No. 2009-0009-DWQ as amended by 2010-0014-DWQ and 20 12-0006-DWQ". The SCP must include an Operation and Maintenance (O&M) Plan that addresses maintenance procedures and intervals for each SCM and identifies the responsible party to conduct maintenance. A maintenance Agreement will be required to ensure on-going maintenance for the life of the facility. The Agreement shall include the project owner's signed statement accepting responsibility for the O&M of the installed onsite and/or offsite structural treatment and flow control SCMs until such responsibility is legally transferred to another entity; and either:

- a. Written conditions in the sales or lease agreements or deed for the project that require the buyer or lessee to assume responsibility for the O&M of the onsite and/or offsite structural treatment and flow control SCM until such responsibility is legally transferred to another entity; or
- b. Any other legally enforceable agreement or mechanism, such as recordation in the property deed, that assigns responsibility for the O&M of the onsite and/or offsite structural treatment and flow control SCM to the project owner(s) or the City.

The Storm Water Control Plan, including the Operation and Maintenance Plan and the Storm Water Control Measures shall all be reviewed and approved by the City Engineer.

18. **On-site Storage and Treatment of Industrial Wastewater**. The Owner/Applicant shall obtain approval for on-site storage of industrial wastewater from the Central Coast Regional Water Quality Control Board, Monterey County Environmental Health Department and any other governmental agency with jurisdiction with regard to public health, groundwater or vector control matters. Any lagoons, ponds or other storage of industrial wastewater shall be lined to the satisfaction of the Director of Public Works and the City Engineer. Alternatively, storage of industrial wastewater in above-ground tanks shall be to the satisfaction of the Director of Public Works and the City Engineer. Storage of industrial wastewater shall not exceed two calendar days due to potential odor issues.

19. **Compliance with City of Gonzales Ordinance No. 2015-83**. The Owner/Applicant shall comply with the applicable provisions of Ordinance No. 2015-83, including those provisions contained in the Gonzales City Code at Chapter 10.24 Water Efficient Landscape Design Requirements and Chapter 10.28 Stormwater Quality Management and Discharge Control.

Circulation (On- and Off-site) and Parking

20. **Encroachment Permit**. The Owner/Applicant shall obtain encroachment permits from the City for any work to be performed in City public rights-of-way, from the County for any work to be performed within the Monterey County rights of way, and from the California Department of Transportation for any work to be performed in the State rights-of-way. Any work in these rights-of-ways shall be performed only by contractors licensed in the State of California.

Diversion of Solid Waste and Construction/Demolition Debris (Recycling)

21. **Diversion of Construction & Demolition Debris (Recycling)**. Prior to the issuance of a Demolition Permit and/or Building Permit, the Owner/Applicant shall cause the preparation of a Construction and Demolition Debris Waste Management Plan for the project. The content and implementation measures of the Plan shall conform to guidelines promulgated by the City of Gonzales, as summarized in a handout entitled "*City of Gonzales Construction & Demolition Recycling Requirement Review for: Demolition, New Construction & Roofing*". The Plan shall include, but not be limited to, a Construction Waste Management Plan, Construction Waste Management Worksheet and Inventory of Waste Material Type and Diversion Method, and Waste Reduction & Recycling Plan. Preparation of the Plan shall be coordinated with the City's Recycling Coordinator and reviewed and approved by the Coordinator and the City Building Official.

RESOLUTION NO. 2021-49

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GONZALES APPROVING (1) A STATEMENT OF OVERRIDING CONSIDERATIONS, (2) A MITIGATION MONITORING PROGRAM, AND (3) APPROVAL OF CONDITIONAL USE PERMIT (CUP 2021-01) THAT WILL ALLOW THE GONZALES INDUSTRIAL WASTE TREATMENT FACILITY AND CONVEYANCE PROJECTS TO PROCEED. ASSESSOR PARCEL NUMBERS: 223-061-017, 223-061-020, 223-061-019, 223-061-002, AND 223-061-014

WHEREAS, the City has an existing Waste Treatment Facility permitted by the State of California Regional Water Quality Control Board to process up to 1.3 MGD of effluent; and

WHEREAS, the capacity of the existing Gonzales Industrial Waste Treatment Facility needs to expand to accommodate future industrial expansion and residential developments as discussed in the General Plan; and

WHEREAS, the City desires to embark on development of a new 1.0 million gallon per day (MGD) Gonzales Industrial Waste Treatment Facility and associated approximately 10,700-foot Industrial Waste Conveyance pipeline; and

WHEREAS, the City contracted the services of an environmental consultant (Dudek) to prepare an Environmental Impact Report (EIR) per the requirements of the California Environmental Quality Act (CEQA); and

WHEREAS, an EIR with Appendices was prepared and circulated for a 45-day public review period with an assigned California State Clearinghouse number (SCH#2020069049) with said review period commencing on June 29, 2021 and ending on August 13, 2021; and

WHEREAS, the City Council considered the aforesaid EIR, in its final form, at a noticed public hearing on September 20, 2021, and after considering all relevant matters, certified the Final EIR for the Gonzales Industrial Waste Treatment Project by adoption of Resolution No. 2021-43; and

WHEREAS, the following two environmental considerations were determined in the Final EIR to have Significant and Unavoidable impacts (i.e., no mitigation could reduce the impact to a Less-than-Significant level). Therefore, these impacts require findings and a *Statement of Overriding Considerations*, which is attached herein as Exhibit 'A':

- Ag and Forestry Resources
- Hydrology and Water Quality

WHEREAS, The Final EIR indicates that potentially significant environmental impacts identified and discussed in the Final EIR can be mitigated to a less-than-significant level as indicated in the EIR ; and

WHEREAS, a *Mitigation Monitoring and Reporting Program* (MMRP) has been prepared based on the prescribed mitigation measures set forth in the Final EIR and is attached hereto as Exhibit 'B'; and

WHEREAS, approval of the Gonzales Industrial Waste Treatment Project requires consideration and approval of a *Conditional Use Permit* (CUP 2021-01) and a copy of findings and the required permit is attached hereto as Exhibit 'C'; and

WHEREAS, the Planning Commission considered a resolution (Resolution PC No. 2021-03) on September 13, 2021, recommending to the City Council that it by resolution approve: (1) Statement of Overriding Considerations, (2) a Mitigation Monitoring Program, and (3) approval of Conditional Use Permit (CUP 2021-01) that will allow the treatment and conveyance projects to proceed; and

WHEREAS, the City Council conducted a noticed public hearing on the aforesaid 1) Statement of Overriding Considerations, (2) Mitigation Monitoring and Reporting Program, and (3) Conditional Use Permit (CUP 2021-01), and after taking public comment on said documents, now desires to move forward with consideration of approval of the same.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Gonzales, as follows:

Section 1. The foregoing recitals are true and correct and constitute the City Council's findings in this matter.

Section 2. Based on the aforesaid findings, information contained in the Final EIR for the Gonzales Industrial Waste Treatment Project (as Certified by Resolution No. 2021-43), and all related evidence and comments thereon, facts and findings contained in the documents referenced herein, and in compliance with CEQA, including but not limited to Public Resources Section 21081, the City Council hereby approves and adopts the (1) Statement of Overriding Considerations and (2) Mitigation Monitoring and Reporting Program for the Gonzales Industrial Waste Treatment Project, attached hereto as Exhibits 'A' and 'B', and by this reference incorporated herein.

Section 3. Based on the aforesaid findings, and all facts and findings contained in the document referenced herein this section, the City Council approves Conditional Use Permit (CUP 2021-01), attached hereto as Exhibit 'C', and incorporated by this reference, that will allow the Gonzales Industrial Waste Treatment Facility and associated Industrial Waste Conveyance pipeline Project to proceed as conditioned.

PASSED AND ADOPTED at the regular meeting of the Gonzales City Council duly held on the 20th day of September 2021, by the following vote:

AYES: **COUNCIL MEMBERS:** Mayor Pro Tem Scott Funk, Liz Silva, Lorraine Worthy, Paul Miller, and Mayor Jose L. Rios

NOES: COUNCIL MEMBERS: None

ABSTAIN: COUNCIL MEMBERS: None

ABSENT: COUNCIL MEMBERS: None

Jose L. Rios, The Honorable Mayor

ATTEST:

Mary Villegas, Deput City Clerk

SECTION 01756

COMMISSIONING AND PROCESS START-UP

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes Requirements for the Planning, Commissioning and Process Start-Up phases for the Project.
- B. Related sections:
 - 1. Section 01010 Summary of Work.
 - 2. Section 01510 Temporary Utilities.
 - 3. Section 15050 Basic Mechanical Materials and Methods.
 - 4. Section 15950 Testing, Adjusting, and Balancing.
 - 5. Section 16940 Electrical Testing.

1.02 DEFINITIONS

- A. Clean Water Facility Testing Testing of complete facility utilizing MWWTP treated effluent water for purposes of confirming extended equipment/system operation prior to process start-up.
- B. Commissioning The process of testing the installation for compliance with contract requirements and demonstrating, through documented verification, that the project has successfully met the Contractual requirements and the Project is ready for Process Start-Up.
- C. Component A basic building block of equipment, subsystems, and systems that requires installation or functional testing but does not have an electrical connection or internal electronics. (Examples: filter effluent piping and manual isolation valves).
- D. Device A basic building block of equipment, subsystems, and systems that requires installation or functional testing and has an electrical connection or internal electronics. (Examples: filter level transmitter or water pump pressure transmitter).
- E. Equipment An assembly of component(s) and devices(s) that requires installation or functional testing. (Examples: Pump, motor, VFD, Blowers, etc.).
- F. Facility A grouping of process areas, systems, subsystems, equipment, components, and devices (Example: Treatment Plant, Pump Station, etc.).
- G. Preliminary Functional Testing Testing performed on a completed subsystem to demonstrate that equipment/system meets manufacturers' calibration and adjustment requirements and other requirements as specified. Functional testing includes operating equipment/system manually in local, manually in remote (or remote manual), and automatically in remote (in remote auto).
- H. Installation Testing Testing to demonstrate that subsystem component (piping, power, networks, devices, etc.) is ready and meet the project requirements in advance of functional testing. Installation testing also includes manufacturers' certification of installation and other requirements as specified to prepare equipment/system for Functional Testing. Also referred to as Functional Acceptance Test (FAT). Factory Test (FT) shall be performed as required per individual spec section(s).

- I. Instrumentation and Controls Performance Testing and Fine Tuning Testing to prove the performance of the Instrumentation Process Control system by operating for an extended period.
- J. Manufacturer's Certificate of Source Testing When applicable, the form is used during Source Testing for the manufacturer to confirm that the applicable source tests have been performed and results conform to the Contract Documents. The form is provided at the end of this Section.
- K. Manufacturer's Certificate of Installation and Functionality Compliance The form is used during Installation Testing and Functional Testing. It is submitted at the end of Functional Testing to confirm that the equipment/system is installed in conformance with the Contract Documents and that it meets the Functional Testing requirements defined in the Contract Documents. The form is provided at the end of this Section.
- L. Phases The work activities of testing, training, facility commissioning, and process start-up are grouped into the 2 distinct phases as defined in the table below.

Commissioning Phase	Process Start-Up Phase
Source Testing	Process Start-Up
City Training	Process Operational Period
Installation Testing	Instrumentation and Controls Performance Testing and Fine Tuning
Functional Testing	
Clean Water Facility Testing	
Closeout Documentation	

- M. Process Area A grouping of systems, subsystems, equipment, components, and devices that divide a facility into functional areas. (Examples: Headworks Area or Blowers Area).
- N. Process Operational Period A period after completion of the Process Start-Up set aside for final Operational Testing to verify facility performance meets the Contract Document requirements. This period may specifically limit other construction activities.
- O. Process Start-Up Activities conducted after commissioning that are necessary to place systems or process areas into operational service.
- P. Product A system, subsystem, or component.
- Q. Source Testing Quality control testing conducted at the source or point of assembly to demonstrate components, devices, equipment/systems, and software meets specified performance requirements prior to shipment. Also referred to as factory testing or factory acceptance testing (FT).
- R. Subsystem A building block of systems made up from a grouping of components, devices, and equipment that perform a definable function. (Examples: Potable Water System, Sewage System).
- S. System A grouping of subsystems, equipment, components, and devices that perform a definable function. (Examples: Treatment Basin).

1.03 SERVICES OF MANUFACTURER'S REPRESENTATIVES

- A. Qualification of manufacturer's representative as specified in the Contract Document's technical sections includes the following:
 - 1. Authorized representative of the manufacturer, factory trained, and experienced in the technical applications, installation, operation, and maintenance of respective equipment/system with full authority by the equipment/system manufacturer to issue the certifications required of the manufacturer.
 - 2. Competent, experienced technical representatives of equipment/system manufacturers for assembly, installation, testing guidance, and training.
 - 3. Additional qualifications may be specified in the individual Specification sections.
 - 4. Submit qualifications of the manufacturer's representative no later than 30 days in advance of required observations.
 - 5. Representative subject to approval by City and Construction Manager.
 - 6. No substitute representatives will be allowed until written approval by City and Construction Manager has been obtained.
- B. Completion of manufacturers' on-site services: Construction Manager approval required.
- C. Manufacturer is responsible for determining the time required to perform the specified services.
 - 1. Minimum times specified in the Contract Documents are estimates.
 - 2. No additional costs associated with performing the required services will be approved.
 - 3. Manufacturer required to schedule services in accordance with the Contractor's project schedule up to and including making multiple trips to project site when there are separate milestones associated with installation of each occurrence of manufacturer's equipment.
- D. Manufacturer's on-site services as specified in the Contract Documents include the following:
 - 1. Assistance during Commissioning and Process Start-Up.
 - 2. Provide daily copies of manufacturers' representatives field notes and data to the Construction Manager.
 - 3. Other requirements as specified in the Contract Documents.

1.04 PLANNING PHASE

- A. Submit Commissioning and process start up schedule and plan not less than 180 calendar days prior to planned initial commissioning of each subsystem or system to the sole satisfaction of the City.
- B. Commissioning and Process Start-Up schedule:
 - 1. Commissioning overview:
 - a. Comply with Commissioning and Process Start-Up Roles and Responsibilities Matrix specified at the end of this Section.
 - 2. Submittal due date:
 - a. Submit Commissioning and Process Start-Up schedule not less than 180 calendar days prior to planned initial commissioning of each subsystem or system.
 - 3. Schedule requirements:
 - a. Include in the baseline schedule as outlined in Section 01310, Progress Schedules and Reports, the commissioning and process start-up schedule.
 - b. Schedule durations and float for commissioning and process start-up activities to ensure Work does not fall behind schedule due to complications or delays during Commissioning and Process Start-Up.

- c. Time-scaled network diagram detailing the work to take place in the period between 90 calendar days prior to planned initial commissioning and process start-up of equipment and systems, and prior to the date of Substantial Completion, together with supporting narrative.
- d. Provide detailed schedule of Commissioning and Process Start-Up activities including durations and sequencing requirements.
 - 1) Identify the following activities:
 - a) Commissioning Phase:
 - (1) Source Testing.
 - (2) City Training.
 - (3) Installation Testing.
 - (4) Functional Testing.
 - (5) Clean Water Facility Testing.
 - (6) Closeout Documentation.
 - b) Process Start-Up Phase:
 - (1) Process Start-Up.
 - (2) Process Operational Period.
 - (3) Instrumentation and Controls Performance Testing and Fine Tuning.
- e. Schedule manufacturer's services to avoid conflict with other on-site testing or other manufacturers' on-site services.
- f. Verify that conditions necessary to allow successful testing to have been met before scheduling services.
- C. Clean Water Facility Testing Plan:
 - 1. Submit a Clean Water Facility Testing Plan equivalent to the requirements of the subsystem test plans a minimum of 120 calendar days prior to Clean Water Facility Testing.

1.05 COMMISSIONING PHASE

- A. Overview of Commissioning Phase:
 - 1. General:
 - a. Include specified Source Testing, City Training, Installation Testing, Functional Testing, Clean Water Facility Testing, and Closeout Documentation required by this Section and the technical sections.
 - 2. Contractor responsibilities:
 - a. Furnish labor, power, chemicals, tools, equipment, instruments, laboratory analyses, water quality testing, and services required for and incidental to completing commissioning activities in accordance with the approved Commissioning Plans.
 - b. Prior to testing, verify equipment protective devices and safety devices have been installed, calibrated, and tested.
 - c. Acceptable tests: Demonstrate the equipment/system performance meets the requirements stated in the Contract Documents.
 - 1) When the equipment/system fails to meet the specified requirements, perform additional, more detailed, testing to determine the cause, correct, repair, or replace the causative components and repeat the testing that revealed the deficiency.

B. Source Testing:

- 1. Also referred to as factory testing (FT).
- 2. Test components, devices, and equipment/system for proper performance at point of manufacture or assembly as specified in the technical specifications.
- 3. Notify the Construction Manager in writing when the equipment/system is ready for source inspection and testing.
- 4. Source Test Plan:
 - a. As specified in this Section and other technical sections.
 - b. Source Testing requirements as specified in technical sections.

City of Gonzales Industrial Wastewater Treatment Facility Commissioning and Process Start-Up 01756-4

- 1) Non-witnessed: Provide Manufacturer's Certificate of Source Testing.
- c. Prepared by Contractor as a result of discussions and planning emerging from regularly conducted commissioning and process start-up meetings for source tests as specified in the Contract Documents.
- d. Provide the following items for each Source Test:
 - 1) Purpose and goals of the test.
 - 2) Identification of each item of equipment/system, including system designation, location, tag number, control loop identifier, etc.
 - 3) Description of the pass/fail criteria that will be used.
 - 4) Listing of pertinent reference documents (Contract Documents and industry standards or specifications applicable to the testing).
 - 5) Complete description, including drawings or photographs, of test stands and/or test apparatus.
 - 6) Credentials of test personnel.
 - 7) Descriptions of test equipment to be used, product information, and all appropriate calibration records for the test equipment.
 - 8) Test set-up procedures.
 - 9) Detailed, step-by-step test procedures.
 - a) The level of detail shall be sufficient for any witness with a rudimentary technical aptitude to be able to follow the steps and develop confidence that the tests were being performed as planned.
 - b) All steps are significant, and all steps shall be included in the procedures.
 - 10) Sample data logs and data recording forms. Sample computations or analyses with the results in the same format as the final report to demonstrate how data collected will be used to generate final results.
 - a) Complete disclosure of the calculation methodologies.
 - b) Include a sample for each type of computation required for the test and analysis of the results.
 - 11) Detailed outline of the Source Test report.
 - 12) Sample test reports.
- e. Submit Source Test Plan and forms as specified in the technical specifications.
 - 1) Submit a copy of the Source Test Plan at least 21 days before any scheduled test date.
 - 2) Engineer approval of Source Test Plan required prior to beginning source testing.
 - 3) Schedule the testing after approval of the test procedures submittal.
- f. Indicate the desired dates for source inspection and testing.
 - 1) Notify the Engineer of the scheduled tests a minimum of 15 days before the date of the test.
- 5. Test results:
 - a. Prepare and submit test results with collected data attached.
- 6. Contractor is responsible for providing fuel, chemicals, and other consumables needed for Source Testing.
- C. City Training:

a.

- 1. Conduct hands-on instruction according to the following descriptions:
 - Present hands-on demonstrations of at least the following tasks:
 - 1) Proper start-up, shutdown, and normal and alternative operating strategies.
 - 2) Common corrective maintenance repairs for each group.
 - 3) Describe recommended procedures to check/test equipment/system following a corrective maintenance repair.
 - b. Use tools and equipment provided by manufacturer to conduct the demonstrations.
 - 1) Submit requests for supplemental assistance and facilities with the Contractor's proposed lesson plans.

- c. Contractor remains responsible for equipment disassembly or assembly during hands-on training situations involving equipment disassembly or assembly by City's personnel.
 - 1) Provide written certification of proper equipment/system operation to Engineer after completion of hands-on training.
- 2. Number of students:
 - a. Estimated maximum class size: 8 persons.
 - 1) City will determine the actual number of students.
 - 2) Engineer will provide an estimated headcount 1 week prior to the class, so that the instructor can provide the correct number of training aids for participants.
- 3. Instructor qualifications:
 - a. Provide instructors completely knowledgeable in the equipment/system for which they are training.
 - b. Provide instructors experienced in conducting classes.
 - c. Provide instructor's technical preparation and instructional technology skills and experience.
 - d. Sales representatives are not qualified instructors unless they possess the detailed operating and maintenance knowledge required for proper class instruction.
 - e. If, in the opinion of the City, an appropriately knowledgeable person did not provide the scheduled training, such training shall be rescheduled and repeated with a suitable instructor at no additional cost to City.
 - f. Instructor qualifications are subject to the approval of the Engineer.
- 4. Classroom documentation:
 - a. Trainees will keep training materials and documentation after the session.
 - b. Operations and maintenance manuals, as specified in Section 01730, Operation and Maintenance Data, and the technical sections:
 - 1) Provide hard copies of the final approved operations and maintenance manuals as specified in Section 01730 for use during the classroom instruction.
 - 2) City reserves the right to delay training for a particular equipment item if the operations and maintenance manuals for that equipment are incomplete, inaccurate, or otherwise unsuitable for use by the City's staff.
 - 3) City also reserves the right to delay training for a particular equipment item if the contents of training need modifications or adjustment as per City's/Engineer's comments prior to the approval of training document to meet City's expectation of the training.
 - 4) No contract extensions or extra costs will be allowed for training delays due to operations and maintenance manual submittal delays or any of the reasons mentioned above.
 - c. Training manuals and materials:
 - 1) Furnish training manuals and other materials for training courses.
 - 2) Manuals are to be professionally written to present the course material in a format that is easy to comprehend.
 - 3) The manuals are to serve as teaching aids during presentation of the training classes.
 - 4) Manuals are to serve as reference material after the training has been completed:a) All text shall be capable of electronic word searches:
 - a) All text shall be capable of electronic word searches:
 5) Electronic training data shall comply with the labeling, formats, file saving, and file naming conventions for Operation and Maintenance data as specified in Section 01730.
- 5. Class logistics:
 - a. Conduct all training at the project site unless another location is approved by the City.
 - b. Class agenda:
 - 1) Schedule refreshment breaks and meal breaks to meet the class needs and City work rules.
 - c. Schedule specific sessions:

- 1) Minimum of 30 days in advance to allow City staffing arrangements to take place.
- 2) At the times requested by the City, within the period 7 a.m. to 7 p.m. Monday through Friday.
 - a) Times scheduled will be at City's discretion.
- 3) City approval and confirmation required for session schedules.
 - a) A maximum of 1 session per day for each class is allowed.
- d. Revise training sessions judged "Unsatisfactory" by a majority of attendees.
 - 1) Conduct training sessions again until a satisfactory rating is achieved at no additional cost to City.
- 6. Submittals:
 - a. Prior to the training session:
 - 1) Instructor qualifications: Due 90 calendar days prior to initial training session.
 - 2) Training course materials: Due 60 calendar days prior to initial training session.
 - a) Training agenda, lesson plan, presentation, and handouts.
 - b) Other audio-visual aids utilized during each training course.
 - c) Format: 2 electronic copies and 3 hard copies organized in notebooks.
 - d) Provide an additional 2 hard copies for the PC and PDM.
- 7. Specific Requirements for Instrument and Control Systems:
 - a. Provide operations and maintenance training for items of instrumentation equipment and controls system components. Utilize manufacturer's representatives to conduct training sessions.
 - b. Coordinate training sessions to prevent overlapping sessions. Arrange sessions so that individual operators and maintenance technicians do not attend more than 2 sessions per week.
 - c. Contractor shall provide elements of training for the software and components that they configured, created or constructed. Examples include, but are not limited to: application software, alarm configuration, PLC cabinets, instruments, analyzers, and architecture of the PanelView HMI.
 - d. Include instruction on the use of all maintenance equipment and special tools provided under the Contract.
 - e. Complete operator training classes before process start-up of the SCADA system, or any part of it.
 - f. Schedule follow-up training classes after HMI start-up for a duration of two (2) days.
 - g. System overview training:
 - 1) Furnish training courses that give the City's supervisory level personnel an overview of all elements of the I&CS system that focus on the overall functional aspect of elements of the control system and provide an understanding of the interaction of the various components.
 - h. Training course requirements:
 - 1) Operator training:
 - a) Furnish training courses that provide system operators with a working knowledge of the I&CS that include the general operation of the control system.
 - b) Operator's training shall include:
 - (1) Control system overview: Architecture, equipment functions, software components, etc.
 - (2) Display navigation, overview, and types of displays.
 - (3) Process and equipment monitoring and control: Basic principles and operation.
 - (4) Logging ON and OFF the system and description of the security and access system.
 - (5) Alarm subsystem.
 - (6) Trending: Provide a thorough session on how to use all trending functions.
 - (7) Reports: How to access, print, and review content.

- (8) Control strategies: Present an average 15-minute review of each control strategy, including a hands-on demonstration of screens and operator functions for each.
- (9) Instruction on the use of all operational functionality alarm logging, trending, displays, database, reports, and control software developed for the Project and incorporated in the installed I&CS system.
- c) Training includes prescribed Rockwell Automation training.
- 2) OIT/HMI hardware/software development training:
 - a) Provide training by a factory-authorized vendor.
 - b) Furnish training courses that will enable the City's staff to develop and maintain all aspects of the operator interface system applications.
 - c) Overview of hardware and firmware, including starting, stopping, and PLC interface.
 - d) Training includes prescribed Rockwell Automation SCADA hardware and software training including Factory Talk View SE.
 - e) Include topics:
 - (1) Operating systems and utilities such as virus protection software.
 - (2) Point (tag) database development and modification.
 - (3) Troubleshooting.
 - (4) I/O servers, drivers, licensing etc.
 - (5) PLC interface functions and software.
 - (6) Graphic screen creation and editing.
 - (7) Trending.
 - (8) Alarms and events.
 - (9) System security, access levels, and areas of responsibility.
 - (10) General system maintenance, including backups, history data archive, version control, file naming and cataloging conventions, and system file housekeeping.
- 3) Report training:
 - a) Furnish training courses that will enable the City's staff to develop and maintain all aspects of reports.
 - b) Training includes prescribed Rockwell Automation training.
 - c) Include topics:
 - (1) Generation of a developed report.
 - (2) Generation of a new report.
 - (3) Modification and editing of reports.
 - (4) Formatting reports.
 - (5) Manual entry and automatic entry of data from a database.
- 4) Instrumentation training:
 - a) Furnish training covering all instruments and control panels.
 - b) Furnish the specified quantity of training, allocated to cover new instruments and hardwired controls as specified in this Section and specifically determined in the accepted training plan.
 - c) Train maintenance staff in the use, cleaning, calibration, maintenance, and troubleshooting of all the instruments furnished within this Project.
 - d) Furnish training on the operation of new hardwired controls.
- 5) Analytical instrument training:
 - a) Furnish training covering all analytical instruments.
 - b) Furnish the specified quantity of training, allocated to cover new analytical instruments as specified in this Section and specifically determined in the accepted training plan.
 - c) Train maintenance staff in the use, cleaning, calibration, maintenance, and troubleshooting of all the analytical instruments furnished within this Project.

- d) Provide training by manufacturer.
- D. Installation Testing:
 - 1. Perform subsystem testing according to approved Subsystem Testing Plans.
 - 2. Initiate the Manufacturer's Certificate of Installation and Functionality Compliance for all equipment.
 - a. Manufacturer's Certificate of Installation and Functionality Compliance form is included in this Section.
 - b. Manufacturer's Certificate of Installation and Functionality Compliance certifies the equipment meets the following requirements:
 - 1) Has been properly installed, adjusted, aligned, and lubricated.
 - 2) Is free of any stresses imposed by connecting piping or anchor bolts.
 - 3) Is able to be operated as necessary for Functional Testing.
 - c. Form shall be submitted after completion of Functional Testing, as specified in this Section.
 - 3. Coordinate Installation Testing with restrictions and requirements as specified in Section 01010, Summary of Work.
 - 4. Perform Holiday testing.
 - 5. Perform pressure and leakage testing as specified in individual component Sections and Section 15950.
 - 6. Perform mechanical equipment Installation Testing: As specified below and in individual equipment Sections, such as Sections 15050 and 15950:
 - a. Remove rust preventatives and oils applied to protect equipment during construction.
 - b. Flush lubrication systems and dispose of flushing oils.
 - 1) Recharge lubrication system with lubricant recommended by manufacturer.
 - c. Flush fuel system and provide fuel for testing and start-up.
 - d. Install and adjust packing, mechanical seals, O-rings, and other seals. Replace defective seals.
 - e. Remove temporary supports, bracing, or other foreign objects installed to prevent damage during shipment, storage, and erection.
 - f. Check rotating machinery for correct direction of rotation and for freedom of moving parts before connecting driver.
 - g. Perform cold alignment and hot alignment to manufacturer's tolerances.
 - h. Adjust V-belt tension and variable pitch sheaves.
 - i. Inspect hand and motorized valves for proper adjustment.
 - 1) Tighten packing glands to ensure no leakage but permit valve stems to rotate without galling.
 - 2) Verify valve seats are positioned for proper flow direction.
 - j. Tighten leaking flanges or replace flange gasket.
 - 1) Inspect screwed joints for leakage.
 - k. Install gratings, safety chains, handrails, shaft guards, and sidewalks prior to operational testing.
 - 7. Electrical devices and subsystems Installation Testing: As specified below, in Section 16940, and the technical sections.
 - a. Perform insulation resistance tests on all wiring except wiring and control wiring inside electrical panels.
 - b. Perform grounding resistance tests on grounding systems.
 - c. Test and set relays and circuit breaker trip units for proper operation.
 - 1) Settings as documented in approved electrical studies performed.
 - d. Perform direct current high potential tests on all cables that will operate at more than 2,000 volts.e. Motors:
 - 1) Windings energized to 1,000 volts DC for 1 minute.
 - a) Motor resistance measured at the end of the test and recorded.
 - 2) Check motors for actual full load amperage draw and proper rotation.
 - 8. Instrumentation devices and subsystems Installation Testing: As specified below and technical sections.
 - 9. HVAC systems Installation Testing: As specified below, in Section 15950, and technical sections.

- a. Perform testing of heating, ventilating, and air conditioning equipment, balancing of distribution systems, and adjusting of ductwork accessories.
- b. Test hydronic systems, if required by technical specifications.
- E. Functional Testing:
 - 1. Perform subsystem testing according to approved Subsystem Testing Plan.
 - Notify the Construction Manager 5 days prior to when the Work is ready for Functional Testing.
 a. Perform testing in the presence of the Engineer.
 - 3. Determine Functional Testing durations with City's input.
 - a. Durations will vary depending on the availability of water for testing.
 - b. Target minimum Functional Test duration: 8 hours.
 - 1) Identify equipment/system that cannot be tested for a minimum of 8 hours as specified in technical sections.
 - 4. Perform Functional Testing as specified in technical sections.
 - a. Perform Functional Testing in addition to the other tests specified in the technical sections.
 - b. Perform Functional Testing to demonstrate that the component equipment functions as an entire system in accordance with the design requirements.
 - c. Perform Functional Testing to demonstrate that the unit process has operated in a manner necessary to demonstrate equipment/system functions manually in local, manually in remote (or remote manual), and automatically in remote (in remote auto).
 - d. Perform testing with Contractor provided water.
 - e. Repair or replace parts that operate improperly and retest.
 - f. Submit testing results as specified in the technical section to the City and Engineer for approval of Functional Testing results.
 - 5. Provide completed Manufacturer's Certificate of Installation and Functionality Compliance forms for all equipment.
 - a. Manufacturer's Certificate of Installation and Functionality Compliance form is included in this Section.
 - b. Manufacturer's Certificate of Installation and Functionality Compliance certifies the equipment/system meets the following requirements:
 - 1) Is suitable for satisfactory full-time operation under full load conditions.
 - 2) Operates within the allowable limits for vibration and noise.
 - 3) Electrical and instrumentation requirements:
 - a) Electrical equipment, instrumentation, and control panels are properly installed, calibrated, and functioning.
 - b) Electrical Installation Testing is complete and test results have been approved by the Engineer.
 - (1) Noted deficiencies have been corrected.
 - (2) Relays, circuit breakers, and other protective devices are set.
 - c) Control logic for start-up, shutdown, sequencing, interlocks, control, and emergency shutdown have been tested and are properly functioning.
 - d) Motor control is calibrated and tested.
- F. Clean Water Facility Testing:
 - 1. Utilize treated effluent from the existing MWWTP.
 - a. See Section 01510 for requirements.
 - 2. Do not begin Clean Water Facility Testing until Engineer has approved submittals for Functional Testing requirements.
 - 3. Test entire facility with re-circulating water supply at the design flow for the largest single process or system train to ensure proper complete facility (equipment/system) hydraulic performance. Recirculation equipment shall capture flow prior to discharge into the infiltration basins and return it to the headworks. Setup shall be modified by the Contractor as directed by the City as needed to facilitate Process Start-Up. Recirculation equipment shall remain in place through the Process Operational phase.

- 4. Perform testing in the presence of the Engineer unless such presence is expressly waived in writing.
- 5. The purpose of Clean Water Facility Testing is to confirm extended equipment\system operation prior to Process Start-Up.
 - a. Test entire facility continuously for a 7-calendar day period at a minimum. If a problem is encountered, the 7-day period shall restart per 1.07.C.7.g.
 - b. Perform control loop tuning during system testing with water to the extent possible.
- G. Closeout documentation:
 - 1. Submittals:
 - a. Provide records generated during commissioning and process start-up phase of Project.
 - 1) Required documents include but are not limited to:
 - a) Training documentation.
 - b) Manufacturer's Certificate of Source Testing.
 - c) Manufacturer's Certificate of Installation and Functionality Compliance.
 - d) Daily logs of equipment/system testing identifying tests conducted and outcome.
 - e) Test forms and documentation.
 - f) Functional Testing results.
 - g) Logs of time spent by manufacturer's representatives performing services on the job site.
 - h) Equipment lubrication records.
 - i) Electrical phase, voltage, and amperage measurements.
 - j) Insulation resistance measurements.
 - k) Bearing temperature measurements.
 - 2) Data sheets of control loop testing including but not limited to functional checks from field to the SCADA, testing and calibration of instrumentation devices and setpoints. Format: 1 electronic copy and 3 hard copies organized in notebooks.
 - 3) Due date: Within 30 calendar days following completion of activity.
 - Provide Instrumentation and Control Performance Testing and Fine-Tuning reports.
 - 1) Format: 2 electronic copies and 3 hard copies organized in notebooks.
 - 2) Due date: Within 30 calendar days of Instrumentation and Controls Performance Testing and Fine-Tuning completion.

1.06 PROCESS START-UP PHASE

- A. Overview of Process Start-Up Phase:
 - 1. The City will self-perform the Process Start-Up Phase (30 calendar days).
 - 2. The Contractor shall be responsible for providing mechanical, electrical, and integrator support services during the Process Start-Up Phase.
 - 3. The Contractor shall be responsible for repairing any systems, subsystems, or devices that are nonfunctional, nonoperational, or not working as intended during the entire Process Start-Up
- B. Process Start-Up:

b.

- 1. Pre-start-up activities (by the City, unless otherwise specified herein):
 - a. Commissioning Documentation and Data Review.
 - b. Start-Up Go/No-Go Decision Criteria.
 - c. Support the City's Process Start-Up Sequence Review.
 - 1) Coordinate with the City to prepare a process start-up sequence.
 - 2) Include the following:
 - a) Pre-start-up activities.
 - b) Process Start-Up.
 - c) Process Operational Period.
 - d. Final Process Start-Up Forms and Documentations.
 - e. Final Operational Testing Plan.

City of Gonzales

Industrial Wastewater Treatment Facility

Commissioning and Process Start-Up 01756-11

- 2. Control loop tuning (by the Contractor).
 - a. Perform control loop tuning during system testing with water during Clean Water Facility Testing to the extent possible.
 - b. Contractor shall compete control loop tuning with process water during the Process Start-Up phase if tuning could not be accomplished during the Clean Water Facility Testing phase.
- C. Process Operational Period (by the City, unless otherwise specified herein):
 - 1. General:
 - a. Begin Process Operational Period when all Process Start-Up activities have been completed.
 - 1) All systems and sub-systems are operational and treating process flow.
 - 2) All equipment and system performance tests are complete.
 - b. During the Process Operational Period, the new facilities will be operated together, as part of normal day-to-day operation.
 - 2. Prior to beginning the Process Operational Period (by the Contractor):
 - a. Correct any outstanding punch list items that may affect the operation of the new facilities prior to the Process Operational Period.
 - 3. Prove facility operation is in conformance with Contract Document requirements.
 - 4. Contractor shall provide:
 - a. Specified start-up materials and operating supplies.
 - b. Necessary craft or labor assistance, in the event of an emergency equipment failure requiring immediate attention (emergency is defined as a failure of function which precludes the further operation of a critical segment of or the whole of the work) with a response time of not more than 4 hours from the time of notification.
 - c. Manufacturer's authorized representative to supervise placing equipment/systems in operation and provide guidance during Operational Testing per applicable section.
 - d. Necessary manufacturer's representatives and operating supplies for retesting systems that fail to pass the initial Operational Testing due to deficiencies in products of workmanship at no additional cost to the City.
 - 5. Contractor shall cover all operational costs through successful completion of the Operational Period, including electrical, chemical, water, etc.
 - 6. Prior to date of Final Completion, the City's CSC shall oversee Process Operational Period.
 - a. The City's operations personnel will operate the IWTF during the Process Operational Period, including all ancillary and support systems:
 - 1) Influent Pumping System.
 - 2) Headworks.
 - 3) Air Blowers and Blower Building.
 - 4) Treatment Basins.
 - 5) Non-potable water.
 - 6) Potable Water System.
 - 7) Standby Power System.
 - 8) Operation Building.
 - 9) Sewage Lift Station.
 - b. IWTF Turnover to City (by the Contractor):
 - 1) Upon successful completion of the Process Operational Period and Instrumentation and Controls Performance Testing and Fine Tuning, the Contractor shall perform the following:
 - a) Check and fill all operational fluids (i.e. generator fuel, oil lubricants, etc.)
 - b) Clean and/or replace, if needed, all filters (HVAC, Electrical, Blowers, etc.) Replacement of filters will be at the discretion of the Construction Manager.
 - c. Entire system shall continuously meet performance requirements and shall operate without fault, failure, or defect for a continuous period.

- d. Individual equipment/system failures that are corrected within 24 hours and do not prevent the entire project from continuously satisfying the established operational requirements shall not require the consecutive day test to be re-started unless the failure recurs.
- e. Repairs on individual equipment/system with fault, failure, or defects shall be permanent and be coordinated and approved by the associated equipment manufacturer (by the Contractor).
- f. Restart the consecutive test period for any of the following conditions:
 - 1) Any failure of the complete Project construction to meet operational requirements.
 - 2) When malfunctions or deficiencies cause shutdown of the facility or results in failure of the complete Project construction to meet operational requirements.
 - a) Malfunctions or deficiencies that cause a partial shutdown or operation of the facility will be reviewed on a case-by-case basis. For example, if the failed piece of equipment has a redundant stand-by and it is operational this may not require a restart if the system is still operating as designed.
 - 3) Any individual equipment/system failure that meets any of the following conditions:
 - a) Requires more than 24 hours to correct.
 - b) Recurs within the 24-hour correction period requiring further correction.
- g. Immediately correct defects in material, workmanship, or equipment/system which became evident during Operational Testing (by the Contractor).
- h. If water quality samples indicate inadequate treatment, the recirculation system setup during the "Clean Water Testing" shall be used to recirculate flow to the headworks, and City staff shall transition flow at the processing facilities from the IWTF to the municipal WWTP until the issue is resolved and startup can be resumed.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

MANUFACTURER'S CERTIFICATE OF SOURCE TESTING

CITY	EQPT/SYSTEM
PROJECT NAME	EQPT/SYSTEM EQPT TAG NO EOPT SERIAL NO
SPECIFICATION NO.	
SPECIFICATION TITLE	
Comments:	
	formed on the above-referenced equipment/system as defined in the
Contract Documents and results conform to t	he Contract Document requirements. Testing data is attached.
Date of Execution:	, 20
Manufacturer:	
Manufacturar's Authorized Dopresentative N	lana (nuint)
Manufacturer's Authorized Representative N	lame (print):
(Author	rized Signature)
If applicable, Witness Name (print):	
(Witn	ess Signature)
(with	cos orginataroj

MANUFACTURER'S CERTIFICATE OF INSTALLATION AND FUNCTIONALITY COMPLIANCE

CITY
PROJECT NAME
PROJECT NO.
SPECIFICATION NO.
SPECIFICATION TITLE

EQPT/SYSTEM _____ EQPT TAG NO. _____ EQPT SERIAL NO. _____

I hereby certify that the above-referenced equipment/system has been: (Check Applicable)

Installed in accordance with manufacturer's recommendations.
Inspected, checked, and adjusted.
Serviced with proper initial lubricants.
Electrical/Instrumentation and mechanical connections meet quality and safety standards.
All applicable safety equipment has been properly installed.
Functionally tested.
System has been performance tested and meets or exceeds specified performance requirements.
System is ready for Clean Water Testing.

NOTES:

Attach test results with collected data and test report.

Attach written certification report prepared by and signed by the electrical and/or instrumentation subcontractor.

Comments:

I, the undersigned manufacturer's representative, hereby certify that I am (i) a duly authorized representative of the manufacturer, (ii) empowered by the manufacturer to inspect, approve, and operate this equipment/system and (iii) authorized to make recommendations required to assure that the equipment/system furnished by the manufacturer is complete and operational, except as may be otherwise indicated herein. I further certify that all information contained herein is true and accurate.

Date:	, 20	
	-	

Manufacturer: _____

Manufacturer's Authorized Representative Name (print):

By Manufacturer's Authorized Representative:

(Authorized Signature)

COMMISSIONING AND PROCESS START-UP

TRAINING EVALUATION FORM

EQI	UIPMENT/SYSTEM ITEM:						
VEI	NDOR/MANUFACTURER:						
DA	TE: NAME OF RI	NAME OF REPRESENTATIVE:					
1.	Was representative prepared?	Acceptable	Unacceptable	or	N/A		
2.	Was an overview description presented?	Acceptable	Unacceptable	or	N/A		
3.	Was specific detail presented for system components?	Acceptable	Unacceptable	or	N/A		
4.	Were alarm and shutdown conditions clearly presented?	Acceptable	Unacceptable	or	N/A		
5.	Were step-by-step procedures for starting, stopping, and troubleshooting presented?	Acceptable	Unacceptable	or	N/A		
6.	Were routine/preventive maintenance items clearly identified?	Acceptable	Unacceptable	or	N/A		
7.	Was the lubrication schedule (if any) discussed?	Acceptable	Unacceptable	or	N/A		
8.	Was the representative able to answer all questions?	Acceptable	Unacceptable	or	N/A		
9.	Did the representative agree to research and answer unanswered questions?	Acceptable	Unacceptable	or	N/A		
10.	Comments:						
11.	Overall Rating:	Satisfactory	Unsatisfactory				

Notes:

Sessions judged "Unsatisfactory" by a majority of attendees shall be revised and conducted again until a satisfactory rating is achieved.

