NON-CHAPTER 343 DOCUMENT PUBLICATION FORM OFFICE OF ENVIRONMENTAL QUALITY CONTROL

Project Name: Lihue Aerated Solids Contact Tank Improvement

Applicable Law: 36 CFR Part 800

Type of Document: National Historic Preservation Act Section 106

Island: Kauai

District: Kalapaki Ahupua'a, Puna District

TMK: (4) 3-5-001:030

Permits Required: N/A

Applicant or Proposing Agency:

(Address, Contact Person, Telephone, E-mail)

State of Hawaii, Department of Health, Environmental Management Division, Wastewater Branch

2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Contact and Phone: Domciely Oda, (808) 586-4294, Domciely.Oda@doh.hawaii.gov

Approving Agency or Accepting Authority:

(Address, Contact Person, Telephone, E-mail)

State of Hawaii, Department of Health, Environmental Management Division, Wastewater Branch

2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Contact and Phone: Domciely Oda, (808) 586-4294, Domciely Oda@doh.hawaii.gov

Consultant:

(Address, Contact Person, Telephone, E-mail)

Brown and Caldwell

737 Bishop Street, Suite 3000

Honolulu, HI 96813

Contact and Phone: Joshua Schwartzlow, (808) 203-2672, jschwartzlow@brwncald.com

Status: Comments due no later than November 7, 2024 to:

Attn: Domciely Oda

Department of Health, Wastewater Branch 2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Email: wwb@doh.hawaii.gov

Project Summary:

(Summarize proposed action and purpose/need in less than 200 words in the space below): The Department of Health (DOH) initiated Section 106 of the NHPA consultation with the State Historic Preservation Division (SHPD) in accordance with 36 CFR Part 800. In 1990, the U.S. Environmental Protection Agency (EPA) designated the DOH to act on EPA's behalf, pursuant to 36 CFR §800.2 (c) (4), when initiating Section 106 of the NHPA process in connection with projects funded under the Hawai'i Clean Water State Revolving Fund (CWSRF). The DOH is providing funding under the CWSRF to the County of Kauai for the Lihue Aerated Solids Contact Tank Improvement. The proposed project will utilize federal

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funding and is considered an undertaking, as defined by Section 106 of the NHPA, 54 U.S.C. §306101 et seq., and 36 CFR Part 800.

The undertaking consists of upgrading the aerated solids contact tank at the Līhu'e Wastewater Treatment Plant (WWTP) to improve service reliability within the Līhu'e area. The modifications to the aerated solids contact tank include replacing the existing diffusers, air piping, and effluent baffles with new equipment. The improvements also include the installation of new instrumentation and control valves. All equipment will be replaced or installed in a similar footprint to the existing equipment. All construction activities will be within the Līhu'e WWTP parcel (TMK (4) 3-5-001:030).

The DOH has engaged SHPD to determine the presence of potential sites of historic importance within the vicinity of the project area as well as the potential impact of the project on such sites, if present.

JOSH GREEN, M.D. GOVERNOR OF HAWAI'I KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAI'I



KENNETH S. FINK, MD, MGA, MPH DIRECTOR OF HEALTH KA LUNA HO'OKELE

STATE OF HAWAII DEPARTMENT OF HEALTH KA 'OIHANA OLAKINO

P. O. BOX 3378 HONOLULU, HI 96801-3378

September 17, 2024

In reply, please refer to: File:

59-31 S106 ltr (initial) SHPD.docx

Alan S. Downer, PhD, Administrator State of Hawai'i, Department of Land and Natural Resources State Historic Preservation Division 601 Kamokila Boulevard, Rm. 555 Kapolei, HI 96707 Submitted via: SHPD HICRIS

Dear Dr. Downer:

Subject: National Historic Preservation Act (NHPA)

Request to Initiate Section 106 Consultation Lihue Aerated Solids Contact Tank Improvement

Clean Water State Revolving Fund (CWSRF) Project No. C150059-31

Kalapaki Ahupua'a, Puna District, Island of Kaua'i, Hawai'i

TMK: (4) 3-5-001:030

State Historic Preservation Division (SHPD) Project No. 2024PR00799

On behalf of the Environmental Protection Agency (EPA), the State of Hawai'i Department of Health (DOH) requests to initiate Section 106 consultation with the State Historic Preservation Officer (SHPO) for the proposed Lihue Aerated Solids Contact Tank Improvement project located in Kalapaki Ahupua'a, Puna District, Island of Kaua'i, Hawai'i.

The proposed project may be eligible to utilize federal funding that is administered by the DOH through CWSRF and will be considered a federal action and undertaking, as defined by Section 106 of the NHPA of 1966 (as amended 2014), Title 54 of the United States Code (54 USC) Section 306108, and Title 36 of the Code of Federal Regulations (36 CFR) Part 800.

The EPA has authorized the DOH to act on behalf of the EPA regarding NHPA Section 106 notification and consultation. This letter is to request to initiate the Section 106 consultation process with the SHPO and State Historic Preservation Division (SHPD) in accordance with 36 CFR, Section 800.3.

The DOH may provide funding under the CWSRF to the County of Kaua'i (COK), Department of Public Works for the Lihue Aerated Solids Contact Tank Improvement project.

Overview of Undertaking

The project would upgrade the aerated solids contact tank at the Līhu'e Wastewater Treatment Plant (WWTP) to improve service reliability within the Līhu'e area. The modifications to the aerated solids contact tank include replacing the existing diffusers, air piping, and effluent baffles with new equipment. The improvements also include the installation of new

Alan S. Downer, PhD, Administrator September 17, 2024 Page 2 of 4

instrumentation and control valves. All equipment will be replaced or installed in a similar footprint to the existing equipment. All construction activities will be within the Līhu'e WWTP parcel (TMK (4) 3-5-001:030). See *Attachment A* for the draft drawings of the proposed work.

Area of Potential Effect (APE)

The proposed APE is approximately 0.43-acre portion of the 5-acre Līhu'e WWTP parcel (TMK (4) 3-5-001:030) and includes all construction access and staging areas. Construction activities will involve trench excavation, air piping installation, duct bank installation, backfilling, and returning the surface to the original grade. The excavation for the pipe will be approximately 4-feet deep, 3-feet wide, and 48-linear feet long. The excavation of the duct bank will be approximately 4-feet deep, 2-feet wide, and 108-linear feet long.

See Attachment B and C for the APE Map and site photos.

Cultural, Historical, and Archaeological Background

The project area is in the Līhuʻe neighborhood of Kaua'i in the moku (traditional Hawaiian District) of Puna, and the ahupua'a (traditional land division) of Kalapakī. The ahupua'a of Kalapakī is a very old land division that was permanently inhabited and intensively used in Pre-Contact Hawai'i. The coastal zones were the locus for permanent habitation and numerous trails. There were fishponds at Kalapakī, and intensive agriculture within the valley floodplain of Nāwiliwili River. The dryland areas contained native forest and were cultivated with crops of wauke, sweet potatoes, and gourds. Many features of the landscape are described in legends and historic documents. With the emergence of the sugar industry in the 1800s, Līhuʻe became the central city of the island with the construction of sugar plantations and a large sugar mill.

Topography in the project area is slightly sloped with elevations ranging from 125 to 130 feet above mean sea level. The project area is approximately 0.6 miles inland from the coastline. The soils within the APE consist of Līhu'e silty clay, 0-8% slope, Līhu'e silty clay, 25-40% slope, eroded, and Līhu'e gravelly silty clay, 0-8% slope. Based on as-built research, the treatment plant has been subjected to major development with various projects in 1981, 1997, 2002, and 2019.

Previous Archaeological Research

Eight studies have taken place in the vicinity of the proposed undertaking. In 1980, personnel of Archaeological Research Center Hawaii, Inc. completed preliminary archaeological monitoring of two parcels in Ninini Point area, Kalapaki, Puna. Both parcels were examined for archaeological remains and/or historic remains, but none were found.

An archaeological survey was completed in a portion of coastal land in Kalapaki (Stride and Hammatt, 1988). No archaeological sites were identified.

McMahon (2005) conducted a Historic Preservation Review for the Kauai Development LLC/KD Golf Ownership LLC, for the following TMKs: (4) 3-5-01:27, (4) 3-5-01:165, (4) 3-5-01:168,

Alan S. Downer, PhD, Administrator September 17, 2024 Page 3 of 4

(4) 3-5-01:169, (4) 3-5-01:170, (4) 3-5-01:171, (4) 3-5-01:172, and (4) 3-5-01:173. There were no historic properties present because intensive cultivation has altered the land and an archaeological assessment found no historic properties.

Altizer and Hammatt (2014) completed an archaeological inventory survey report for the Nawiliwili-Ahukini Bike Path Project. The report found a total of 15 historic properties within the project area, including two habitation terraces, an activity area, and a possible burial mound. The historic properties identified as part of this survey are located along the coastline of Ninini and Ahukini Point, which is over 1,000 feet from the Līhu'e WWTP property.