COMMISSIONING AND PROCESS START-UP ROLES AND RESPONSIBILITIES MATRIX										
NO.	TASK	СІТҮ	CONTRACTOR	СМ	DESIGN CONSULTANT					
Comm	Commissioning Phase									
Source	Testing									
1	Source Testing	Witness	Lead	Support	Witness/ Primary Review					
City Tr	aining									
2	Manufacturer and Vendor Training	Witness	Lead	Secondary Review	Primary Review					
3	Instrument and Control Systems (I&CS) Training	Witness	Lead	Secondary Review	Primary Review					
Installa	tion Testing									
4	Electrical Conductor Testing	No Action	Lead	Witness	Primary Review					
5	Electrical Functional Acceptance Tests	No Action	Lead	Witness	Primary Review					
6	Instrument Field Calibration	Support	Lead	Witness	Primary Review					
7	Fiber Network Installation Testing	Support	Lead	Witness	Primary Review					
8	Loop Testing	Support	Lead	Witness	Primary Review					
9	Pressure Testing	No Action	Lead	Witness	Primary Review					
10	Leak Testing	No Action	Lead	Witness	Primary Review					
11	Holiday Testing	No Action	Lead	Witness	Primary Review					
12	HVAC Testing	No Action	Lead	Witness	Primary Review					
13	Motor Electrical Testing	No Action	Lead	Witness	Primary Review					
Functio	onal Testing									
14	Fiber Network Operational Testing	Secondary Review	Lead	Witness	Primary Review					
15	Preliminary Run Testing Local /Manual Control	Secondary Review	Lead	Witness	Primary Review					
16	I&CS Functional Demonstration Testing	Secondary Review	Lead	Witness	Primary Review					

City of Gonzales Industrial Wastewater Treatment Facility Commissioning and Process Start-Up 01756-17

	COMMISSIONING AND PROCE	SS START-UP ROLF	ES AND RESPONSIB	ILITIES MATI	RIX	
NO.	TASK	TASK CITY CONTRACTOR		СМ	DESIGN CONSULTANT	
	 Local/Auto Control Testing Remote/Manual Contact Testing Alarm Testing Control Loop Testing 					
17	Subsystem Start-Up and Testing	Secondary Review	Lead	Witness	Primary Review	
18	Equipment/System Start-Up and Testing	Secondary Review	Lead	Witness	Primary Review	
19	HVAC Start-Up and Testing	Secondary Review	Lead	Witness	Primary Review	
20	Local Area Network Communications Testing	Secondary Review	Lead	Witness	Primary Review	
21	Manufacturer's Certificate of Installation and Functionality Compliance	Secondary Review	Lead	Witness	Primary Review	
22	Control Systems Testing	Support	Lead	Witness	Support/ Primary Review	
23	Standby Power System	Secondary Review	Lead	Witness	Primary Review	
24	Ancillary System Start-Up and Testing	Secondary Review	Lead	Witness	Primary Review	
Instrun	nentation and Control Performance Testing and Fine Tu	ining				
25	I&CS Performance Testing and Fine Tuning	Support	Lead	Witness	Primary Review	
26	OP BLDG Fire and Security System Testing	Support	Lead	Witness	Primary Review	
Clean V	Water Facility Testing					
27	Test Water Management Plan Finalization	Secondary Review	Lead	Witness	Primary Review	
28	Clean Water Facility Testing	Secondary Review	Lead	Witness	Witness/ Primary Review	
Proces	s Start-Up Phase		1 1			
Pre-Sta	rt-Up Activities					
29	Commissioning Documentation and Data Review	Lead	No Action	Witness	Primary Review	
30	Process Start-Up Plan Finalization	Lead	Support	Witness	Primary Review	

	COMMISSIONING AND PROCESS START-UP ROLES AND RESPONSIBILITIES MATRIX							
NO.		TASK	СІТҮ	CONTRACTOR	СМ	DESIGN CONSULTANT		
31	Start-Up Go/N	No-Go Decision Criteria	Lead	No Action	Witness	Secondary Review		
Facility	Wide Process S	Start-Up		· · · ·				
32	Process Start-	Up	Lead	Support	Witness	Support/ Primary Review		
33	Control Loop	Tuning and Optimization	Support	Lead	Witness	Support/ Primary Review		
34	Complete Ren	naining Equipment and System Tests	Secondary Review Lead		Witness	Primary Review		
Process	Operational Pe	riod						
35	Operational T	esting	Lead	Support	Witness	Support/ Primary Review		
36	Final Testing	Reports	Lead	Support	Witness	Primary Review		
37	Water Quality	Testing and Documentation	Lead	Support	Support	Primary Review		
	rt: s: ry Review: ary Review:	Primarily responsible for organization Assist the lead with coordination of ta treatment process. Observe task work Observe and document completion of As necessary to accept task work proc As necessary to observe work product Limited or no involvement.	sk work product or result product or result. task work product or result. luct result.	It and integration of wo	rk product with exis			

END OF SECTION

APPENDIX H – Geotechnical Report

The Geotechnical Investigation – Gonzales Industrial Wastewater Recycling Facility by Pacific Crest Engineering Inc., dated March 2020 can be accessed via this link https://mnsengineers.box.com/s/b4cbrfpeixvthb61ga6g5nnvj0p6xkci

	COD	E COMPLIANCE NOTE	S		LE	GEND ANI		S
1.	COMPLY V	DRAIN AND VENT PIPING MATERIALS WITH SECTIONS 701.0 AND 903.0 OF A PLUMBING CODE.		SYME 			DESCRIPTION WASTE ABOVE GRA	DE (W,
2.		TARY SYSTEM MATERIALS SHALL BE L PPROVED LISTING AGENCY.	ISTED	<u> </u>		SANITARY OR N DOMESTIC COL	WASTE VENT (V) D WATER (CW)	
3.	LESS THA RIM OF TH	IT SHALL RISE VERTICALLY TO A POIN N SIX (6) INCHES ABOVE THE FLOOD HE FIXTURE SERVED BEFORE OFFSETT ALLY OR BEFORE BEING CONNECTED INT.	–LEVEL ING			SHUT-OFF VAL	WATER RETURN (. ,
4. 3	SCHEDULE INSTANTA	HOT WATER HEATERS, PER PLUMBING I IS A LISTED, NON-STORAGE, NEOUS HEATER HAVING AN INSIDE DIA IORE THAN 3 INCHES.		+	P]	STRAINER BACKFLOW PRE	·	
(5.	SEALANTS WATER SH BUILDING	E, FITTINGS, SOLVENT CEMENT, THREA S, SOLDERS, AND FLUX USED IN POTA STEMS INTENDED TO SUPPLY DRINKIN HALL COMPLY WITH NSF 61. MATERIAL WATER PIPING AND BUILDING SUPPLY MPLY WITH THE APPLICABLE STANDA E 604.1.	NG AND		· <i>··/·/</i> ·	REMOVE EXIST PIPE-UP UNLE	CONNECTION (POD) ING PIPING OR EG ESS OTHERWISE NO NLESS OTHERWISE	UIPMEN ⁻ DTED
GF	REENE	BLDG. COMPLIANCE N	OTES	ှ ှ) ;	TOP CONNECTI BOTTOM CONN		
1.	WITH ALL	FIXTURES AND FITTINGS SHALL COMI THE REQUIREMENTS IN SECTION 5.30 CALIFORNIA GREEN BUILDING CODE.		C 3) 	FLOOR CLEANC VALVE AND CA UNION	· · ·	
2.	WATER CL PER FLUS	OSETS SHALL NOT EXCEED 1.28 GALI H.	_ONS			CLEANOUT WAL	L (WCO)	
3.	LAVATORY OF 0.5 GF	′ FAUCET SHALL NOT EXCEED WATER PM.	FLOW			PIPE RISER W,	/ SHUT-OFF VALV	Έ
4.	KITCHEN F 1.8 GPM.	FAUCET SHALL NOT EXCEED WATER F	LOW OF		,+ }──	STOP VALVE CHECK VALVE	(CV)	
5.	WITH DETA INSTRUCTI GUARANTI INSTRUCTI REQUIREM	THE BUILDING OWNER OR REPRESENT/ AILED OPERATING AND MAINTENANCE ONS AND COPIES OF ES/WARRANTIES FOR EACH SYSTEM. ONS SHALL BE CONSISTENT WITH OSI ENTS IN CCR, TITLE 8, SECTION 5142 LATED REGULATIONS.	O&M ⊣A	L L L L L L L L L L L L L L		GAS COCK (GO VENT THROUGI UNION THERMOMETER	& PRESSURE RELIE C) H ROOF (VTR) :R ARRESTOR (WHA UGE (FD) HB)	
No.	DATE	REVISIONS	APPROVED)) SERVICE ALERT	DESIGNED:	PROGR
						CALL: TOLL FREE	TN, SC	SUBMIT
						1-800	DRAWN: S. CHHAT	
3	02-12-25	ADDENDUM 3	DTN		TWO	227-2600 o working days before you dig	CHECKED: T. NGO	TONY N DISCIPL

NPTINATIONAL INATIONAL PICTPITNPTNATIONAL NOT TO SCALEOFNTSNOT TO SCALEDAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ANDPODPOINT OF DISCONNECTDAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ANDPODPOINT OF DISCONNECTELECTRICAL. ANY APPARENT DISCREPANCY SHALL BE BROUGHT T ELECTRICAL. ANY APPARENT DISCREPANCY SHALL BE BROUGHT TO CONSTRUCTION ANY BE ISSUED. ANY WORK PERFORMED IN CONF WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENS SOW SCOPE OF WORKSNSCOPE OF WORKS.SWSCOPE OF WORKS.SWSCOPE OF WORKS.TPTEMPERATURE TOP TYPICALS.TPTRAP PRIMER TWCONSTRUCTION ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK, ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACT AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.WWASTE WCWATER CLOSETKWATER CLOSET6. VERIFICATIONS SHALL BE MADE FROM AVAILABLE SOURCES TO TH		ABBREVIATIONS			GENERA					
	ENT	ABBREV.DESCRABVABOVEADAAMERICAN DISABAFFABOVE FINISHEDAFGABOVE FINISHEDAPACCESS PANELB/GBELOW GRADEB/SBELOW SLABBELBELOW FINISHEDCACOMPRESED AIFCDCONDENSATE DRCONNCONNECT, CONNCONTCONTINUECRCONDENSATE RECWCOLD WATER (PCDIDEIONIZED WATERDNDOWNDRDRAINDSPDRY STANDPIPEDWGDRAWINGELELEVATION(E)EXISTINGFCOFLOOR CLEANOUFDFLOOR DRAINFFEFINISHED FLOORFMFACTORY MUTUAIFTFOOT, FEETFUFIXTURE UNITGALGALLONS PER MGPFGALLONS PER MGPFGALLONS PER MGPFGALLONS PER MGPFGALLONS PER MGPFGALLONS PER MHWHOT WATERHURHEADERHPHORSEPOWERHWHOT WATER RETUHZHERTZICWINDUSTRIAL COLDININCHINTINTEGRALKWKILOWATTLAVLAVATORYMAXMAXIMUMMINMINIMUMMPGMEDIUM PRESSUNONORMALLY CLOSINGNATURAL GAS, LNONORMALLY CLOSING </th <th>RE GAS (5 PSI) ED PRESSURE THREAD ECTION TURN DABLE) R R R ELEVATION CONTABLE CONTABLE R R R C C C C C C C C C C C C C C C C</th> <th> RECO BUILLE REGU REGU REGU CITY 2. ALL 2019 3. THE INCLU PLUM SYSTE 3. THE INCLU PLUM SYSTE 4. ALL 5. IT SH WITH AND 5. IT SH WITH AND </th> <th>NSTRUCT THE BUILDING I DING STANDARDS CODE, T LATIONS. SHOULD ANY CK APPROVED PLANS AND SI WILL COMPLY WITH TITL LATIONS. A CHANGE ORDI IRED WORK SHALL BE SI BEFORE PROCEEDING WIT CONSTRUCTION SHALL BE CALIFORNIA ADMINIST PART 1, TITLE 24, C CALIFORNIA BUILDING PART 2, TITLE 24, C BASED ON THE 2013 CALIFORNIA ELECTRIC PART 3, TITLE 24, C BASED ON THE 2013 CALIFORNIA ELECTRIC PART 4, TITLE 24, C BASED ON THE 2013 CALIFORNIA MECHANI PART 4, TITLE 24, C BASED ON THE 2013 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE CONTRACT DONS THEREOS TO FISE CONTRACTOR SHALL APPLY. IT S OYLE'S RESPONSIBILITY T DONS THEREOF TO BE RE DONED. ALL POSSIBLE C/ RACTOR TAAT DOCUMENT ONSIBLE FOR THE REVIEW INGS PRIOR TO ANY CON ITECTURAL, STRUCTURAL, TRUCTION MAY BE ISSUED THE CONTRACT DOCUMENT MENTS SHALL BE FOR THE REVIEW INGS PRIOR TO ANY CON MENTS SHALL BE FOR THE AT NO EXPENSE TO THE AT NO EXPENSE TO THE AT NO EXPENSE TO THE MENTS SHALL BE CORRECTED BY THE AT NO EXPENSE TO THE INTUCTION INSTALLED IN '' MENTS SHALL BE CORRECTED ON '' MEN</th> <th>S AND SPECIFICATIONS IS TO N ACCORDANCE WITH CALIFORN ITLE 19 & 24, CALIFORNIA CO DNDITIONS DEVELOP NOT COVE PECIFICATIONS WHERE IN THE I E 24, CALIFORNIA CODE OF ER DETAILING AND SPECIFYING JBMITTED TO AND APPROVED B H THE WORK. PERFORMED IN ACCORDANCE RATIVE CODE (CAC) ALFORNIA CODE OF REGULATIONS CODE (CBC) CR 3 INTERNATIONAL BUILDING CODE (AL CODE (CEC) CR 3 UNIFORM MECHANICAL CODE (NE CAL CODE (CCC) CR 3 UNIFORM MECHANICAL CODE (UNC) CR 3 UNIFORM MECHANICAL CODE (UPC) CR 3 UNIFORM PLUMBING CODE (UPC) CR 4 UND FOR PLUMBING CODE (UPC) CONTRACTOR ANY SYSTEMS O MOVED, RELOCATED, REVISED O CMOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O CMOVED, RELOCATED, SALL BE CONTRACTOR SHALL BE ROUGH CONTRACTOR ATH THE CONTRACT CON</th> <th>AL AL AL AL AL AL AL AL AL AL</th>	RE GAS (5 PSI) ED PRESSURE THREAD ECTION TURN DABLE) R R R ELEVATION CONTABLE CONTABLE R R R C C C C C C C C C C C C C C C C	 RECO BUILLE REGU REGU REGU CITY 2. ALL 2019 3. THE INCLU PLUM SYSTE 3. THE INCLU PLUM SYSTE 4. ALL 5. IT SH WITH AND 5. IT SH WITH AND 	NSTRUCT THE BUILDING I DING STANDARDS CODE, T LATIONS. SHOULD ANY CK APPROVED PLANS AND SI WILL COMPLY WITH TITL LATIONS. A CHANGE ORDI IRED WORK SHALL BE SI BEFORE PROCEEDING WIT CONSTRUCTION SHALL BE CALIFORNIA ADMINIST PART 1, TITLE 24, C CALIFORNIA BUILDING PART 2, TITLE 24, C BASED ON THE 2013 CALIFORNIA ELECTRIC PART 3, TITLE 24, C BASED ON THE 2013 CALIFORNIA ELECTRIC PART 4, TITLE 24, C BASED ON THE 2013 CALIFORNIA MECHANI PART 4, TITLE 24, C BASED ON THE 2013 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE COI PART 9, TITLE 24, C BASED ON THE 2018 CALIFORNIA FIRE CONTRACT DONS THEREOS TO FISE CONTRACTOR SHALL APPLY. IT S OYLE'S RESPONSIBILITY T DONS THEREOF TO BE RE DONED. ALL POSSIBLE C/ RACTOR TAAT DOCUMENT ONSIBLE FOR THE REVIEW INGS PRIOR TO ANY CON ITECTURAL, STRUCTURAL, TRUCTION MAY BE ISSUED THE CONTRACT DOCUMENT MENTS SHALL BE FOR THE REVIEW INGS PRIOR TO ANY CON MENTS SHALL BE FOR THE AT NO EXPENSE TO THE AT NO EXPENSE TO THE AT NO EXPENSE TO THE MENTS SHALL BE CORRECTED BY THE AT NO EXPENSE TO THE INTUCTION INSTALLED IN '' MENTS SHALL BE CORRECTED ON '' MEN	S AND SPECIFICATIONS IS TO N ACCORDANCE WITH CALIFORN ITLE 19 & 24, CALIFORNIA CO DNDITIONS DEVELOP NOT COVE PECIFICATIONS WHERE IN THE I E 24, CALIFORNIA CODE OF ER DETAILING AND SPECIFYING JBMITTED TO AND APPROVED B H THE WORK. PERFORMED IN ACCORDANCE RATIVE CODE (CAC) ALFORNIA CODE OF REGULATIONS CODE (CBC) CR 3 INTERNATIONAL BUILDING CODE (AL CODE (CEC) CR 3 UNIFORM MECHANICAL CODE (NE CAL CODE (CCC) CR 3 UNIFORM MECHANICAL CODE (UNC) CR 3 UNIFORM MECHANICAL CODE (UPC) CR 3 UNIFORM PLUMBING CODE (UPC) CR 4 UND FOR PLUMBING CODE (UPC) CONTRACTOR ANY SYSTEMS O MOVED, RELOCATED, REVISED O CMOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O MOVED, RELOCATED, REVISED O CMOVED, RELOCATED, SALL BE CONTRACTOR SHALL BE ROUGH CONTRACTOR ATH THE CONTRACT CON	AL AL AL AL AL AL AL AL AL AL			
WCO WHA WTRWALL CLEANOUT WATER HAMMER ARRESTOR WATERCONTRACTOR, SUCH AS BUT NOT LIMITED TO, UTILITY COMPANIES PLANS OF EXISTING BUILDINGS, CONTRACT DOCUMENTS, THE OWNER, SITE INVESTIGATION REPORTS, ETC. IN NO WAY SHALL A DOCUMENTATION RECEIVED BY THE CONTRACTOR RELIEVE HIM OF THE RESPONSIBILITY OF PERFORMING HIS OWN FIELD INVESTIGAT		WCWATER CLOSETWCOWALL CLEANOUTWHAWATER HAMMER		CONT Plan OWNE Docu	RACTOR, SUCH AS BUT N S OF EXISTING BUILDINGS R, SITE INVESTIGATION R IMENTATION RECEIVED BY	NOT LIMITED TO, UTILITY COMPA 5, CONTRACT DOCUMENTS, THE EPORTS, ETC. IN NO WAY SHAL THE CONTRACTOR RELIEVE HIM	NIES, L ANY 1 OF			
GRESS: FINAL SIGNED	GRESS		D SPOFESS/	ICAL			1			
MITTAL DATE: NOVEMBER 2024			ERECTONY TO A	NG 41	LINE IS 2 INCHES	DUDEK				
AT FULL SIZE AT FULL SIZE IF NOT 2" – SCALE ACCORDINGLY 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508	Y NGO	M30	641		AT FULL SIZE	605 Third Street Encinitas, CA 92024				

RAL NOTES

- 7. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND I.C.B.O. REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED BY REASON OF THIS ACCEPTANCE.
- 8. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, MATERIALS, INSTALLATION METHODOLOGY AND NOTES.
- 9. PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM THE SITE, THE CONTRACTOR SHALL CHECK WITH THE CHIEF ENGINEER FOR AN ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR, SUBCONTRACTOR'S, OR ANY OF THEIR EMPLOYEES USE ANY AREA OUT-SIDE THE CONSTRUCTION ZONE WITHOUT PRIOR APPROVAL FROM THE CHIEF FACILITY ENGINEER. ALL STAGING AREAS SHALL BE PROTECTED WITH FIRE RESISTANT PLYWOOD ENCLOSURES. ALL TRASH SHALL BE REMOVED FROM THE BLDG. DAILY. CONSTRUCTION MATERIALS SHALL NOT BE STORED IN THE CORRIDORS AT ANY TIME.
- 10. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, AND POINTS OF CONNECTION PRIOR TO START OF WORK.
- 11. DUCTWORK, PIPING AND EQUIPMENT, AS SHOWN ON DRAWINGS, IS SCHEMATIC AND SHALL BE FABRICATED AND INSTALLED BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES AS REQUIRED.
- 12. CONTRACTOR SHALL PROVIDE WRITTEN REQUESTS TO OWNER FOR SHUT-DOWNS AT LEAST 14 DAYS PRIOR TO EVENT. WORK REQUIRING SHUT-DOWNS MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS.
- 13. THE DESIGN ADEQUACY, SAFETY, AND ERECTION OF BRACING, SHORING, SCAFFOLDING, AND TEMPORARY SUPPORTS AND RESTRAINTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 14. CONTRACTOR SHALL NOTIFY THE OWNER ON TIMES WHEN THE CONSTRUCTION NOISE WILL BE EXCESSIVE. CONTRACTOR SHALL RESCHEDULE SUCH WORK IF SO REQUIRED BY THE FACILITY.
- 15. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 16. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE-OR POSTTENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- 17. ABBREVIATIONS THROUGHOUT THE DOCUMENTS ARE THOSE IN COMMON USE. THE ENGINEER WILL DEFINE THE INTENT OF ANY IN QUESTION.
- 18. ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT SCALE THE DRAWINGS. ITEMS WRONGLY LOCATED BY DRAWING SCALING SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 19. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- 20. SLOPE OF PIPING SYSTEMS:

A. SANITARY SEWER WASTE PIPING2% UNLESS NOTED OTHERWISEB. SANITARY SEWER VENT PIPING2% UNLESS NOTED OTHERWISE

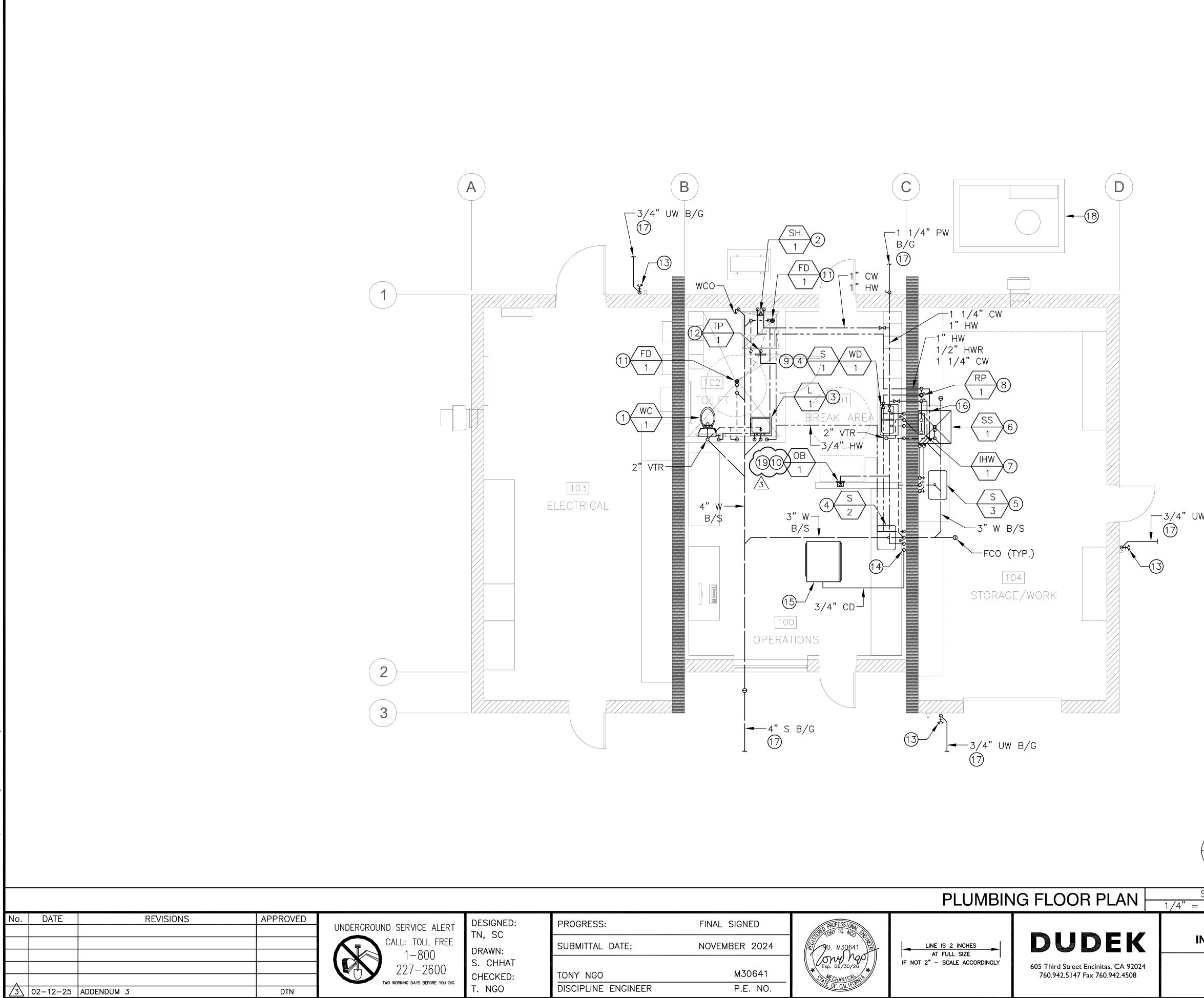
21. ALL PENETRATIONS OF FIRE RATED WALL AND FLOOR ASSEMBLIES SHALL BE PROTECTED AS REQUIRED BY CBC, SEC. 714. SYSTEMS SHALL BE REVIEWED AND APPROVED BY THE INSPECTOR OF RECORD AND FIELD FLSO PRIOR TO INSTALLATION.

CITY OF GONZALES	
INDUSTRIAL WASTE WATER TREATMENT FACILITY	[

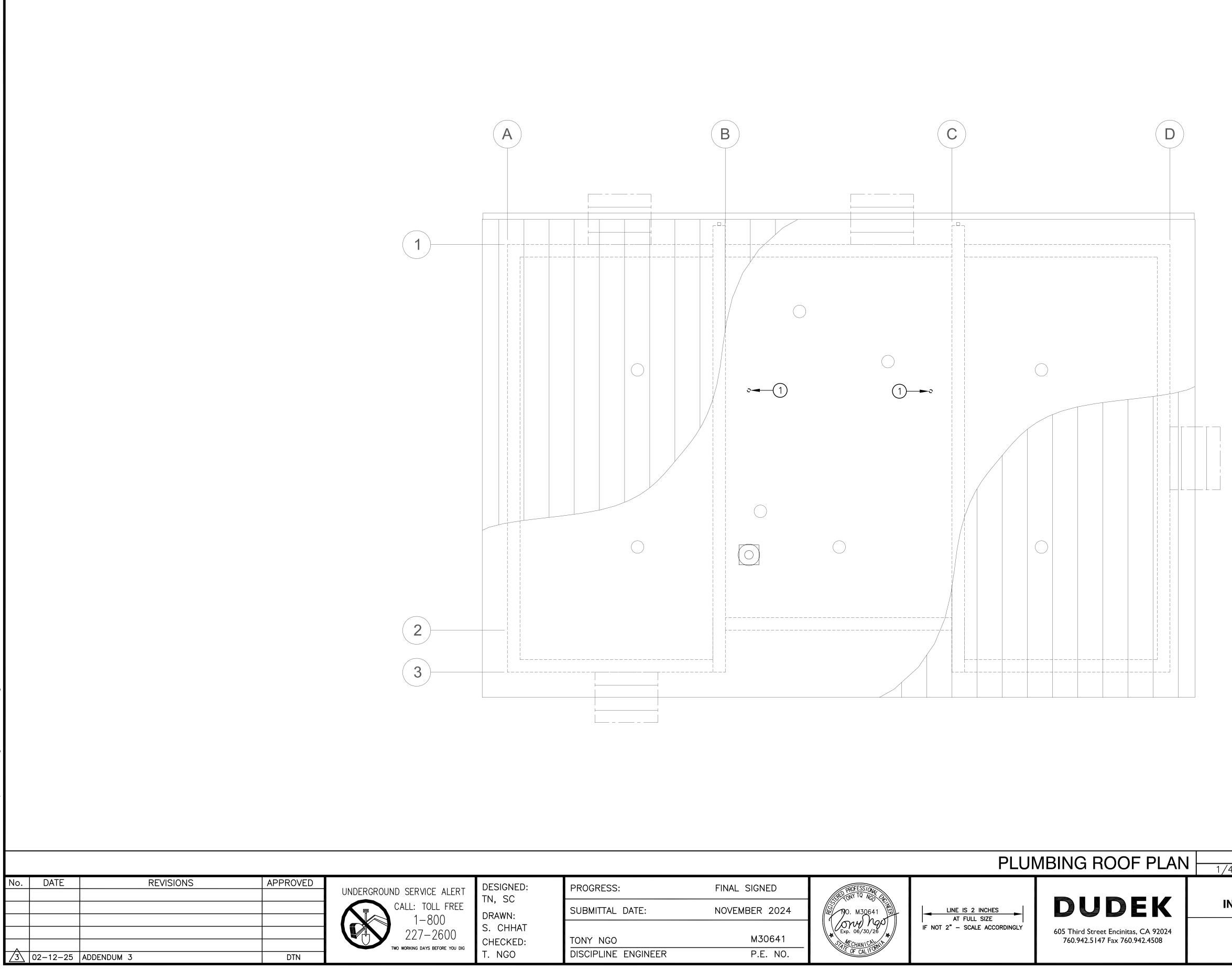
JOB NO. PO# 6761 DRAWING NO. **GP-1**

PLUMBING GENERAL NOTES, LEGEND & SYMBOLS

SHEET NO. **83** of 133



	KEY NOTES	
	1) WATER CLOSET. PROVIDE WITH 3/4" CW, 2" V	AND 4"W.
	2 SHOWER SYSTEM. PROVIDE WITH 3/4" CW AND	3/4"HW.
	WALL-MOUNT LAVATORY. PROVIDE WITH 1/2" (1 1/2" V AND 2" W.	CW, 1/2"HW,
	(4) UNDERMOUNT COUNTER SINK. PROVIDE WITH 1 1/2" HW, 1 1/2" V AND 2" W.	/2"CW,
	5 UNDERMOUNT COUNTER SINK. PROVIDE WITH 3 3/4" HW, 1 1/2" V AND 2" W.	/4" CW,
	6 SERVICE SINK. PROVIDE WITH 3/4" CW, 3/4" V AND 2"W.	HW, 1 1/2"
	(7) INSTANT HOT WATER HEATER. PROVIDE WITH 1' ABOVE SERVICE SINK AT MINIMUM 8'-0" A.F.F. BOTTOM OF HEATER.	
	8 HOT WATER RECIRCULATOR PUMP. INSTALL INLI HOT WATER RETURN PIPE.	NE AT 1/2"
	9 WASTE DISPOSER FOR SINK. PROVIDE WITH WA ABOVE COUNTER.	LL SWITCH
	10 ICE MAKER OUTLET BOX. PROVIDE WITH 1/2" AT WALL AT 18" A.F.F.	CW. INSTALL
	(1) FLOOR DRAIN. PROVIDE WITH 1 1/2" V AND 2	." W.
	12 TRAP PRIMER. PROVIDE WITH 1/2" CW. INSTAL WITH 8"X8" ACCESS PANEL. PRIME FLOOR DRA	
	13 HOSE BIBB AND RACK. PROVIDE WITH 3/4" UN MECH. DWG. SHEET M-9 & GM-3 FOR DETAIL	
	(14) 3/4" CD DOWN IN WALL. DISCHARGE INTO SIN	K TAILPIECE.
	15 FAN COIL UNIT PER HVAC DRAWINGS.	
	(16) ROUTE PIPING HIGH TO AVOID SHELVING. MINIM A.F.F.	1UM 10'
	(17) REFER TO CIVIL DRAWINGS FOR PIPE CONTINUA OUTSIDE OF BUILDING.	ATION
W B/G	(18) POTABLE WATER SYSTEM PER CIVIL DRAWINGS.	\sim
	(19) PROVIDE ASSE 1022 APPROVED VENTED BACKF PREVENTER. INSTALL INLINE AT SUPPLY CW CO ICE MAKER. PROVIDE DRAIN CONNECTION AT VI DRAIN TO P-TRAP OF NEARBY SINK.	NNECTION TO)
	LEGEND	
	REFER TO SHEET GP-1.	
	GENERAL NOTES	
	 DOMESTIC COLD WATER, HOT WATER, VENT AN PIPING SHOWN ON DRAWING IS ABOVE CEILING SPECIFED OTHERWISE. WASTE PIPING IS BELOV (B/S) OR BELOW GRADE (B/G) AS NOTED. 	G UNLESS
	2. CONTRACTOR SHALL BE RESPONSIBLE FOR CU PATCHING OF WALLS, ROOFS, FOOTING AND FI INCLUDING SAW CUTTING AND CORE DRILLING.	
N	3. CONTRACTOR SHALL BE RESPONSIBLE FOR TR EXCAVATING TO PROVIDE NEW BELOW GROUND BACKFILL.	
	4. REFER TO SHEET P-5 FOR PIPING RISER DIA SIZING AND LAYOUT OF DOMESTIC WATER, VEN WASTE PIPING.	
SCALE 1	5. REFER TO DETAIL 3 ON STRUCTURAL DRAWING GS-12 FOR SUSPENDED PIPING SUPPORT DE	
	CITY OF GONZALES WASTE WATER TREATMENT FACILITY	JOB NO. PO# 6761
		drawing no. P-1
	PLUMBING FLOOR PLAN	SHEET NO. 84 of 133



		KEY NOTES		· · · · · · · · · · · · · · · · · · ·
	1 2" V THRU ROOF. FROM ROOF	TERMINATE VENT	STACK	MINIMUM 6"
		LEGEND		
	REFER TO SHEET GP-			
	KEIEK TO SHEET OF	1.		
	1. CONTRACTOR SHA AND PATCHING OF			≺ CUITING
N				
$\frac{\text{SCALE}}{4" - 1' - 0"} 1$				
4" = 1'-0"	CITY OF GONZALES			JOB NO.
NDUSTRIAL WA	STE WATER TREATM	MENT FACILITY		PO# 6761 DRAWING NO.
	PLUMBING			P-2 SHEET NO.
	ROOF PLAN			85 of 133

	VALVE SCH
SIZE (IN)	DESCRIPTI
1/2	NIBCO BRONZE BALL VALVE,
3/4	FREE, TWO-PIECE BODY, FU STEM, SOLDER ENDS, 600 F
1	PRESSURE.
1-1/4	

PLUMBING MAT	ERIAL SCHEDULE		PLUMBING FIXTURES SCHEDULE								
	E AND DOWNSTREAM OF BUILDING H WROUGHT COPPER FITTINGS AND	MARK	FIXTURE		ROUGH—IN	[1	MININ BRAN SIZ	NCH ZE	DESCRIPTION/REMARKS	
"NO-LEAD" SOLDER. ABOVE (WROUGHT COPPER FITTINGS /	GRADE, TYPE "L" COPPER WITH AND "NO—LEAD" SOLDER.	/wc	WATER CLOSET	S/W	V	CW	HW	CW	HW	KOHLER HIGHLINE WATER CLOSET, MODEL K-3519, TWO-PIECE TOILET BOWL AND TANK VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL. 1.0 GPF AND ADA COMPLIANT.	
B. ALL HOT WATER AND HOT WA INSULATED WITH INSULATION A INSULATION SCHEDULE ON TH	AS NOTED PER PLUMBING		(ADA)	4"	2"	1/2"	_	3/4"	_	PROVIDE WITH PROFLO TOILET SEAT, MODEL PFTSCOF2000WH, OPEN FRONT LESS COVE ELONGATED.	
C. SEWER AND VENT PIPE – BE SERVICE WEIGHT (HUB LESS) STAINLESS STEEL STRAP FITT OUTSIDE OF BUILDING SCHED	CAST IRON SOIL PIPE AND	$\left \begin{array}{c} L \\ 1 \end{array} \right $	LAVATORY (ADA)	2"	1 1/2"	1/2"	1/2"	1/2"	1/2"	KOHLER GREENWICH SINK, MODEL K-2032, VITREOUS CHINA, WALL-MOUNTED AND ADA COMPLIANT. PROVIDE WITH KOHLER CENTERSET FAUCET, MODEL K-400T20-4ANL, MANU LEVER HANDLES, DECK MOUNT, 4" CENTER, 0.5 GPM AND ADA COMPLIANT. PROVIDE W ZURN CARRIER, MODEL Z1224. PROVIDE WITH STOP VALVES, SUPPLIES, DRAIN FITTING AND P-TRAP. PROVIDE PROTECTIVE COVERS FOR SUPPLIES AND P-TRAP FITTING.	
D. CONDENSATE DRAIN – TYPE COPPER FITTINGS AND SOLDE		SH 1	SHOWER SYSTEM (ADA)	_	_	1/2"	1/2"	3/4"	3/4"	SYMMONS SAFETYMIX SHOWER SYSTEM, MODEL 1-117-L5-1.5-X-CHKS. INCLUDES PRESSURE BALANCING MIXING VALVE, LEVER DIVERTER, AND SHOWER HEAD. POLISHED CHROME FINISH. INCLUDE WITH 1.5 GPM FLOW RESTRICTOR, INTEGRAL CHECK STOPS A LESS HAND SHOWER SYSTEM OPTION. PROVIDE WITH HAND SHOWER SYSTEM, MODEL T736-1.5. INCLUDES ADA HAND SHOWER, 36" SLIDE/GRAB BAR AND 1.5 GPM FLOW RESTRICTOR. POLISHED CHROME FINISH.	
SIZE	CRIPTION/REMARKS	$\left(\begin{array}{c} S\\ 1\end{array}\right)$	SINK (ADA)	2"	1 1/2"	1/2"	1/2"	1/2"	1/2"	JUST MANUFACTURING SINK, MODEL UDADA1832A65-J, STAINLESS STEEL, DOUBLE BOW UNDERMOUNT, CENTER REAR DRAIN, 6 3/8" DEEP AND ADA COMPLIANT. PROVIDE WITH JUST MANUFACTURING MANUAL FAUCET, MODEL JV-110-W4, TWO 4" WRISTBLADE HANDLES, DECK MOUNT, 8" CENTER, 1.5 GPM. PROVIDE WITH STOP VALVES, SUPPLIES DRAIN FITTING AND P-TRAP.	
3/4 FREE, TWO-PIECE BODY	ALVE, MODEL S-585-70, LEAD 7, FULL PORT, BLOWOUT-PROOF 300 PSI COLD WORKING	$\left(\begin{array}{c} S\\ 2\end{array}\right)$	SINK (ADA)	2"	1 1/2"	1/2"	1/2"	1/2"	1/2"	JUST MANUFACTURING SINK, MODEL USADA1824A65-J, STAINLESS STEEL, SINGLE BOWI UNDERMOUNT, CENTER REAR DRAIN, 6 3/8" DEEP AND ADA COMPLIANT. PROVIDE WITH CHICAGO FAUCETS MANUAL FAUCET, MODEL W8D-GN2AE35-317AB, GOOSENECK, TWO WRISTBLADE HANDLES, DECK MOUNT, 8" CENTER, 1.5 GPM. PROVIDE WITH STOP VALVE SUPPLIES, DRAIN FITTING AND P-TRAP.	
		$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	SINK (ADA)	2"	1 1/2"	1/2"	1/2"	3/4"	3/4"	JUST MANUFACTURING SINK, MODEL USADA1830A65-J, STAINLESS STEEL, SINGLE BOW UNDERMOUNT, CENTER REAR DRAIN, 6 3/8" DEEP AND ADA COMPLIANT. PROVIDE WITH DELTA PRE-RINSE MANUAL FAUCET, MODEL 55C1213, TWO LEVER BLADE HANDLES, DE MOUNT, 8" CENTER, WALL MOUNT BRACKET AND 1.05 GPM. PROVIDE WITH STOP VALV SUPPLIES, DRAIN FITTING AND P-TRAP. PROVIDE PROTECTIVE COVERS FOR SUPPLIES / P-TRAP FITTING.	
TEMPERATURE CONDUCTIVITY RANGE (F) (IN BTU·IN/H·FT ² ·°F)	(INCLES) THICKNESS MINIMUM	$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	SERVICE SINK	2"	1 1/2"	1/2"	1/2"	3/4"	3/4"	ADVANCE TABCO FABRICATED FLOOR MOP SINK, MODEL 9-OP-44, STAINLESS STEEL, 24"x24"x12" BOWL SIZE, FLOOR MOUNT WITH DRAIN, MODEL K-16. PROVIDE WITH CHICAGO FAUCETS SERVICE SINK FAUCET, MODEL 835-CP, EXPOSED WALL-MOUNT, TOP-MOUNT SUPPLIES, 6" CENTERS, RIGID SPOUT WITH VACUUM BREAKER.	
105-140 0.22-0.28	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		INSTANT HOT WATER HEATER	_	_	3/4"	3/4"	1"	1"	EeMAX PROSERIES XTP ELECTRIC TANKLESS WATER HEATER MODEL #XTP054480. ELECTRICAL POWER: 480/3/60, 54KW AT 65 AMPS PER PHASE, 0.5 GPM TURN ON ACTIVATION, THERMOSTATIC, ADJUSTABLE SET POINT, NPT FITTINGS, 150 PSI MAX. 6.0 AT 61°F RISE.	
* DOMESTIC HOT WATER PIPING IN	2	$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	RECIRCULATOR PUMP	_	_	_	1/2"	_	1/2"	GRUNDFOS UP COMFORT SERIES RECIRCULATOR PUMP, MODEL #UP10-16 A PM B5/L ELECTRICAL POWER: 115V, 6W AT 0.23 AMPS. SIZE AT 1 GPM AND 0.5 FT HEAD. PROVIDE WITH AUTO CONTROL MODE OPERATION.	
REQUIREMENT PER SECTION 609.1 CEC 2019.	1 CPC 2019 AND TABLE 120.3-A	$\left\{ \begin{array}{c} WD \\ 1 \end{array} \right\}$	WASTE DISPOSER	1 1/2"	_	_	_	_	_	INSINKERATOR FOOD WASTE DISPOSER, MODEL BADGER 5, CONTINUOUS FEED WITH 1/ HP MOTOR. ELECTRICAL POWER: 120V/1PH/60 AT 6.3 AMPS. PROVIDE WITH WALL SW	
		FD 1	FLOOR DRAIN	2"	1 1/2"	_	_	_	_	ZURN FLOOR DRAIN, MODEL Z415B, CAST IRON BODY WITH TYPE B FLAT STRAINER.	
		$\left\langle \begin{array}{c} TP \\ 1 \end{array} \right\rangle$	TRAP PRIMER	_	_	1/2"	_	1/2"	_	PRECISION PLUMBING PRODUCTS (PPP) TRAP PRIMER, MODEL PR-500, PRIME-RITE SERIES, AUTOMATIC PRIMER.	
			ICE MAKER OUTLET BOX	_	_	1/2"	_	1/2"	_	OATLEY METAL ICE MAKER OUTLET BOX, MODEL 39140, STEEL BOX, 1/4" TURN BALL VALVE, WATER HAMMER ARRESTOR, LOW LEAD.	
		WHA 1	WATER HAMMER ARRESTOR	_	_		_	_	_	ZURN WILKINS WATER HAMMER ARRESTOR, MODEL 1260XL.	
SERVICE ALERT DESIGNED: LL: TOLL FREE TN, SC -	PROGRESS: FINAL SIG	SNED	REL PROFESSIONAL							CITY OF GONZALES	

No.	DATE	REVISIONS	APPROVED	UNDERGROUND SERVICE ALERT	DESIGNED: TN, SC	PRO
				CALL: TOLL FREE	DRAWN:	SUBI
				227-2600	S. CHHAT CHECKED:	TON
				TWO WORKING DAYS BEFORE YOU DIG	T. NGO	
<u>/3</u>	02-12-25	ADDENDUM 3	DTN		1. NGO	DISC

GRESS:	FINAL SIGNED
IITTAL DATE:	NOVEMBER 2024
ŃGO	M30641
IPLINE ENGINEER	P.E. NO.



LINE IS 2 INCHES AT FULL SIZE IF NOT 2" - SCALE ACCORDINGLY



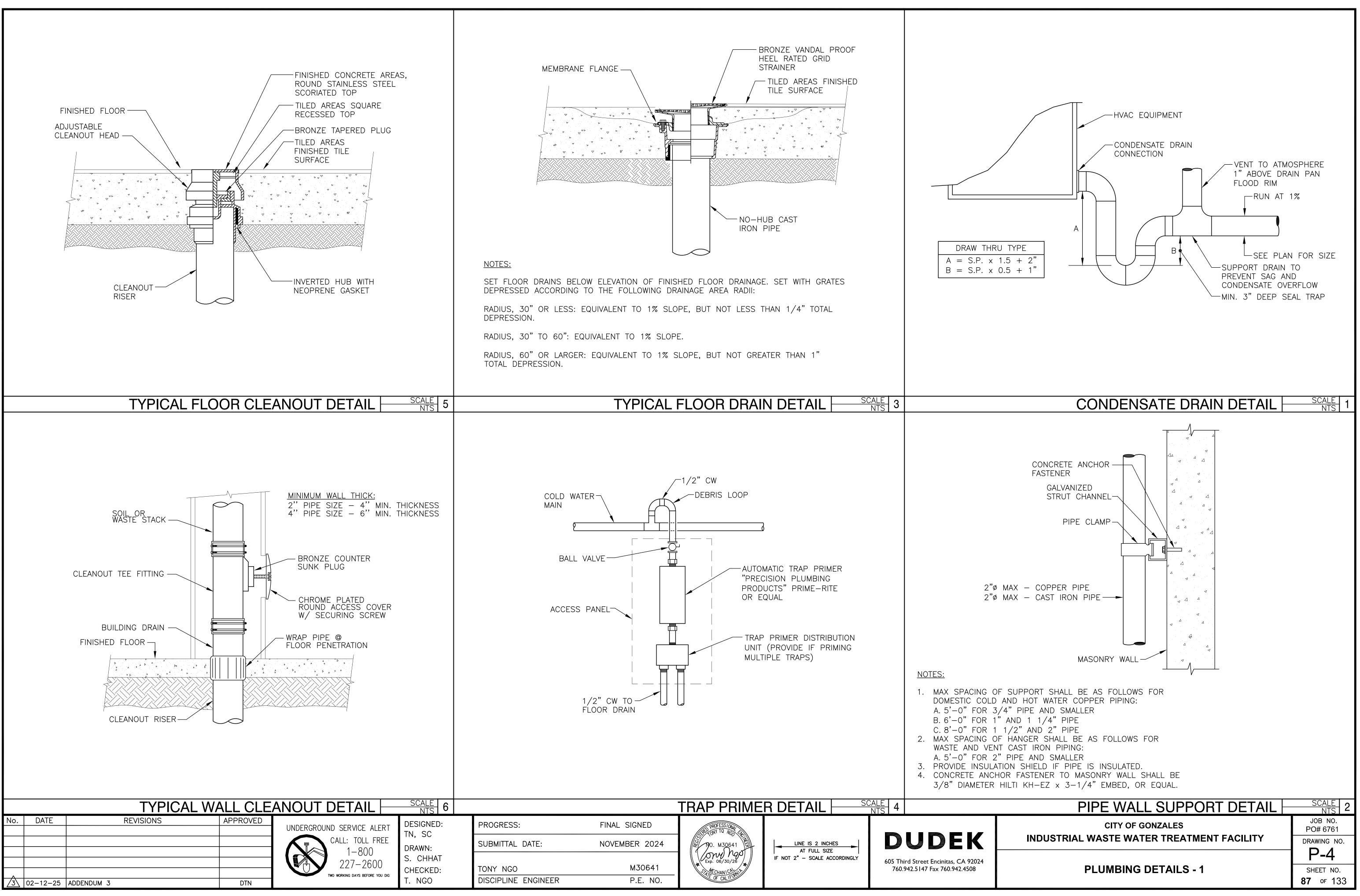
605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508

PLUMBING SCHEDULES

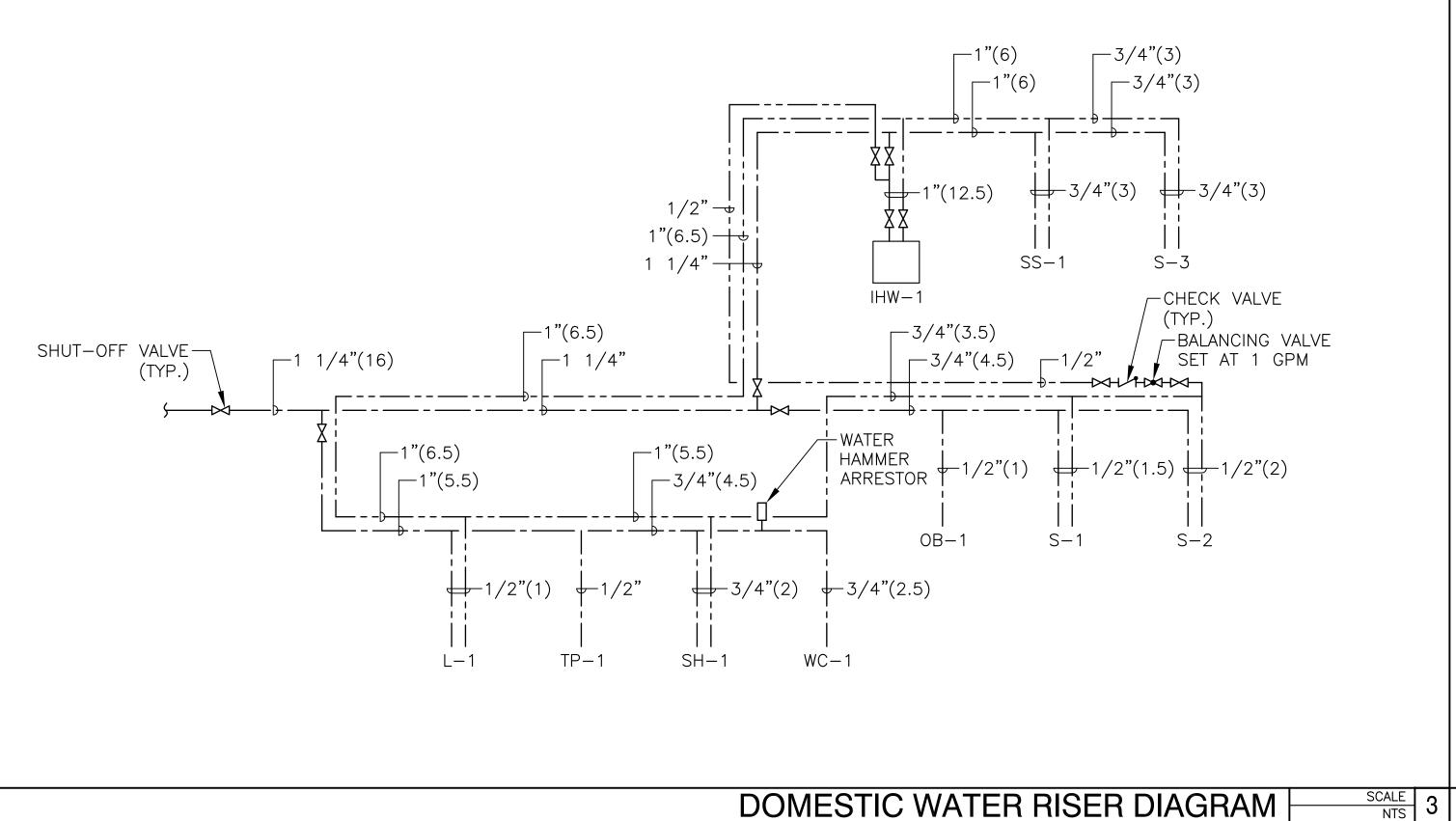
DRAWING NO. **P-**3

SHEET NO.

86 of 133



2020 PRDJECTS\20-MBN-100 Gonzales IVRF Dperation Bldg\MECH\87_P-4.dwg 02/12/2025 08



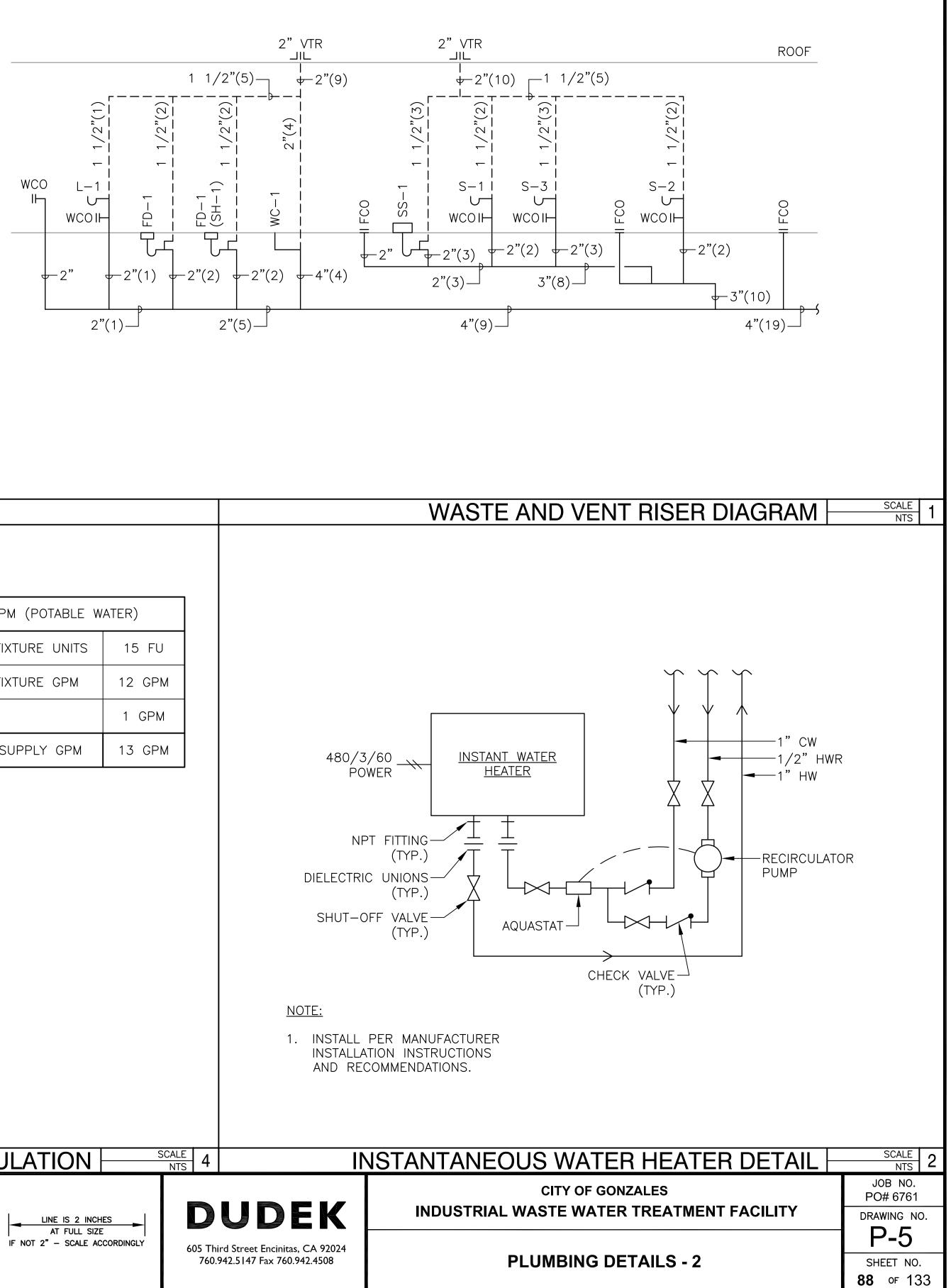
DOMESTIC WATER RISER DIAGRAM

WATE	R DEMAN	D CALC	ULATIO	N (UW)
MARK	FIXTURE/ EQUIPMENT	FIXTURE QUANTITY	FIXTURE UNITS (EACH)	FIXTURE UNITS (TOTAL)
HB 1	HOSE BIBB	3	2.5 (1)	3.5

WATER SUPPLY GPM (UNTREATED	WATER)
TOTAL WATER SUPPLY FIXTURE UNITS	3.5 FU
TOTAL WATER SUPPLY FIXTURE GPM	3.5 GPM
TOTAL EQUIPMENT GPM	0 GPM
TOTAL OVERALL WATER SUPPLY GPM	3.5 GPM

WATI	ER DEMAN	D CALC	ULATIC	DN (POT	ABLE)
MARK	FIXTURE/ EQUIPMENT	FIXTURE QUANTITY	FIXTURE UNITS (EACH)	FIXTURE UNITS (TOTAL)	EQUIPMENT GPM
$\left\langle \begin{array}{c} S \\ 1 \end{array} \right\rangle$	SINK	1	1.5	1.5	_
$\left\langle \begin{array}{c} S \\ 2 \end{array} \right\rangle$	SINK	1	2	2	_
$\left(\begin{array}{c} S\\ \hline 3\end{array}\right)$	SINK	1	3	3	_
$\left\langle \begin{array}{c} SS \\ 1 \end{array} \right\rangle$	SINK	1	3	3	_
$\langle WC \\ 1 \rangle$	WATER CLOSET (TANK TYPE)	1	2.5	2.5	_
$\begin{pmatrix} L \\ 1 \end{pmatrix}$	LAVATORY	1	1	1	_
SH 1	SHOWER SYSTEM	1	2	2	_
_	ICE MAKER	1	—	_	1 GPM

				WATER DE	MAND CALC		SCALE 4	NSTAN
No. DATE REVISIONS APPROVED			PROGRESS:	FINAL SIGNED	ROFESSIONAL SEC			
	CALL: TOLL FREE	I, SC RAWN:	SUBMITTAL DATE:	NOVEMBER 2024	NO. M30641	AT FULL SIZE	DUDEK	IN
	227-2600 сне	CHHAT HECKED:	TONY NGO	M30641	Exp. 06/30/26	IF NOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508	
3 02-12-25 ADDENDUM 3 DTN	TWO WORKING DAYS BEFORE YOU DIG	NGO	DISCIPLINE ENGINEER	P.E. NO.	STATE OF CALIFORNIT			



WATER SUPPLY GPM (POTABLE W	ATER)
TOTAL WATER SUPPLY FIXTURE UNITS	15 FU
TOTAL WATER SUPPLY FIXTURE GPM	12 GPM
TOTAL EQUIPMENT GPM	1 GPM
TOTAL OVERALL WATER SUPPLY GPM	13 GPM

					LEGEND AND SYMBOLS								
	SYMBOL		DESCRIPTION		SYN	MBOL	DESCRIF	PTION	ABBR				
			DESCRIPTION SINGLE LINE DUCTWORK, NEW SINGLE LINE DUCTWORK, EXISTINA DUCTWORK TO BE REMOVED DUCTWORK WITH ACOUSTIC LININA DUCT UNDER POSITIVE PRESSUR (SUPPLY AIR UP AND DOWN) DUCT UNDER NEGATIVE PRESSUR (RETURN AIR UP AND DOWN) DUCT UNDER NEGATIVE PRESSUR (EXHAUST AIR UP AND DOWN) FLEXIBLE DUCT DUCT FLEXIBLE CONNECTION RECTANGULAR VERTICAL DUCT DROP ROUND VERTICAL DUCT DROP ROUND VERTICAL DUCT RISE VOLUME DAMPER IN DUCT BACKDRAFT DAMPER IN DUCT AUTOMATIC DAMPER IN DUCT FIRE DAMPER IN DUCT AUTOMATIC DAMPER IN DUCT FIRE DAMPER IN DUCT COMBINATION FIRE AND SMOKE DAMPER IN DUCT CEILING DIFFUSER THROW PATTERN 4–WAY RETURN REGISTER EXHAUST REGISTER WALL LOUVER THERMOSTAT SWITCH CEILING DIFFUSER THERMOSTAT SWITCH CEILING DIFFUSER THERMOSTAT SWITCH CEIL	G E E E ROP			DESCRIF EQUIPMENT TAG, DI MARK NUMBER 23 CEILING DIFFUSER/RE 150 CFM AND 8" x CENTER LINE DIAMETER SQUARE FEET LOUVER IN DOOR, SQUARE FOOT FREE POINT OF DISCONN POINT OF CONNECT NEW PIPE WITH DIF EXISTING PIPING REMOVE EXISTING F EXPANSION LOOP PIPE ANCHOR SHUT-OFF VALVE GLOBE VALVE GLOBE VALVE GLOBE VALVE COCK VALVE GLOBE VALVE BALANCING VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE DRAIN VALVE CHECK VALVE, SWIN BUTTERFLY VALVE BALL VALVE BALL VALVE CHECK USALVE PLUG VALVE (TYPE PRESSURE REDUCIN TWO-WAY AUTOMATIC THREE-WAY AUTOMATIC SOLENOID VALVE ELECTRIC MOTORIZED PNEUMATIC VALVE SAFETY VALVE MANUAL AIR VENT TEST PLUG THERMOMETER AND PRESSURE GAUGE DETAIL DESIGNATION COMMUNICATION CA THERMOSTAT CONTR	ESCRIPTION EF, GISTER TYPE "A", 8" NECK SIZE MINIMUM 1.0 ECT TION RECTION OF FLOW PIPING NG OR LIFT AS NOTED) NG VALVE CONTROL VALVE CONTROL VALVE CONTROL VALVE VALVE OPERATOR OPERATOR OPERATOR	ABB AFHUBCH STUDIE ABB AAABB B B C C C C C C C D D D D D D D E A E E E E E E E E E E E				
No.	DATE		REVISIONS	APPf	ROVED	UNDERG	ROUND SERVICE ALERT CALL: TOLL FREE 1-800 227-2600	DESIGNED: TN, SC DRAWN: S. CHHAT	PROG SUBM				
3	02-12-25	ADDI	ENDUM 3		DTN		227 - 2600 two working days before you dig	CHECKED: T. NGO					

					GENE	RAL
REV.	DESCRIPTION ABOVE FINIHSED FLOOR AIR HANDLING UNIT AMBIENT ARCHITECTURAL BRAKE HORSEPOWER BRITISH THERMAL UNIT BTU PER HOUR CUBIC FEET PER MINUTE		THE BUILDING CODE, TITLE 19 CONDITIONS DE SPECIFICATIONS 24, CALIFORNIA AND SPECIFYIN APPROVED BY	IN ACCORDANCE WITH CAL 9 & 24, CALIFORNIA CODE EVELOP NOT COVERED BY 5 WHERE IN THE FINISHED A CODE OF REGULATIONS.		Ý
ID IN IT	CEILING CONDENSATE CONNECTION CONTINUATION CONDENSING UNIT		2019 CAL PAF 2019 CAL	LIFORNIA ADMINISTRATIVE C RT 1, TITLE 24, CALIFORNI. LIFORNIA BUILDING CODE (ODE (CAC) A CODE OF REGULATIONS (CCR))
1 ; EXA	DRY BULB DIAMETER DOWN DRAWING EXHAUST AIR ENTERING AIR TEMPERATURE		BAS 2019 CAL PAF	LIFORNIA ELECTRICAL CODE RT 3, TITLE 24, CCR	ATIONAL BUILDING CODE (IBC) (CEC) AL ELECTRICAL CODE (NEC)	
C	ENTERING DRY BULB TEMPERATURE EXHAUST FAN ELECTRICAL ENTERING EXHAUST RELIEF VENTILATOR		PAF BAS	LIFORNIA MECHANICAL COD RT 4, TITLE 24, CCR SED ON THE 2018 UNIFOR LIFORNIA PLUMBING CODE	M MECHANICAL CODE (UMC)	
	EXTERNAL STATIC PRESSURE ENTERING WET BULB TEMPERATURE ENTERING WATER TEMPERATURE EXISTING DEGREES FAHRENHEIT		PAF BAS 2019 CAL	RT 5, TITLE 24, CCR	M PLUMBING CODE (UPC)	
1	FAN COIL FIRE DAMPER FULL LOAD AMPERES FEET PER MINUTE FEET GAUGE GALLON GALLONS PER MINUTE HEATING COIL		BAS ALL WORK ANE REQUIREMENTS WHERE CONTRA REGULATION RE WHERE CODE (BE THE CONTR FAMILIAR WITH REQUIRED FOR	SED ON THE 2018 INTERN O MATERIALS SHALL BE IN OF THESE CODES AND AF ACT DOCUMENTS EXCEED A EQUIREMENTS, CONTRACT E CONFLICT, THE MORE STRIF ACTOR'S AND HIS EMPLOY ALL CODES AND ORDINANG THE CONSTRUCTION OF T	FULL ACCORDANCE WITH THE PPLICABLE LOCAL ORDINANCE WITHOUT VIOLATING CODE AND DOCUMENTS TAKE PRECEDENCE. NGENT SHALL APPLY. IT SHALL EE'S RESPONSIBILITY TO BE CES, CITY OR STATE, AS THIS PROJECT. WHERE ANY	
4	HEAD HORSEPOWER HOUR HERTZ INCH OR INCHES KILOWATT LEAVING AIR TEMPERATURE LEAVING DRY BULB TEMPERATURE LEAVING LEAVING WET BULB TEMPERATURE LEAVING WATER TEMPERATURE MAXIMUM THOUSAND BTU PER HOUR	3.	ORDINANCES, A THE CONTRACT INCLUDING BUT ELECTRICAL, EC NECESSARY PR PRIOR TO THE STRUCTURAL, M DRAWINGS FOR RELOCATED, RE EXERCISED BY	ND REGULATIONS, THE MC OR SHALL FIELD VERIFY A OUIPMENT, AND ALL OTHER OVISIONS TO MAINTAIN THE COMMENCEMENT OF DEMC MECHANICAL, PLUMBING, EL ANY SYSTEMS OR PORTIC EVISED OR ABANDONED. AL THE CONTRACTOR TO INSI	JRE, MECHANICAL, PLUMBING, EXISTING SYSTEMS AND MAKE E INTEGRITY OF SAID SYSTEMS	
	NOISE CRITERIA NORMALLY CLOSED NATURAL GAS NUMBER NOT TO SCALE OUTSIDE AIR PRESSURE DROP POINT OF CONNECTION POINT OF DISCONNECT POUNDS PER SQUARE INCH RETURN AIR		THE CONTRACT FOR THE REVIE CONSTRUCTION PLUMBING, AND BROUGHT TO T CONSTRUCTION PERFORMED IN CODE REQUIRE	DOCUMENTS. THE CONTRA W AND COORDINATION OF INCLUDING ARCHITECTURA DELECTRICAL. ANY APPARE THE CONTRACTING OFFICER SO A CLARIFICATION MAY CONFLICT WITH THE CONT MENT SHALL BE CORRECTE		5
RIG	REFRIGERANT RETURN FAN ROOM REVOLUTIONS PER MINUTE SUPPLY AIR SUPPLY FAN SHUT-OFF VALVE STATIC PRESSURE		THE CONTRACT MECHANICAL, P DISCREPANCIES TO THE ENGINE WITH THE WOR CONTRACT DOC	DOCUMENTS BEFORE THE PLUMBING, ELECTRICAL OR WITHIN THE CONTRACT DO EER'S ATTENTION FOR CLA K. ANY CONSTRUCTION IN CUMENTS SHALL BE CORRE	E CONTRACTOR TO CHECK WITH INSTALLATION OF ANY SYSTEMS CONSTRUCTION. ANY OCUMENTS SHALL BE BROUGHT RIFICATION BEFORE COMMENCING ISTALLED IN CONFLICT WITH THE COTED BY THE CONTRACTOR AT E TO THE OWNER OR ARCHITEC	
FT. P	SQUARE FOOT TEMPERATURE TYPICAL VOLTS VOLUME DAMPER		CONTRACTOR, S OF EXISTING B INVESTIGATION RECEIVED BY T	SUCH AS BUT NOT LIMITED UILDINGS, CONTRACT DOCU REPORTS, ETC. IN NO WAY	AILABLE SOURCES TO THE TO, UTILITY COMPANIES, PLANS JMENTS, THE OWNER, SITE SHALL ANY DOCUMENTATION HIM OF THE RESPONSIBILITY OF ON.	2
GRES			ED PROFESSIONAL ONY TO AGO SE		DUDEK	
Y NG	DATE: NOVEMBER 2024 M30641 E ENGINEER P.E. NO.	A REC	DO. M30641 Exp. 06/30/26	LINE IS 2 INCHES AT FULL SIZE IF NOT 2" - SCALE ACCORDINGLY	DODEN 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508	

L NOTES

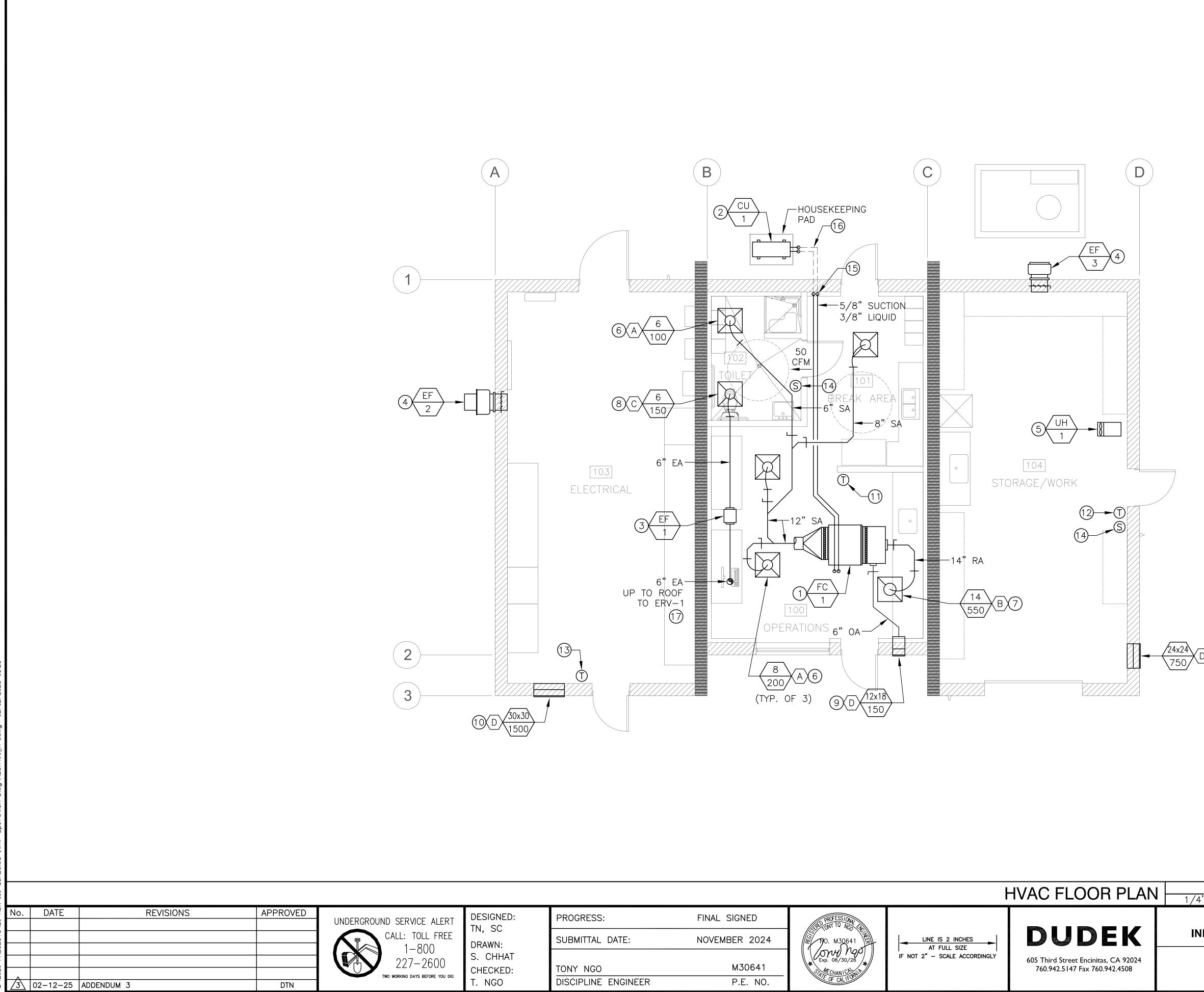
- 7. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND I.C.B.O. REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED BY REASON OF THIS ACCEPTANCE.
- 8. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, MATERIALS, INSTALLATION METHODOLOGY & NOTES.
- 9. PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM THE SITE, THE CONTRACTOR SHALL CHECK WITH THE CHIEF FACILITY ENGINEER FOR AN ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR, SUBCONTRACTOR'S, OR ANY OF THEIR EMPLOYEES USE ANY AREA OUT-SIDE THE CONSTRUCTION ZONE WITHOUT PRIOR APPROVAL FROM THE CHIEF FACILITY ENGINEER. ALL TRASH SHALL BE REMOVED FROM THE BUILDING DAILY. CONSTRUCTION MATERIALS SHALL NOT BE STORED IN THE CORRIDORS AT ANY TIME.
- 10. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, AND POINTS OF CONNECTION PRIOR TO START OF WORK.
- 11. DUCTWORK, PIPING AND EQUIPMENT, AS SHOWN ON DRAWINGS, IS DIAGRAMMATICALLY AND SHALL BE FABRICATED AND INSTALLED BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES AS REQUIRED.
- 12. CONTRACTOR SHALL PROVIDE WRITTEN REQUESTS TO CHIEF FACILITY ENGINEER FOR SHUT-DOWNS AT LEAST 14 DAYS PRIOR TO EVENT. WORK REQUIRING SHUT-DOWNS MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS.
- 13. THE DESIGN ADEQUACY, SAFETY, AND ERECTION OF BRACING, SHORING, SCAFFOLDING, AND TEMPORARY SUPPORTS AND RESTRAINTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 14. CONTRACTOR SHALL NOTIFY THE OWNER ON TIMES WHEN THE CONSTRUCTION NOISE WILL BE EXCESSIVE. CONTRACTOR SHALL RESCHEDULE SUCH WORK IF SO REQUIRED BY THE FACILITY.
- 15. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 16. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE-OR POSTTENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- 17. ABBREVIATIONS THROUGHOUT THE DOCUMENTS ARE THOSE IN COMMON USE. THE ENGINEER WILL DEFINE THE INTENT OF ANY IN QUESTION.
- 18. ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT SCALE THE DRAWINGS. ITEMS WRONGLY LOCATED BY DRAWING SCALING SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 19. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- 20. GENERAL CONTRACTOR TO REPLACE DAMAGED CEILING TILES AS NEEDED.
- 21. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

22. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS MUST HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED RATING NOT EXCEEDING 50.

CITY OF GONZALES INDUSTRIAL WASTE WATER TREATMENT FACILITY JOB NO. PO# 6761 DRAWING NO. GH-1 SHEET NO.

89 OF 133

HVAC GENERAL NOTES, LEGEND & SYMBOLS



	KEY NOTES	
	1 FAN COIL UNIT. LOCATE ABOVE CEILING S	PACE.
	2 CONDENSING UNIT. LOCATE OUTSIDE BUILI ON HOUSEKEEPING PAD.	DING. MOUNT
	3 IN-LINE EXHAUST FAN. LOCATE ABOVE CE	EILING SPACE.
	4 WALL-MOUNT EXHAUST FAN. MOUNT AT E WALL OUTSIDE OF BUILDING. LOCATE AT FROM CENTERLINE.	
	5 ELECTRIC UNIT HEATER. MOUNT UNIT AT MAT MINIMUM 10'-0" AFF.	WALL. LOCATE
	6 SUPPLY AIR DIFFUSER. BALANCE TO AIRFL	_OW CFM
	7 RETURN AIR GRILLE. BALANCE TO AIRFLOW LISTED.	V CFM
	8 EXHAUST AIR GRILLE. BALANCE TO AIRFLC LISTED.	W CFM
	9 OUTSIDE AIR LOUVER. LOCATE AT MINIMUM AFF FROM BOTTOM OF LOUVER.	<i>I</i> 12'-0"
	10 MAKE-UP AIR LOUVER. LOCATE AT MINIMU FROM BOTTOM OF LOUVER.	JM 18" AFF
	1) THERMOSTAT FOR FAN COIL. MOUNT AT 4	8" AFF.
	12 THERMOSTAT FOR UNIT HEATER. MOUNT A	T 48" AFF.
	13 THERMOSTAT FOR EXHAUST FAN. MOUNT	AT 48" AFF.
	(14) EXHAUST FAN SWITCH. MOUNT AT 48" AFI	F.
	(15) REFRIGERANT PIPING UP FROM FLOOR SL WALL CAVITY TO CEILING ABOVE.	AB INTO
	16 ROUTE REFRIGERANT PIPING UNDERGROUN OF BUILDING.	ID OUTSIDE
	17 EXHAUST AIR UP THRU ROOF AND CONNE EXHAUST RELIEF VENTILATOR ON ROOF.	ЕСТ ТО
	LEGEND	
	REFER TO SHEET GH-1.	
	GENERAL NOTES	
	1. AIR BALANCE CONTRACTOR TO PERFORM BALANCE WORK TO MEET AIRFLOW CFM SPECIFIED PER THIS SHEET.	
	2. COORDINATE LOCATION OF HVAC EQUIPM DUCTWORK TO AVOID STRUCTURAL TRUS	
	3. COORDINATE ACCESS TO HVAC EQUIPME MAINTENANCE.	
N	4. REFER TO DETAIL 1 & 3 ON STRUCTUR SHEET GS-12 FOR SUSPENDED DUCT A	
	SUPPORT DETAIL.	
SCALE 1		
1/4" = 1'-0"	CITY OF GONZALES	JOB NO.
INDUSTRIAL WA	STE WATER TREATMENT FACILITY	PO# 6761 DRAWING NO.
		H-1
н	VAC FLOOR PLAN	SHEET NO. 90 of 133

	SPLIT SYSTEM HEAT PUMP SCHEDULE																					
INDOOR UNIT NO.	MANUFACTURER AND MODEL NO.	SYSTEM TYPE	CAPACITY (TONS)				HEATING BTU/H	ELECTRI PH HZ	1	0.S.A	OPER. WT. (LBS)	OUTDOOR UNIT NO.		CAPACITY (TONS)	SEER/ EER	V		_ECTRIC Z FLA	AL	REFRIG. TYPE	OPER. WT. (LBS)	REMARKS
FC 1	TOSHIBA CARRIER RAV–SP241BT–UL	CEILING CONCEALED	2	700	0.45	23,600	28,800 20	8 1 60		100	105		TOSHIBA CARRIER RAV–SP240AT2–UL	2	18.2/ 9.6	208	1 6	0 –	24 40	R-410A		FURNISH WITH PROGRAMMABLE WIRED ROOM TEMPERATURE CONTROLLER AND PRE-FILTER. INDOOR FAN COIL UNIT POWERED BY OUTDOOR
																						CONDENSER UNIT.

	ELECTRIC UNIT HEATER SCHEDULE
UNIT ID TAG	DESCRIPTION
	REZNOR CYCLONE UNIT HEATER, MODEL EGEB SIZE 10, 10 KW, 3 625 CFM, 51F TEMPERATURE RISE, 1/33 HP MOTOR, 70 LBS.
/UH	PROVIDE WITH 460/3/60 POWER. 12.05 FLA WITH 40 AMP DISCO
	PROVIDE WITH WALL THERMOSTAT, 24V CONTROL VOLTAGE TRANSFO WALL BRACKET FOR HORIZONTAL DISCHARGE.

EXHAUST AIR RELIEF VENTILATOR UNIT ID DESCRIPTION TAG GREENHECK MODEL GRSR, SIZE 8, SPUN ALUMINUM WITH INTEGRAL BIRDSCREEN AND ERV PREFAB CURB. \ 1 WEIGHT = 7 LBS. **IDENTIFICATION OF EQUIPMENT** HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED WITH PHENOLIC OR EQUIVALENT WEATHER RESISTANT PLACARD. INCLUDE THE FOLLOWING DATA: – UNIT ID TAG - AREA/SPACE SERVED WITHIN BUILDING – ELECTRICAL PANEL NUMBER - BREAKER NUMBER APPLICABLE FOR HEAT PUMP, UNIT HEATER AND EXHUAST FAN EQUIPMENT. SAMPLE PLACARD AS FOLLOWS: EF-2 ELECTRICAL RM 103 PANEL #LP-1 BREAKER #19

No.	DATE	REVISIONS	APPROVED	UNDERGROUND SERVICE ALERT	DESIGNED: TN, SC	PROGRESS:
				CALL: TOLL FREE 1-800	DRAWN:	SUBMITTAL D
				227-2600	S. CHHAT CHECKED:	TONY NGO
3	02-12-25	ADDENDUM 3	DTN	TWO WORKING DAYS BEFORE YOU DIG	T. NGO	DISCIPLINE EI

UNIT ID TAG

1

EF

2

EF 3

						AUC								
MANUFACTURER	ТУРЕ	LOCATION	RATED	E.S.P.	FAN		El	ECTR	RICAL				OPER. WT.	
AND MODEL NO.	TYPE	LUCATION	CFM	(IN.)	RPM	BHP	ΗP	V	PH	Hz	FLA	DRIVE	(LBS.)	REMARKS
GREENHECK SQ-70-VG	CENTRIFUGAL INLINE FAN	ABOVE CEILING	150	0.25	1437	0.02	1/15	115	1	60	_	DIRECT	45	UL/cUL 705 LISTED. PROVIDE WITH VARI-GREEN EC MOTOR, VARI-GREEN DIAL, SWITCH, AND ISOLATOR KIT WITH SUPPORT BRACKET AND ISOLATORS.
GREENHECK CUE-120-VG	UPBLAST CENTRIFUGAL WALL FAN	OUTSIDE BUILDING	1500	0.1	1321	0.18	1/4	115	1	60	3.5	DIRECT	55	UL/cUL 705 LISTED. PROVIDE WITH VARI-GREEN EC MOTOR, VARI-GREEN DIAL, SWITCH, TEMP CONTROLLER, GRAVITY BACKDRAFT DAMPER AND BIRDSCREEN.
GREENHECK CUE-090-VG	UPBLAST CENTRIFUGAL WALL FAN	OUTSIDE BUILDING	700	0.1	1448	0.05	1/10	115	1	60	1.38	DIRECT	40	UL/cUL 705 LISTED. PROVIDE WITH VARI-GREEN EC MOTOR, VARI-GREEN DIAL, SWITCH, GRAVITY BACKDRAFT DAMPER AND BIRDSCREEN.

REGISTER / GRILLE SCHEDULE

					_	_			
UNIT ID TAG	MANUFACTURER AND MODEL NO.	REGISTER/ GRILLE DESCRIPTION	REGISTER/ GRILLE TYPE	MOUNTING SURFACE	FRAME SIZE (IN×IN)	MOUNTING TYPE	NECK SIZE (IN)	MATERIAL	REMARKS
A	PRICE PDMC	CEILING SUPPLY DIFFUSER	PERFORATED FLUSH FACE WITH MODULAR CORE	ACCESSIBLE 24"x24" CEILING TILE	24"x24"	LAY-IN	SEE FLOOR PLAN	STEEL	_
B	PRICE PDR	CEILING RETURN DIFFUSER	PERFORATED FLUSH FACE	ACCESSIBLE 24"x24" CEILING TILE	24"×24"	LAY-IN	SEE FLOOR PLAN	STEEL	_
C	PRICE PDR	CEILING EXHAUST DIFFUSER	PERFORATED FLUSH FACE	ACCESSIBLE 24"x24" CEILING TILE	24"x24"	LAY-IN	SEE FLOOR PLAN	STEEL	_
	GREENHECK ESD-635	WALL LOUVER	STATIONARY LOUVER DRAINABLE BLADE	EXTERIOR CMU WALL	_	_	SEE FLOOR PLAN	ALUMINUM	PROVIDE WITH PERIMETER FLANGE, PERIMETER CLIP ANGLES AND BIRD SCREEN.

		AIR	BALA	ANCE	TAB	LE				
ROOM	ROOM	ROOM AREA	CEILING HEIGHT	ROOM VOLUME	DES	SIGN AIR	QUANT	ITIES (CI	FM)	AIR SUPPLIED
NAME	NUMBER	(SQ.FT.)	(FT.)	(CU.FT.)	SA	RA	EA	TA	OA	BY
OPERATIONS AND BREAK AREA	100 101	399	10'-0"	3990	600	550	_	-50	150	FC-1
TOILET	102	72	10'-0"	720	100	_	150	+50	I	EF-1
ELECTRICAL	103	490	14'-0" (AVG)	6860	_	_	1500	+1500	_	EF-2
STORAGE/WORK	104	490	14'-0" (AVG)	6860	_	_	700	+700	_	EF-3



	LINE I	IS 2	INCHES	
	AT	FULL	SIZE	
IF NOT	2" –	SCAL	E ACCORDING	GLY

ROFESSIONAL SIEL TONY TO NGO	
NO. M30641	U U
STATE OF CALIFORN	

GRESS:	FINAL SIGNED
MITTAL DATE:	NOVEMBER 2024
Y NGO	M30641
IPLINE ENGINEER	P.E. NO.