An archaeological inventory survey was conducted for Island Helicopters Kaua'i, Inc. for a proposed administration and customer service building. Previous records have indicated a survey was conducted for the Līhu'e airport improvements in 2006 (Barnes et al 2006), which shows the project area has been developed and paved for airport use. Based on the previous land disturbance and lack of historic properties in the surrounding area, there are no historic properties in the area (Naone, 2015).

Summary of Historic Properties in the Vicinity of the APE

To the COK's knowledge, there is one historic property located within the APE. According to as-built research the Aerated Solids Contact Tank was constructed and put into service in 1966. Based on the definition of a historic property in HRS 6E-2, the Aerated Solid Contact Tank qualifies as a historic property.

The Aerated Solids Contact Tank is not registered on the Hawai'i Register of Historic Places, nor in the National Registers of Historic Places. It does not appear that the Aerated Solids Contact Tank is a significant historic property.

The COK conducted archival research of the Environmental Review Program database of environmental assessments (EAs) and the environmental impact statements (EISs) to identify historic properties within or adjacent to the project area. The COK reviewed EAs and EISs which included documents pertaining to the Līhu'e Airport (State of Hawaii, Department of Transportation, Airport Division, 2018), Nawiliwili-Ahukini Bike Path (State of Hawaii, Department of Transportation, Highways Division, 2017), Nawiliwili Harbor (State of Hawaii, Department of Transportation, Harbor Division, 2017), and Līhu'e WWTP (County of Kauai, Department of Public Works, Division of Wastewater Management, 2007). The COK determined that although there were some significant historic properties identified within the adjacent parcels none of them are located near the Līhu'e WWTP and will not be impacted by the project.

The COK also asserts that the ground surface within Līhu'e WWTP is no longer original. Significant construction activities were completed at this facility in 1981, 1997, 2002, and 2019 which has subjected the property to major development. The ground has been previously disturbed to the extent that no subsurface archaeological sites are likely to exist. The extent of previous surface and subsurface disturbances suggests that no intact buried archaeological material is likely to be encountered during ground disturbances associated with this project.

Alan S. Downer, PhD, Administrator September 17, 2024 Page 4 of 4

Consultations

Section 106 consultation letters have also been sent to Native Hawaiian organizations, consulting parties, and/or interested persons that might attach significance to this area and have invited them to participate in the process. The mailing list is provided in *Attachment D*.

We welcome any comments that you may have on this project's proposed improvements.

We are particularly interested in any information you may have on the historic and cultural sites that have been recorded in the area. In addition, if you are acquainted with any persons or organizations that are knowledgeable about the proposed project area or any descendants with ancestral, lineal, or cultural ties to, cultural knowledge or concerns for, and/or cultural or religious attachment to the proposed project area, then we would appreciate receiving their names and contact information.

We would appreciate a written response within thirty (30) calendar days from receipt of this letter. Please address any written comments to email: Domciely.Oda@doh.hawaii.gov or the following address:

Attn: Domciely Oda Department of Health, Wastewater Branch 2827 Waimano Home Road, Room 207 Pearl City, HI 96782

Should you have any questions, please contact Domciely Oda at (808) 586-4294.

Sincerely,

JONATHAN NAGATO, P.E., CHIEF Wastewater Branch

Attachments

DO/CH:jn

Attachment A

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 THE HAWAII ONE CALL CENTER AT 1-866-423-7287.
- 22. PRIOR TO INSTALLATION OF ANY NEW SEMER LINES, DRAIN LINES, MANHOLES, AND STRUCHURS THAN MULE TRANSFERED TO THE COUNT OR RECURBED FOR THE SUBDINITIONS THE TRANSFER TO THE COUNT OF RESULDED FOR THE SUBDINITION OF THE PROPERTY. THE CONTRACTOR SHALL HAND ALL MINESON CHIRD THE SAFED TO THE TRANSFER AND STRUCHURS THE STRUCHU
- SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS, OR MOUNDS, OR REMANNS UNCH AS AFTENCES BURMA, SO ONCENTRATION OF SHELL ON E-HARGOAL BERANNS SUCH AS A CHARGOAL BURNON OF SHELL ON ONCENTRATION OF SHELL ON THE SHOW MEDIATELY IN THE IMMEDIATELY OF THE RIND MONTHES, WORK SHALL BE ROFFICED FROM IN THE MARKAGE. THE CONTRACTED RANDON SHALL BE ROFFICED FROM INTERPRETATE DAMAGE. THE CONTRACTED RANDON LANDON SHALL BRANDATEL IMMEDIATELY CONTACT THE STATE HISTORIC PROPERTY TON DANSON (409-242-5169), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF RESERVED. 83
- 24. PURSAURT TO GAPETER SE OF THE HANNING IRRADES STATUTES ALL CONTRACTORS SHALL SERVING THAT IN THE ENENT THAT AWY HINAN SKELETAL REMANS ARE INADORFERENT OF DISCOVERED DURING CONSTRUCTION. THE REMANS SHALL NOT BE KNOCH AND ANY ACTIONTY IN THE IMMEDIATE AREA THAT COLLID DANAGE THE REMANS OF THE POTENTIAL HSTORIC PRESENT SHALL OF THE AND AND MATCHAR RESOURCES HISTORIC PRESENTATION TO BE AND AND MATCHAR RESOURCES HISTORIC PRESENTATION TO BE AND AND MATCHAR RESOURCES THE CANDING THE APPROPRIATE MEDICAL ECONING.