F

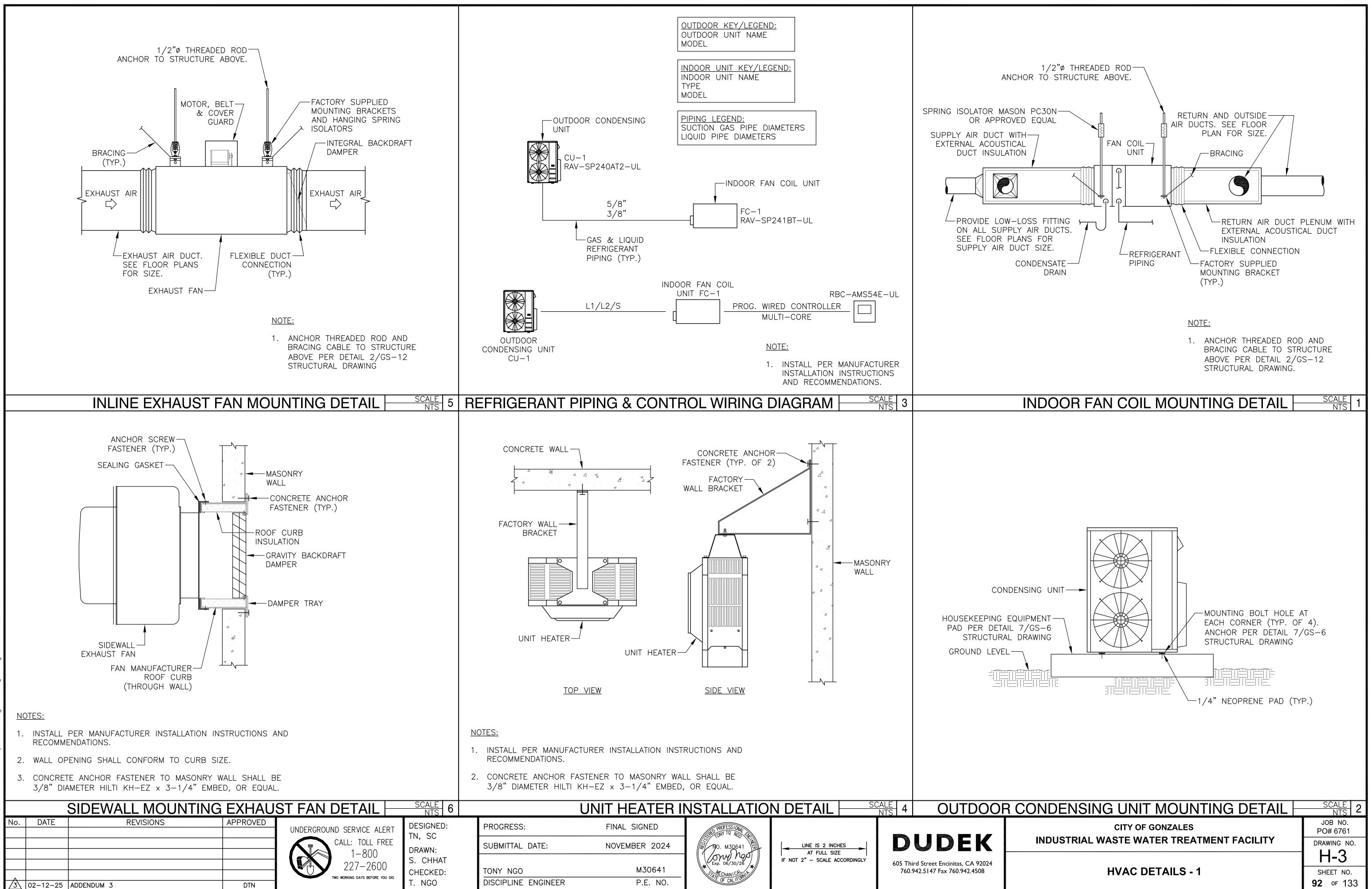
CITY OF GONZALES	
INDUSTRIAL WASTE WATER TREATMENT FACILITY	

JOB NO. PO# 6761

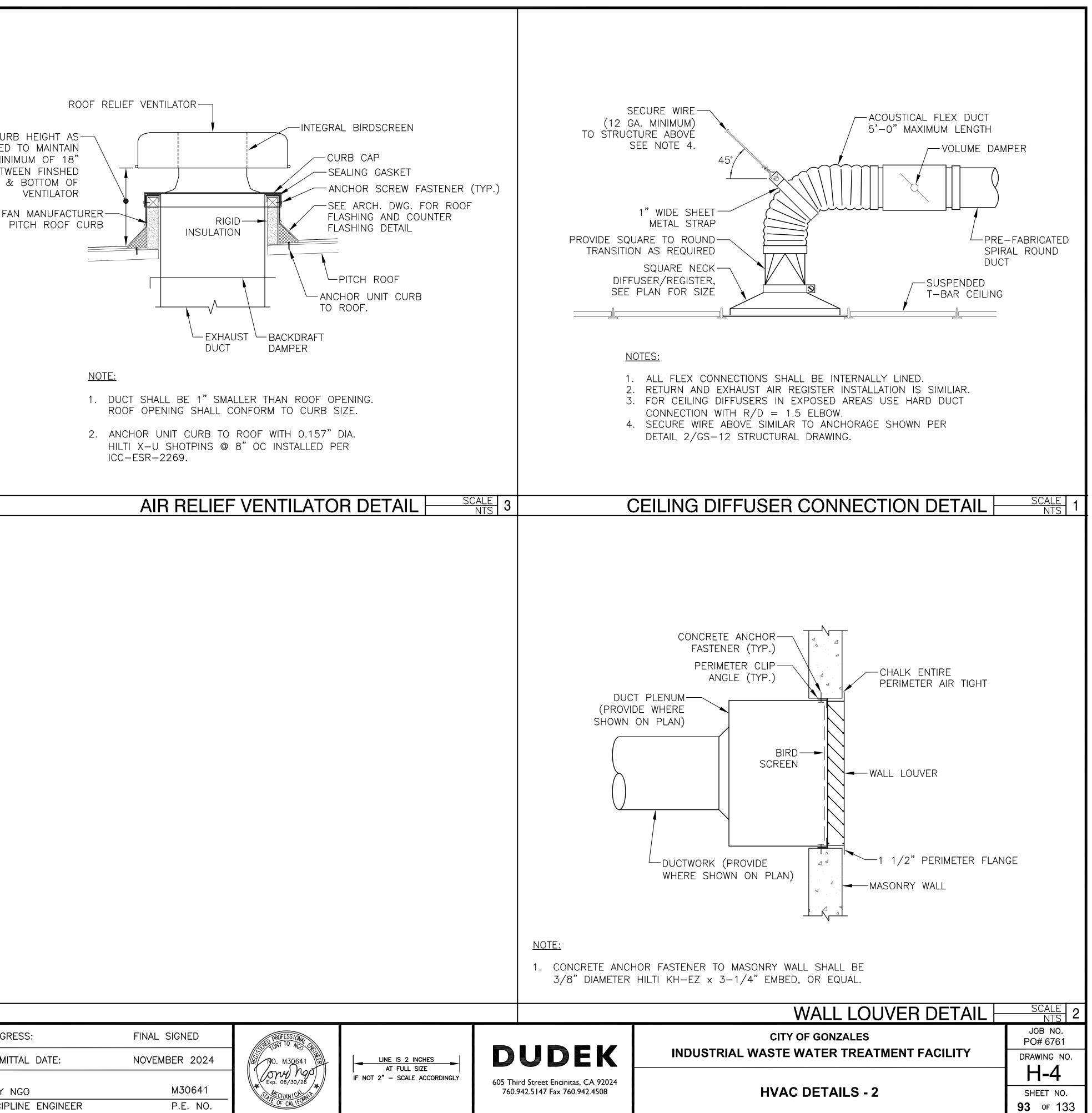
DRAWING NO.

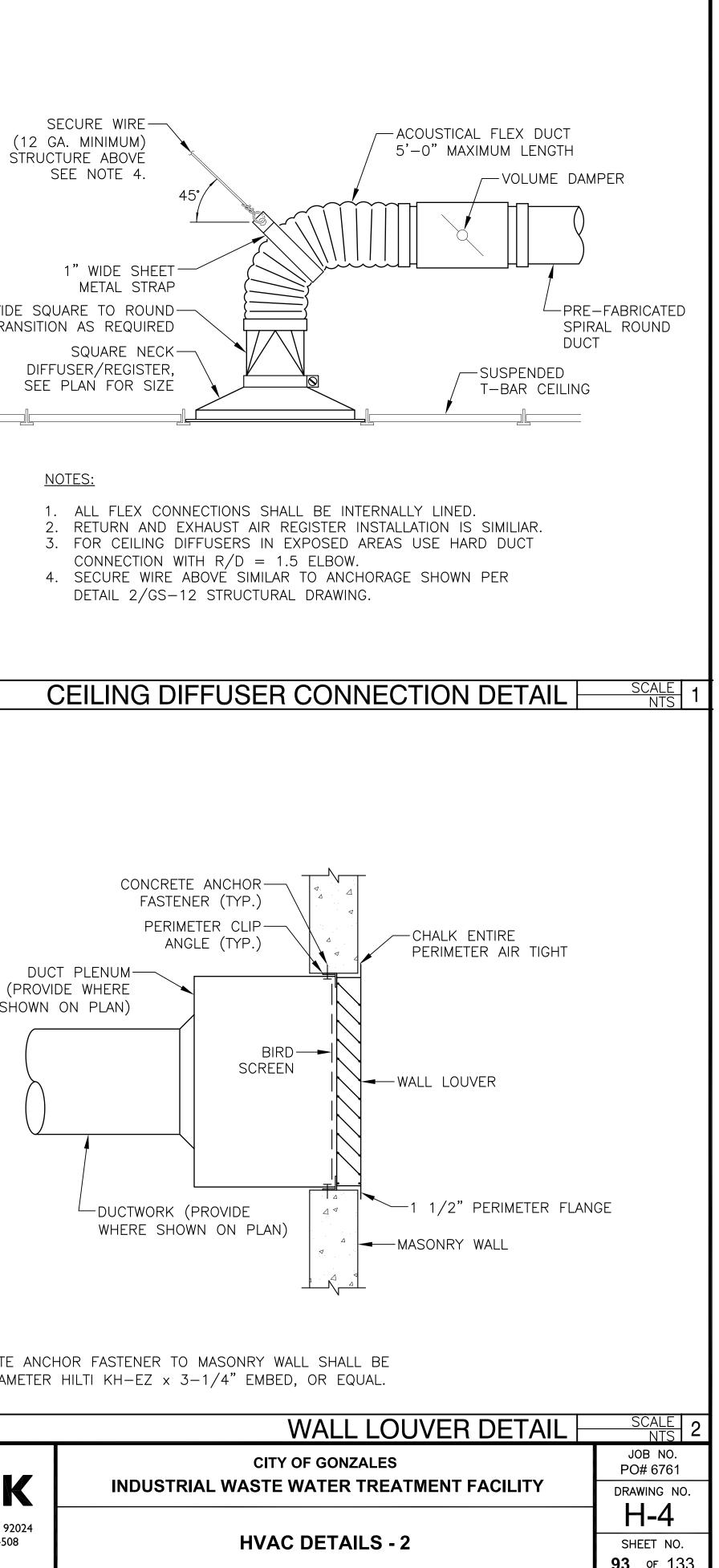
HVAC SCHEDULES

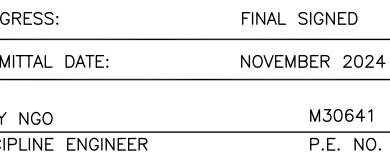
H-2 SHEET NO. **91** of 133



								CU REQUIRE A MI BET ROOF
No.	DATE		REVISIONS	APPROVED			DESIGNED	
		ADDENDUM 3		DTN	UNDERGROU	UND SERVICE ALERT CALL: TOLL FREE 1-800 227-2600 Two working days before you dig	DESIGNED: TN, SC DRAWN: S. CHHAT CHECKED: T. NGO	PROG SUBM TONY DISCI









STAR GRAMMA STAR GRAMAMA	Exponsibility for the following under penaltyme that and contract. Entity the following under penaltyme of the start and the start of the entityme and contract. Entity the following under penaltyme of the entityme	Dis Nonresidential Compliance Image: Compliance	Market Control Market Contro Market Control Market	VSTEMS CALIFORNIA EVERSY COMMIC Seed 0116) Including PLIANCE CALIFORNIA EVERSY COMMIC PLIANCE Including Valer Reclamation Facility Including Valer Reclamation Facility Including CACCEPTANCE FORMS (check box for required compliance documents) Including CACCEPTANCE FORMS (check box for required compliance documents) Including that requires a test, list the equipment description and the sets that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the test stat apply and list all equipment the context the apply and list all equipment the conduct the acceptance test. All equipment of the same type that requires a test, list the equipment description and the test apply and list all equipment the certificate of Acceptance applicable to the portion of the construction or installation for which they are context and is not to be acceptance applicable to the construction or installation for which they are acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the construction or installation for which they are acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the construction or installation for which they are acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the construction or installation for which they are acceptance person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are aconceptance person shanceptance acceptance appl	Requiring rating or Verification May or Verif
State of currents Consultants Consultants Consultants State states Consultants Consultants Consultants State states Consultants Consultants Consultants	OrisiBled DissiBled	Company: Advanced Technologies Consultants, In Signature Date: Address: 5755 Oberlin Dr. Suite 112 CEA/HERS Cert City/State/Zip: San Diego, CA 92121 Phone: (856) RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of Caliform 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept respidentified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and design identified on this Certificate of Compliance conform to the requirements or Regulations. 4. The building design features or system design features identified on this Certificate or provided on other applicable compliance documents, worksheets, calculations, p agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall I building, and made available to the enforcement agency for all applicable inspect Certificate of Compliance is required to be included with the documentation the Responsible Designer Name: Tony Ngo Responsible Designer Name:	n Author Signature: 2/16/2021 tification Identification (if applicable): 8) 658-0304 iia: ponsibility for the building design or system design d manufactured devices for the building design or system of Title 24, Part 1 and Part 6 of the California Code of ate of Compliance are consistent with the information olans and specifications submitted to the enforcement be made available with the building permit(s) issued for the tions. I understand that a completed signed copy of this	 requirements can be grouped together. Provide references to plans (i.e. Drawing Sheet Number paragraphs) where each requirement is specified. Enter The referenced plans and specifications must include al capacity, Title 24 minimum efficiency requirements, and requirements are applicable (e.g. full- and part-load) in Kadj values. For chillers also note whether the efficience Identify if cooling towers have propeller fans. If towers If air-cooled chillers are used, document which exception capacity of the air-cooled chillers in the chilled water planet. 	CALIFORNIA ENERGY COMMISSION NRCC-MCH-02- (Page 2 of 5 Date Prepared: 2/16/2021 Image: Section colspan="2">Contract Documents Image: Section colspan="2">Section colspan="2">Section colspan="2">Contract Documents Image: Section colspan="2">Section colspan="2">Section colspan="2" Image: Section colspan="2" Image: Section colspan="2"<
DATE REVISIONS	APPROVED UNDERGROUND SERVICE ALEF CALL: TOLL FRE 1-800 227-2600 TWO WORKING DAYS BEFORE YOU DTN	E TN, SC DRAWN: S. CHHAT CHECKED: TONY NGO	FINAL SIGNED NOVEMBER 2024 M30641 P.E. NO.		January 201 DUDEK 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508

No.

/3\ |

istalling Contractor: he contractor who ir sponsibility for the	tor: to installed he accepta	the equipment is respor nce testing, each person	stalling Contractor: ne contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has esponsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.	he acceptance test them e Certificate of Acceptan	nselves or have a qualific	d entity run the test for tion of the construction	them. If more than one I or installation for which t	person has they are responsible
nforcement Agency: lancheck – The NRCC spector - Refore occ	ncy: RCC-MCH-(iforcement Agency: ancheck – The NRCC-MCH-01-E compliance docume sciention - Reform occurancy mermit is granted all new	inforcement Agency: ancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Searchy - Before occurancy namily is granted all newly installed process externs much be accepted to answer onersting.	impleted document and ams must he tested to a	is not to be accepted by	r the building departmen	t unless the correct boxe	ss are checked.
Test Description	tion		MCH-13-A	MCH-14-A	MCH-15-A	MCH-16-A	MCH-17-A	MCH-18-A
Equipment equiring Testing or Verification	# of Units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
oshiba Carrier	-	0	0	0	0	0	0	D
			0		0		0	D
		0	0	0	0		0	0
		0		0	0		0	0
		0	0	0	0	0	0	D
		0	0	0			0	
		0	0	0	0		0	0
		0	0	0	0	0	0	D
				0	0		0	D
			0	0	0		0	D

06/14)	
ANCE	CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION
rements	(Page 3 of 3
er Reclamation Facility	Date Prepared: 2/16/2021
R'S DECLARATION STATEMENT	
icate of Compliance documentation is accurat	te and complete.
ny Ngo & Santa Chhat	Documentation Author Signature:
vanced Technologies Consultants, In	Signature Date:
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2/16/2021 CEA/ HERS Certification Identification (if applicable):
55 Oberlin Dr. Suite 112	Phone: (050) 050 0001
n Diego, CA 92121	(858) 658-0304
CLARATION STATEMENT penalty of perjury, under the laws of the Sta	te of California:
ficate of Compliance (responsible designer). Id performance specifications, materials, com	to accept responsibility for the building design or system design aponents, and manufactured devices for the building design or system equirements of Title 24, Part 1 and Part 6 of the California Code of
licable compliance documents, worksheets, c th this building permit application. npleted signed copy of this Certificate of Com ailable to the enforcement agency for all appl	this Certificate of Compliance are consistent with the information alculations, plans and specifications submitted to the enforcement pliance shall be made available with the building permit(s) issued for the icable inspections. I understand that a completed signed copy of this ientation the builder provides to the building owner at occupancy.
ny Ngo	Responsible Designer Signature:
vanced Technologies Consultants, In	Date Signed: 2/16/2021
55 Oberlin Dr. Suite 112	License: M30641
	Phone: 858-658-0304
n Diego, CA 92121	030-030-0304
ency Standards - 2016 Nonresidential Cor	npliance January 201

CENTIFICATE OF CONFLEMINCE										NRCC-MC	NRCC-MCH-01-E
Mechanical Systems	ms										(Page 2 of 4)
Project Name: Industrial Water Reclamation F	ial Wate	r Reclamatio	n Facility					Date Prepared:	Date Prepared: 2/16/2021		
B. MECHANICAL HVAC ACCEPTANCE FORM	HVAC AC	CEPTANCE FO	RMS (check t	ox for require	IS (check box for required compliance documents)	ocuments)					
Test Performed By:	y:										
Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.	cument is ance tests	t to be used by t s that apply and	he designer an list all equipm	d attached to th ent that require	e plans. Listed be s an acceptance t	elow are all the ac est. All equipmen	cceptance tests fo it of the same typ	or HVAC systems. ⁻ e that requires a t	The designer is re est, list the equip	quired to check th oment description	e applicable and the num
Installing Contractor: The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.	or: installed e accepta	the equipment nce testing, ead	is responsible th person shall	to either conduc sign and submit	t the acceptance the Certificate of	test themselves of Acceptance appl	or have a qualifie. icable to the port	d entity run the te ion of the constru	st for them. If mo ction or installati	ore than one perso on for which they	n has are responsit
Enforcement Agency: Plancheck – The NRCC-MCH-O1-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.	ccupancy	01-E compliance	e document is e	not considered a stalled process s	i completed docu ystems must be t	ment and is not t ested to ensure p	o be accepted by roper operations	the building depa	rtment unless th	e correct boxes ar	e checked.
Test Description	uo	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
Toshiba Carrier	1	Ø	2					0		0	
										0	0
								0		0	
										0	0
								0		0	0
					0	0				0	
							0			0	
										0	
					0					0	
								0		_	

	IFICATE OF COMPLIANCE				NRCC-MCH-0
HVAG	C Dry & Wet System Requirements				(Page 2 o
Project N	Name: Industrial Water Reclamation Fa	cility		Date Prepared: 2/16/202	1
B. Ec	uipment Tags and System Description ¹	– Wet Systems			
	IDATORY MEASURES	T-24 Sections	Reference to th	e Requirements in the	Contract Docume
10000	ing Hot Water Equipment Efficiency ³	110.1	nejerence to u		
	ing Chilled and Condenser Water				
	pment Efficiency ³	110.1, 140.4(i)			
	and Closed Circuit Cooling Towers	110 2/0) 1			
cond	uctivity or flow-based controls	110.2(e) 1			
	and Closed Circuit Cooling Towers				
	mum Achievable Cycles of	110.2(e) 2			
	entration (LSI) ⁶				
	and Closed Circuit Cooling Towers	110.2(e) 3			
	Meter with analog output				
	n and Closed Circuit Cooling Towers flow Alarm	110.2(e) 4			
	and Closed Circuit Cooling Towers	242923024 02724			
	ent Drift Eliminators	110.2(e) 5			
	Insulation	120.3			
PRES	CRIPTIVE MEASURES				
	ing Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N	Y/N	Y/N
	ing Tower Flow Controls	140.4(h)3			.,
	rifugal Fan Cooling Towers ⁴	140.4(h)4			
Air-C	ooled Chiller Limitation ⁵	140.4(j)			
Varia	ble Flow System Design	140.4(k)			
	er and Boiler Isolation	140.4(k)			
	and HHW Reset Controls	140.4(k)			
	P Isolation Valves	140.4(k)			
	on CHW, CW & WLHP Pumps >5HP ensor Location	140.4(k)			
Note		140.4(k)			
	Provide equipment tags (e.g. CH 1 to 3)	or system description (e.e	. CHW loop) as a	opropriate. Multiple ur	nits with common
	requirements can be grouped together				
2.	Provide references to plans (i.e. Drawin	g Sheet Numbers) and/or	specifications (in	cluding Section name/r	number and relevar
	paragraphs) where each requirement is				
3.	The referenced plans and specifications		•		중 같은 것 같은 사람들은 것은 것을 같이 같아요.
	capacity, Title 24 minimum efficiency re				
	requirements are applicable (e.g. full- a	집에 가지 않는 것 같은 것 같은 것 같이 가지 않는 것 같은 것 같은 것 같은 것 같이 했다.		ing at non-standard ef	nciencies provide ti
4.	Kadj values. For chillers also note wheth Identify if cooling towers have propelle			ent which excention is	used
	If air-cooled chillers are used, documen		영양 특징 안전 것 그는 가장 안 봐야 한 것이 없다.	온영 물건이 집중 것은 것은 물건이 안 수가가 많은 것이 나라요.	
	capacity of the air-cooled chillers in the	5 C			
	Identify the existence of a completed M		osed circuit coolir	g towers are specified	to be installed,
6.	otherwise enter "N/A".				

OMMISSION NRCC-MCH-01-E (Page 1 of 4)					2011-1-1	tals.	i plans.	ser water	tems. It is			January 2016
CALIFORNIA ENERGY COMMISSION NRCC-MC (Page	Date Prepared: 2/16/2021	المريسية المؤهمة لمزامية	hresidential Manual		all submittals.	2-A to 11-A). Required on plans for all submit 2-A to 18-A). Required on plans where annlied	tals with Central Air Systems. It is optional on	ttals with chilled water, hot water or conden:	Is with multiple zone heating and cooling sys	ble	vhere applicable	
		DRKSHEETS (check box if worksheet is included)	Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual rms to be incorporated onto the building plans.	Title	Certificate of Compliance, Declaration. Required on plans for all submittals.	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals. Certificate of Compliance, Bequired Acceptance Tests (MCH-13-A to 18-A). Bequired on plans where amplicable	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.	Power Consumption of Fans. Required on plans where applicable	Power Consumption of Fans, Declaration. Required on plans where applicable	Compliance
SYSTEMS evised 01/16) MPLIANCE s	Industrial Water Reclamation Facility	A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSH	For detailed instructions on the use of this and all Energy Note: The Enforcement Agency may require all forms to			NRCC-MCH-01-E (Part 2 of 3) C	1 of 2)	NRCC-MCH-02-E (Part 2 of 2) s	NRCC-MCH-03-E	NRCC-MCH-07-E (Part 1 of 2) P	NRCC-MCH-07-E (Part 2 of 2) P	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
MECHANICAL SYSTEN CEC-NRCC-MCH-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Mechanical Systems		ANICAL CO	ied instruct ie Enforcem	NO						•		ing Energy Ef
MECH CEC-NRCC CERTIFIC Mechan	Project Name:	A. MECH	For deta Note: Th	YES				Ð	۵			CA Buildi
STATE OF CAL HVAC DI CEC-NRCC-MC CERTIFICAT HVAC Dry & Project Name: In	RY 8 H-02-E E OF & Wet	(Revise COMP	LIAN m Re	₆₎ CE quii	rem	ents			EME	NT	s	CALIFORNIA ENERGY COMMISSION NRCC-MCH-02-E (Page 1 of 3) Date Prepared: 2/16/2021
A. Equipme								8	Syste	ms		
A. Equipino				-	-							Split DX Unit

VAC Dry & Wet System Requirements pject Name: Industrial Water Reclamation Fac				(Page 1 of 3)
	cility	3	Date Prepared: 2/16/2021	
		·		
. Equipment Tags and System Description ¹	– Dry Systems	Split DX Unit		
IANDATORY MEASURES	T-24 Sections	Reference to the F	Requirements in the (	Contract Documents ²
eating Equipment Efficiency ³	110.1 or 110.2(a)			
ooling Equipment Efficiency ³	110.1 or 110.2(a)		-	
VAC or Heat Pump Thermostats	110.2(b), 110.2(c)			-
urnace Standby Loss Control	110.2(d)			
ow Leakage AHUs	110.2(f)			
entilation ⁴ emand Control Ventilation ⁵	120.1(b)			
ccupant Sensor Ventilation Control ⁶	120.1(c)4 120.1(c)5, 120.2(e)3			-
hutoff and Reset Controls ⁷	120.1(c)3, 120.2(e)3		с	
utdoor Air and Exhaust Damper Control	120.2(t)			
colation Zones	120.2(g)			
utomatic Demand Shed Controls	120.2(h)			
conomizer FDD	120.2(i)			
uct Insulation	120.4			
RESCRIPTIVE MEASURES				.d.
quipment is sized in conformance with	4044.000	Y V/N		
40.4(a & b)	140.4(a & b)	Y Y/N	Y/N	Y/N
upply Fan Pressure Control	140.4(c)			
imultaneous Heat/Cool ⁸	140.4(d)			
conomizer	140.4(e)			
eat and Cool Air Supply Reset	140.4(f)		-	
lectric Resistance Heating ⁹ uct Leakage Sealing and Testing ¹⁰	140.4(g)			
		ollowing information:	equipment tag, equi	ystem. pment nominal
<ul> <li>capacity, Title 24 minimum efficiency requirements are applicable (e.g. full-a equipment is required to be listed per T</li> <li>Identify where the ventilation requirem unit schedules and sequences of operations. Multiple zo</li> <li>If one or more spaces has demand cont the sequence of operation.</li> <li>If one or more space has occupant sens and the sequence of operation.</li> <li>If one or more space has occupant sens and the sequence of operation.</li> <li>If the system is DDC identify the sequer For all systems identify the specification of the zone controls. Provide Enter N/A if there is no electric beating.</li> </ul>	equirements, and actual r nd part-load) include all. Title 20 1601 et seq. Title 20 neor more space one central air systems m rolled ventilation identify or ventilation control ide these for the system start/s n for the thermostats and deadband airflows are so de a MCH-03-E compliant	ated equipment effic Where appliance star each central HVAC s is is naturally ventilat ust also provide a MG where it is specified ntify where it is speci stop, optimal start, so time clocks (if applic cheduled for this syst ce document.	iencies. Where multi indards apply (110.1), ystem. Include refere ted identify where thi CH-03-E compliance d including the sensor ified including the sensor etback (if required) an table). em. Include a referen	pment nominal ple efficiency identify where ences to both central s is documented in document. specifications and nsor specifications and setup (if required). the to the
<ul> <li>requirements are applicable (e.g. full- a equipment is required to be listed per T</li> <li>Identify where the ventilation requirem unit schedules and sequences of operation the plans and specifications. Multiple zets for an expression of the sequence of operation.</li> <li>If one or more space has occupant sense and the sequence of operation</li> <li>If one or more space has occupant sense and the sequence of operation</li> <li>If the system is DDC identify the sequere For all systems identify the specification</li> <li>Identify where the heating, cooling and</li> </ul>	equirements, and actual r nd part-load) include all. Title 20 1601 et seq. Title 20 1601 et seq. Title 20 ne or more space one central air systems m rolled ventilation identify or ventilation control ide the for the system start/s n for the thermostats and deadband airflows are so de a MCH-03-E compliant . If the system has electric	ated equipment effic Where appliance star each central HVAC s is is naturally ventilat ust also provide a MG where it is specified ntify where it is speci stop, optimal start, so time clocks (if applic cheduled for this syst ce document. c heating indicate wh	iencies. Where multij ndards apply (110.1), ystem. Include refere ted identify where thi CH-03-E compliance d including the sensor ified including the sensor etback (if required) an table). em. Include a referen ich exception to 140.	pment nominal ple efficiency identify where ences to both central s is documented in document. specifications and nsor specifications and setup (if required). the to the

INDUSTRIAL WASTE WATER TREATMENT FACILITY

DRAWING NO.

H-5

SHEET NO. **94** of 133

HVAC T-24 FORMS - 1

CERTIFICATE OF COMPLIANCE Required Acceptance Tests	NRCC-MCH-04-E (Page 3 of 3) Date Prepared: 2/16/2021
Required Acceptance Tests	
requirement industrial water reclamation Facility	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
<ol> <li>I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Tomo Noro &amp; Southa Chhat</li> </ol>	Documentation Author Signature:
	T
Advanced Technologies Consultants, In	2/16/2021
Address: 5755 Oberlin Dr. Suite 112	CEA/ HERS Certification identification (if applicable):
City/State/Zip: San Diego, CA 92121	Phone: (858) 658-0304
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
<ol> <li>I certify the following under penalty of perjury, under the laws of the State of Californi</li> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept resp.</li> </ol>	l certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. He information a of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible
	The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
<ol> <li>The building design reatures or system design reatures identified on this Certificate of Compliance are consistent with the information prov worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I will nessure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for th azenve for all annitrable inservitions. Linderstand that a completed signed conv of this Certificate of Compliance is required to be included.</li> </ol>	The building design teatures or system design teatures deentified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permitt application. I will ensure that a completed for other Compliance shall be made available to the building permitt(s) issued for the building, and made available to the enforcement agency for all avoin submitted for the building, and made available to the enforcement agency for all avoin the building permit(s) issued for the building, and made available to the enforcement agency for all avoin the building permit(s) issued for the building, and made available to the enforcement agency for all avoin the building permit(s) issued for the building, and made available to the enforcement agency for all avoin the building permit(s) issued for the building and made available to the enforcement agency for all avoin the building permit sectors.
building owner at occupancy.	
Responsible Designer Name: Tony Ngo	Responsible Designer Signature:
Company : Advanced Technologies Consultants, Inc.	Date Signed: 2/16/2021
Address: 5755 Oberlin Dr. Suite 112	License: M30641
City/State/Zip: San Diego, CA 92121	Phone: 858-658-0304
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016
STATE OF CALIFORNIA REQUIRED ACCEPTANCE TESTS	
	CALIT ON VIA EVEND COMMISSION NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Industrial Water Reclamation Facility	Date Prepared: 2/16/2021

۱o.	DATE	
/3	02-12-25	

	DATE	REVISIONS	APPROVED	
				UNDERGROUND SERV
				CALL:
				1-
				227
7	02-12-25	ADDENDUM 3	DTN	

DESIGNED: TN, SC :RVICE ALERT .: TOLL FREE 1–800 .27–2600 DRAWN: S. CHHAT CHECKED: G DAYS BEFORE YOU DIG T. NGO

Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.	Systems Acceptance. Before for normal use, all control d	e occupal evices se	ncy permit i rving the bu	is granted for a uilding or space	newly const shall be cert	ructed buildin iffied as meeti	ig or space, c ing the Accel	or a new spa	ce-condition irements for	ing system se · Code Compli	rrving a building ance.	Enforcement Agency: Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.
Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the	nce. Befor 4-E compl	e occupal iance doc	ncy permit i tument is no	is granted. All ot considered a	newly installe a completed o	ed HVAC equi	pment must I is not to be	be tested us accepted by	ing the Acce	sptance Requi	irements. unless the corre	mit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance te must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Sec 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.	equiring te ed. The fo building di le 24 Part	sting, per llowing cl epartmer 6. The bu	rson perforr hecked-off 1 nt that certii ilding inspe	ming the test (I forms are requ fies plans, spec ctor must rece	Example: HV/ ired for ALL n iffications, ins ive the prope	AC installer, TA newly installed stallation certi rtly filled out a	AB contracto I and replace ificates, and and signed co	r, controls co ed equipmen operating ar	ontractor, Pł it. In additio id maintenal ocuments be	E in charge of on a Certificatu nce information fore the build	project) and wh e of Acceptance on meet the req fing can receive	The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.
Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring			Single	Air		Demand Control		Automatic Demand	FDD for	Distributed	Energy Management	
	# of Ou	Outdoor Air	Zone Unitary	Distribution	Economizer Controls	Ventilation (DCV)	Supply Fan VAV	Shed	Packaged DX Units	Storage DX AC Systems	Control Svstem	
Toshiba Car 1		>	1									
											2	

2016 Nonresidential Compliance			
onresidential Co			

COMMISSION NRCC-MCH-04-E (Page 1 of 3) 
 Required Acceptance Tests

 Protect Industrial Water Reclamation Facility

 Industrial Water Reclamation Facility

 Protect Industrial Water Reclamation Facility

 Industrial Water Reclamation Facility

 A. MECHANICAL COMPLIANCE FORMS & WORKSHETS

 Indicate if worksheet is included)
 Indicate if worksheet is included)

 For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-O3-E for projects using only single zone packaged HVAC systems.

 VES
 NO
 Form
 Title
 Intel
 TESTS ш STATE OF CALIFORNIA REQUIRED ACCEPTANC CEC-NRCC-MCH-94-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Required Acceptance Tests Project Name: Induced-2000

CERTIFICATE OF COMPLIANCE	DMPLIANCE		NRCC-MCH-05-E
Requirements for I	Requirements for Packaged Single-Zone Units		(Page 2 of 2)
Project Name: Industris	Project Name: Industrial Water Reclamation Facility		Date Prepared: 2/16/2021
DOCUMENTATION	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
<ol> <li>I certify that th</li> </ol>	I certify that this Certificate of Compliance documentation is accurate and complete.	nplete.	
Documentation Author Name:	tame: Tony Ngo & Santa Chhat	Documentation Author Signature: ( ) Drw ) Dor	
Company:	Advanced Technologies Consultants, In	Signature Date: 2/16/2021	
Address:	5755 Oberlin Dr. Suite 112	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	San Diego, CA 92121	Phone: (858) 658-0304	
RESPONSIBLE PERS	RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the fol 1. The informatio 2. I am eligible ur	l certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible	California: t. responsibility for the building design or system (	design identified on this Certificate of Compliance (responsible
designer). 3. The energy fea	designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance	and manufactured devices for the building desi	gn or system design identified on this Certificate of Compliance
conform to the 4. The building de	conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents,	ode of Regulations. ficate of Compliance are consistent with the inf	ormation provided on other applicable compliance documents,
worksheets, ca 5. I will ensure th agency for all a the building ov	worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available to the enforceme agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building to the building compare that a completed signed copy of this trans- the building compared to be included with the documentation the builder provides to	ent agency for approval with this building perm nall be made available with the building permiti, py of this Certificate of Compliance is required	worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable issued for the building, and made available to the enforcement agency for all applicable issued for the building. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building covera state of Certificate of Compliance is required to be included with the documentation the builder provides to a the building covera state of Certificate of Compliance is required to be included with the documentation the builder provides to the building covera state of Certificate of Compliance is required to be included with the documentation the builder provides to a the building covera state of Certificate of Completed Signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to a covera state of Certificate of Compliance is required to be included with the documentation the builder provides to a covera state of the certificate of Completed Signed copy of this Certificate of Complex state of the certificate of Certifica
Responsible Designer Name:	me: Tony Ngo	Responsible Designer Signature:	
Company :	Advanced Technologies Consultants, Inc.	Date Signed: 2/16/2021	
Address:	5755 Oberlin Dr. Suite 112	License: M30641	
City/State/Zip:	San Diego, CA 92121	Phone: 858-658-0304	

|--|

CENTIFICATE OF CONTELIANCE Requirements for Packaged Single-Zone Units ProjectName: Industrial Water Reclamation Facility Equipment Tag(s) ¹ MANDATORY MEASURES Heating Equipment Efficiency ⁴ Cooling Equipment Efficiency ⁴ Thermostats ⁵ Thermostats ⁵ Thermostats ⁶ Thermostats ⁶ Thermostats ⁷ Thermostats ⁶ Thermostats ⁶ Thermostats ⁷ Thermostats ⁶ Thermostats ⁷ Thermostats ⁷ Thermostats ⁶ Thermostats ⁶ Thermostats ⁷ Thermostats ⁶ Thermostats ⁶ Thermostats ⁶ Thermostats ⁶ Thermostats ⁶ Thermostats ⁷ Thermostats ⁷ Thermostats ⁶ Thermostats ⁶ Thermostats ⁶ Thermo	STATE OF CALIFORNIA RECOURTEMENTS FOR PACKAGED SINGLE ZONE UNITS CEC-INCC-MCH-05-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Requirements for Packaged Single-Zone Units Protertimer industrial Water Reclamation Facility Protertimer industrial Water Reclamation Facility Protectimer 25 (10.101 or 110.2(a) 11.000 HORE MANDATORY MEASURES Heating Equipment Efficiency ⁴ 110.1 or 110.2(a) 11.0 SetDack Heating Equipment Efficiency ⁴ 110.1 or 110.2(a) 11.0 SetDack Thermostats ⁵ 110.2(b) 110.2(c) SetDack Thermostats ⁶ 110.2(c) 110.2	Jniit t ³ As scheduled ³ Requirement ³ 9.60 HSPF 18.2 SEER / 9. Setback 18.2 Setback 18.2 Setback 18.2 Setback 18.2 Setback 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	CALIFORNIA ENERGY COMMISSION NRCC-MC (Page As Scheduled ³ Requirement ³ As Schedul	commission NRCC-MCH-05-E (Page 1 of 2) As Scheduled ³	STATE OF CALIFORNIA <b>MECHANICAL VENTIL</b> CERTIFICATE OF COMPLIANCE Mechanical Ventilation & Reh Project Name: Industrial Water Re Project Name: Industrial Water Re Documenation Author Name: Tony Company: Address: 5755 Company: Address: 5755 Clty/State/Zlp: San I RESPONSIBLE PERSON'S DECLAR I certify the following under pena 1. The information provided or 2. I am eligible under Division i	ISTIE OF CALIFORMA INTE OF CALIFORMA INTE OF CALIFORMA INTE OF CALIFORMA INTE OF CALIFORMA INTE OF CALIFORMA INTE OF COMPLIANC INTE OF COMP	ete. Decumentation Author Signature: Documentation Author Signature: Documentation Author Signature: Documentation Author Signature: Documentation Author Signature: Signature Date: 2/16/2021 Signature Date: 2/16/2021 Signatu	CALIFORNIA ENERGY COMMISSION NRCC-MC (Page (Page (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (Page) (P
Duct Insulation PRESCRIPTIVE MEASURES Equipment is sized in conformance with 140.4 (a & b) Economizer Economizer Electric Resistance Heating ¹⁰	120.4 R-8 140.4(a & b) 18,040 Btu/hr 140.4(e) NR 140.4(e) NR	R-8.0         R-8.0           hr         15,949 Btu/hr           hr         17,985 Btu/hr           No         Economize           No         No			<ol> <li>The energy fit</li> <li>Conform to t</li> <li>The building</li> <li>Worksheets,</li> <li>I will ensure</li> <li>agency for al</li> </ol>	The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I show that a completed signed copy of this Certificate of Compliance exclusions provided on other applicable to the enforcement agency for approval with the building permit application.	I manufactured devices for the building of Regulations. of Regulations. It of Compliance are consistent with the agency for approval with this building per be made available with the building perr of this Certificate of Compliance is requi	design or system design identified on e information provided on other appl ermit application. mit(s) issued for the building, and ma ired to be included with the documer
Duct Leakage Sealing and Testing. ¹¹ Notes:		No			building owner at Responsible Designer Name:	building owner at occupancy. siske Designer Name: Tony Ngo	Responsible Designer Signature:	Jon ngo
Provide equipment tags (e.g. AC1 or AC1 1 Enter the following information as approp (enter "N/A" if no heating); and, rated coo	Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "M/4" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. & Btuh or tons).	nodel with the same application and acc r (including all accessories); Description unit capacities include the units (e.g. kB	cessories can be grouped together. n of the unit (e.g. gas-pack or heat pump; rat tBtuh or tons).	ed heating capacity	Company : Address:	Advanced Technologies Consultants, Inc. 5755 Oberlin Dr. Suite 112	Date Signed: 2/16/2021 License:	M30641
For each requirement, enter the minimum ru the units as specified. Where there is more than one requirement, in the left column identify the thermostatic. capabilities of the thermostat as scheduled. If the unit has a furmace which is rated at 22 indicate "N/A". In the left column, enter both the required v	For each requirement, enter the minimum requirement from the Standard In the left column (under "As Scheduled") enter the value for the units as specified. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER). Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER). In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the appropriate labels (e.g. COP and IEER). If the unit has a furnace which is rated at 2225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A". In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum	llumn (under "Standard Requirement"). 1 with the appropriate labels (e.g. COP c ammable setback thermostat or heat pu standby loss and ignition source (e.g. III the number of occupants times 15 cfm/t	I. In the right column (under "As Scheduled") enter the value for and IEER). Dump with electric heat), In the right column indicate the DID. If there is no furnace or the unit is rated for <225,000 Btuh (person. In the right column enter the actual minimum	enter the value for 1 indicate the for <225,000 Btuh minimum	City/State/ZD:	San Diego, CA 92121	Phone:	858-658-0304
ventilation as scheduled. If the space is no 8. If the space is required to have either DCV Sensor Ventilation Control is provided indi 9. In the left column indicate the required tin 10. Enter N/A if there is no electric heating. If 11. If duct leakage sealing and testing is requi	ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column. If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the left column) In the left column indicate the required time controls from the standard. In the right column (otherwise that provides this functionality (e.g. EMCS or programmable timeclock). Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.	run and "the space is naturally ventilate ate "required" in the left column (other e indicate "N/A" in the right column) lumn identify the device that provides t h exception to 140.4(g) applies. be submitted.	ted" in the right column. rwise indicate "N/A" in the left column). If ei this functionality (e.g. EMCS or programmab	ther DCV or Occupant le timeclock).				
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance					CA Building Energy	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance		

Сом	TROL DIAGRAM SYMBOLS	CIRCUITS AND RACEWAYS	LIGHTING	WIRING DEVICES	
^{120V}	CONTROL TRANSFORMER, PRIMARY AND SECONDARY VOLTAGES SHOWN, SIZE	RACEWAY EXPOSED	FIXTURE IDENTIFICATION:	SWITCHES: UNLESS OTHERWISE SPECIFIED, ALL SWITCHES ARE WALL MOUNTED	I ,
	AS SHOWN OR SPECIFIED	— — — — RACEWAY UNDERGROUND	NUMBER OF FIXTURES (SHOWN ONLY WHEN REQUIRED FOR CLARITY)	\$ TOGGLE SWITCH, SINGLE POLE, 20 AMP	
3P)40A	CIRCUIT BREAKER, THERMAL-MAGNETIC, POLE, UON, RATING IN AMPS	RACEWAY CONCEALED IN CONCRETE ENCASEMENT	FIXTURE TYPE REFER TO FIXTURE SCHEDULE TYPE APPLIES TO ALL FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AREA.	\$ GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE	
↓	DESIGNATES PLC INPUT TERMINATION OR CONTROL PANEL TERMINATION	RACEWAY TURNED TOWARD THE VIEWER	5 XX R MOUNTING: CEILING (C), RECESSED (R) POLE (PP), STANCHION (S), PENDANT (P),	SUPERSCRIPT INDICATES CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER:	3
	MODIFIERS: FUSE CLF = CURRENT LIMITING FUSI DE = DUAL ELEMENT		8'-6" WALL (W). MOUNTING HEIGHT, FLOOR TO BOTTOM OF	\$ 1a, 4b, ETC.	$\overline{(m)}$
ID	F = CLASS F	HH23 HH: HANDHOLE, MH: MANHOLE	FIXTURE UON. AS HIGH AS POSSIBLE (AHAP)	SUBSCRIPT MODIFIER INDICATES: 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY	MF
	PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN	J JUNCTION BOX	LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED	K = KEY OPERATED MC = MOMENTARY CONTACT, THREE POSITION MS = MANUAL (MOTOR) STARTER OR SWITCH	ل ^{MF} ] براین480/27
	PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED	TB TERMINAL BOX	WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE TYPICAL APPLICATIONS.	R = RHEOSTAT (DIMMER, SPEED CONTROL) WP = WEATHER PROOF	5.75%
	STOP PUSHBUTTON WITH LOCKOUT	S#10 AWG, GNDG, 1°C RACEWAY SIZE WITH CONDUCTOR		RECEPTACLES: UNLESS OTHERWISE SPECIFIED, ALL RECEPTACLES ARE 125 VOLT, SINGLE PHASE, STRAIGHT BLADE, NON LOCKING, GROUNDING STYLE.	= 480V 3ø, 4₩ 600KW ↔ ↔ ↔
(2)	CONTROL RELAY OPERATING COIL FUNCTION: CR= CONTROL RELAY	CONTENTS AND SIZES		DUPLEX RECEPTACLE, 20 AMP, 3 WIRE. MODIFIERS: WP = WEATHER PROOF AND GFI GFI = GROUND FAULT CHECOM INTERRUPTER	600KW 60HZ OR
OL GC	U = UNLATCH L = LATCH	CIRCUIT HOMERUN WITH DESTINATION	CONTAINED	H = HAZARDOUS AREA-EXPLOSION PROOF	-
2CR 2CR → → →	THERMAL OVERLOAD RELAY	ICXXX INSTRUMENTATION CONDUIT	MISCELLANEOUS	DOUBLE DUPLEX RECEPTACLE	
	TIMING RELAY OPERATING COIL	CCXXX CONTROL CONDUIT			1. THIS DRAWING IS DRAWINGS.
	ON/OFF/DELAY RANGE: SEC/MIN SET: SEC/MIN	P-4XX POWER CONDUIT WITH 480V CIRCUITS	PROGRAMMABLE LOGIC CONTROLLER I/0	STANDARD ABBREVIATIONS	2. IDENTIFICATIONS (I ARE OPTIONAL; E)
H A.	, ·····	POWER SOURCE IDENTIFICATION	E150 TYPICAL DETAIL DESIGNATION	A AMPERE AFF ABOVE FINISHED FLOOR ATS AUTOMATIC TRANSFER SWITCH BCW BARE COPPER WIRE	3. THE ELECTRICAL I SHOWING THE LOO PLAN DRAWINGS T
	SELECTOR SWITCH 3 POSITION MAINTAINED CONTACT	LP-1XX FORCE CIRCUIT 1200 WITH FORCE SOURCE IDENTIFICATION	TYP	C CONDUIT C.O. CONDUIT ONLY (EMPTY CONDUIT) CP CONTROL PANEL	PROVIDE THE NEC RUN EXPOSED, AN USED SHALL BE A
	(X = CONTACTS CLOSED)	GROUNDING	T THERMOSTAT	CPT CONTROL POWER TRANSFORMER CR CONTROL RELAY CT CONTACTOR (HEAVY DUTY)	4. THE LOCATION OF LOCATION SHALL F
			5 NOTE DESIGNATION	CU COPPER DPDT DOUBLE POLE DOUBLE THROW (E) OR EXIST. EXISTING	5. THE EXACT LOCAT THE STRUCTURAL
	INDICATING LIGHT L = LENS COLO PUSH TO TEST, A = AMBER TEST VOLTAGE B = BLUE		△ DESIGNATES EQUIPMENT OR DEVICE LOCATED AT LOAD IN THE FIELD	FA FIRE ALARM FIA FULL LOAD AMPERE FM FIBER OPTIC MODEM	6. ALL EQUIPMENT S WITH THE ONE-LI CONSTRUCTION MA
	TERMINAL SHOWN G = GREEN R = RED W = WHITE	GROUND CONNECTION, BOLTED TYPE	* DESIGNATES EQUIPMENT OR DEVICES LOCATED IN MCC	FS FLOAT SWITCH G OR GND GROUND HP HORSE POWER	7. UNLESS OTHERWIS 48-INCHES MAXIM
	2-WAY SOLENOID VALVE		DESIGNATES PLC WIRING TERMINAL	HZ HERTZ KVAR REACTIVE POWER KW KILOWATT	FINISHED FLOOR. THE TOP OF THE
15:34		#4/O BARE COPPER	PHOTO ELECTRIC FIRE DETECTOR	KWHR KILOWATI HOUR I/O INPUT/OUTPUT I/PB INSTRUMENTATION PULL BOX	8. EACH CONVENIENC CONDUCTOR.
	NORMALLY CLOSE DEFINITION	$ \begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $		ISR INTRINSICALLY SAFE RELAY LC LOAD CENTER LCP LOCAL CONTROL PANEL	9. THE CONTRACTOR EQUIPMENT AS SH
	OTO TO DELAY ON COIL ENERGIZATION	MOTORS AND EQUIPMENT	REMOVABLE POST	LOS LOCKOUT STOP LP LIGHTING PANEL MCC MOTOR CONTROL CENTER	10. ALL TYPICAL DETA
			E END-OF-LINE DEVICE	MCP MOTOR CIRCUIT PROTECTOR MF MULTI-FUNCTION METER NC NORMALLY CLOSED	11. FOR PACKAGED EN SHALL INSTALL TH
	Position (Limit) Switch	DISCONNECT SWITCH, NON-FUSED, HEAVY DUTY PADLOCKABLE, INDUSTRIAL TYPE	F FIRE ALARM PULL STATION	NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE	12. FOR CLARITY, CON WHICH SHALL BE
	TEMPERATURE SWITCH	$ \begin{array}{c} M &= MOTOR \\ M & SV &= SOLENOID VALVE \\ 125 &= 125HP \end{array} $	F COMBINATION STROBE LIGHT/HORN	OIT OPERATOR INTERFACE TERMINAL OPS OPERATIONS PAIR OR PR TWISTED, SHIELDED PAIRS PB PULL BOX	14. ALL EQUIPMENT A
	PRESSURE SWITCH		REFERENCE DESIGNATION WITH DRAWING NUMBER WHERE DETAIL IS SHOWN	PG&E PACIFIC GAS & ELECTRIC COMPANY PLC PROGRAMMABLE LOGIC CONTROLLER PP POWER POLE	SUCH CLASSIFIED 15. ALL EQUIPMENT A RESISTANT WITH 3
		CONTROL STATION (SEE CONTROL DIAGRAMS FOR DEVICES REQUIRED)		PPB POWER PULL BOX RTD RESISTANCE THERMAL DETECTOR RTU REMOTE TERMINAL UNIT SCIDA SUBJECTION DUTIENT & DATA ACQUISITION	AREAS ARE NEMA
	LEVEL SWITCH	TELEPHONE AND COMMUNICATION SYSTEMS: UNLESS OTHERWISE SPECIFIED, TELEPHONE OUTLETS SHALL BE MOUNTED AT SAME	NEMA 4X CORROSIVE AREA	SCADA SUPERVISORY CONTROL & DATA ACQUISITION SPD SURGE PROTECTION DEVICE SSRS OR RVSS SOLID STATE REDUCED VOLTAGE STARTER SPDT SINGLE POLE DOUBLE THROW	GENERIC ARC FLA ENCLOSURE.
		HEIGHT AS THE RECEPTACLES, VERIFY. EXTERNAL LINE OR PLANT PHONE SYSTEM	NEMA 8 CLASSIFIED HAZARDOUS AREA	SPS SURGE PROTECTION SYSTEM TDR TIME DELAY RELAY TS TEMPERATURE SWITCH	17. IN THIS PROJECT, COORDINATION WIT CONSTRAINTS.
Treatm		J OUTLET	NEMA 12 GENERAL PURPOSE AREA	TYP TYPICAL UON UNLESS OTHERWISE NOTED UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTMETER	18. SEISMIC CALCULAT CODES. SEE SPE
dus trial		MS MANUAL STARTER WITH PILOT LIGHT	DENOTES DEMOLITION	VOLIMETER VFD VARIABLE FREQUENCY DRIVE WP WEATHER PROOF (NEMA 4X) XFMR TRANSFORMER	19. A MINIMUM OF 12 REQUIREMENT SHA
ate Inc		<u> </u>			20. MOTOR DISCONNE TWO-POLE, 20A,
No. DATE	REVISIONS A	UNDERGROUND SERVICE ALERT DESIGNED: NAME	PROGRESS: REVISED PER REVIEW COMMENTS		
		CALL: TOLL FREE 1-800 NAME	SUBMITTAL DATE: NOVEMBER 2024		
	JDUM 7		DIEP NGUYEN E-10687 DISCIPLINE ENGINEER P.E. NO.	605 Third Street Encintas, 760.942.5147 Fax 760.9	
a 3 02-12-25 ADDEN	NUUM 3	DTN NAME.		11-13-24	

	ONE-LINE DIAGRAM	SYMBOLS	
	SIZE 2 COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER MCP SIZED BY MANUFACTURER (OVERLOAD RELAY NOT SHOWN). RV = REDUCED VOLTAGE 2S2W = TWO-SPEED TWO-WINDING 2 = SIZE 2	MPD 413 )	DESIGNATE NAME AND CIRCUIT NUMBER OF 480V POWER CIRCUIT
/3	CURRENT TRANSFORMER WITH RATIO AND NUMBER OF UNITS		DISCONNECT 200 AMP SHOWN
	MAIN SERVICE METER (BY UTILITY COMPANY)	FU C	FUSE WITH BLOWN INDICATOR
	MULTI-FUNCTION ELECTRONIC METER	Ť	
/277V	POWER TRANSFORMER	Ę	DE40TAD (20)
5% Z	IMPEDANCE SHOWN	ξ	REACTOR (3%)
4W	GENERATOR. POWER RATING, FREQUENCY, VOLTAGE.		
	GENERAL NOT	ES	
IS GEN	NERAL IN NATURE. SOME SYMBOLS SHOW	N HERE ON MAY N	OT BE USED ON THE CONTRACT
s (ID), ; EXAM <del>I</del>	SIZES, RATINGS, LOCATIONS AND SIMILAR PLES OF SUCH INFORMATION ARE SHOWN	NFORMATION SHO	WIN ASSOCIATED WITH SYMBOLS OLS FOR CLARITY.
LOCATIO S TO D NECESS , AND F	WINGS USE THE ONE-LINE DIAGRAMS AND ON OF THE ELECTRICAL/INSTRUMENTATION DEPICT THE WORK. THE CONTRACTOR SHA ARY RACEWAY AND WIRING SYSTEM FOR ROUTED BY THE CONTRACTOR, UNLESS O SPECIFIED IN THE SPECIFICATIONS UNLESS	N SOURCES AND LO ALL USE THESE DOO EACH CIRCUIT. ALL OTHERWISE NOTED.	DADS/DEVICES SHOWN ON THE CUMENTS TO DETERMINE AND INDOOR RACEWAY SHALL BE THE TYPE OF RACEWAY AND WIRE
	E CONTROL STATIONS SHOWN ON THE PI COORDINATED IN THE FIELD WITH THE CO		
	OF THE MOTORS AND ACCESSORIES ARE D MECHANICAL DRAWINGS FOR CONDUIT S		
IT SHAL -LINE MANAC	L BE LABELED WITH NAMEPLATES. DESCR DIAGRAM DESCRIPTION. A LIST OF THE N. GER PRIOR TO ENGRAVING.	IPTION OF EQUIPME AMEPLATES SHALL	ENT SHALL BE IN ACCORDANCE BE SUBMITTED TO THE
	NOTED, ALL CONVENIENCE OUTLETS SHALL ABOVE FINISHED FLOOR. ALL LIGHT SW IE LOWER REACH IS MEASURED TO THE I	BE MOUNTED AT	15-INCHES MINIMUM AND MOUNTED AT 48-INCHES ABOVE
IENCE C	DUTLET AND LIGHTING CIRCUIT SHALL BE	PROVIDED WITH A	#12AWG GREEN GROUNDING
for Shi Showi	ALL INCLUDE IN HIS BID THE COST TO D N ON THE DRAWINGS. CORE DRILL EXIS	DISCONNECT AND RI TING WALLS AS REG	EMOVE EXISTING ELECTRICAL QUIRED FOR CONDUIT ENTRIES.
	SHALL APPLY REGARDLESS THEY ARE RE		
. THEM	PMENT, CONTRACTOR SHALL FOLLOW THE PER APPROVED SHOP DRAWINGS.		
	DL SCHEMATIC DIAGRAMS DO NOT SHOW DVIDED FOR EACH POWER CIRCUIT.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	ITS SHALL BE THREADED PVC-COATED R S SUCH AS FITTINGS, BOXES, CONDUITS	SUPPORTS ETC. SH	HALL BE 316 STAINLESS STEEL.
IED HAZ	ASSOCIATED INSTALLATION IN CLASSIFIED ZARDOUS LOCATIONS PER NEC ARTICLE 5	600.	
H 316	ASSOCIATED INSTALLATION IN NEMA 4X A STAINLESS STEEL MATERIALS AND ENCLO AREAS.		
0 SPEC FLASH	IFIC ARC FLASH LABELS GENERATED FRO WARNING LABELS SHALL BE PROVIDED FO	M THE ARC FLASH OR EACH OF THE E	/ SHORT CIRCUIT STUDY, ELECTRICAL EQUIPMENT, PANEL,
	NTINUOUS OPERATIONS OF THE EXISTING THE OWNER IS NECESSARY AND REQUIRED		

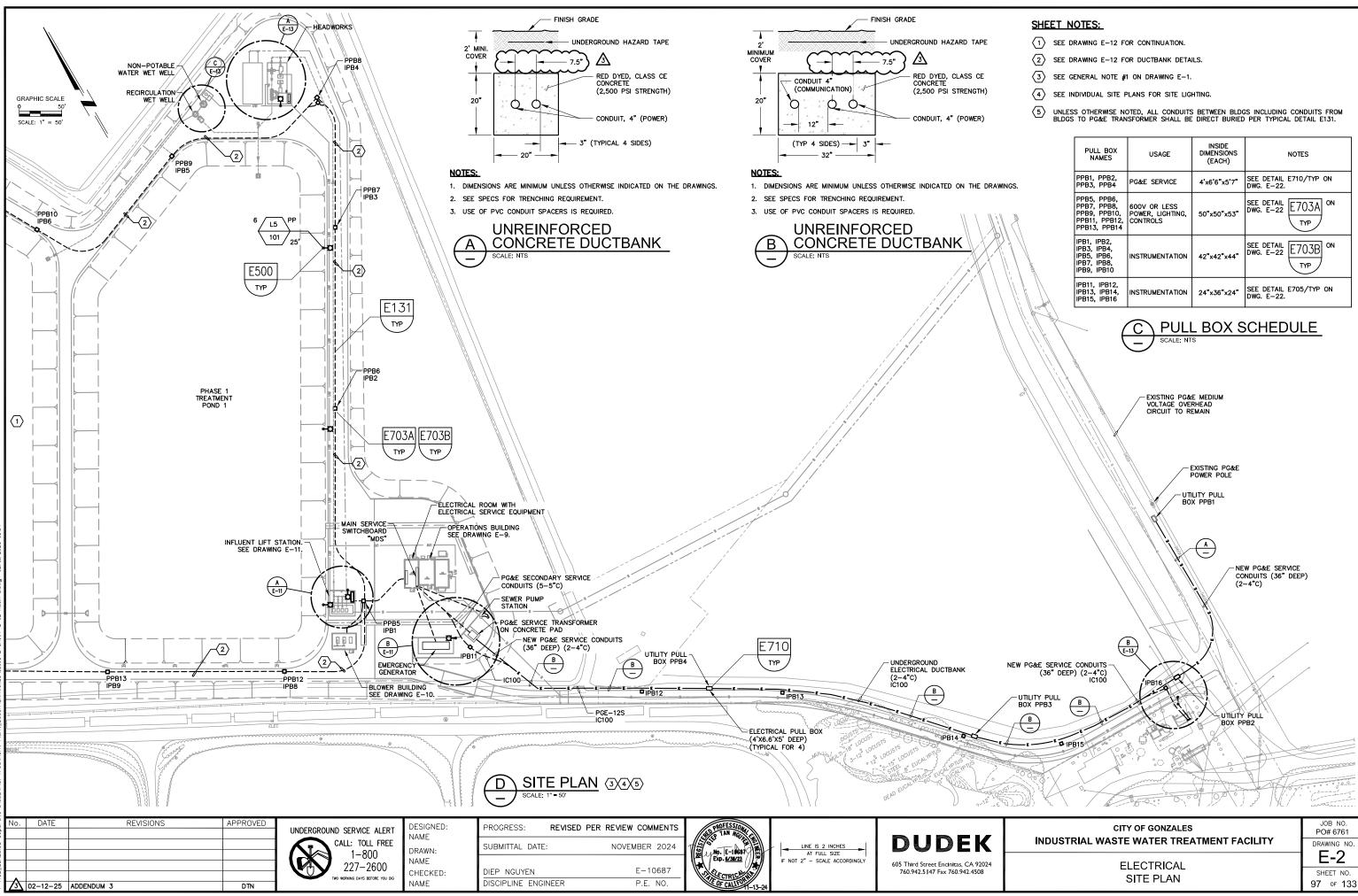
JLATIONS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR PER CALIFORNIA BUILDING SPECS FOR DETAILS.

12" SEPARATION IS REQUIRED BETWEEN POWER AND INSTRUMENTATION CONDUITS. SAME SHALL ALSO APPLY TO CONDUITS IN DUCT BANKS.

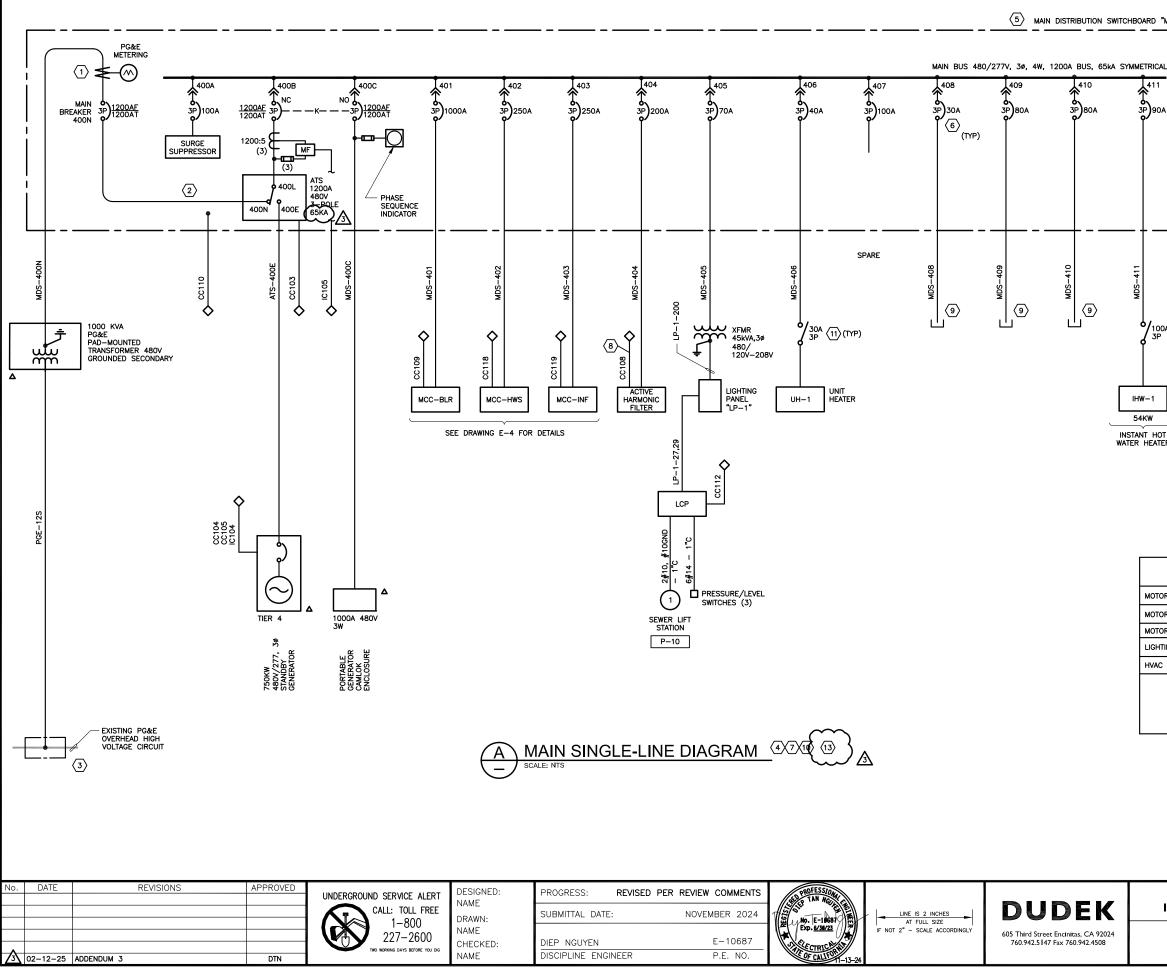
NNECTS FOR 120V AND 208V MOTORS SHALL BE MANUAL STARTER STYLE, SINGLE-POLE OR DA, NEMA 4X 316 STAINLESS STEEL, PAD LOCKABLE, MADE BY SQUARE D, EATON OR EQUAL.

### CITY OF GONZALES

ELECTRICAL ELECTRICAL SYMBOLS, LEGEND AND NOTES JOB NO. PO# 6761 DRAWING NO. E-1 SHEET NO. 96 of 133



PULL BOX NAMES	USAGE	INSIDE DIMENSIONS (EACH)	NOTES
PPB1, PPB2, PPB3, PPB4	PG&E SERVICE	4'x6'6"x5'7"	SEE DETAIL E710/TYP ON DWG. E-22.
PPB5, PPB6, PPB7, PPB8, PPB9, PPB10, PPB11, PPB12, PPB13, PPB14	600V OR LESS POWER, LIGHTING, CONTROLS	50"x50"x53"	SEE DETAIL DWG. E-22 E703A TYP
IPB1, IPB2, IPB3, IPB4, IPB5, IPB6, IPB7, IPB8, IPB9, IPB10	INSTRUMENTATION	42"x42"x44"	SEE DETAIL DWG. E-22 E703B ON TYP
IPB11, IPB12, IPB13, IPB14, IPB15, IPB16	INSTRUMENTATION	24"x36"x24"	SEE DETAIL E705/TYP ON DWG. E-22.

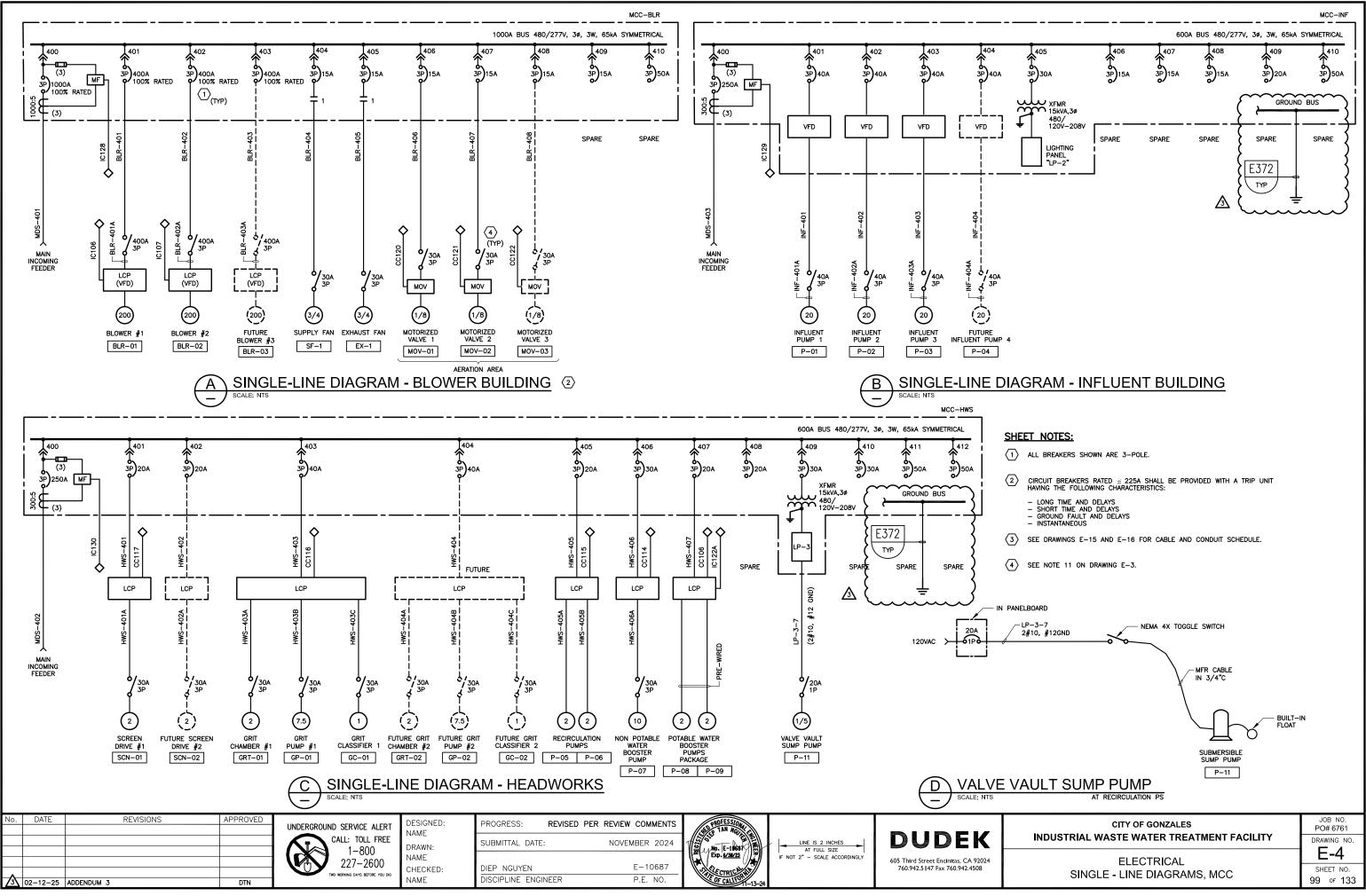


Sł	ΗE	ΕT	. 1	<u>NC</u>	)T	ES	:

	_		
"MDS"	(1)	PULL SECTION AND METERING SECTION OF THE MAIN DISTRIBUTION SWITCHBOARD SHALL BE IN FULL COMPLIANCE WITH PG&E REQUIREMENTS IN THE GREEN BOOK AND APPLICABLE EUSERC STANDARDS.	
	2	FURNISH AND INSTALL NEUTRAL GROUNDING DISCONNECT BONDED TO THE MAIN DISTRIBUTION SWITCHBOARD COPPER GROUND BUS WHICH IS EXTENDED THRU ALL VERTICAL SECTIONS OF THE SWITCHBOARD.	
A	3	ALL WORK INVOLVING SERVICE SHALL BE FULLY COORDINATED WITH PG&E AND WITH THE ENGINEER IN ADVANCE.	
	4	) circuit breakers rated $\ge$ 225a shall be provided with a trip unit having the following characteristics:	
		– LONG TIME AND DELAYS – SHORT TIME AND DELAYS – GROUND FAULT AND DELAYS – INSTANTANEOUS	
	5	PROVIDE A SIGN TO INDICATE "THIS ELECTRICAL GEAR IS SUPPORTED BY AN ONSITE GENERATOR LOCATED AT THE SOUTH SIDE OPERATIONS BUILDING".	
	6	ALL BREAKERS SHOWN ARE 3-POLE.	
	7	SEE DRAWINGS E-15 AND E-16 FOR CABLE AND CONDUIT SCHEDULE.	
	8	HARMONIC FILTER'S DRY CONTACTS FOR RUN AND FAIL FUNCTIONS SHALL BE CONNECTED TO PLC FOR REMOTE MONITORING (4 $\#$ 14).	
	(9)	CAP CONDUIT ON WALL 36" ABOVE SWITCHBOARD FOR FUTURE USE.	
	(10	BREAKERS 400A AND LARGER FRAME SHALL BE 100% RATED.	
	(11)	ALL POWER DISCONNECT SWITCH SHALL BE 600V RATED, NON-FUSED, HEAVY DUTY, INDUSTRIAL TYPE, PAD-LOCKABLE, NEMA 4X (316 SS) FOR OUTDOOR LOCATIONS AND NEMA 12 FOR INDOOR LOCATIONS.	
		A PERMANENT PLAQUE OR DIRECTORY SHALL BE INSTALLED AT THE SERVICE EQUIPMENT LOCATION, OR AT AN APPROVED READILY VISIBLE LOCATION. THE PLAQUE OR DIRECTORY SHALL DENOTE THE LOCATION OF EACH POWER SOURCE DISCONNECTING MEANS FOR THE BUILDING OR STRUCTURE AND BE GROUPED WITH OTHER PLAQUES OR DIRECTORIES FOR OTHER ONSITE SOURCES. THE PLAQUE OR DIRECTORY SHALL BE MARKED WITH THE WORDING "CAUTION: MULTIPLE SOURCES OF POWER". ANY POSTED DIAGRAMS SHALL BE CORRECTLY ORIENTED WITH RESPECT TO THE DIAGRAM'S LOCATION. THE MARKING SHALL COMPLY WITH CEC 110.21(B).	)))))))))
	} 13	A TORQUE SCHEDULE SHALL BE PROVIDED FOR ALL EQUIPMENT CONNECTIONS INCLUDING HARDWARE, DISCONNECTS, BREAKERS, MODULE CLIPS, LUGS, PANEL HARDWARE, GROUND CONNECTIONS, RACKING SYSTEM BOLTS, CLAMPS, ETC. THE SCHEDULE SHALL BE AS INDICATED ON EQUIPMENT OR IN INSTALLATION INSTRUCTIONS PROVIDED BY THE EQUIPMENT MANUFACTURER. AN APPROVED MEANS SHALL BE USED TO ACHIEVE THE INDICATED TORQUE VALUE.	()))))))))
	$\sim$		

EQUIPMENT	PRELIM HP/KVA	BUS RATING	NOTES
OR CONTROL CENTER "BLR"	601	1000	
OR CONTROL CENTER "HWS"	58	600	
OR CONTROL CENTER "INF"	96	600	
TING & MISCELLANEOUS	45	N/A	
2	150	N/A	
	SUBTOTAL =	950 HP ≈ 1	1143A
		1143 A @ 4	80V, 3Ø CONNECTED
		USE 1200A	STANDARD RATING

CITY OF GONZALES	JOB NO. PO# 6761
INDUSTRIAL WASTE WATER TREATMENT FACILITY	DRAWING NO.
ELECTRICAL	E-3
MAIN SINGLE - LINE DIAGRAM	SHEET NO.
AND LOAD CALCULATIONS	98 or 133



teI											
ara	No. DATE	REVISIONS	APPROVED		DESIGNED:	PROGRESS:	FINAL SIGNED	PROFESSION			1
Sep				UNDERGROUND SERVICE ALERT	NAME			100 573 TAN AGAIN			I
ales				CALL: TOLL FREE 1-800	DRAWN:	SUBMITTAL DATE:	NOVEMBER 2024	No. E-10687	AT FULL SIZE	UVUER	L
Gonz					NAME			Exp. <u>6/38/23</u>	IF NOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024	1
132				TWO WORKING DAYS BEFORE YOU DIG	CHECKED:	DIEP NGUYEN	E-10687	CTRICE AND		760.942.5 47 Fax 760.942.4508	1
ž	3 02-12-25	ADDENDUM 3	DTN		NAME	DISCIPLINE ENGINEER	P.E. NO.	OF CALIFORNIA			



OCATION IN MCC "INF"				MAIN BREAK	KER :	_5	50A			BUS	<u>1</u>	00A 22KA	ł	PANEL	BREAK	ER BOLT-ON
	W	ATTAGE	Ξ	WIRE					s/n			WIRE	 W	ATTAGE	-	
LOAD DESCRIPTION	ØA	øВ	øC	CONI		RIP	CKT.		в		. TRIF	CONI	ØA	øВ	øC	LOAD DESCRIPTION
BLOWER BLDG - LIGHTING	306			2	2	20	1	H	-	2	20	2	50			FLOW TRANSMITTER FE/FIT-109
BLOWER BLDG - OUTLETS		720		2	2	20	3	Н	-	4	20	2		300		DO TRANSMITTERS AIT-117 & 119
.CP-2 (PLC SYSTEM)			1000	$\langle 1 \rangle$	2	20	5	Н	+	6	20	2			50	FLOW TRANSMITTER FE/FIT-126
ICC ENCLOSURE - LIGHTS	100			$\langle 1 \rangle$	2	20	7	┣┥	+	8	20	2	50			pH TRANSMITTER AIT-109
ICC ENCLOSURE - FANS		250		(1)	2	20	9	Н	+	10	20	2			50	LEVEL TRANSMITTER LIT-105
NFLUENT PS - OUTLETS			540	2	2	20	11	Н	+	12	20					SPARE
AIR CONDITIONER 7	900			1	2	20	13	┝┥	+	14	20					SPARE
SPARE					2	20	15	Н	+	16	20					SPARE
SPARE					2	20	17	Н	+	18	20					SPARE
SPARE					2	20	19	┣	+	20	20					SPARE
SUBTOTAL	1306	970	1540									•	100	300	100	

PANEL <u>LP-3</u> LOCATION IN MCC "HWS"				VOLTAGE/PHASI						10	00A 22KA				X <u>MTG. IN MCC</u> ER BOLT-ON
	v	VATTAGE			S/N						VATTAGE		LOAD DESCRIPTION		
LOAD DESCRIPTION	LOAD DESCRIPTION ØA ØB		øC	CONDUIT	TRIP	TRIP CKT.		АВС		TRIP	CONDUIT	ØA			ØA ØB ØC
MCC ENCLOSURE - LIGHTS	200				20	1	+	$\square$	2	20	ſ				SPARE
MCC ENCLOSURE - FANS		300			20	3	$\mathbb{H}$	┝┼	4	20	2		720		CONVENIENCE OUTLETS
RECIRCULATION PS - OUTLETS			180	2	20	5		┼┿	6	20				1000	LCP-3 (PLC SYSTEM)
RECIRCULATION PS - SUMP PUMP	250			2	20	7	┝	$\vdash$	- 8	20					SPARE (FUTURE METER)
SPARE					20	9	$\vdash$	┥┼	10	20	2		200		DO TRANSMITTERS AIT-116 & 118
SPARE					20	11	$\mathbb{H}$	┼┿	12	20					SPARE
SPARE					20	13	]∔-	$\vdash$	14	20		900			AIR CONDITIONER $\langle 7 \rangle$
SPARE					20	15	$\vdash$	┥┼	16	20					SPARE
SPARE					20	17		┼┿	18	20					SPARE
SPARE					20	19	┝	$\square$	20	20					SPARE
SPARE					20	21	$\vdash$	┥┼	22	20					SPARE
SPARE					20	23	$\square$	┼┿	24	20					SPARE
SPARE					20	25	]∔-	$\vdash$	26	20					SPARE
SPACE					20	27	$\mathbb{H}$	┢┼╴	28	20					SPACE
SPACE					20	29	$\vdash$	┼┿	30	20					SPACE
SPACE					20	31	┝╋		32	20					SPACE
SUBTOTAL	450	300	180			-					-	900	920	1000	
						ΤΟΤΑ	L VA	=	3750			AMPE	RES =	10.	41 OD 208 V 3op

(A)	PANELBOARD LP-1
$\bigcirc$	SCALE: NTS

PANEL LP-1	_			VOLTAGE/PHASI	<u> </u>	120/2	2087	- 3	5ф				POLES	S _	X MTG. SURFACE	
LOCATION MAIN DISTRIBUTION "MDS	<b>n</b>			MAIN BREAKER	: _	225A			BU	S_2	25A 22KA		PANEL	BREAK	ER BOLT-ON	
	v	VATTAGE	E	WIRE				5/N			WIRE	٧	VATTAG	E		
LOAD DESCRIPTION	ØA	øB	øC	CONDUIT	TRIP	СКТ.		вс		. Tri	CONDUIT	ØA	øB	øC	LOAD DESCRIPTION	
ELECTRICAL RM - OUTLETS	360				20	1	┢	H	2	20		153			ELECTRICAL RM - LIGHTING	
OPS RM - OPERATOR PLUGMOLD		1080			20	3	$\vdash$	┥┤	- 4	20	1		341		OPS RM - LIGHTING	
OPS RM - BREAK AREA PLUGMOLD			1080		20	5	$\vdash$	┼┥	H 6	20				153	STORAGE RM - LIGHTING	
OPS RM - REFRIGERATOR	800				20	7	┝┿	+	- 8	20		102			OPS BLDG. EXT. LIGHTING	
OPS RM - BREAK AREA OUTLETS		720			20	9	$\vdash$	╋╢	10	20			1000		LCP-1 (PLC SYSTEM)	
OPS RM - OUTLETS			540		20	11	$\vdash$	┼┥	- 12	20				50	LIGHTING CONTROL PANEL	
OPS RM - TOILET OUTLETS	360				20	13	┝┿	+	- 14	20		560			SITE LIGHTING	
STORAGE RM - OUTLETS		720			20	15	$\vdash$	┥┤	- 16	$\mathcal{V}$	2		560			
EXHAUST FAN EF-1			528		20	17	$\vdash$	┼┥	- 18	40	4			2496	FAN COIL FC-1 AND CU-1	
EXHAUST FAN EF-2	696				20	19	┝┿	╉╋	20	$\mathcal{V}$	2	2496			FAN COL FC-1 AND CO-1	$\sim$
RECIRCULATION PUMP		28			20	21	$\vdash$	┥┤	22	20			200		FIRE ALARM CONTROL PANEL	⑧ 〉 ∧
EXIT LIGHTS			50		20	23	$\vdash$	┼┥	- 24	20				696	EXHAUST FAN EF-3	
REFRIGERATOR	800				20	25	┝┿	++	26	20		200			SECURITY CONTROL PANEL	
SEWER PUMP CONTROLLER		1380		2	20 /	27	$\vdash$	┥┤	28	60	5		4500		EMERGENCY GEN HEATER	
SEWER FUMF CONTROLLER			1380		/ 2	29	$\vdash$	┼┥	- 30	$\mathcal{V}$	2			4500	EMERGENCI GEN HEATER	
POTABLE SYSTEM UV CONTROL	500				20	31	┝┿	+	32	20	6	1440			BATTERY CHARGER	
POTABLE SYSTEM CONTROL PANEL		1500			20	33	$\vdash$	┥┤	34	20			500		WASTE DISPOSER	
OPS ROOM - OUTLETS			1080		20	35	$\vdash$	┼┥	- 36	20					SPARE	
SPARE					20	37	┝┿	+	- 38	20					SPARE	
SPARE					20	39	$\vdash$	┥┤	- 40	20					SPARE	
SPARE					20	41	$\mathbb{H}$	╆	42	20					SPARE	
SUBTOTAL	3516	5428	4658									4951	7101	7895		
						TOTA	L VA	+ =	3354	19		AMPE	RES =	93.	12 © 208 V 3¢	



(1) 2#12, #12 GND - 3/4"C (2) 2#10, #12 GND - 2"C (3) 2#8, #8 GND - 2"C (4) 2#8, #10 GND - 3/4"C (5) 2#4, #8 GND - 2"C (6) 2#10, #12 GND - IN SAME (7) USE TWO-POLE BREAKER IF