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT B.BAL GENERAL CONSTRUCTION NOTES COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTEWATER MANAGEMENT SECTION HEAD... DESONED BY J.SCHWARTZLOW
DRAWN BY Y.NODA
APPROXED AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDING V Baune of Ball 4/30/2026 UCENSED PROFESSIONAL ENGINEER HIS WORK WAS PREPARED UNDER MY SUPERVIS TMK: 3-5-001:030

IHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

TEMPORARY CONTRACTOR OPERATIONS AND STAGING AREA NOTES

- 1. COORDINATE AND CONFIRM LOCATION AND SIZE OF TEMPORARY CONTRACTOR OPERATIONS AND STAGING AREA (COSA) WITH OFFICER-IN-CHARGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND PERMOVAL OF ANY AND ALLS BLY AND DEBRIS GENERATED BY CONTRACTORS'S WORK AND BEOSSIE, AND CAND DEBRIS GENERATED BY CONTRACTORS'S WORK AND BEOSSIE, AND CAND DEBRIS PERSONAL MAYER STRUCTURES AND THE TO THE STRUCTURES. THE CONTRACTOR MAYERS, THE CONTRACTOR AND THE STRUCTURES AND THE CONTRACTOR AND THE STRUCTURES. THE CONTRACTOR AND THE STRUCTURES AND THE STRUCTURES. THE CONTRACTOR AND THE STRUCTURES AND THE STRUCTURES AND THE ADDITIONAL THE MAD SHE SHOW FOR ALL THE AND SHE SHE MAYER SHE MAD THE ADDITIONAL THE MAD SHE SHE MAD THE CONTRACTOR.
- IN ACCORDANCE WITH THE HAWAII ADMINISTRATURE RULES, TITLE 11, CHAPTER REAL ST. SOLE WASTER MANAGEMENT FOR MICH, CHEOLUTION) HAND ON OINSTROOT TON WASTER SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF SHALL INFORMED REIT. THE CONTRACTOR SHALL INFORM THE CONFECTANCE OF THE LOCATIONS OF DISPOSAL SITES IS PARL I COMPLY WITH REVISED OF THE LOCATIONS OF DISPOSAL SITES OF THE COUNTY. THE STRALL COMPLY WITH REVISED OF THE COUNTY. THE COMPLY WITH REVISED OF THE COUNTY. THE LINE OF THE COUNTY. THE LINE OF THE COUNTY. THE CONFINCT OF THE COUNTY. THE COUNTY OF THE COUN
 - THE CONTRACTOR SHALL MINIMIZE THE QUANTITY OF CONSTRUCTION MATERIAL STORED IN THE COSA. 4
- UPON COMPLETION OF THE PROJECT, THE EXCESS MATERIAL AT THE COSA SHALL BE REMOVED AND THE SITE SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITIONS.
- ELEVATED PLATFORMS MAY BE INSTALLED IN THE COSA FOR SOME MATERIALS SO THAT THEY ARE LOCATED ABOVE AND OUT OF STORM WATER RUNOFF.

DEMOLITION NOTES

- NO BLASTING SHALL BE PERMITTED ON THIS PROJECT. ÷
- WHEN DEMOLITION IS ADJACENT TO EMISTING STRUCTURES OR FACILITIES. THE CONTRACTORS SMALL BE RESPONSIBLE FOR PROPERLY SHOWING AND BRACKING THE EXCANATION AND STABLIZING SHOWING TO REMORE IT SAFE AND SECURE FOR PROPERLY SUPPORTING SHOWING SHOWING THE PROPERLY SUPPORTING STRUCTURES AND FACILITIES THOM DAMAGE.
- LANGE CONTRACTOR SHALL TAKE THE INCESSEAPP PRECAUTIONS TO PREVENT DAMAGE TO THE ENSITING WALLS, VAULTS, BULDNIKG, UTHITES AND STRUCTURES OUTSIDE OF THE LIMITS OF DEMOUTION, ANY DAMAGE TO THESE TIEMS SHALL DEPARTED TO EQUAL, OR BETTER THAN EAST ING CONDITIONS BY THE CONTRACTOR'S EXPENSE.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES

- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR, AT HISAHER OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDION AREA REFE ROMO DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE ARE POLLUTION CONTROL STANDARDS AND REQULATIONS OF THE STATE DEPARTMENT OF HEALTH. 2
- THE CONTRACTOR SHALL PROWDE, INSTALL AND MANTAN ALL NECESSARY SHALL SHARL SHARGHOES, BARRESS COIES AND OTHER PROTECTIVE FACILITIES, AND SHALL TAKE ALL NECESSARY PRECALITIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- THE CONTRACTORS ATTENTION IS DRECTED TO TITLE 11, ADMINISTRATIVE RULES, DEPTERES, DEPTERES, DEPTERES, DEPTERED AND THE PERSTRENOF THE HAMAIL COMMUNITY NOISE CONTROL FOR KAJAF IN WHICH MAXIMUM ALLOWABLE. WICKEL BUTCH HE MASS TO THE WORSE LEVER TO THE CONTRACTOR WITHOUT BUTCH AND THE WORSE LEVER TO THE CONTRACTOR WITHOUT BUTCH AND THE WORSE LEVER SECURED TO THE DEPARTMENT OF PUBLIC HEALTH, THE CONTRACTOR SHALL OBTAIN A CORP. OF CHAPTER AS AND FOR SCHOLL SHALL WITHOUT SHALL OBTAIN A CORP. OF CHAPTER AND FOR CONTRACTOR SHALL OBTAIN A CORP. OF CHAPTER AND FOR CONTRACTOR SHALL OBTAIN A CORP.

ENVIRONMENTAL CONTROL NOTES

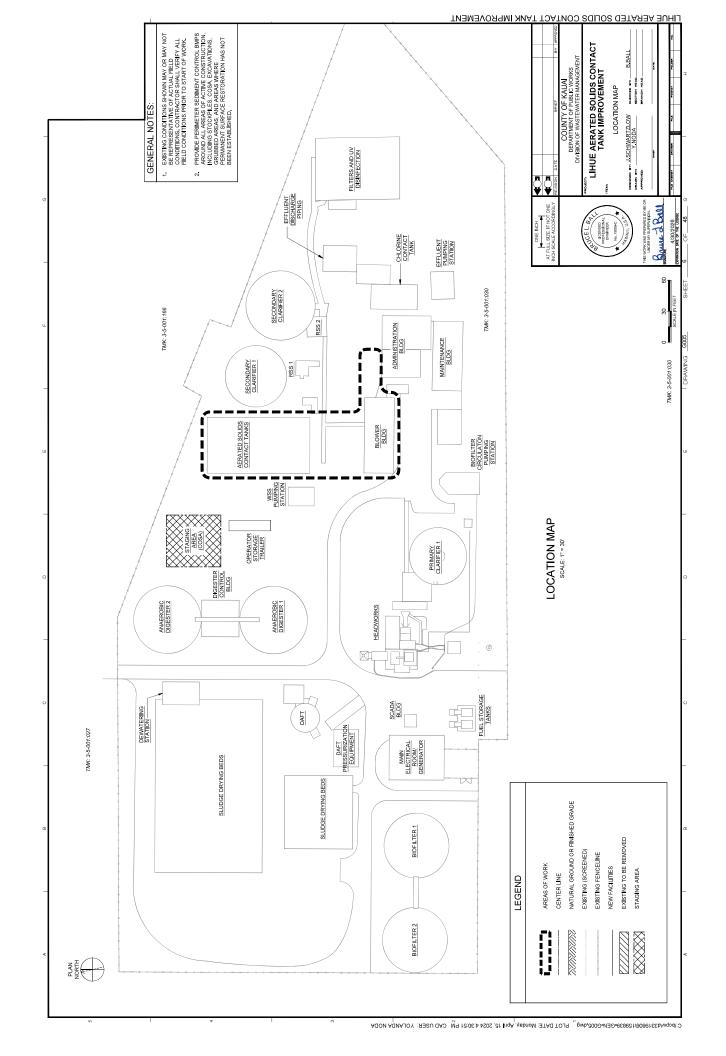
- THE GENERAL CONTRACTOR OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:
- A. STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISCHARGO NE(1), FACE R MONE, AND
 B. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

ACCORDANCE MATIR STATE, UNA ALL DISCALAGES RELAZED O PROJECT CONSTRUCTION OR OPERATIONS ARE RECOURED TO CONMEY WITH STATE WHITE WAITE WITH STATE WAITE STATE WHITE STATE WAITE STATE WAITE STATE WAITE STATE WAITE STATE STATE WAITE STATE STATE STATE WAITE STATE STATE

- IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL. ITILE 11.
 HAVAIN ADMINISTANTER RUES (14-40), THE CONTRACTOR SIALLE B RESPONSIBLE
 FOR ENSURING THAT EFFECTIVE THAT CONTROL MEASURES ARE PROVIDED TO
 MINIMACE OF PERCHEN RAY VISITEE ED UST ENGISMO CAUSED BY THE
 CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING ARES INCLUDING THE
 OFF-SITE ROADWAYS USED TO ENTEREXIST THE PROJECT SITE.
- IN ACCORDANCE WITH CHAPTER 11-38, SOLID WASTE MANAGEMENT CONTROL.
 ITHE 11, HAR, THE CONTRACTORS SHALL BE RESPONSIBLE FOR BUSUNGH THAT
 THE DEMOLITION WASTE MUD CONSTRUCTION WASTE GENERATED BY THE
 PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE
 DEPARTMENT OF HEALTH, DISPOSAL OF ANY OF THESE WASTES BY BURNING IS
 PROHIBITED.
- BMPs SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEIDMENT TANNI, BROSDANO NS DUST TO STREAMS, WATERCOURSES, NATURAL AREAS, AND THE PROPERTY OF DTHERS. 4

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

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CONTAIN LIMIT CONSTRUCTION EQUIPMENT AND ACTIVITIES TO THE LIMITS OF CONSTRUCTION SHOWN ON THESE PLANS. EROSION CONTROL BMPS EROSION, SEDIMENT CONTROL, DUST CONTROL AND BEST MANAGEMENT PRACTICE (BMP) NOTES

GENERAL

- THE BEST MANAGEMENT PRACTICES (BMPS) SHOWN IN PLANS ARE ITHE MINIMUM REAGHED NAS SELECTED BASED ON ANTICIPATED MEANS AND METHODS. THE CONTRACTOR SHALL BENEFOR SHEW BENEFOR SHOWEN BY AND DEALTHOST SHALL BANEFOR SHEW BY SHOWEN S
- WHERE SUFFICIENT DETAIL REGARDING INSTALLATION
 SOUGCINNS THE WORK AMDIOGNAME MAINTENANCE OF BURNES INOT
 INCLUDED IN THESE PLANS, THE CONTRACTOR SHALL REFERS TO
 THE "BEST MANAGEMENT PRACTICE PRACTICES (BARP'S) FOR
 SEDIMENT AND REVOSION CONTROL" (FEBRUARY 2011 AS AMBIOEDO)
 OF THE DEPARTMENT OF POBLIC WORKS, COUNTY OF KAUANI.

SEDIMENT CONTROL BMPS:

- A SPECIFIC INDMDUAL APPOINTED BY THE CONTRACTOR SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION, SEDIMENT, AND DUST CONTROLS ON THIS PROJECT.
- BMPS SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION TO THE MAXIMUM, EXTENT REACTION AGABE TO PREVENT DAMAGE BY SEGIMENTATION TO ANY STREAMS, WATERCOURSES, NATURAL AREAS AND THE PROPERTY OF OTHERS.
 - IF THE CONTRACTOR IS NOT ABLE TO SATISFACTORILY CONTROL EROSYON, SEDIMENT AND DUST NUISANCE EMISSION FROM THE PROJECT SITE, ALL CONSTRUCTION WORK SHALL CEASE EXCEPT FOR WATERING AND OTHER STABLIZATION EFFORTS.
- CONSTRUCTION SHALL BE SEQUENCED TO MINIMAZE THE
 EXPOSIBLE TIME OF CLEARED SHAPAGE REAL. THE FIRST
 CONSTRUCTION SECTION SHALL BE STABILIZED BEFORE THE NXT
 SECTION SHALL BE GIVENLIZED BEFORE THE NXT
 SECTION SHALL BEGIN. STABILIZED SHEFORE THE NXT
 SECTION SHALL BEGIN. STABILIZED SHEFORE THE NXT
 SECTION SHALL BEGIN. STABILIZED SHEFORE THE NXT
 STABINORARILY OF PERMANENTLY PROTECTING THE DISTURBED
 SOLE SUFFACE FROM RANFALL IMPACT AND RUNOFF.
 - ED WHERE THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION, SEDMINEN AND DUST CONTRACTOR STRUCTURES AS NEEDED WOODEN STRACTOR TRAVIELS OF WORKS BEYOND THE LIMITS OF CONSTRUCTION INDICATED ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING TO FUGITIVE DUST AND WATER BORNE SILT COMPLAINTS FROM NEIGHBORING PROPERTIES AND SHALL PROVIDE ADDITIONAL MITIGATION MEASURES AS NECESSARY, TO AVOID NUISANCE