> ELECTRICAL PANELBOARD SCHEDULES

CITY OF GONZALES

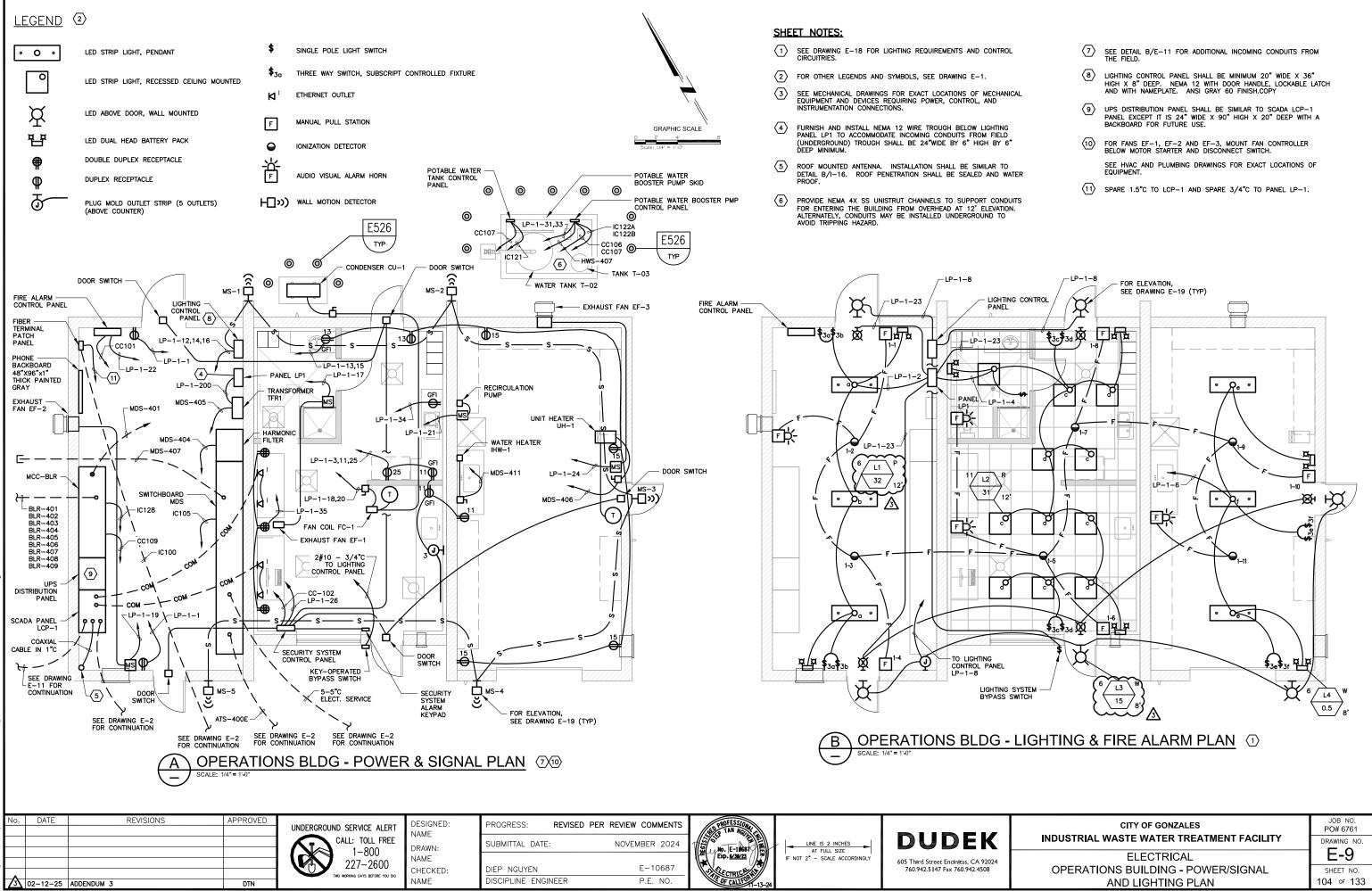


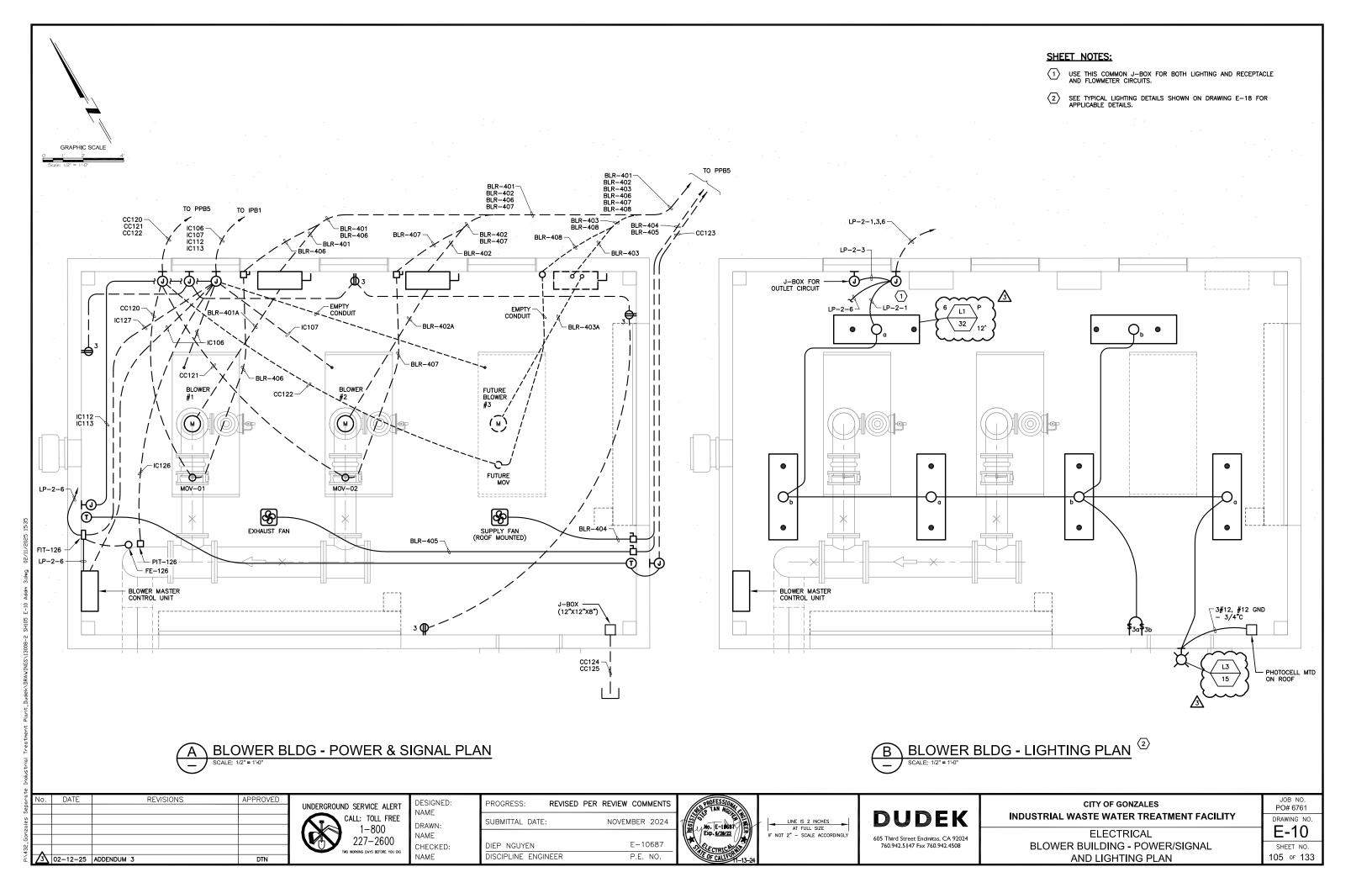
# C PANELBOARD LP-3

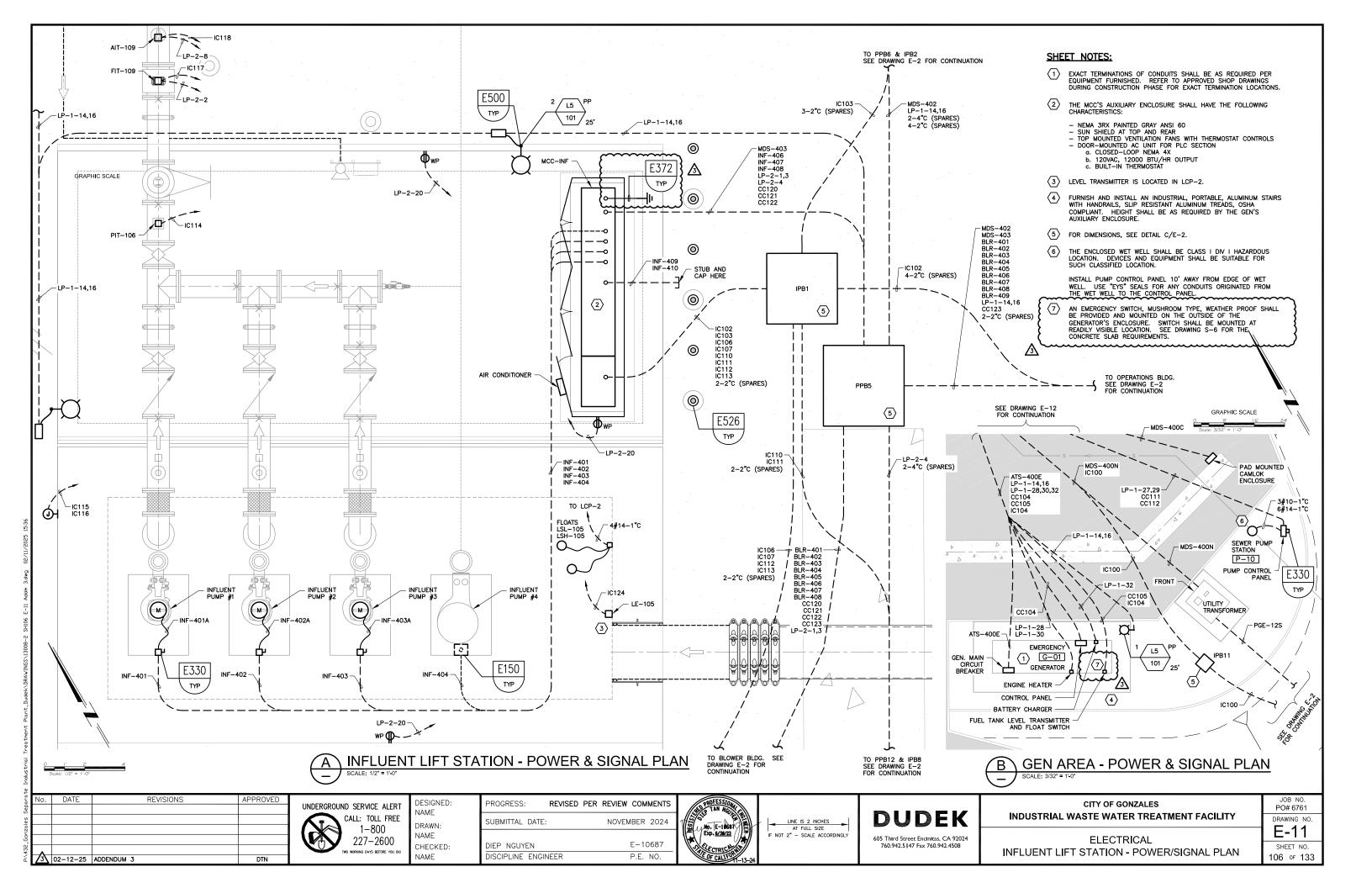
(6) 2#10, #12 GND - IN SAME CONDUIT WITH CIRCUIT 28, 30.
(7) USE TWO-POLE BREAKER IF AC UNIT IS RATED FOR 208V SINGLE-PHASE.
(8) THIS CIRCUIT BREAKER SHALL BE RED AND PROVIDED WITH MECHANISM SUCH THAT IT CAN BE PADLOCKED IN CLOSED POSITION.

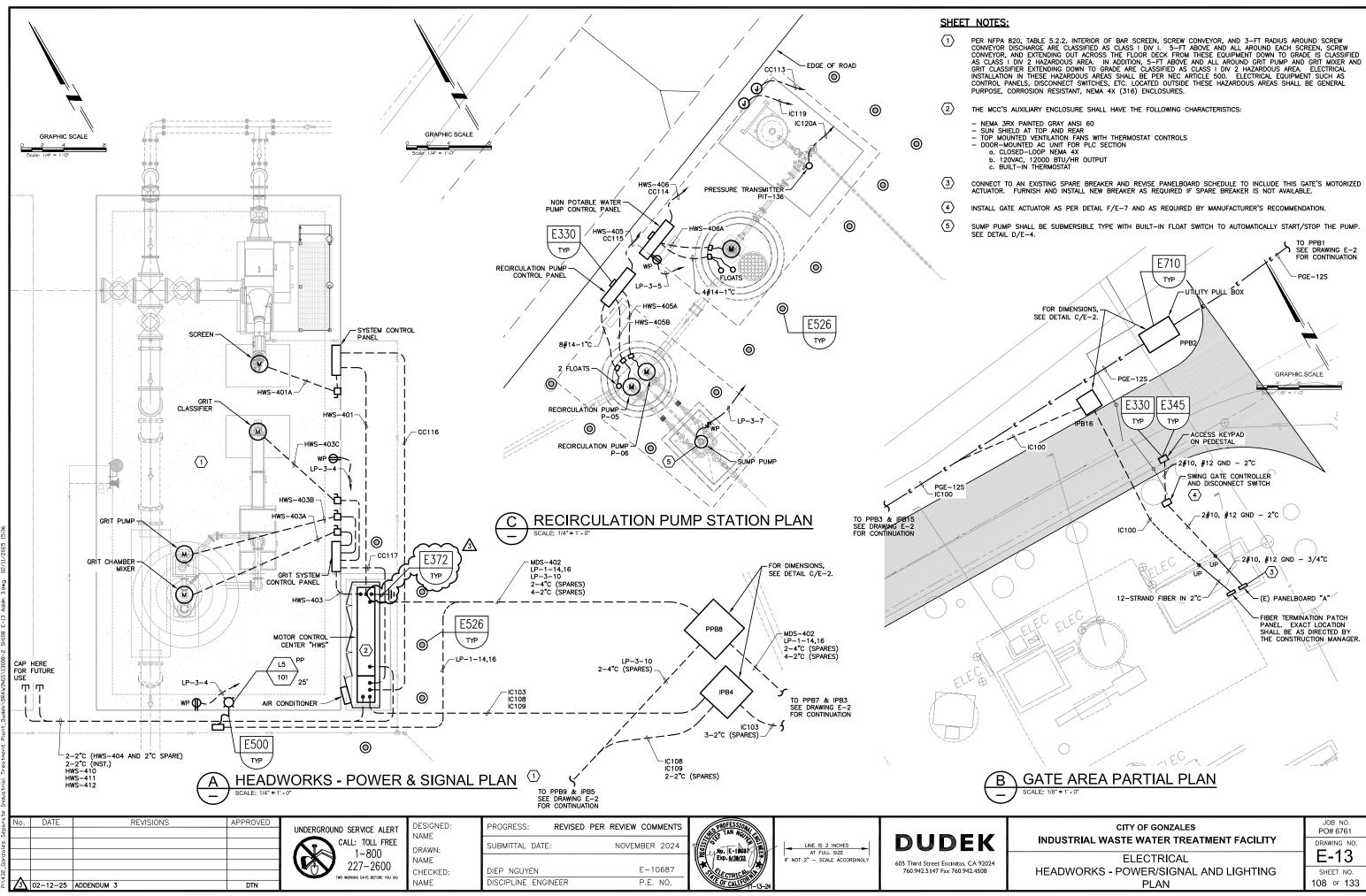
·····

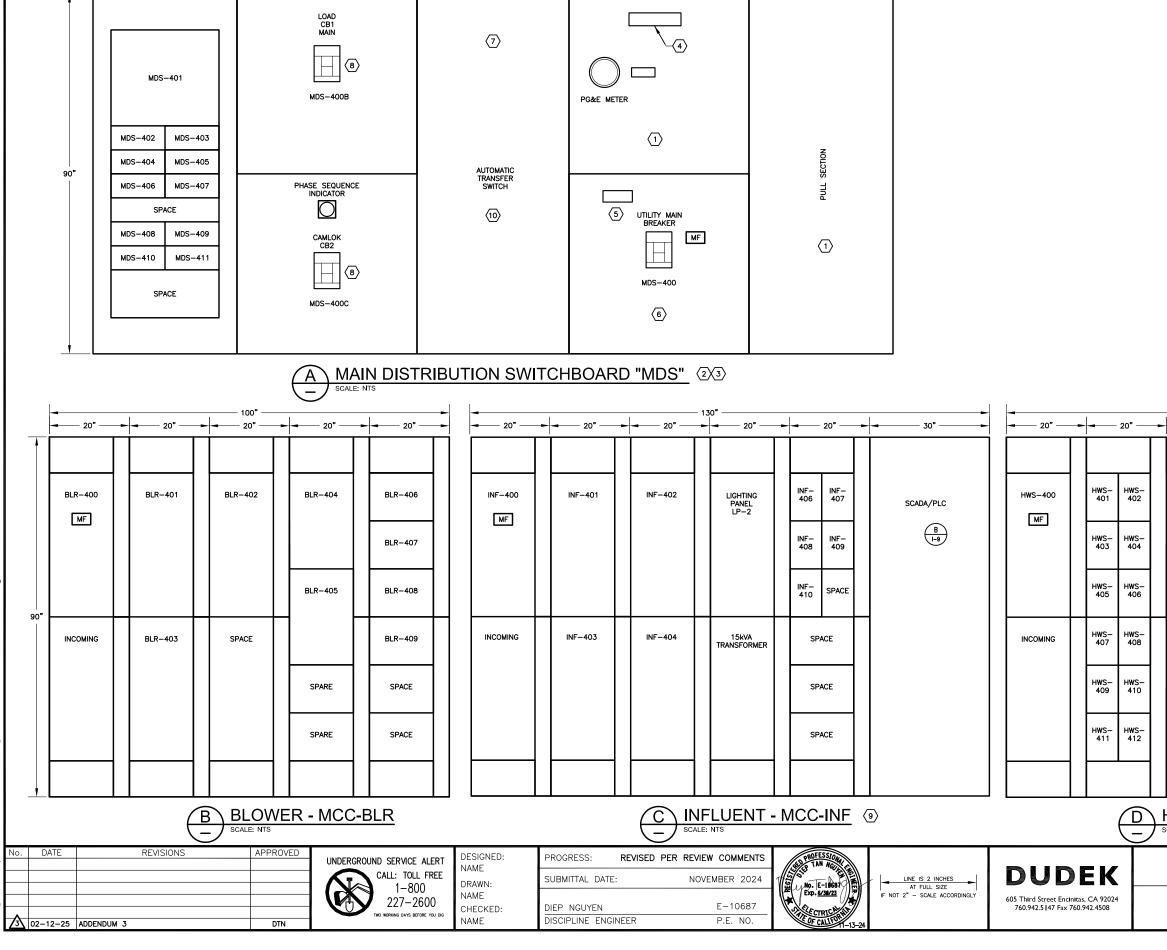
SHEET NOTES:











200"

38"

45"

36"

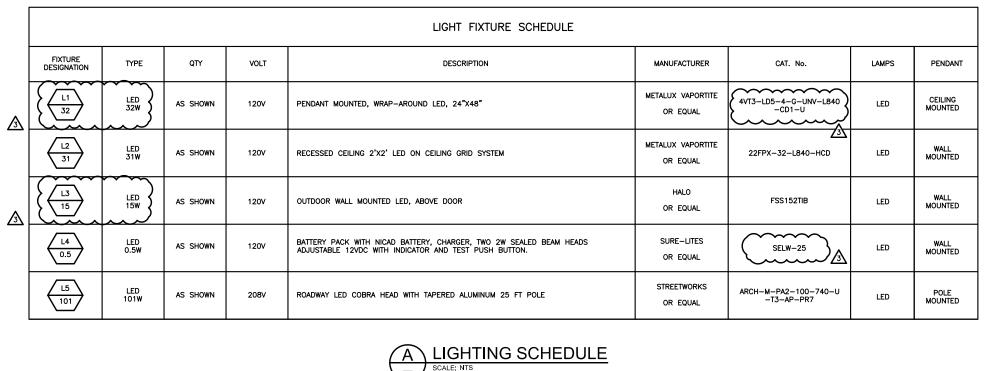
45"

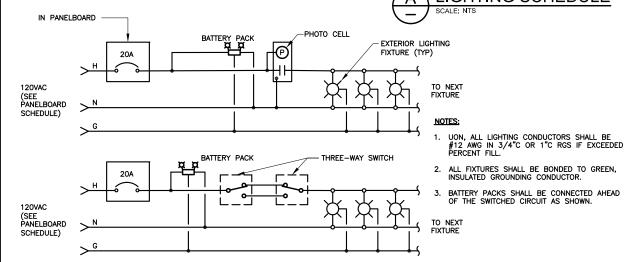
### SHEET NOTES:

$\langle 1 \rangle$	THIS PULL SECTION AND METERING SECTION SHALL COMPLY WITH PG&E GREEN BOOK AND APPLICABLE EURSERC STANDARDS.
2	THIS GENERAL LAYOUT DEPICTS LOCATION OF DEVICES SPECIFIED IN DIV 16 OF THE SPECIFICATIONS.
\$(	FINAL PHYSICAL CONFIGURATION SHALL BE AS PER THE APPROVED
3	SHOP DRAWINGS. PROVIDE CERTIFICATION FROM THE MANUFACTURER AND/OR SEISMIC CALCULATIONS FOR THE MCC SUITABLE FOR INSTALLATION AT THE PROJECT LOCATION.
4	MASTER NAMEPLATE "MAIN DISTRIBUTION SWITCHBOARD "MDS".
5	PROVIDE A NAMEPLATE "THIS SERVICE ENTRANCE GEAR IS SUPPORTED BY AN ONSITE GENERATOR LOCATED AT THE SOUTH SIDE OPERATIONS BUILDING." IN ACCORDANCE WITH NEC ARTICLE 700.
6	NEUTRAL GROUNDING DISCONNECT SHALL BE PROVIDED IN THIS SECTION OF THE LINEUP.
$\langle 7 \rangle$	SHORT CIRCUIT RATING (65KA) OF THE ATS SHALL BE CLEARLY SHOWN ON THE EXTERIOR OF THE ATS IN ACCORDANCE WITH NEC ARTICLE 700.
8	THESE TWO BREAKERS SHALL BE KEY INTERLOCKED SUCH THAT ONLY ONE BREAKER MAY BE CLOSED AT ANY ONE TIME.
(9	THIS MCC SHALL BE PROVIDED WITH AN OUTDOOR AUXILIARY NEMA 3RX ENCLOSURE. SEE RESPECTIVE SITE PLAN AND SPECS FOR SPECIFIC REQUIREMENTS FOR AUXILIARY ENCLOSURE.
	THE AUXILIARY ENCLOSURE SHALL BE PROVIDED WITH DOOR-MOUNTED AIR CONDITIONER. SEE NOTE 2 ON DRAWINGS E-13 FOR ADDITIONAL REQUIREMENTS.

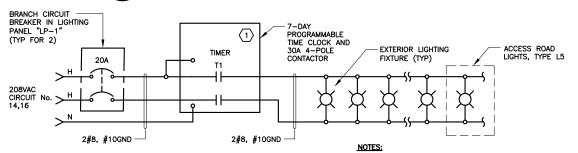
(10) PROVIDE IF NEEDED BUS TRANSITION SECTION FOR NO ADDITIONAL COST TO THE OWNER.

	- 13	i0" —					-
<del></del> 20"	-	20" —	-	20" —	-	30	"
SPACE		LIGHTING PANEL LP-3		SPARE		SCADA/	íplc
				SPARE		(	B  -9
SPACE				SPARE			
SPACE		15kVA TRANSFORMER		SPACE			
				SPACE			
SPACE				SPACE			
HEADWC	DF	RKS - MC	С	<u>-HWS</u> ()			
INDUSTRIAL	_ w	CITY OF GOI			FAG	CILITY	JOB NO. PO# 6761 DRAWING NO.
SWITC	HE	ELECTR BOARD ELE			ILS	6	E-17 SHEET NO. 112 OF 133







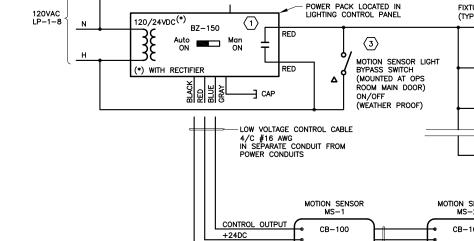


<u>C</u>

SCALE: NTS

1. TIMERS ARE LOCATED IN LIGHTING CONTROL PANEL.

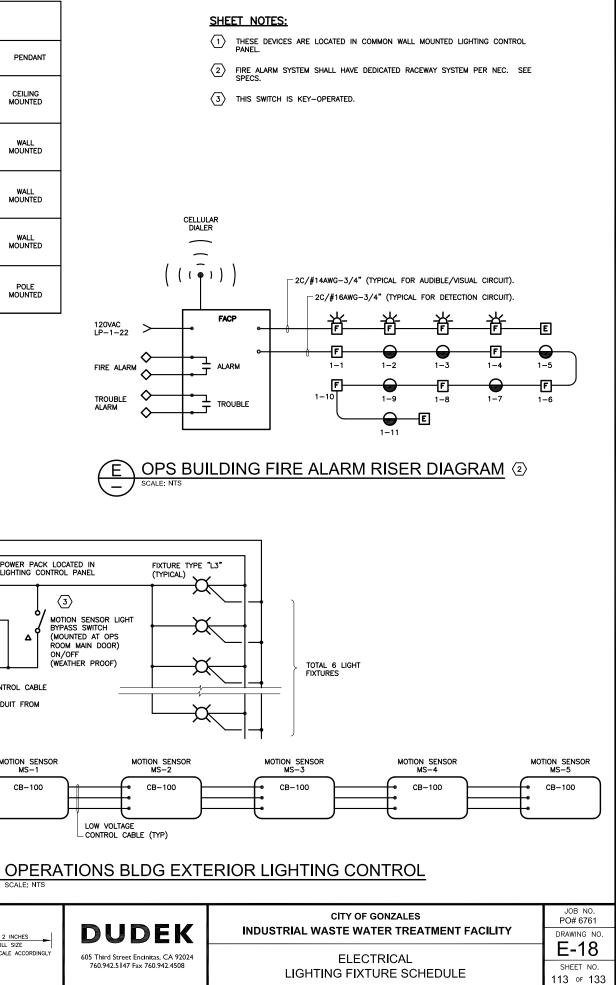




CONTROL RETURN

D

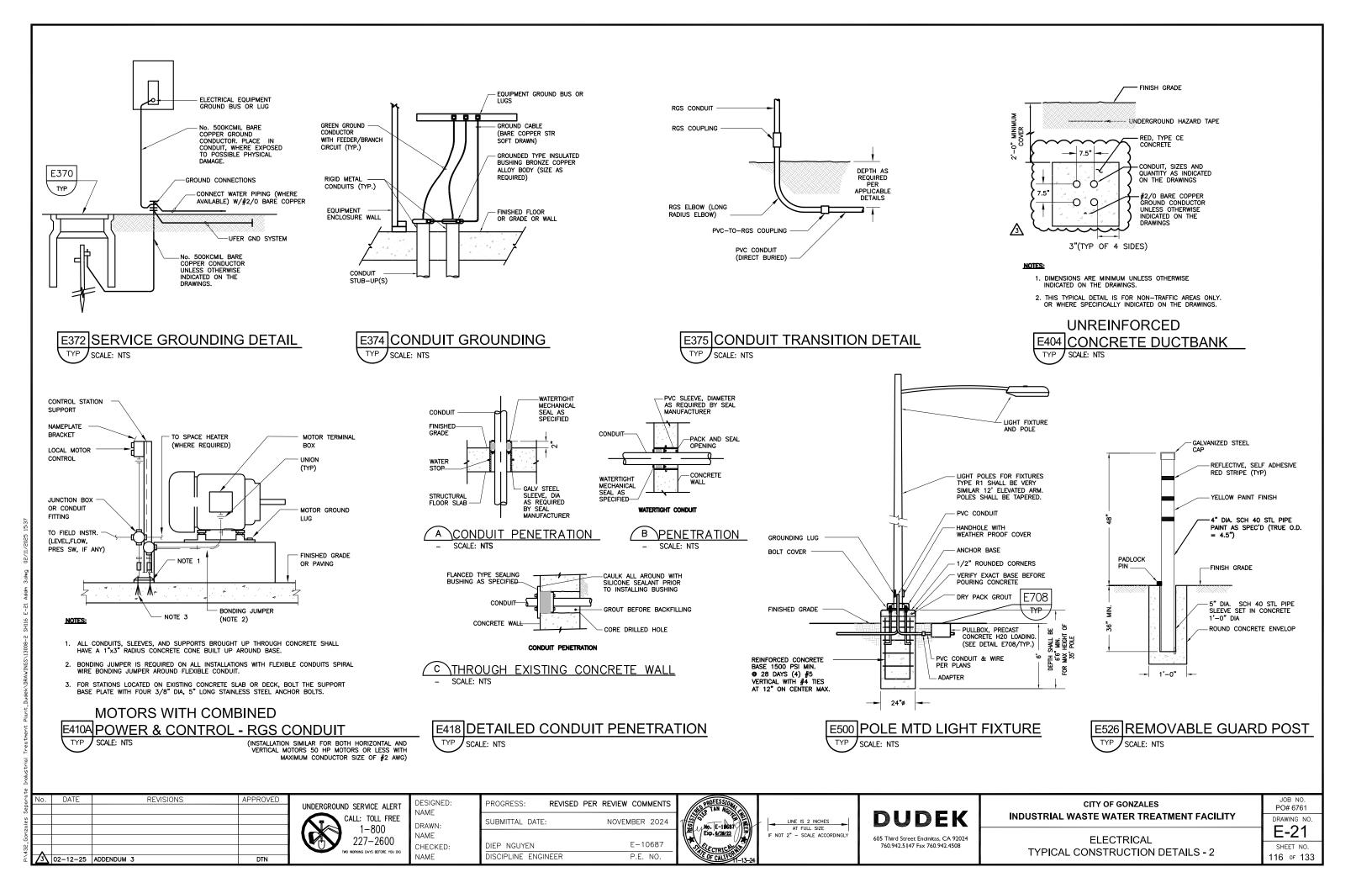
—

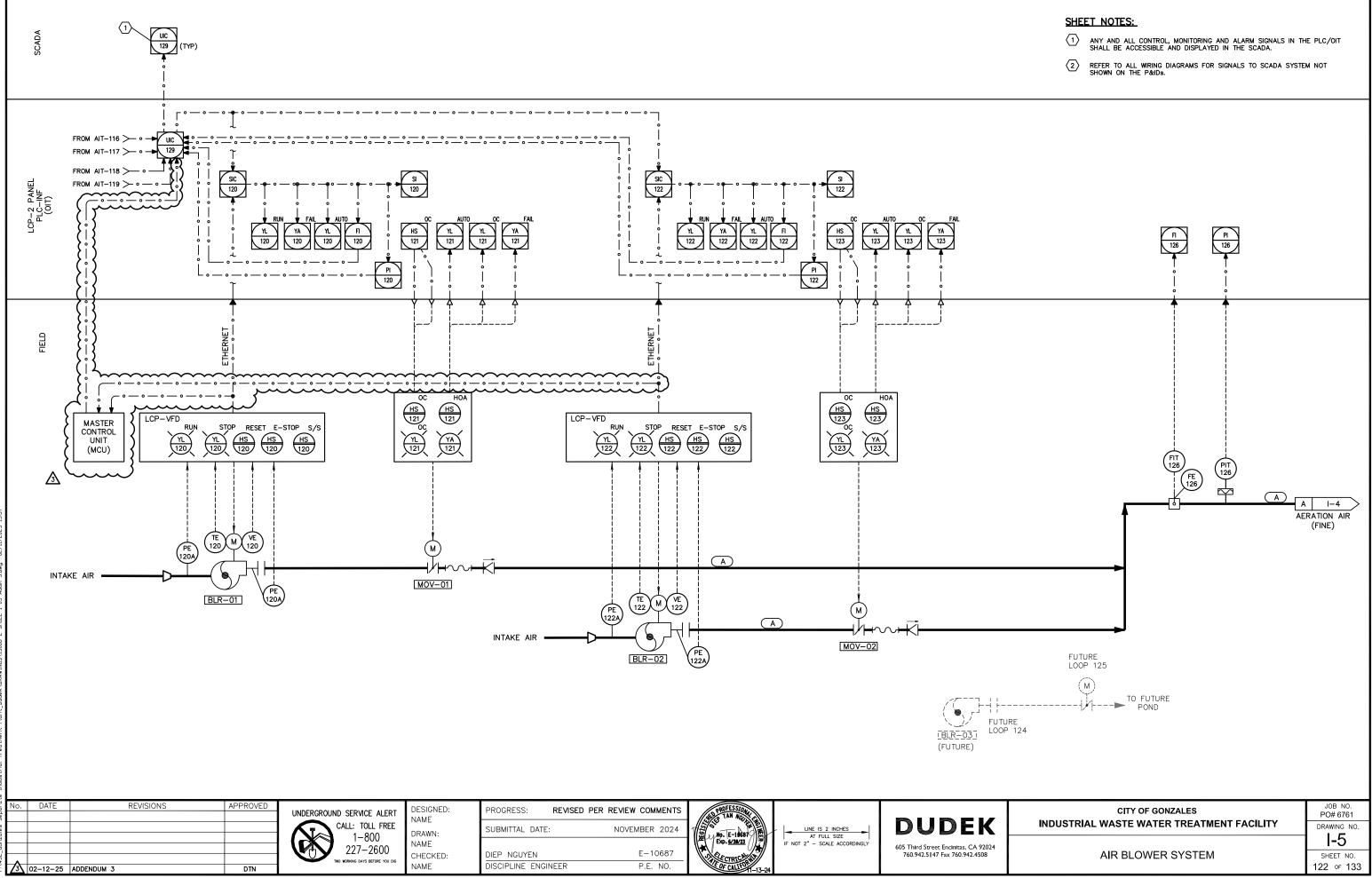


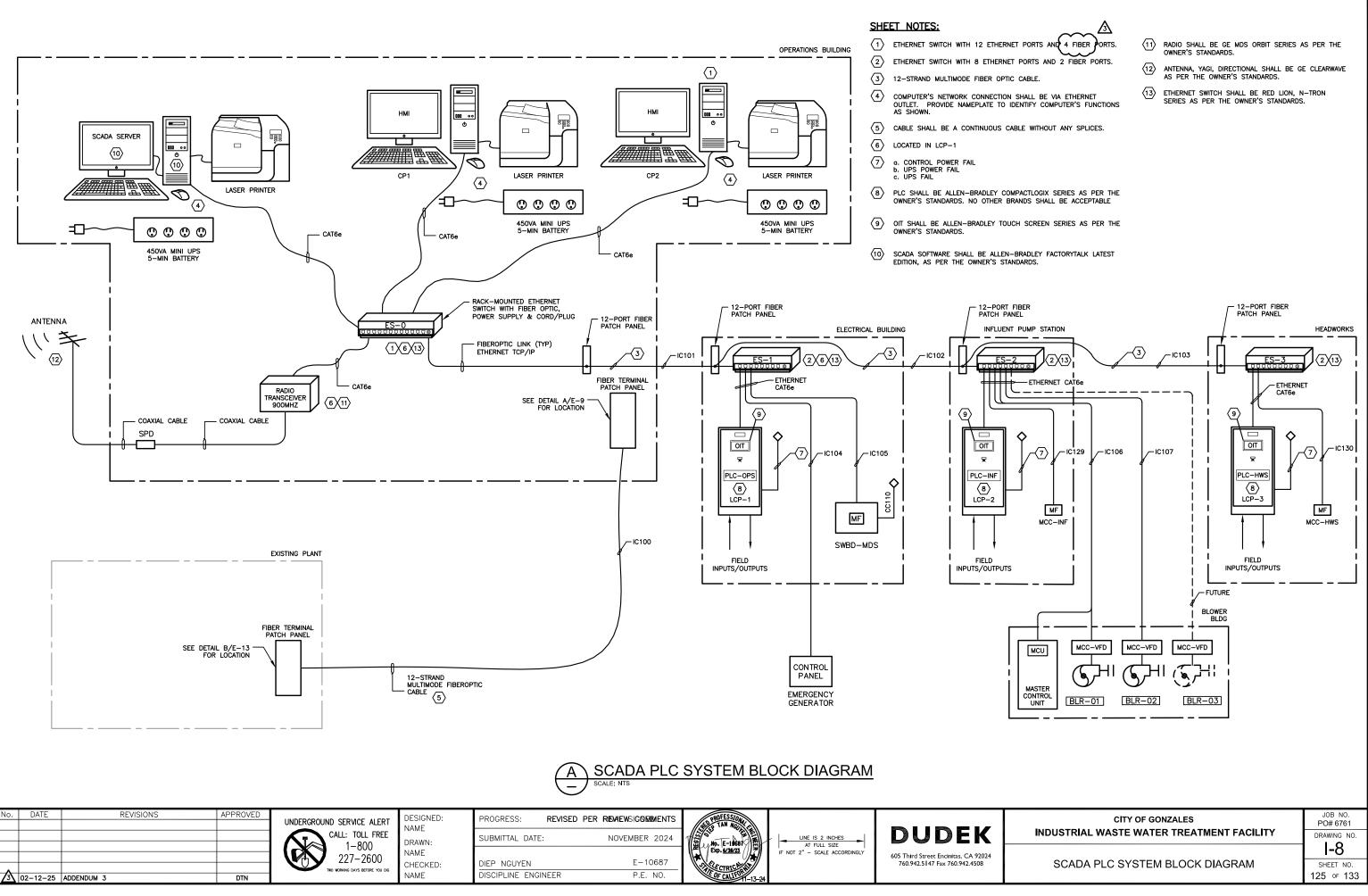


SCALE: NT

1-800 NAME ACCORDINGLY 605 Third	S Third Street Encinitas, CA 92024 760.942.5147 Fax 760.942.4508
----------------------------------	---------------------------------------------------------------------







Indoor Lighting				CALIFORNIA ENERG	
CERTIFICATE OF COMPLIANCE					NRCC-LTI-
nonresidential and hotel/motel occu		0.9, 110.12(c), 130.0, 130.1, 140.6 and 14 mpliance with requirements in 160.5, 170 r living facilities.			
Project Name: Gonzales Industrial V	WWTP Admin Bldg	Report Page:			(Page 1 of 7
Project Address:		500 Short Road Date Prepared:			2/10/202
A. GENERAL INFORMATION					
01 Project Location (city)	Gonzales	04 Total Conditio	ned Floor Area (ft ² )	1,560	
02 Climate Zone	12	05 Total Uncondi	tioned Floor Area (ft ² )	0	
03 Occupancy Types Within Project	t (select all that apply):	06 # of Stories (H	labitable Above Grade	) 1	
Office					
141.0(b)2 / 180.2(b)4 for alteration	s.				
	pe of Work	Conditioned Space		Unconditioned Spa	
Sco	pe of Work 01	02	03	04	05
Scor My Project Consist	pe of Work	02 Calculation Method	03 Area (ft²)	04 Calculation Method	05 Area (ft ² )
Scop My Project Consist	pe of Work 01 is of (check all that apply):	02	03	04	05
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply):	02 Calculation Method	03 Area (ft²)	04 Calculation Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (ft ² )
Sco My Project Consist New Lighting System New Lighting System - Parking	pe of Work 01 is of (check all that apply): g Garage	02 Calculation Method Area Category Method	03 Area (ft²)	04 Calculation Method Area Category Method	05 Area (f

 $\sim\sim$ 

 $\sim$ 

 $\sim \sim$ 

 $\sim$ 

 $\sim \sim$ 

 $\sim \sim$ 

state of california Indoor Lighting	S										CAL	LIFO	RNIA ENERGY COMMISSION	state of califor Indoor Lig	
CERTIFICATE OF COMP	LIANCE												NRCC-LTI-E	CERTIFICATE OF	COMPLIANCE
Project Name: Gor	zales Industrial	WWTP Admin B	ldg			Rep	ort Pa	ge:		_			(Page 2 of 7)	Project Name:	Gonzales Industrial WWT
						Date	e Prep	ared:					2/10/2025		
														F. INDOOR L	IGHTING FIXTURE SCHE
C. COMPLIANCE R	ESULTS													This table incl	udes all planned permane
If any cell on this tab	, i						er to			r 140	).6(a) / 170.2(e)				n Table T. If using Table T t
	Alic	wed Lighting	Power per 140	0.6(b) / 170.2(e	9) (W	atts)			(Watts)	1			Compliance Results	Designed Wat	ttage: Conditioned Spaces
Lighting in	01	02	03	04		05	1	06	07	T	08		09	01	02
conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)		=	Total Allowed (Watts)	2	Total Designed (Watts)	Adjustments PAF Lighting Control Credit 140.6(a)2 / 170.2(e)1B (-)	-5 =	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 140.6 / 170.2(e)	Name or Item Tag A R	Complete Luminaire Description LED Strip Pendant Lig LED Strip Recessed Lig
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)	1					
Conditioned		936	0			936	≥	512	0	=	512		COMPLIES		Design Watts for small ape makes this adjustment, th
Unconditioned							Þ			-				,	ving Jurisdiction may ask fi
								Contro	ols Compliance	(See	Table H for Deta	ils)	COMPLIES	luminaire, not	
						Ra	ted P	ower Reductio	on Compliance	(See	Table Q for Deta	ils)		10111110110,1100	and ramps
D. EXCEPTIONAL C															R LIGHTING SYSTEMS
This table is auto-fille							An h l	- +66+	4h = 6= ===					This section de	oes not apply to this proje
This table is auto-jill	ea with unearti	able comments	s because of se	ections made	ora	ata enterea m	table	s throughout	the jorm.						
														H. INDOOR I	LIGHTING CONTROLS (N
E. ADDITIONAL RE	MARKS													This table incl	udes lighting controls for a
This table includes re	marks made b	y the permit a	pplicant to the	Authority Hav	ing J	urisdiction.								Building Leve	
															C
															Mandatory Demand
															Required >= 4,000W
						Generated Da	ate/Ti	me:			Do	ocum	entation Software: EnergyPro		
CA Building Energy Eff	iciency Standard	ds - 2022 Nonre	sidential Compli	ance		Report Versio Schema Versi							D: EnergyPro-5581-0225-2136 nerated: 2025-02-10 09:37:57	CA Building En	ergy Efficiency Standards - 20