THE CONTRACTOR SHALL SWEEP AND VACUUM STREETS OF SEMEMENT DAILY DUBING TRENGHOR AND EXCAVATION ACTUMIES. THE CONTRACTOR SHALL NOT WASH SEDNIENT FROM THE CONSTRUCTION SITE TO SURROUNDING AREAS, COLLECTED SEMENT SHALL BE DISPOSED OF AS CIRECTED BY THE EXPRINGH SHALL BE DISPOSED OF AS CIRECTED BY THE EXPRINGED SHALL BE DISPOSED OF AS CIRECTED BY THE

THE CONTRACTOR SHALL SWEEP AND VACUUM STREET'S USING ECUPRIANT STECHPOLLY NITRINGD FOR REMONING SEDMENTS FROM PARED ROADWINS, SWEEPING AND VACUUMING SEDDIFIBING AND SALL ON TO USE FOR THIS SHOWS THE SOUR STREAM SHALL NOT USE RICK BROOMS OR SWEEPER ATTACHMENTS.

ALL SEDIMENT CONTROL BMPS SHALL BE INSPECTED DAILY FOR DAMAGE AND MAINTAINED SO THAT THEY ARE WORKING PROPERLY.

ALL SEDIMENT CONTROL BMPS SHALL BE CLEARED OF SILT IMMEDIATELY FOLLOWING THE END OF ANY RAINFALL THAT CAUSES SILT BUILDUP BEHIND THE BMP.

SEGON SEQUENTA MAD DUST CONTROL BAPE SHALL BE NA LE AND THAT THAT THAT THAT THAT THAT THE SHALL BE PROPERLY CARTH MONING CAN BROWNENCE DOWNSTROTED WIN REQUENT WANT AMEN THE DIFFICULATION PROPERLY CONSTRUCTION PERFORM.

DUST CONTROL BMPS:

- ALL BMPS SHALL BE CHECKED AND REPARED AS NECESSARY.

 NERSECT BMDS, MERCKY IN DRY PEREDOS AND WITHIN THE SHEAT THE ANY RAMFALL OF OS INCHES OR BEACHTS WITHIN A 24-HOUR PEREDO, DIRMIN SPECIONS DE SHALL WHALL OF OS INCHES OR SHALL WHALL OF OS INTEGENS OF SHALL WHAT RECORDS OF CHECKS AND REPARS, AN INSPECTION AND MANITE WARE CONTRACTOR SHEET TOO AND MANITEWING REPORTS MALL BE GENERATED FOR EACH INVESTIGATION, AND THE REPORTS KEPT ON FILE.
 - IF HEAVY RAINS ARE PROJECTED DURING A WORKDAY, ALL BMPS THAT ARE A PART OF THIS PROJECT SHALL BE INSPECTED IMMEDIATELY AND REINFORCED AS NECESSARY. 4

2. PROPOTO CONSTRUCTION, THE CONTRACTOR SALL MEET WITH THE ELGOREER AND PROVIDE INFORMATION OF THE CONTRACTOR OF WARTER FOR DUST CONTRACTOR. IN ADDITION, THE CONTRACTOR OF HALE SUBMICTOR STACTION THAT SCHEDULES AND ADDITION THE OWN THEN WHATEN WEAR SCHEDULES AND SCHEDULE AND TO THE CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR AND THE OWN OFF. THE DUST CONTROL OF THE CONTRACTOR OF THE CONTRACTOR OF THE STALL BEAT STATEMENT WHICH MEDIATES AND STATEMENT OF THE CONTRACTOR OF THE STATEMENT WHICH MEDIATES AND STATEMENT OF THE STATEMENT WHICH MEDIATE STATEMENT WHICH MEDIATE STATEMENT WHICH MEDIATE STATEMENT OF THE S

ANY GRUBBED AND GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY PRIOR TO WEEKENDS AND HOLIDAYS.

DUST CONTROL WITH WATER SPRAY (BY TRUCK, TEMPORARY SPRUNKLERS OR MANUAL HAND EQUIPMENT APPLICATION) SHALL BE INSTALLED AND EMPLOYED AS NEEDED. THE CONTRACTOR SHALL NOT OVERWAITER AND CAUSE RUNOFF FROM THE SITE.