STATE OF CALIFORNIA							STATE OF CALIFORNIA			STATE OF CALIFORNIA
Indoor Lighting					CALIFOR	RNIA ENERGY COMMISSION	Indoor Lighting		CALIFORNIA ENERGY COMMISSION	Indoor Lighting
CERTIFICATE OF COMPLIANCE						NRCC-LTI-E			NRCC-LTI-E	CERTIFICATE OF COMPLIANCE
Project Name: Gonzales In	ndustrial WWTP Admin Bldg	Repo	t Page:			(Page 4 of 7)	Project Name: Gonzales Industrial WWTP Admin Bldg	Report Page:	(Page 5 of 7)	Project Name: Gonzales Ind
		Date	Prepared:			2/10/2025		Date Prepared:	2/10/2025	
H. INDOOR LIGHTING CO	ONTROLS (Not including PAFs)									S. DAYLIGHT DESIGN POW
Area Level Controls							K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			
04	05 06	07	08	09 10	0 11	12	This section does not apply to this project.			This section does not apply to
	Complete Building or Area Contro		Shut-Off Controls	lit Davlig	hdary Interlocked	d Field Inspector	L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			T. DWELLING UNIT LIGHTI
Area Description	Category Primary Function 130 1/a		130.1(c) // 160.5(b)4C		(d) / 140.6(a)1/		This section does not apply to this project.			This section does not apply to
	Area 160.5(b)	4A 160.5(b)4B	160.5(b)4C	160.5(b)4D 160.5(	(b)4D 170.2(e)2A	A Pass Fail				
Admin	Office (>250 square feet)		See Building Level	NA: Rm < NA: R			M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIG	GHTING		U. DECLARATION OF REQU
	Accessit	le Ltg <= 0.5W/SF		24sf Glazing 24sf G	Ÿ		This section does not apply to this project.			Selections have been made b
					13					Additional Remarks. These de
				Plan	Sheet Showing D	Daylit Zones:	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL	L EFFECTS		
							This section does not apply to this project.			NRCI-LTI-E - Must be submitt
LUGHTING POWER ALLO	OWANCE: COMPLETE BUILDING OR AREA C	ATEGORY METHODS								
	OWANCE: COMPLETE BUILDING OR AREA C the Complete Building or Area Category Method			olumn 06 indicates if a	ditional liahtina	power allowances per	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERC	CHANDISE		V. DECLARATION OF REQU
	the Complete Building or Area Category Method			olumn 06 indicates if ac	lditional lighting į	power allowances per	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCE This section does not apply to this project.	CHANDISE		Selections have been made b
Each area complying using	the Complete Building or Area Category Method			olumn 06 indicates if ac	lditional lighting ‡	power allowances per		CHANDISE		Selections have been made b Additional Remarks. These de
Each area complying using 140.6(c) or adjustments per	the Complete Building or Area Category Method r 140.6(a) are being used . 02	s per 140.6(b) are inclu	ided in this table. Co	05		06				Selections have been made b
Each area complying using 140.6(c) or adjustments per Conditioned Spaces	the Complete Building or Area Category Method r 140.6(a) are being used . 02 Complete Building or Area Categor	s per 140.6(b) are inclusion of the second sec	3 04 Density	05 +21 Allowed Watt	age Additiona	06 al Allowance / Adjustment	This section does not apply to this project.			Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using a 140.6(c) or adjustments per Conditioned Spaces	the Complete Building or Area Category Method r 140.6(a) are being used . 02 Complete Building or Area Categor Function Area	y Primary Allowed (W,	3 04 Density	t ² ) Allowed Watt (Watts)		06 al Allowance / Adjustment tegory PAF	This section does not apply to this project.  P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMI			Selections have been made b Additional Remarks. These de
Each area complying using i 140.6(c) or adjustments per Conditioned Spaces 01 Area Description	the Complete Building or Area Category Method r 140.6(a) are being used . 02 Complete Building or Area Categor	y Primary Allowed (W,	13 04 Density /ft ² )	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cate No	06 al Allowance / Adjustment tegory PAF	This section does not apply to this project.  P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMI	IENT FACTOR (PAF))		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using i 140.6(c) or adjustments per Conditioned Spaces 01 Area Description	the Complete Building or Area Category Method r 140.6(a) are being used . 02 Complete Building or Area Categor Function Area	y Primary Allowed (W,	Image: state of the s	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cate No	06 al Allowance / Adjustment tegory PAF D No	This section does not apply to this project.           POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT)           This section does not apply to this project.	IENT FACTOR (PAF))		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using 140.6(c) or adjustments per Conditioned Spaces 01 Area Description Office	the Complete Building or Area Category Method r 140.6(a) are being used . 02 Complete Building or Area Categor Function Area	y Primary Allowed (W) Allowed (W) Allowed (W)	13 04 Density 16 1,560 TOTALS: 1,560	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cate No	06 al Allowance / Adjustment tegory PAF D No	This section does not apply to this project.  P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT) This section does not apply to this project.  Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERAT	IENT FACTOR (PAF))		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using 140.6(c) or adjustments per Conditioned Spaces 01 Area Description Office	the Complete Building or Area Category Method 140.6(a) are being used . 02 Complete Building or Area Catego Function Area Office (>250 square feet NCE: AREA CATEGORY METHOD QUALIFYIN	y Primary Allowed (W) Allowed (W) Allowed (W)	13 04 Density 16 1,560 TOTALS: 1,560	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cate No	06 al Allowance / Adjustment tegory PAF D No	This section does not apply to this project.  P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT) This section does not apply to this project.  Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERAT	IENT FACTOR (PAF)) TIONS		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using 140.6(c) or adjustments per Conditioned Spaces 01 Area Description Office	the Complete Building or Area Category Method 140.6(a) are being used . 02 Complete Building or Area Catego Function Area Office (>250 square feet NCE: AREA CATEGORY METHOD QUALIFYIN	y Primary Allowed (W) Allowed (W) Allowed (W)	13 04 Density 16 1,560 TOTALS: 1,560	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cate No	06 al Allowance / Adjustment tegory PAF D No	This section does not apply to this project.  P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTME This section does not apply to this project.  Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERAT This section does not apply to this project.  -	IENT FACTOR (PAF)) TIONS		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using 140.6(c) or adjustments per Conditioned Spaces 01 Area Description Office	the Complete Building or Area Category Method 140.6(a) are being used . 02 Complete Building or Area Catego Function Area Office (>250 square feet NCE: AREA CATEGORY METHOD QUALIFYIN	s per 140.6(b) are inclosed y Primary Allowee (W, G LIGHTING SYSTEM	a         04           B         04           Density         Area (fr           6         1,560           TOTALS:         1,560	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cation No See Tr	06 al Allowance / Adjustment tegory PAF No No Tables J, or P for detail	This section does not apply to this project.          P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMI This section does not apply to this project.         Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERAT This section does not apply to this project.         R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTION	IENT FACTOR (PAF)) TIONS		Selections have been made b Additional Remarks. These d Test Technician Certification :
Each area complying using 140.6(c) or adjustments per Conditioned Spaces 01 Area Description Office	the Complete Building or Area Category Method 140.6(a) are being used . 02 Complete Building or Area Catego Function Area Office (>250 square feet NCE: AREA CATEGORY METHOD QUALIFYIN	y Primary Allowed (W) Allowed (W) Allowed (W)	a         04           B         04           Density         Area (fr           6         1,560           TOTALS:         1,560	05 t ² } Allowed Watt (Watts) 0 936	age Additiona Area Cat No See Tr	06 al Allowance / Adjustment tegory PAF D No	This section does not apply to this project.          P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMI This section does not apply to this project.         Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERAT This section does not apply to this project.         R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTION	IENT FACTOR (PAF)) TIONS	Documentation Software: EnergyPro	Selections have been made b Additional Remarks. These d Test Technician Certification :

			_
STATE OF CALIFORNIA			STATE OF CALIFORNIA
		CALIFORNIA ENERGY COMMISSION	Indoor Lighting
CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTI-E	CERTIFICATE OF COMPLIANCE
Project Name: Gonzales Industrial WWTP Admin Bldg	Report Page:	(Page 5 of 7)	Project Name: Gonzales Industrial WW
	Date Prepared:	2/10/2025	
			S. DAYLIGHT DESIGN POWER ADJU
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			
This section does not apply to this project.			This section does not apply to this proj
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			T. DWELLING UNIT LIGHTING
This section does not apply to this project.			This section does not apply to this proj
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK	LIGHTING		U. DECLARATION OF REQUIRED CE
This section does not apply to this project.			Selections have been made based on it
The sector deep for apply to the project			Additional Remarks. These documents
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPE	CIAL EFFECTS		NRCI-LTI-E - Must be submitted for all
This section does not apply to this project.			Michelle - Must be submitted for an
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE N	IERCHANDISE		V. DECLARATION OF REQUIRED CE
This section does not apply to this project.			Selections have been made based on in Additional Remarks. These documents
			Test Technician Certification Provider (
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST	TMENT FACTOR (PAF))		
This section does not apply to this project.			
			NRCA-LTI-04-A - Must be submitted fo
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTE	RATIONS		
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPT	IONS		
This section does not apply to this project.			
int apply to the project			
	Generated Date/Time:	Documentation Software: EnergyPro	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-5581-0225-2136	CA Building Energy Efficiency Standards -
	Schema Version: rev 20220101	Report Generated: 2025-02-10 09:37:57	

N	o. DATE	REVISIONS	APPROVED	UNDERGROUND SERVICE ALERI	DESIGNED:	PROGRESS:	FINAL SIGNED	AND TAN ACTION			
				CALL: TOLL FREE	NAME DRAWN:	SUBMITTAL DATE:	NOVEMBER 2024	No. E-16687	AT FULL SIZE	DUDEK	
				227-2600	NAME CHECKED:	DIEP NGUYEN	E-10687	Exp. <u>6/38/23</u>	IF NOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024 760.942.5 147 Fax 760.942.4508	
	3 02-12-25		DTN	TWO WORKING DAYS BEFORE YOU DIG	NAME	DISCIPLINE ENGINEER	P.E. NO.	OF CALLED 13-24			

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
CALIFORNIA ENERGY COMMISSION NRCC4114 I, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for is in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive	STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE Project Name: Gonzales Industrial WWTP Admin Bidg Report Page: (Page 2 of 7) Date Prepared: 2/10/2025	STATE OF CALIFORMA Indoor Lighting (CERTIFICATE OF COMPI Project Name: Gon;		GY COMMISSION NRCC-LTI-E (Page 3 of 7) 2/10/2025
ge: (Page 1 of 7) arred: 2/10/2025 Total Conditioned Floor Area (ft ²) 1.560 Total Unconditioned Floor Area (ft ²) 0 # of Stories (Habitable Above Grade) 1 monstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or mitioned Spaces Unconditioned Spaces Intho Area (ft ²) Calculation Method Area (ft ²) Method Area (ft ²) Calculation Method 0	C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLU" or "COMPLUEs with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per 140.6(j) / 170.2(e) Adjusted Lighting Power per 140.6(j) / 170.2(e) Compliance Results Lighting in conditioned and conditioned spaces must not be compliance per 140.6(c)1 01 02 03 04 05 4djusted Lighting Power per 140.6(j) / 170.2(e) 08 09 140.6(c)1 Category 140.6(c)1 Category 140.6(c)1 Table D. for guidance. Total Adjustments 08 09 09 140.6(c)1 Category 140.6(c)1 Table D. for guidance. Total Adjustments 08 09 09 140.6(c)1 See Table I) See Table I) Total Adjustments (Watts) Total Adjustment (Watts) Total Adjustment (Watts) 05 05 05 04 05 05 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 <td< td=""><td>This table includes all documented in Table Int Included here. Designed Wattage: C 01 Name or Item C Tag A LEE R LEE ^IFOOTNOTE: Design V automatically makes</td><td>02 03 04 05 06 07 08 09 omplete Luminaire Description Mdular (Track) Fixture (Color Change) Small Aperture & Color Change) Watts per Juminaire² How is Wattage determined Total Number determined Total Sumpt 170.2 (a)2. Design Watts 170.2 (a)2. Strip Pendant Light No NA 32 Mfr. Spec 6 No 192 Image: Strip Recessed Light No NA 32 Mfr. Spec 10 No 32.0 Image: Strip Recessed Light Strip Recessed Light Strip Recessed Light No 32.0 Image: Strip Recessed Light Strip Recessed Light No 32.0 Image: Strip Recessed Light Strip Recessed Light Recessed Light Recessed Light Recessed Light R</td><td>Iuminaires are</td></td<>	This table includes all documented in Table Int Included here. Designed Wattage: C 01 Name or Item C Tag A LEE R LEE ^I FOOTNOTE: Design V automatically makes	02 03 04 05 06 07 08 09 omplete Luminaire Description Mdular (Track) Fixture (Color Change) Small Aperture & Color Change) Watts per Juminaire ² How is Wattage determined Total Number determined Total Sumpt 170.2 (a)2. Design Watts 170.2 (a)2. Strip Pendant Light No NA 32 Mfr. Spec 6 No 192 Image: Strip Recessed Light No NA 32 Mfr. Spec 10 No 32.0 Image: Strip Recessed Light Strip Recessed Light Strip Recessed Light No 32.0 Image: Strip Recessed Light Strip Recessed Light No 32.0 Image: Strip Recessed Light Strip Recessed Light Recessed Light Recessed Light Recessed Light R	Iuminaires are
1560 0	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	This table includes lig Building Level Contro N	apply to this project. GCONTROLS (Not including PAFs) hting controls for conditioned and unconditioned spaces. bs 01 02 02	
me: Documentation Software: EnergyPro 22.0.000 Compliance ID: EnergyPro-5581-0225-2136 vr 20220101 Report Generated: 2025-02.10 09:37:57	Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance 1D: EnergyPro-5581-0225-2136 Schema Version: rev 20220101 Report Generated: 2025-00.0037/57 Report Version: 20220.001	CA Building Energy Effi	Generated Date/Time: Documentation Soft ciency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro- Schema Version: rev 20220101 Report Generated: 222	-5581-0225-2136
CALIFORNIA ENERGY COMMISSION NRCC11FE 1ge: (Page 4 of 7) pared: 2/10/2025	STATE OF CALIFORMA Indoor Lighting CALIFORNIA ENERGY COMMISSION CRRIFICATE OF COMPLIANCE NRCC-LT-L Project Name: Gonzales Industrial WWTP Admin Bidg Report Page: (Page 5 of 7) Date Prepared: 2/10/2025	STATE OF CALFORMA Indoor Lighting CERTIFICATE OF COMP Project Name: Gon		GY COMMISSION NRCC-TI-E (Page 6 of 7) 2/10/2025
08 09 10 11 12 Primary/Sky	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.	S. DAYLIGHT DESIG This section does not	N POWER ADJUSTMENT FACTOR (PAF) apply to this project.	
Interformer Secondary Interfocked 130.1(c) // Daylgithing Systems Field Inspector 130.1(c) // 130.1(d) // 140.6(a)1/ 140.6(a)1/ 160.5(b)4C 150.5(b)4C 170.2(e)2A Pass	L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.	T. DWELLING UNIT This section does not		
ee Building Level 24sf Glazing	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project.	Selections have been Additional Remarks. 1	Index back of information provided in this document. If any selections have been changed by permit applicant, an explanation should be included These documents must be provided to the building inspector during construction and can be found online Form/Title	l in Table E.
l in this table. Column 06 indicates if additional lighting power allowances per	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.	Selections have been Additional Remarks.	F REQUIRED CERTIFICATES OF ACCEPTANCE made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be inclu These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an cation Provide (INTO). For more information visit in they //www.energy.cag.vd/tite3/utclutcs/providers.thrll	
04 05 06 nsity Area (ft ²) Allowed Wattage Additional Allowance / Adjustment 1,560 936 No No TALS: 1,560 936 See Tables J, or P for detail	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project. Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS		Form/Title Systems/Spa	aces To Be Field erified ng Demand
	This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.			
me: Documentation Software: EnergyPro 22.0.000 Compliance ID: EnergyPro-5581-0225-2136 w 20220101 Report Generated: 2025-02-10 09:37:57	Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5581-0225-2136 Schema Version: rev 20220101 Report Generated: 2025-02-10 09:37:57	CA Building Energy Effi	Generated Date/Time: Documentation Soft ciency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro- Schema Version: rev 20220101 Report Generated; 2021	-5581-0225-2136
				۔۔۔۔۔ گ
UNDERGROUND SERVICE ALERT DESIGNED: CALL: TOLL FREE	PROGRESS: FINAL SIGNED	DUDEK	CITY OF GONZALES INDUSTRIAL WASTE WATER TREATMENT FACILITY	JOB NO. PO# 6761 DRAWING NO.
1-800 227-2600 TWO WORKING DAYS BEFORE YOU DIG DRAWN: NAME CHECKED: NAME	DIEP NGUYEN E-10687 DISCIPLINE ENGINEER P.E. NO.	605 Third Street Encinitas, CA 92024 760.942.5 [47 Fax 760.942.4508	ADMIN BUILDING ENERGY CALCULATION FORMS	ECF-1 SHEET NO. 134 OF 139
N NAME				134 0 139

~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~
STATE OF CALIFORNIA Indoor Lighting Certificate of compliance				NRCC-LTI-E	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE			CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	STATE OF CALIFORNIA Outdoor Lightin Certificate of compli	ANCE	RNIA ENERGY COMMISSION NRCC-LTO-E
Project Name: Gonzales Inde Project Address:		Report Page: rt Road Date Prepared:		age 7 of 7) 2/10/2025	nonresidential and hotel/motel occupancie	mpliance with requirements in 110.9, 130.0, 130.2, 140.7, a fes. It is also used to document compliance with requirement mixed-use occupancies. Multifamily includes dormitory and Admin Bldg Report 9 500 Short Road Date Pre	nts in 160.5, 170.2(e)6, 180.1(a) and 180.2(. I senior living facilities. Page:	sing the prescriptive path for bJ4Bv for outdoor lighting scopes using (Page 1 of 7) 2/10/2025	Project Name: Gonza	les Industrial WWTP Admin Bidg Report Page: Date Prepared:	(Page 2 of 7) 2/10/2025
	ate of Compliance documentation is accurate and co	Signature Date: 2025-02-10	ture: Bold M		A. GENERAL INFORMATION 01 Project Location (dity) 02 Climate Zone	Gonzales 04 To	otal Illuminated Hardscape Area (ft ² )		to Table D. Exceptional	ULTS         Comparison           automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "CCMPUES with Exconditions for guidance or see applicable Table referenced below.         Compliance Re           of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e) for 141.0(b)21 / 180.2(b)48v         Compliance Re           02         03         04         05         06         07         08	
Address: 4480 Main St Suite B City/State/Zip: Riverside CA 92501 RESPONSIBLE PERSON'S D	DECLARATION STATEMENT	CEA/ HERS Certification Ident Phone: 202-870-7813	rfication (if applicable):		LZ-0: Very Low - Undeveloped Parkla     LZ-1: Low - Rural Areas     O5 Occupancy Types within Project	art 1 10.114 or as designated by Authority Having Jurisdicti       Image: Instant State		Commission for Approval	General Hardscape Allowance 140.7(d)1 / 170.2(e)6	Per pplication         Sales         Ornamental 140.7(d)2/         Per Specific Anaretal         Existing Power         Down         Total Act Allowance         E           170.2(e)6         140.7(d)2/         170.2(e)6         110.7(d)2/         170.2(e)6         180.2(b)4/b         E         Total Act (Watts)         ≥         Total Act (Watts)	ctual 07 must be >= 08
The information provide     I am eligible under Divis     The energy features and     of Title 24, Part 1 and Pa     The building design feat	Part 6 of the California Code of Regulations.	d devices for the building design or sys	lentified on this Certificate of Compliance (responsible designer) tem design identified on this Certificate of Compliance conform to the req n provided on other applicable compliance documents, worksheets, calcula			ns that are within the scope of the permit application and a	are demonstrating compliance using the pre	escriptive path outlined in 140.7/	(See Table 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	received over more of the over more over the over the over the over more over the o	COMPLIES N/A COMPLIES
5. I will ensure that a comp		able with the building permit(s) issued	for the building, and made available to the enforcement agency for all app tation the builder provides to the building owner at occupancy.	plicable	170.2(e)5 or 141.0(b)2L / 180.2(b)48v for of My Project Consists of: 01 New Lighting System Altered Lighting System	Alterations. Must Comply with Allowances from 14 Is your alteration increasing the conne		Yes No		with uneditable comments because of selections made or data entered in tables throughout the form.	
Adress: 1313 North Milpitas Blvd Suit City/State/Zip: Milpitas CA 95035	vite 100	Ucense: E-10687 Phone: 408-262-0441				04 Altered ¹ Sum Total of Luminaires Being	g Added or Altered	05 Calculation Method of the Permit Application) x 100.	E. ADDITIONAL REM This table includes rem	ARKS arks made by the permit applicant to the Authority Having Jurisdiction.	
CA Building Energy Efficiency St	Standards - 2022 Nonresidential Compliance R	ienerated Date/Time: eport Version: 2022.0.000 chema Version: rev 20220101	Documentation Software: El Compliance ID: EnergyPro-5581-02 Report Generated: 2025-02-10	225-2136	CA Building Energy Efficiency Standards - 2022	Generated Date/1 2 Nonresidential Compliance Report Version: 2 Schema Version: r	022.0.000	Documentation Software: EnergyPro Compliance ID: EnergyPro-5581-0225-2135 Report Generated: 2025-02-10 09:37:57	CA Building Energy Effici	ency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID	nentation Software: EnergyPro D: EnergyPro-5581-0225-2135 nerated: 2025-02-10 09:37:57
STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Gonzales Indi F. OUTDOOR LIGHTING FI)	dustrial WWTP Admin Bidg	Report Page: Date Prepared:	(Pa	MMISSION RCC-LTO-E age 3 of 7) 2/7/2025	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Gonzales Industrial WWTP / H. OUTDOOR LIGHTING CONTROLS	Admin Bidg Report P Date Pre		CALIFORNIA ENERGY COMMISSION NRCC-LTO-E (Page 4 of 7) 2/7/2025			NRCC-L1 (Page 5 d
Outdoor Lighting CERTIFICATE OF COMPLIANCE			Nf (Pa	RCC-LTO-E age 3 of 7)	Outdoor Lighting CERTIFICATE OF COMPLIANCE			NRCC-LTO-E (Page 4 of 7)	Outdoor Lightin CERTIFICATE OF COMPLI	ANCE les Industrial WWTP Admin Bidg Report Page:	RNIA ENERGY COMMISSIC NRCC-LTO (Page 5 of 2/7/20:
the spaces covered by the per installed and replacement lur	ermit application are included in the Table below. For alter uminaires being installed as part of the project scope are in	ed lighting systems using the E included (ie, existing luminaires	led and any existing luminaires remaining or being moved w xisting Power method per 141.0(b)21. only new luminaires b remaining or existing luminaires being moved are not include ble H. and are not included here. All other multifamily outd	being ded).	This table demonstrates compliance with a existing to remain (ie untouched) and lumi the permit application. Outdoor lighting for nonresidential buildin multifamily buildings and controlled from	controls requirements for all new or altered luminaires inst inaires which are removed and reinstalled (wiring only) do ngs, parking garages and common service areas in multifan the inside of a dwelling unit Cocupancies, Parking Garages & Common Areas in Multifa	not need to be included in this table even if nily buildings must be documented separat	they are within the spaces covered by	This table includes are 01 Area Descri	as using the wattage allowance per application from Table 140.7-8 / Toble 170.2-5.           02         03         04         05         06         07         08           ption         Application per Table 140.7-8/         H of Locations Locations Locations (Watts)         DESIGN WATTS         DESIGN WATTS	09 10 Additiona Allowance (Watts)
01 Name or Item Tag	02 03 04 Nete Luminaire Description Watts per Iuminaire ^{1,2}		haire Excluded per 6,200 initial lumen output	10 Field spector		02 03 Shut-Off Auto-Schedule 2(c)1 / 160.5(c) Provided	04 Motion Sensor 130.2(c)3 / 160.5(c) Provided	05 Field Inspector Pass Fail	Outdoor Lighting (N	Main Entrance)         Building Entrance/Exit         5         15         75         8         15         5           Total Design Watts for this Area: Total Allowance (Wat	tts) All Areas: 75
	Wall Pack Linear 15 Mfr. S				¹ FOOTNOTE: Text has been abbreviated, please ² Authority having jurisdiction may ask for cutsh	r refer to Table 160.5-A to confirm compliance with the specific lig heets or other documentation to confirm compliance of light source ed installations, and recessed luminaires installed in non-insulated	iht source technologies listed. ce.		² The Allowance per Local ³ For luminaires indicated	trance applications are only available for senior care facilities, healthcare facilities, poise stations, hospitals, fire stations, and emergency vehicle facili ino for ATMs is 1000 for the first ATM and ASW for each additional per Table 24.07.48 Table 17.02.5.5. in Table F as linear, wattage in column 07 is W/lf instead of Watts/Juminaire. Total linear feet should be indicated in column 08 instead of number of lu ANCE: SALES FRONTAGE	
FOOTNOTES: Authority Having J For linear luminaires, wattage s Select "New" for new luminaire for existing luminaires within the he project scope.	i Jurisdiction may ask for Luminaire cut sheets to confirm wattag e should be indicated as W/If instead of Watts/luminaire. Total in res in a new outdoor lighting project, or for added luminaires in a re project scope that are not being altered and are remaining. Se	ear feet should be indicated in col n alteration. Select "Altered" for r lect "Existing Reinstalled" for exist	umn 05 instead of number of luminaires. eplacement luminaires in an alteration. Select "Existing to Remain" ing luminaires which are being removed and reinstalled as part of		Hardscape Allowance is per Table 140.7-A, Allowances are per Table 140.7-B /Table 1 used to expand sections for user input. Lun lose it" allowances shall not qualify for and	70.2-S. Indicate which allowances are being minaires that qualify for one of the "Use it or Hardscruber "Use it or lose it" allowance.	reral cape 🛛 Per 🗖 Sales Fronta	ect all that apply) (select all that apply) ge	This section does not a L LIGHTING ALLOW/ This section does not a	ANCE: ORNAMENTAL	
Compliance with mandatory sh G. SHIELDING REQUIREME This section does not apply to		n output >= 6,200 unless exempte	d by 130.2(b)/ 160.5(c)			buildings and controlled from the inside of a are not included here. All other multifamily Table I (b		Table L Table M	M. LIGHTING ALLOW This section does not a	VANCE: PER SPECIFIC AREA pply to this project.	
									N. EXISTING CONDIT This section does not a	TONS POWER ALLOWANCE (alterations only) pply to this project.	
CA Building Energy Efficiency St	Standards - 2022 Nonresidential Compliance R	enerated Date/Time: eport Version: 2022.0.000 chema Version: rev 20220101	Documentation Software: Er Compliance ID: EnergyPro-5581-02 Report Generated: 2025-02-07	225-2131	CA Building Energy Efficiency Standards - 2027	Generated Date/T 2 Nonresidential Compliance Report Version: 2 Schema Version: r	022.0.000	Documentation Software: EnergyPro Compliance ID: EnergyPro-5581-0225-2131 Report Generated: 2025-02-07 15:30:32	CA Building Energy Effici	ency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID	nentation Software: EnergyPro D: EnergyPro-5581-0225-213: nerated: 2025-02-07 15:30:3;
~~~~~~		·····						·····			
											2
DATE	REVISIONS	APPROVED	UNDERGROUND SERVICE ALERT	DESIGNED: NAME	PROGRESS:	FINAL SIGNED	STAN MODILE		BUBEN		JOE PO#
			CALL: TOLL FREE 1-800	DRAWN:	SUBMITTAL DATE:	NOVEMBER 2024	yN9. E-18687	LINE IS 2 INCHES	DUDEK	INDUSTRIAL WASTE WATER TREATMENT FACILITY	
			227-2600	NAME CHECKED:	DIEP NGUYEN	E-10687	Exp. 6/38/23	IOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024 760.942.5 47 Fax 760.942.4508	ADMIN BUILDING	

CERTIFICATE OF	COMPLIANCE		NRCC-LTI-I
Project Name:	Gonzales Industrial WWTP Admin Bldg	Report Page:	(Page 7 of 7
Project Address	5	500 Short Road Date Prepared:	2/10/202
		•	
2000000			
	ATION AUTHOR'S DECLARATION STATEMENT this Certificate of Compliance documentation is accu	ate and complete	1. 7
	•	Kow ((N)
Documentation A Benjamin Mor		Documentation Author Signature:	
Company:		Signature Date:	
NRG Compliar	nce, LP	2025-02-10	
Address:		CEA/ HERS Certification Identification (if applicable):	
4480 Main St	Suite B		
City/State/Zip:		Phone:	
Riverside CA 9		202-870-7813	
	E PERSON'S DECLARATION STATEMENT		
	ving under penalty of perjury, under the laws of the State of California:		
	formation provided on this Certificate of Compliance is true and correct.		
		consibility for the building design or system design identified on this Certificate of (I manufactured devices for the building design or system design identified on this (
	le 24. Part 1 and Part 6 of the California Code of Regulations.	i manufactured devices for the building design of system design dentined on this (seruncate of compliance contorni to the requirements
		te of Compliance are consistent with the information provided on other applicable	compliance documents, worksheets, calculations,
	and specifications submitted to the enforcement agency for approval with		
		be made available with the building permit(s) issued for the building, and made av pliance is required to be included with the documentation the builder provides to	
Responsible Desig	ner Name:	Responsible Designer (Signatura:	
Diep Nguyen		hip yy	
Company:		Date Signed:	
DTN Engineeri	ing Inc	2025-02-10	
Address:		License:	
	ilpitas Blvd Suite 100	E-10687	
City/State/Zip:		Phone:	
Milpitas CA 95		408-262-0441	

Project Name: Gonzales Industrial WWTP Admin Bl	dg	500 AL . 0		ort Page:				(Page 1 of 7)
oject Address:		500 Short Road	Date	e Prepared:				2/10/2025
. GENERAL INFORMATION								
	nzales		04	Total Illuminated Hardscape Ar	ea (ft ²)	0		
02 Climate Zone 12					cu (it)	•		
03 Outdoor Lighting Zone per Title 24 Part 1 10.			_					
		derate - Urban Clusters		LZ-4: High - Must be reviewed	by CA Ene	rgy Commission f	or Approval	
	LZ-3: Mod	derately High - Urban Areas						
05 Occupancy Types within Project								
Office								
his table includes outdoor lighting systems that a		he scope of the permit applicati	ion ar	nd are demonstrating complianc	e using th	e prescriptive pat	h outlined in	140.7/
his table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alteratio		ne scope of the permit applicati	ion ar	nd are demonstrating complianc	e using th	e prescriptive pat	h outlined in	140.7/
his table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alteratio		he scope of the permit applicati	ion ar	nd are demonstrating complianc	e using th	e prescriptive pat	h outlined in	140.7/
his table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alteratio Ay Project Consists of: 01				02	e using th	e prescriptive pat	h outlined in	140.7/
New Lighting System		Must Comply with Allowances	s from	02 n 140.7 / 170.2(e)6		e prescriptive pat	h outlined in	140.7/
This table includes outdoor lighting systems that a 170.2(e)6 or 141.0(b)2(/ 180.2(b)48v for alteratia My Project Consists of: 01 New Lighting System		Must Comply with Allowances	s from	02	e using th	Yes		
This table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2(/180.2(b)48v for alteration My Project Consists of: 01 New Lighting System Altered Lighting System 03	ens.	Must Comply with Allowances Is your alteration increasing th	s from ne cor 04	02 n 140.7 / 170.2(e)6		Yes	0	
his table includes outdoor lighting systems that a 70.2(e)6 or 141.0(h)2(/ 180.2(b)4Bv for alteratio 4y Project Consists of: 01 O New Lighting System Altered Lighting System 03 % of Existing Luminaires Being Altered	ens.	Must Comply with Allowances Is your alteration increasing th	s from ne cor 04	02 n 140.7 / 170.2(e)6 nnected lighting load (Watts)?		Yes	05	
fais table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2(./180.2(b)46v/or alteratio Wy Project Consists of:	>= 50%	Must Comply with Allowances Is your alteration increasing th Sum Total of Luminai	s from ne cor 04 ires B	02 n 140.7 / 170.2(e)6 nnected lighting load (Watts)? leing Added or Altered		Yes	05	
his table includes outdoor lighting systems that a 70.2(e)6 or 141.0(b)2//180.2(b)84/for alteratia hy Project Consists of: New Lighting System Altered Lighting System 03 % of Existing Luminaires. Being Altered	>= 50% re Scheduk	Must Comply with Allowances Is your alteration increasing th Sum Total of Luminai to define the project's lumino	s from ne cor 04 ires Bi zires.	02 n 140.7 / 170.2(e)6 nnected lighting load (Watts)? leing Added or Altered	•	Yes I Calculatio	O D5 Don Method	No

tate of caliform Dutdoor Li	
ERTIFICATE OF	COMPLIANCE
roject Name:	Gonzales Industrial

state of california Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Gonzales Industrial WWTP Admin Bldg	Report Page:	(Page 6 of 7)	Project Name: Gonzales Industrial WWTP Admin Bldg	Report Page:	(Page 7 of 7)
	Date Prepared:	2/7/2025	Project Address:	500 Short Road Date Prepared:	2/7/2025
			DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			I certify that this Certificate of Compliance documentation i	is accurate and complete.	
Selections have been made based on information provided in this document. Additional Remarks. These documents must be provided to the building inspec		ion should be included in Table E.	Documentation Author Name: Benjamin Montalbano	Documentation Author Signature:	
	Form/Title		Company: NRG Compliance, LP	Signature Date:	
NRCI-LTO-E - Must be submitted for all buildings			Address: 4480 Main St Suite B	CEA/ HERS Certification Identification (if applicable):	
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			City/State/Zip: Riverside CA 92501	Phone: 202-870-7813	
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for		Wall Light;	plans and specifications submitted to the enforcement agency for appr 1 will ensure that a completed signed copy of this Certificate of Complian inspections. I understand that a completed signed copy of this Certificat	nce shall be made available with the building permit(s) issued for the building, and made available to the te of Compliance is required to be included with the documentation the builder provides to the building	e enforcement agency for all applicable
			Responsible Designer Name: Zachariah Garman CE	Responsible Designer Mentaura	
			Company: Land & Structure	Date signed: 0 0	
			Address: 105 South Stewart Street	License: E-10687	
				Phone:	
			City/State/Zip: Sonora CA 95370	209-532-5173	
	Generated Date/Time:	Documentation Software: EnergyPro		209-532-5173	Documentation Software: EnergyPro

ra.	No.	DATE	REVISIONS APPROV	D	DECIONED	2222222		PROFESSION			Г
еро				UNDERGROUND SERVICE ALERT	DESIGNED:	PROGRESS:	FINAL SIGNED	AS TAN ACTO			1
s s				CALL: TOLL FREE	NAME			No. E-16687		I NIINEK I	1
sale					DRAWN:	SUBMITTAL DATE:	NOVEMBER 2024	NO. E-18687	AT FULL SIZE	DADEV	\vdash
onz					NAME			<i>الفار محمد م</i> نبعة المرا	IF NOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024	1
22				227-2600	CHECKED:	DIEP NGUYEN	E-10687	No to and the second second		760.942.5 147 Fax 760.942.4508	1
14				TWO WORKING DAYS BEFORE YOU DIG	NAME	DISCIPLINE ENGINEER	P.E. NO.	CALLFORT CALLFORT			1
ä	23	02-12-25	ADDENDUM 3 DTN			BISON EINE ENGINEER	1.E. 110.	1-13-24			

CITY OF GONZALES	JOB NO. PO# 6761
INDUSTRIAL WASTE WATER TREATMENT FACILITY	DRAWING NO.
ADMIN BUILDING	ECF-3
ENERGY CALCULATION FORMS	SHEET NO.
	136 ∘⊧ 139

CERTIFICATE OF COMPLIANCE This document is used to demonst nonresidential and hotel/motel oc path for multifamily occupancies. Project Name: Gonzales Industria	ccupancies. It is also used to do	ocument compliance with re	30.0, 130.1, 140.6 and 14			
nonresidential and hotel/motel oc path for multifamily occupancies.	ccupancies. It is also used to do	ocument compliance with re	30.0, 130.1, 140.6 and 14			NRCC-LTI
Project Name: Gonzales Industria		ry and senior living facilities.	equirements in 160.5, 170			
	al WWTP Blowers Bldg		Report Page:			(Page 1 of
Project Address:		500 Short Roa	ad Date Prepared:			2/7/202
A. GENERAL INFORMATION						
01 Project Location (city)	Gonzales		04 Total Conditio	ned Floor Area (ft ²)	500	
02 Climate Zone	12		05 Total Uncondi	tioned Floor Area (ft ²)	0	
03 Occupancy Types Within Proje	ect (select all that apply):		06 # of Stories (H	labitable Above Grade) 1	
All Other Occupancies						
	ons.	pe of the permit application	and are demonstrating c		, ,	
Sc	cope of Work	pe of the permit application	Conditioned Spa		Unconditioned Sp	
	01		Conditioned Space	03	Unconditioned Sp 04	05
My Project Consi	cope of Work	Ca	Conditioned Space 02 Ilculation Method	03 Area (ft²)	Unconditioned Sp. 04 Calculation Method	05 Area (ft ²)
My Project Consi	ope of Work 01 ists of (check all that apply):	Ca	Conditioned Space	03	Unconditioned Sp 04	05
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	ope of Work 01 ists of (check all that apply):	Ca	Conditioned Space 02 Ilculation Method	03 Area (ft²)	Unconditioned Sp. 04 Calculation Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²)
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 ists of (check all that apply): ing Garage	Ca Ca Area	Conditioned Spar 02 Ilculation Method a Category Method	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method	05 Area (ft ²) 0
My Project Consi New Lighting System New Lighting System - Parki	cope of Work 01 Inits of (check all that apply): Inits Garage Area of Work (ft ²)	Genera	Conditioned Spac 02 Ilculation Method a Category Method 500	03 Area (ft²)	Unconditioned Sp 04 Calculation Method Area Category Method 0	05 Area (ft ²) 0
	01		Conditioned Space	03	Unconditioned Sp 04	05

 $\sim\sim$

 $\sim\sim$

 \sim

 $\sim \sim$

state of california Indoor Lighting	5										CALI	FO	RNIA ENERGY COMMISSION		STATE OF CALIFORN Indoor Ligh	
CERTIFICATE OF COMP	LIANCE												NRCC-LTI-E		CERTIFICATE OF C	OMPLIANCE
Project Name: Gon	zales Industrial	WWTP Blowers	Bldg			Repo	ort Pa	ige:					(Page 2 of 7)		Project Name:	Gonzales Industrial WW
						Date	Prep	oared:					2/7/2025			
															F. INDOOR LIG	HTING FIXTURE SCH
C. COMPLIANCE RE	SULTS															les all planned perman
If any cell on this tab	le says "DOES	NOT COMPLY"	or "COMPLIES	with Exception	nal Ci	onditions" refe	r to	Table D. for gu	idance.							Table T. If using Table T
	Alle	wed Lighting I	Power per 140	6(b) / 170 2(c		atte)	Г	Adjusted Lig		140	0.6(a) / 170.2(e)	Т	Compliance Results		not included her	re.
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(Watts)	_		ļ			Designed Watta	ge: Conditioned Space
Lighting in conditioned and	01	02	03	04		05	1	06	07		08	L	09		01	02
conditioned and unconditioned spaces must not be combined for compliance per	Complete Building	Area Category 140.6(c)2 /	Area Category Additional 140.6(c)2G /	Tailored 140.6(c)3 / 170.2(e)4B	=	Total Allowed	2	Total Designed	Adjustments PAF Lighting Control Credits 140.6(a)2 /	=	Total Adjusted (Watts)		05 must be >= 08		Name or Item Tag A	Complete Luminair Description LED Strip Light Pend
140.6(b)1 / 170.2(e)	140.6(c)1	170.2(e)4	170.2(e)4Av (+)	(+)		(Watts)		(Watts)	170.2(e)1B (-)		*Includes Adjustments		140.6 / 170.2(e)			sign Watts for small ap
	(See Table I)	(See Table I)	. ,	(See Table K)				(See Table F)	(See Table P)							sign Watts for small ap akes this adjustment, t
Conditioned		200	0		-	200	≥	192	0	=	192	L	COMPLIES			ng Jurisdiction may ask
Unconditioned					-		≥		and the second second	=					luminaire, not th	
										_	Table H for Detail	-	COMPLIES			
						Rat	ted P	ower Reduction	on Compliance (See	Table Q for Details	s)				LIGHTING SYSTEMS
D. EXCEPTIONAL C	ONDITIONS														This section doe	s not apply to this proje
This table is auto-fille	d with unedite	able comments	because of se	lections made	or de	ata entered in	table	es throughout	the form.			_				
· · · ·			,						,			_			H. INDOOR LIC	GHTING CONTROLS (
															This table includ	les lighting controls for
E. ADDITIONAL RE															Building Level C	ontrols
This table includes re	marks made b	y the permit a	pplicant to the	Authority Hav	ing J	urisdiction.										
																Mandatory Deman
																Required >= 4,000
						Generated Da	te/Ti	me:			Doc	um	entation Software: EnergyPro			
CA Building Energy Eff	iciency Standard	ds - 2022 Nonres	idential Complia	ance		Report Versio Schema Versio): EnergyPro-5581-0225-2129 herated: 2025-02-07 15:29:34		CA Building Ener	gy Efficiency Standards - 2

ATE OF CALIFORNIA						CALIFORM	IA ENERGY COMMISSION	Indoor Lighting			STATE OF CALIFORNIA Indoor Lighting
ERTIFICATE OF COMPLIANCE						CALIFORM	NA ENERGY COMMISSION NRCC-LTI-E			CALIFORNIA ENERGY COMMISSION	CERTIFICATE OF COMPUA
roject Name: Gonzales Indust	rial WWTP Blowers Bldg		Report Pag	ie:			(Page 4 of 7)	Project Name: Gonzales Industrial WWTP Blowers Bldg	Report Page:	NRCC-LTI-E (Page 5 of 7)	Project Name: Gonzal
-,			Date Prepa				2/7/2025	Floren waite. Goldales industrial wwite blowers blug	Date Prepared:	2/7/2025	
INDOOR LIGHTING CONTR	ROLS (Not including PAFs)							K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			S. DAYLIGHT DESIGN
a Level Controls											This section does not ap
04	05	06	07	08	09 10	11	12	This section does not apply to this project.			This section abes not ap
	Complete Building or Area		Iulti-Level Shu	ut-Off Controls	rimary/Sky lit Daylightin	ny Interlocked Systems	Field Inspector	L, ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			T. DWELLING UNIT LI
Area Description	Category Primary Function		20.1/b) /	130.1(c) // D	aylighting 100 1(J)		inclu inspector	This section does not apply to this project.			This section does not ap
	Area		60.5(b)4B	160.5(b)4C	130.1(d) / 160.5(b)4D	ID 170.2(e)2A					· · · · · · · · · · · · · · · · · · ·
		Readily N	A: General		NA: Rm < NA: Rm <	_	Pass Fail	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND T	ASK LIGHTING		U. DECLARATION OF
Blower	All Other Space Types		<= 0.5W/SF NA:		4sf Glazing 24sf Glazin				ASKEIGHTING		Selections have been m
			,			13					Additional Remarks. The
								This section does not apply to this project.			
				F	Plan Sh	eet Showing Da	ylit Zones:				
					Plan Sh	eet Showing Da	ylit Zones:	This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE J	SPECIAL EFFECTS		
					Plan Sh	eet Showing Da	ylit Zones:		SPECIAL EFFECTS		NRCI-LTI-E - Must be sui
LIGHTING POWER ALLOWA	ANCE: COMPLETE BUILDING C	DR AREA CATEGOR	(METHODS		Plan Sh	eet Showing Da	ylit Zones:	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE	SPECIAL EFFECTS		NRCI-LTI-E - Must be su
	ANCE: COMPLETE BUILDING C			in this table. Colum				N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE			NRCI-LTI-E - Must be sul V. DECLARATION OF F
ch area complying using the (Complete Building or Area Catego			in this table. Colum				N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE , This section does not apply to this project.			V. DECLARATION OF F
ch area complying using the (0.6(c) or adjustments per 140	Complete Building or Area Catego			in this table. Colum				N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB			V. DECLARATION OF I Selections have been m Additional Remarks. Th
ch area complying using the (0.6(c) or adjustments per 140	Complete Building or Area Catego 1.6(a) are being used . 02	pry Methods per 140.	6(b) are included	in this table. Colum		ional lighting po	ower allowances per	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE J This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project.	LE MERCHANDISE		V. DECLARATION OF F
ch area complying using the (0.6(c) or adjustments per 140 nditioned Spaces 01	Complete Building or Area Catego 1.6(a) are being used . 02 Complete Building or A	pry Methods per 140. e rea Category Priman	6(b) are included 03 v Allowed Den	04	n 06 indicates if addit 05 Allowed Wattage	ional lighting po	ower allowances per 06 Allowance / Adjustment	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE J This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT)	LE MERCHANDISE		V. DECLARATION OF I Selections have been m Additional Remarks. Th
ch area complying using the 0 0.6(c) or adjustments per 140 nditioned Spaces 01 Area Description	Complete Building or Area Catego 1.6(a) are being used . 02 Complete Building or A Functior	ory Methods per 140. rea Category Primar n Area	6(b) are included 03 (Allowed Den (W/ft ²)	04 osity Area (ft²)	n 06 indicates if addit 05 Allowed Wattage (Watts)	ional lighting po	ower allowances per 06 Allowance / Adjustment gory PAF	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE J This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project.	LE MERCHANDISE		V. DECLARATION OF I Selections have been m Additional Remarks. Th
th area complying using the (D.6(c) or adjustments per 140 nditioned Spaces 01	Complete Building or Area Catego 1.6(a) are being used . 02 Complete Building or A	ory Methods per 140. rea Category Primar n Area	6(b) are included 03 (Allowed Den (W/ft ²) 0.4	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project.	LE MERCHANDISE DJUSTMENT FACTOR (PAF))		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
h area complying using the 0 0.6(c) or adjustments per 140 Inditioned Spaces 01 Area Description	Complete Building or Area Catego 1.6(a) are being used . 02 Complete Building or A Functior	ory Methods per 140. rea Category Primar n Area	6(b) are included 03 (Allowed Den (W/ft ²) 0.4	04 osity Area (ft²)	n 06 indicates if addit 05 Allowed Wattage (Watts)	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment gory PAF	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE	LE MERCHANDISE DJUSTMENT FACTOR (PAF))		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ch area complying using the 0 0.6(c) or a djustments per 140 nditioned Spaces 01 Area Description Blower Area	Complete Building or Areo Catego 6(a) are being used . 02 Complete Building or A Functior Electrical Mechancia	ory Methods per 140, rea Category Primary n Area Il Telephone Room	6(b) are included and a second	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project.	LE MERCHANDISE DJUSTMENT FACTOR (PAF))		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ich area complying using the 0 60.6(c) or adjustments per 140 onditioned Spaces 01 Area Description Blower Area	Complete Building or Area Catego 1.6(a) are being used . 02 Complete Building or A Functior	ory Methods per 140, rea Category Primary n Area Il Telephone Room	6(b) are included and a second	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE	LE MERCHANDISE DJUSTMENT FACTOR (PAF))		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ch area complying using the 0 .6(c) or a djustments per 140 nditioned Spaces 01 Area Description Blower Area ADDITIONAL ALLOWANCE	Complete Building or Area Catego (6)(a) are being used . 20 20 20 20 20 20 20 20 20 20	ory Methods per 140, rea Category Primary n Area Il Telephone Room	6(b) are included and a second	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE	LE MERCHANDISE DJUSTMENT FACTOR (PAF)) ALTERATIONS		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ch area complying using the 0 .6(c) or a djustments per 140 nditioned Spaces 01 Area Description Blower Area ADDITIONAL ALLOWANCE	Complete Building or Area Catego (6)(a) are being used . 20 20 20 20 20 20 20 20 20 20	ory Methods per 140, rea Category Primary n Area Il Telephone Room	6(b) are included and a second	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AL This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE This section does not apply to this project.	LE MERCHANDISE DJUSTMENT FACTOR (PAF)) ALTERATIONS		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ch area complying using the 0 0.6(c) or a djustments per 140 nditioned Spaces 01 Area Description Blower Area	Complete Building or Area Catego (6)(a) are being used . 20 20 20 20 20 20 20 20 20 20	ory Methods per 140, rea Category Primary n Area Il Telephone Room	6(b) are included and a second	04 Area (ft ²) 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional Additional Area Cate; No	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AI This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXE	LE MERCHANDISE DJUSTMENT FACTOR (PAF)) ALTERATIONS		V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica
ch area complying using the 0 .6(c) or a djustments per 14G nditioned Spaces 01 Area Description Blower Area ADDITIONAL ALLOWANCE	Complete Building or Area Catego (6)(a) are being used . 20 20 20 20 20 20 20 20 20 20	nry Methods per 1400 : erea Category Primara A Area I Telephone Room RUALIFYING LIGHTI	6(b) are included and a second	04 sity Area (ft²) 500 500 7ALS: 500	n 06 indicates if addit 05 Allowed Wattage {Watts} 200	Additional lighting po	ower allowances per 06 Allowance / Adjustment 8007 PAF No	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUAB This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AI This section does not apply to this project. O. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXE	LE MERCHANDISE DJUSTMENT FACTOR (PAF)) ALTERATIONS	Documentation Software: EnergyPro	V. DECLARATION OF I Selections have been Additional Remarks. Th Test Technician Certifica

state of california Indoor Lighting		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting	g
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	CERTIFICATE OF COMPLIANCE	LIANCE
Project Name: Gonzales Industrial WWTP Blowers Bldg	Report Page:	(Page 5 of 7)	Project Name: Gonzales Industria	nzales Industrial WV
	Date Prepared:	2/7/2025		
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			S. DAYLIGHT DESIGN POWER A	GN POWER ADJU
This section does not apply to this project.			This section does not apply to this	t apply to this proj
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			T. DWELLING UNIT LIGHTING	
This section does not apply to this project.			This section does not apply to this	t apply to this proj
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGH	INC		U. DECLARATION OF REQUIRE	
	ling		Selections have been made based	
This section does not apply to this project.			Additional Remarks. These docum	
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL E	FFECTS			
This section does not apply to this project.			NRCI-LTI-E - Must be submitted for	submitted for all
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCH	ANDISE		V. DECLARATION OF REQUIRED	-
This section does not apply to this project.			Selections have been made based	
			Additional Remarks. These docum Test Technician Certification Provi	
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTME	IT FACTOR (PAF))			
This section does not apply to this project.			NRCA-LTI-04-A - Must be submitte	st be submitted fo
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIO				
	543			
This section does not apply to this project.				
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS				
This section does not apply to this project.				
	Generated Date/Time:	Documentation Software: EnergyPro		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-5581-0225-2129 Report Generated: 2025-02-07 15:29:34	CA Building Energy Efficiency Standa	ficiency Standards -

- G											
ara.	No. DATE	REVISIONS	APPROVED		DESIGNED:	PROGRESS:	FINAL SIGNED	BOFESSION			
Sep				UNDERGROUND SERVICE ALERT	NAME	TROOKESS.	TINAL SIGNED	TAN AG			1
ŝ				CALL: TOLL FREE		SUBMITTAL DATE:	NOVEMBER 2024	SUPPOFESSION SUPPO	LINE IS 2 INCHES	I DUDFK	1
zale				1-800	DRAWN:	SODIMITTAE DATE.	INGVENIBER 2024	1 LUNO. E-10687 1	AT FULL SIZE	PAPER	<u> </u>
nor					NAME			Exp. 6/30/23	IF NOT 2" - SCALE ACCORDINGLY	605 Third Street Encinitas, CA 92024	1
32_0				227-2600	CHECKED:	DIEP NGUYEN	E-10687	Sales march and		760.942.5 47 Fax 760.942.4508	1
14.			+	TWO WORKING DAYS BEFORE YOU DIG	NAME	DISCIPLINE ENGINEER	P.E. NO.	OF CALIFORNIA			1
n"	3 02-12-25	ADDENDUM 3	DTN			DISCH LINE ENGINEER	L. NO.	LAL 12_24			4

CALIFORNIA ENERGY COMMISSION NRCCLTTE ghting scopes using the prescriptive path for for indoor lighting scopes using the prescriptive		Indexed Maketan
for indoor lighting scopes using the prescriptive	Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LT-E	Indoor Lighting CALIFORNIA ENERGY COMMISS CERTIFICATE OF COMPLIANCE NRCC4
	Project Name: Gonzales Industrial WWTP Blowers Bldg Report Page: (Page 2 of 7) Date Prepared: 2/7/2025	Project Name: Gonzales Industrial WWTP Blowers Bldg Report Page: (Page 3 Date Prepared: 2/7/2
(Page 1 of 7) 2/7/2025		
	C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table. If vising Table To document lighting in multifamily common use areas providing shared provisions for living, cetting, cooking or sanitation, those luminaires ar
500	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) (Watts) (Watts) Compliance Results	not include the e. Designed Wattage: Conditioned Spaces
0 1	Lighting in conditioned and 01 02 03 04 05 06 07 08 09 Image: Conditioned and Conditioned and Area Area Adjustments 08 09	01 02 03 04 05 06 07 08 09 10
	unconfilioned spaces must not be combined for building in for Set (aligned) to for	Name or Item Tag Complete Luminaire Description Modular (Track) Fixture Color Change ¹ Watts per Juminaire ² How is Wattage determined Total Number of Luminaire ³ Lob Color Description Description The minipactor
	Compliance production Display Compliance Display Compliance <td>A LED Strip Light Pendent No NA 32 Mfr. Spec 6 No 192</td>	A LED Strip Light Pendent No NA 32 Mfr. Spec 6 No 192
iptive path outlined in 140.6 / 170.2(e) or Unconditioned Spaces	Conditioned (See Table I) (See Table J) (See Table	¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
04 05	Unconditioned = ≥ =	² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the Juminaire, not the Jamp.
Calculation Method Area (ft ²) ea Category Method 0	Rated Power Reduction Compliance (See Table Q for Details)	G. MODULAR LIGHTING SYSTEMS
0	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	This section does not apply to this project.
		H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.
	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	Building Level Controls 01 02 03
		Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Field Inspector Pass Failed Inspector Failed Inspector Failed Inspector
		Required >= 4,000W subject to multilevel See Area/Space Level Controls
Documentation Software: EnergyPro	Generated Date/Time: Documentation Software: EnergyPro	Generated Date/Time: Documentation Software: Energy
ompliance ID: EnergyPro-5581-0225-2129 Report Generated: 2025-02-07 15:29:34	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: Energ/Pro-5581-0225-2129 Schema Version: rev 20220101 Report Generated: 2025-02-07 15:29:34	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5581-022- Schema Version: rev 20220101 Report Generated: 2025-02-07.15:
CALIFORNIA ENERGY COMMISSION NRCC-11-E (Page 4 of 7) 2/7/2025	Indoor Lighting CALIFORNIA ENERgy COMMISSION CERTIFICATE OF COMPLIANCE NRCCUTHE Project Name: Gonzales Industrial WWTP Blowers Bldg Report Page: (Page 5 of 7) Date Prepared: 2/7/2025	Indoor Lighting CALIFORNIA ENERGY COMM CERTIFICATE OF COMPUANCE NR Project Name: Gonzales Industrial WWTP Blowers Bldg Report Page: (Page Date Prepared: 2/
11 12	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.
Interlocked Systems Field Inspector 140.6(a)1/		
Interlocked Systems 1405(a)1/ 170.2(e)2A No Pass Fall 13	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	This section does not apply to this project. T. DWELLING UNIT LIGHTING
Interlocked Systems 140.6(a)1/ 170.2(e)2A Pass Fall 13	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	This section does not apply to this project. I. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E.
Interlocked Systems IA0 (si)1/ IA0 (si)1/ IA0 (si)1/ IA0 (si)1/ Pass Fall I I I I Showing Daylit Zones:	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS	This section does not apply to this project. T. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LTI-E - Must be submitted for all buildings V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table NRCI-LTI-E - Must be submitted for all buildings
Interlocked Systems Field Inspector IA06(a)1/ I70.2(e)2A Pass Fall No Pass Fall I3 Showing Daylit Zones: al lighting power allowances per O6 Additional Allowance / Adjustment	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE	This section does not apply to this project. T. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LTI-E - Must be submitted for all buildings U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table Additional Remarks. These documents must be provided to the building inspector during construction and can use found online Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Text Technician Certification Provider (ATTOP). For more information vit. Thu://www.emergy.ca.gov/title24/attcp/providers.html Systems/Spaces To Bel
Interlocked Systems 1406.(a)1/ 170.2(e)2A Pass Fall No I3 Showing Daylit Zones: al lighting power allowances per 06	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))	This section does not apply to this project. T. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LTI-E - Must be submitted for all buildings V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Tes Technician Certification Provider (ATTOP). For more information visit. http://www.energy.ca.gov/title24/attsp/providers.html Systems/Spaces To Be F Form/Title
hterlocked Systems (70.2(e)2A No Fall No Fall 13 ihowing Daylit Zones: ihowing Daylit Zo	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project. Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS	This section does not apply to this project. I. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-ITI-E - Must be submitted for all buildings V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance rest Technican Cardification Provider (ATTCP). For more information via: http://www.energ.ca.gov/bite24/attcp/providers.html Form/Title NRCA-TI-04-A. Must be submitted for demand responsive lighting controls.
Interlocked Systems 130.6(a)/ 170.2(e)2A Pass Fail 13 13 Showing Daylit Zones: al lighting power allowances per 6 Additional Allowance / Adjustment Area Category PAF No No See Tables J, or P for detail	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project. Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project. R. 80% LIGHTING POWER RON CALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.	This section does not apply to this project. It DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and on be found online NRCI-LTI-E - Must be submitted for all buildings V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTO). For more information vit: they//www energy.ca.gov/title24/attcp/providers.html Verified Systems/Spaces To BE NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. Whole Building Demand Response;
Interlocked Systems 1406.(a)1/ 170.2(e)2A Pass Fall No C Showing Daylit Zones:	This section does not apply to this project. L ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project. P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAFJ)) This section does not apply to this project. Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS	This section does not apply to this project. I. DWELLING UNIT LIGHTING This section does not apply to this project. U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LIT-E - Must be submitted for all buildings V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptanc Test Technican Certification Provider (ATTOP). For more information visit: http://www.energy.co.gov/tite24/attp:/providers.html Form/Title NRCA-LTI-Q4-A. Hust be submitted for demand responsive lighting controls.

See Table I) See Table II See T	C. COMPL Results in the to Table D. C. C. C. C. C. C. C. C. C. C. C. C. C.	(Page 1 of 7) 2///2025	948v for outdoor lighting ommission for Approval scriptive path outlined in	.1(a) and 180.2(b)4 Area (ft ²) 0 d by CA Energy Cor	0.5, 170.2(e)6, 180. wing facilities. inated Hardscape A]: - Must be reviewed	erments in 160 y and senior liky port Page: te Prepared: 4 Total Illumii isdiction (AHJ) LZ-4: High -	ment compliance with requirer Valtifamily includes dormitory of 800 Short Road Date 500 Short Road Date 04 ated by Authority Having Jurisd a - Urban Clusters ely High - Urban Areas	to demonstrate compliance with requirement el/motel occupancies. It is also used to docu minificamily and mixed-use occupancies. A les Industrial WWTP Blowers Blog AATION Gonzales 12 Zone per Title 24 Part 1 10.114 or as design indeveloped Parkland 2 L2.2: Moderatu within Project	naare the pi Projec Projec 01 02 03	NRCC-LTI-E Page 7 of 7) 2/7/2025	(Pa	Bent	tation Author Signature:	Docum Signatu 2025-1		strial WWTP Blowers Bldg R'S DECLARATION STATEN e of Compliance docume	
suits in this table one ou Table D. Exceptional Carl Calculations of T Ol Ol Calculations of T General Hardscape Hardscape (General Hardscape Hardscape (See Table 1) 0 + 3 EEXCEPTIONAL CONDI is table is auto-filled with ADDITIONAL REMAR ADDITIONAL REMAR	Results in to to Table D. O. U. General Hardscap Allowano 140.7(0[1 170.2(e)] (See Table 0 D. EXCEPT This table is E. ADDITIC	(Page 1 of 7) 2/7/2025	ommission for Approval	Area (ft ²) 0	inated Hardscape /): - Must be reviewed	y and senior liv port Page: Ite Prepared: 4 Total Illumii isdiction (AHJ): LZ-4: High -	Autifamily includes dormitory of Repo Repo 500 Short Road Date 04 ated by Authority Having Jurisc a - Urban Clusters ely High - Urban Areas	rr multifamily and mixed-use occupancies. A lies industrial WWTP Blowers Bidg MATION Gonzales [2] Zone per Tille 24 Part 1 10.114 or as design indeveloped Parkland LZ-2: Moderatu within Project	the p p Projec Projec 01 02 03 03 05	2/7/2025		Ben M.	tation Author Signature:	e and complete. Docum Signatu 2025-1			CUMENTATION AUTH
suits in this table one ou Table D. Exceptional Carl Calculations of T Ol Ol Calculations of T General Hardscape Hardscape (General Hardscape Hardscape (See Table 1) 0 + 3 EEXCEPTIONAL CONDI is table is auto-filled with ADDITIONAL REMAR ADDITIONAL REMAR	Results in to to Table D. O. U. General Hardscap Allowano 140.7(0[1 170.2(e)] (See Table 0 D. EXCEPT This table is E. ADDITIC	2/7/2025	scriptive path outlined in	d by CA Energy Cor	inated Hardscape A): - Must be reviewed	port Page: te Prepared: 4 Total Illumii isoliction (AHJ): LZ-4: High -	Repo S00 Short Road Date 04 ated by Authority Having Jurisd a - Urban Glusters	Ies Industrial WWTP Blowers Bidg AATION City) Gornzales 12 Zone per Title 24 Part 1 10.114 or as design indeveloped Parkland 2 ↓Z-2: Moderat within Project	Projec Projec 01 03 03 03 03 03			BenfW.	Date:	Docum Signatu 2025-1			ertify that this Certifica
suits in this table one ou Table D. Exceptional Carl Calculations of T Ol Ol Calculations of T General Hardscape Hardscape (General Hardscape Hardscape (See Table 1) 0 + 3 EEXCEPTIONAL CONDI is table is auto-filled with ADDITIONAL REMAR ADDITIONAL REMAR	Results in to to Table D. O. U. General Hardscap Allowano 140.7(0[1 170.2(e)] (See Table 0 D. EXCEPT This table is E. ADDITIC	140.7/	scriptive path outlined in	d by CA Energy Cor): - Must be reviewed	4 Total Illumin isdiction (AHJ) LZ-4: High -	04 ated by Authority Having Jurisd a - Urban Gusters a ely High - Urban Areas	Gonzales 12 Zonce per Title 24 Part 1 10:11 or as design indeveloped Parkland Max L2-2: Moderatu vithin Project	A. GI			Ben M.	Date:	Docum Signatu 2025-1			ertify that this Certifica
Table D: Exceptional Cor Calculations of T Applications Applications Applications T/D.2 (e) 0 + 0 + 0 + D + D + -	to Table D Ca O1 General Hardscap Allowano 140,7(4)1 170,2(e) (See Table 0 D. EXCEPP This table ii E. ADDITIC		scriptive path outlined in	d by CA Energy Cor): - Must be reviewed	isdiction (AHU):	e - Urban Clusters	Gonzales 12 Zonce per Title 24 Part 1 10:11 or as design indeveloped Parkland Max L2-2: Moderatu vithin Project	01 02 03 03 05			- BenfN	Date:	Docum Signatu 2025-1	accurdu	ucume	
Calculations of T O1 General Hardscape 40.7(01)/ 0 + 2 EXCEPTIONAL CONDI EXCEPTIONAL CONDIL is table includes remark	C. 01 General Hardsap Allowano 140.7(d) (See Table O. EXCEPT This table i: E. ADDITIC		scriptive path outlined in	d by CA Energy Cor): - Must be reviewed	isdiction (AHU):	e - Urban Clusters	12 Zone per Title 24 Part 1 10.114 or as design Jndeveloped Parkland 2 L2-2: Moderati Areas 2 Vithin Project	02 03 □ 05					2025-			
General Hindrage Allowerze dalowerze dalowerze erabel 1) 700.2(e)6 0 + 1 EKCEPTIONAL CONDI Is table is auto-filled with ADDITIONAL REMAR Is table includes remark	General Hardscap Allowato 140702(e) (See Table 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		scriptive path outlined in	d by CA Energy Cor): - Must be reviewed	isdiction (AHU):	e - Urban Clusters	Indeveloped Parkland Image: Comparison of Comp						2025-			njamin Montalbano
Hardszape Appl Alcowance Appl 400.7(3) // 120 See Table I) 0 + : EXCEPTIONAL COND IIs table is auto-filled with ADDITIONAL REMAR ADDITIONAL REMAR	Hardsop Allowano 1407(71) 170.2(e) (See Table 0 D. EXCEPT This table in E. ADDITIC		scriptive path outlined in		- Must be reviewed	LZ-4: High -	e - Urban Clusters	Indeveloped Parkland Image: Comparison of Comp				(if applicable):	S Certification Identification	CEA/H			G Compliance, LP
Individual 1 1000 1007(01)1 1000 1700.2(e)0 (See 1 0 + 2 EXCEPTIONAL CONDI is table is auto-filled with ADDITIONAL REMAR ADDITIONAL REMAR	1.407(81) 170.2(9) (See Table 0 D. EXCEPT This table in E. ADDITIC			nce using the presc	onstrating compliar	and are demo		within Project	05				uencedon wenuncation	LEA/ H			BO Main St Suite B
170.2 (e) 100 See Table () 0 0 + . EXCEPTIONAL COND . EXCEPTIONAL COND . Is table is auto-filed with . ADDITIONAL REMARM . Is table includes remark	D. EXCEPT This table is			nce using the presc	onstrating compliar	and are demo:	one of the permit application an)-7813	Phone: 202-8			/State/Zip: erside CA 92501
0 + :	0 D. EXCEPT This table it			nce using the presc	onstrating compliar	and are demo	one of the permit application an							•		ECLARATION STATEMENT	
iis table is outo-filled with	This table i:			nce using the presc	onstrating compliar	and are demo	ne of the permit application ar								is true and correct.	on this Certificate of Compliance i	1. The information provid
iis table is outo-filled with	This table i:			nce using the presc	onstrating compliar	and are demo	one of the permit application an		B. PR	quirements	e of Compliance conform to the requ	sign identified on this Certificate	uilding design or system de	anufactured devices for the	ials, components, and m	on 3 of the Business and Profession performance specifications, materi t 6 of the California Code of Regula	3. The energy features an
iis table is auto-filled wii ADDITIONAL REMAR Iis table includes remark	This table i:	No					,,,	door lighting systems that are within the sco	This t	ulations,	nce documents, worksheets, calcula	ed on other applicable complian	with the information provid	of Compliance are consister	tified on this Certificate		4. The building design fea
iis table is auto-filled wi	This table is	No	× 0					L / 180.2(b)4Bv for alterations.	170.2 My P	pplicable	the enforcement agency for all app ling owner at occupancy.	building, and made available to be builder provides to the build	ing permit(s) issued for the 1 with the documentation t	made available with the bui	e of Compliance shall be this Certificate of Complia	eted signed copy of this Certificate	 I will ensure that a con inspections. Lundersta
is table includes remark		No			02			01	ing r		ng owner at occupancy.		Ne Designer Biggerung		ins certaincate or complia	that a completed signed copy of a	ponsible Designer Name:
is table includes remari		NO		0	. /		t Comply with Allowances from						e U//	Date Sig			ep Nguyen npany:
	This table .		Yes O 05		ung ioad (Watts)?		ur alteration increasing the cor 04	ting System Is yo 03					1-07	2025-I License			N Engineering Inc
			Calculation Method		or Altered		Sum Total of Luminaires Be	g Luminaires Being Altered ¹					0687			e 100	13 North Milpitas Blvd Su
								■ 10% and < 50% ■ >= 50%					-0441	Phone: 408-2			/State/Zip: Ipitas CA 95035
			f the Permit Application	vranin the Scope of :	isting Luminoires w		of Luminaires Being Added or A Generated Dar	sting Luminaires Being Altered = (Sum Tata)	(¹ FOC	EnergyPro	Documentation Software: Er		ime:	Generated Date			
A Building Energy Efficient	CA Building		Compliance ID: EnergyPro Report Generated: 202	c		ion: 2022.0.000 sion: rev 20220:		iency Standards - 2022 Nonresidential Complianc	CAB		mpliance ID: EnergyPro-5581-02 Report Generated: 2025-02-07 :			Report Version: Schema Version	Compliance	andards - 2022 Nonresidential C	A Building Energy Efficiency :
RTIFICATE OF COMPLU oject Name: Gonza UGHTING ALLOWA	Project Nam	NRCC-LTO-E (Page 4 of 7) 2/7/2025	Investion	application a	nget of AL	port Page: te Prepared:	Date	les industrial WWTP Admin Bldg NG CONTROLS	Н. О	NRCC-LTO-E Page 3 of 7) 2/7/2025	(Pa	d any existina luminairee	pared:	Report Date P 70.2(e)6 all new lumin	iance with 140 7 / 1	TURE SCHEDULE	RTIFICATE OF COMPLIANCE ject Name: Gonzales In COUTDOOR LIGHTING F
ois table includes areas 01 Area Descript		s covered by	they are within the spac	this table even if th	d to be included in t lings must be docu	y) do not need Itifamily buildi	ed and reinstalled (wiring only) common service areas in multi mit	nresidential buildings, parking garages and nd controlled from the inside of a dwelling o	existi the p Outdo multij	being uded).	remaining or being moved w D(b)2L only new luminaires bu is being moved are not inclua re. All other multifamily outdo	g Power method per 141.0 ining or existing luminaires	tems using the Existing ting luminaires remai	For altered lighting sy ope are included (ie, e	l in the Table below. art of the project sco	mit application are included hinaires being installed as po	e spaces covered by the p talled and replacement lu tdoor lighting attached to hting is included here.
			05		Idings 04	ultifamily Build	ages & Common Areas in Mult 03	or Nonresidential Occupancies, Parking Gar 02	Mand	10	3 09	07 08	5 06	04	03	02	o1
Outdoor Light		ector	Field Incr	sor				Shut-Off		Field		Excluded per		Howis			
					130.2(c)3 / 160		130.2(c)2 / 160.5(c)	130.2(c)1 / 160.5(c)			Watts lumen output	140.7(a) / Design V	umber Luminaire aires ² Status ³	Wattage	Watts per luminaire ^{1, 2}	te Luminaire Description	me or Item Tag Comp
OOTNOTES: Primary entri	¹ FOOTNOTE		Pass		Provided		Provided	Photocontrol		ss Fail	160.5(c)14 Pass	170.2(e)6A		aetermined			
he Allowance per Locatio or luminaires indicated in	² The Allowa				technologies listed.			n abbreviated, please refer to Table 160.5-A to co			NA: < 6200	30	New	Mfr. Spec	15	'all Pack 🛛 Linear	B LED
anes malcated in	Foriaminal			and iii.	are excepted from ii a			tion may ask for cutsneets or other accumentation ked for use in fire-rated installations, and recessed				al Design Watts: 30	Tota				
LIGHTING ALLOWAI								ALLOWANCE (per 140.7 / 170.2(e))	[I. LIG					iance is achieved.	explaining how compli	ire a note in the space below e EXCEPTION 2 to 130.2(b)	OTES: Selections with a * re Luminaire is lighting a state
is section does not app	This section	II shot and A	an all alson as 1000 1	01	Illine to the state			as using allowance calculations per 140.7 / . s per Table 140.7-A/Table 170.2-R while "Us			ngiras					risdiction may ask for Luminair	
LIGHTING ALLOWAI		iii that apply)	ct all that apply) (select	Allowance (select	"Use it or lose it	General	lowances are being	ole 140.7-B /Table 170.2-S. Indicate which al	Allow	n"	tion. Select "Existing to Remain"	ment luminaires in an alterati	ect "Altered" for replace	naires in an alteration. S	iect, or for added lumi	in a new outdoor lighting proje	lect "New" for new luminair
lighting ALLOWAR		Per Specific	e 🗖 Ornamental	□ Sales Frontage	Per	ardscape	llowance. Har	II not qualify for another "Use it or lose it" a	lose it	/	oved and reinstalled as part of						project scope.
		Area Table M	Table L	Table K	Application Table J	llowance le I (below)	from the inside of a Allo	hed to multifamily buildings and controlled j ded in Table H. and are not included here. Al	Outdo			9.2(b)/ 160.5(c)	0 unless exempted by 13	nitial lumen output >= 6,2	d for luminaires with in	elding requirements is required	mpliance with mandatory s
I. LIGHTING ALLOWA								uded here.								NTS (BUG)	SHIELDING REQUIREN
is section does not app	This section																s section does not apply
EXISTING CONDITIO	N. EXISTI																
is section does not appl																	
		ware: EnergyPro	Documentation Sof			Date/Time:	Generated Dat			EnergyPro	Documentation Software: Er		ïme:	Generated Date			
A Building Energy Efficien	CA Building	5581-0225-2131	Documentation Sof Compliance ID: EnergyPro Report Generated: 202	c)	Date/Time: ion: 2022.0.000 sion: rev 20220:	e Report Version	ency Standards - 2022 Nonresidential Complianc	CA B	0225-2129	Documentation Software: Er mpliance ID: EnergyPro-5581-02 Report Generated: 2025-02-07		022.0.000	Generated Date Report Version: Schema Version	Compliance	andards - 2022 Nonresidential (Building Energy Efficiency :
00011 he Al his se lis se lis se l. LIG	This to This to I FOOT ² The Au ³ For Mu K. LIG This see L. LIG This see M. LK This see N. EX	s covered by attached to ector Fall all that apply) Per Specific Area	they are within the space by from outdoor lighting 05 Field Insp Pass 0 Ct all that apply) (select 0 Ornamental	this table even if th imented separately sor 0.5(c) and iii.	It to be included in the lings must be docur lidings 04 04 04 04 04 04 04 04 04 04 04 04 04	y) do not need iltifamily buildi ultifamily Build ific light source to source. ulated ceilings a General General I General I General	ed and reinstalled (wiring only) common service areas in multi nit ages & Common Areas in Multi 03 Auto-Schedule 130.2(2) 2160.5(c) Provided nfm compliance of light s nto confirm compliance of light s to confirm compliance of light s	s: compliance with controls requirements fo ntouched) and luminairs which are remove inresidential buildings, parking garages and and controlled from the inside of a dwelling i or Norresidential Occupancies, Parking Gar Q2 Shut-Off 130.2(c)1 / 160.5(c) Photocontrol neabreviated, please refer to Table 180.5-A to co too may as for cutsheets or other documentalis ked for use in fire-rated installations, and recess ALLOWANCE (per 140.7 / 170.2(c)) s per Table 140.7-A/Table 170.2-A while 'Us I 40.7-B / Table 170.2-S. Mailer a which and s for user input. Luminaires that quelify for led 10.7-B / Table 170.2-S. Indicate which al e di no table 1.40 archer 'Use is to rose it' o het do multiformity buildings and controlled.	This t existing the per- Ound with multily Mane *GOT *Auto *GOT *Auto *Reces I. LIG FThis t Hords Hords Kallow used Ocar	being uded), tdoor 10 Field Ss Fail 1 1 1 1 1 1 1 1 1 1 1 1 1	s being moved are not includent e.e. All other multifamily outdit 3 09 Cutoff Req.> F 6,200 initial ins; 100.01pt 100.01pt	g Power method per 141.0,1 ining or existing luminaires: . and are not included here 07 08 Excluded per 140.7(a) / 170.2(a) Design V 170.2(a) / 170.2(a) 30 al Design Watts: 30 5(b) instead of number of luminer finite dominers in an alternation induces which are being remediation. and method induces in an alternation induces which are being remediation.	erns using the Existing uminaries remain re included in Table H 5 06 umber Luminaire is New Totu ance per 130.0(c) / 160. e ind "Attered" for replace statiled" for existing lum	For altered lighting y poer are included (ie, ec side of a dwelling unit How is Wattage determined Mir. Spec iance is achieved. m wattage used for com, e. Total incer feet show.	lin the Table below. art of the project sca nntrolled from the in UM atts per luminaire ^{1,2} 15 explaining how compil re cut sheets to confir re cut sheets to confir re cut sheets to confir g altered and are rem	terms demonstrating completing and application are included innares being installed as po multifamily buildings and co- o2 all Pack all Pack Linear size a note in the space below e <i>EXCEPTON 2</i> to 130.2(b) in a new outdoor for Liniharia and tradicated as W/J integring into a note in the display project and the space below e <i>EXCEPTON 2</i> to 130.2(b) and <i>B</i> and <i>B</i> a	new or altered lighting 3 spaces covered by the p talled and replacement is talled and replacement is thorn lighting attached to thing is included here.

<form><form><form></form></form></form>		
<form></form>		{
<form></form>	VTP Blowers Bldg Report Page:	NRCC-LTO-E (Page 2 of 7)
<form></form>	Date Prepared:	2/7/2025
<form></form>	calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Co	anditions" refer
<form></form>	guidance or see applicable Table referenced below. d Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results	
<form></form>	Sales Ornamental Per Specific Existing Power Frontage + 140.7/d/2 + Area OB Allowing = Total Allowing > Total Allowing >	<u> </u>
<form></form>	140.7(d)2 170.2(e)6 140.7(d)2 / 141.0(b)2L / (Watts) (Watts) (See Table K) (See Table L) 170.2(e)6 180.2(b)4Bv (Watts) (Watts)	must be >= 08
	+ OR = 30 ≥ 30 Shielding Compliance (See Table G for Details)	N/A
<form></form>	Controis Compliance (see Table n for Details)	
<text></text>	e comments because of selections made or data entered in tables throughout the form.	}
	he permit applicant to the Authority Having Jurisdiction.	
		5
		1
		{
	Generated Date/Time: Documentation Softw	ware: EnergyPro
	2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5	5581-0225-2129
Import Reget Import Reget Import Reget Import Reget International State Date Prepared: 27/7202		}
Import Reget Import Reget Import Reget Import Reget International State Date Prepared: 27/7202		2
Import Reget Import Reget Import Reget Import Reget International State Date Prepared: 27/7202		{
Import Reget Import Reget Import Reget Import Reget International State Date Prepared: 27/7202		\
Type Bouvers Bild Preport Pager: (Preport 5 or 7) PLICATION 2/17/2023 PLICATION 2/17/2023 Outer Preparent: 0/0 Data Preparent: 0/0 <t< td=""><td>CALIFORNIA ENERG</td><td></td></t<>	CALIFORNIA ENERG	
Integration of the laboration of the laboratis and the laboratis of the laboration of the		(Page 5 of 7)
Integration of the laboration of the laboratis and the laboratis of the laboration of the	PLICATION	\ \$
Application per Table 140.78 th if of production per Table 140.78 th if of	ttage allowance per application from Table 140.7-B / Table 170.2-S. 02 03 04 05 06 07 08 09	10
Building Entrance/Exit 2 15 30 9 15 2 30 30 Intermediation of the sense of the s	Application per Table 140.7-B ¹ # of Allowance Extra Luminaire Watts per # of Decision Watt	Allowance
Interview	Location ² (Watts) Item Tag	
In the exit walkleb for series care ficilities, holds tartism, houghtab, first tations, and emergency whick fealities. Will for the first ATM and Stay for each and ATA Firble 172.5. at watage in column 02 is Will instead of Watts/Juminare. Total linear feet should be indicated in column 08 instead of number of luminaries. FRONTAGE feet: FRIVIL feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE feet: FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUINE FRUIN	Total Design Watts for this Area: 30	s; 30
RONTAGE lefet. RENTAL ited:	ns are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. 00W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.	
iect. AENTAL iect. AENTAL iect. ALLOWANCE (alterations only) iect. ALLOWANCE (alterations only) iect. ALLOWANCE (alterations only) iect. Documentation Software: EnergyPro Schema Version: rev 2022010 Compliance ID: EnergyPro SSS: Compl		\ }
Iecz. PECIFIC AREA iecz. ALLOWANCE (afterations only) iecz. ALLOWANCE (afterations only) iecz. CITY OF GONZALES INDUSTRIAL WASTE WATER TREATMENT FACILITY BLOWER BUILDING ENERGY CALCULTATION FORMS	lect.	{
Industrial waste water treatment facility BLOWER BUILDING ENERGY CALCUL ATION FORMS	/ENTAL	
ALLOWANCE (afterations only) feet: 2022 Norresidential Compliance 2022 Norresidential Compl	PECIFIC AREA	
Image: Complement of Complement Discover State Complement Discover Discov	lect.	{
2022 Norresidential Compliance 10: EnergyPro-5581-0225-2129 Report Generated: 2025-02-07 15:29:34	ALLOWANCE (alterations only) eect.	
2022 Norresidential Compliance 10: EnergyPro-5581-0225-2129 Report Generated: 2025-02-07 15:29:34	Generated Date/Time- Documentation Soft	vare: EnergyPro
CITY OF GONZALES INDUSTRIAL WASTE WATER TREATMENT FACILITY BLOWER BUILDING ENERGY CALCULATION FORMS	2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5	5581-0225-2129
BLOWER BUILDING ENERGY CAL CLILATION FORMS		}
BLOWER BUILDING ENERGY CAL CLILATION FORMS		^
BLOWER BUILDING ENERGY CAL CLILATION FORMS		$\sqrt{3}$
BLOWER BUILDING ENERGY CAL CLILATION FORMS		
BLOWER BUILDING ENERGY CAL CLILATION FORMS		
INDUSTRIAL WASTE WATER TREATMENT FACILITY BLOWER BUILDING ENERGY CALCULATION FORMS SHEET NO.	CITY OF CONTAL ES	
BLOWER BUILDING ENERGY CALCULATION FORMS	INDUSTRIAL WASTE WATER TREATMENT FACILITY	
136 0+ 139		
		130 189

 $\sim\sim\sim\sim\sim$

state of california Outdoor Lighting California Energy commission			STATE OF CALIFORNIA Outdoor Lighting Calif		
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	CERTIFICATE OF COMPLIANCE		NRCC-LTO-I
Project Name: Gonzales Industrial WWTP Blowers Bldg	Report Page:	(Page 6 of 7)	Project Name: Gonzales Industrial WWTP Blowers Bldg	Report Page:	(Page 7 of 7
	Date Prepared:	2/7/2025	Project Address:	500 Short Road Date Prepared:	2/7/202
			DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			I certify that this Certificate of Compliance documentation	n is accurate and complete.	AA T
Selections have been made based on information provided in this document. Additional Remarks. These documents must be provided to the building inspe		explanation should be included in Table E.	Documentation Author Name: Benjamin Montalbano	Documentation Author Signature:	<i>N</i>
	Form/Title		Company: NRG Compliance, LP	Signature Date:	
NRCI-LTO-E - Must be submitted for all buildings			Address: 4480 Main St. Suite B	CEA/ HERS Certification Identification (if applicable):	
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			4480 Waln St Suite B City/State/Zip: Riverside CA 92501	Phone: 202-870-7813	
			 I will ensure that a completed signed copy of this Certificate of Comp increations. Lunderstand that a completed signed some of this Certificate. 		
			inspections. Indirectand that a completed signed copy of this Certif Responsible Cosigner Name. Diep Nguyen Company. OTN Engineering Inc Address:	Late of Compliance is required to be included with the documentation the builder provides to the Record to Durative The Court of Data Seguel 2025-02-07 License:	
			inspections. I understand that a completed signed copy of this Certif Responsible Designer Name: Diep Nguyen Company:	icate of Compliance is required to be included with the documentation the builder provides to the Responsible Data Signer Bergure	
	Generated Date/Time:	Documentation Software: EnergyPro	impections. Indirectand that a completed signed copy of this Certif Responsible Designer Name. Diep Nguyen Company OTN Engineering Inc Address: 1313 North Milpitas Bird Suite 100 Crty/StateZp:	Icate of Compliance is required to be included with the documentation the builder provides to the Record to Compliance is required to the Second Se	

No	DATE	REVISIONS	APPROVED		DESIGNED:	PROGRESS:	FINAL SIGNED	PROFESSION			\square
Sep				UNDERGROUND SERVICE ALERT	NAME			SOU TAN AGUE		BUBPU	1
ples				CALL: TOLL FREE	DRAWN:	SUBMITTAL DATE:	NOVEMBER 2024	THE NO E-14687		UUUEK	
ouzu					NAME			Exp. 6/38/23	AT FULL SIZE	605 Third Street Encinitas, CA 92024	\square
25 ⁻ 0				227-2600	CHECKED:	DIEP NGUYEN	E-10687	No. E-11667		760.942.5 47 Fax 760.942.4508	1
	02-12-25 ADI	DENDUM 3	DTN	TWO WORKING DAYS BEFORE YOU DIG	NAME	DISCIPLINE ENGINEER	P.E. NO.	OF CALIFOR			l l

CITY OF GONZALES	JOB NO. PO# 6761	
INDUSTRIAL WASTE WATER TREATMENT FACILITY	DRAWING NO.	
BLOWER BUILDING	ECF-6	
ENERGY CALCULATION FORMS	SHEET NO. 139 of 139	