THE CONTRACTOR SHALL PROVIDE EFFECTIVE MEASURES FOR HE CONTROL OF FOUGHTE, ADDITS NUISAGE, DUST EMISSIONS FROM THE PROJECT AND SURROUNDING AREAS CAUSED BY HEARER OPERATURS. THESE MEASURES SHALL MEET THE REQUIREMENTS OF STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, "MR POLLUTION CONTROL" (11-80.1).

- ALL EROSION, SEDIMENT AND DUST CONTROL BMPS THAT ARE A PART OF THIS PROJECT SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN STABILIZED TO PREVENT THE TRANSPORT OF DUST OR SEDIMENT LADEN WATERS FROM THE SITE.
- THE CONTRACTOR SHALL TRAIN ALL OF HIS/HER EMPLOYEES AND SUBCONTRACTORS ON THE BMPS FOR EROSION, SEDIMENT AND DUST CONTROL PRIOR TO THE COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL CONDUCT OPERATIONS SO THAT EXCAVATION, EMBANKMENT AND IMPORTED MATERIAL SHALL BE DAMPENED TO PREVENT NUISANCE AND DUST PROBLEMS.

NON-STORMWATER POLLUTION MANAGEMENT BMPS:

PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TWENTY (20) CALENDAR DAYS PRIOR TO LAND DISTURBANCE.

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED ON AREAS THY MILL REMANN FOURTEREN (14) CALENDAR DAY'S. VEGETATIVE COVER SHALL BE PLANTED WITHIN PERFOLO OF THE THE STEET WAS BEEN ORDED.

- THE CONTRACTOR SHALL NOT PERFORM EQUIPMENT OR VEHICLE CLEANING OR MAINTENANCE AT THE CONSTRUCTION SITE.
- PERFORM ALL FUELING AT DESIGNATED FUELING AREA(3) THAT ARE CUIPPED WITH BIRRINGHOUS YRILL CLEARUH YIR'S, ARE ON LEVEL GRADE, ARE PROTECTED FROM STORM WAITER BUND'F. AND AREA THE RAST SCHEET AWAY FROM DRANAGE FACILITIES OR WATERCOURSES.
 - WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPS

SHAMEN GESTALLAND WITH YEESTAND OR AVENENT SHALL BE APPLED AS SOON AS PRACTICAL AFTER PRELIA.

INSTALLATION. TEMPORARY REIGATION AND MANTENANCE OF THE FERMANET DESCRIPTION OF VEGETA TION ROLD WITH A STANDARY OF AND A SCRIPTION OF VEGETA TINE NAS PALLED TO THE SANDER AND STANDARY OF AND A SCRIPTION OF AND STANDARY OF AND A STANDARY OF AND A SCRIPTION OF AND STANDARY OF AND A STANDARY OF AND A SCRIPTION OF AND A SCRIPTION OF AND A STANDARY OF AND A SCRIPTION OF AND A SCRIPTION OF AND A SCRIPTION OF A STANDARY OF AND A SCRIPTION OF A STANDARY OF AND A SCRIPTION OF A STANDARY OF A

- ANY AND ALL HAZARDOUS MATERIALS OFF-SITE OR IN THE DESIGNATED COSA WITHIN A COVERED AREA AND DISPOSE ACCORDANCE WITH FEDERAL AND STATE REGULATIONS.
- STOCKPILE AND DUMPSTER SHALL BE LOCATED ONLY AT THE COAS AND SHALL MOT BE CLOSE TO COMPORTINATED STORM WATER RUNOFF FLOWING INTO STATE RECEIVING WATERS. POSSIBLE.
 POSSIBLE.

PLANTING AND MAINTENANCE OF GRASS SHALL CONFORM TO THE SPECIFICATION'S THAM IS TANABAGO SPECIFICATION'S FOR ROAD AND BRIDGE CONSTRUCTION', DATED 2006 AND ITS SPECIAL ROAD GROSS MANNAMENTS, AND "STANABAGO SPECIFICATION'S FOR PUBLIC, WORKS CONSTRUCTION', DATED SEPTEMBER 1986. AS ARNINDED OF THE STATE OF HAMAIL DEPARTMENT OF EXAULT TRANSPORTATION HOHMANS DINSION, S. COUNTY OF KAULAI, DEPARTMENT OF PUBLIC WORKS, RESPECTIVELY.

- PROVIDE SEDIMENT CONTROL BMPS SHALL BE PROVIDED AROUND ALL ACTIVE STOCKPILES PRIOR TO AND DURING WET WEATHER EVENTS.
- PROVIDE PLASTIC COVERS SHALL BE PROVIDED OVER ALL COLD-MIX STOCKPILES.
- TRASH DUMPSTERS SHALL BE LEAK PROOF AND SHALL NOT OVERFILLED TO THE LEVEL WHERE THEIR COVERS CANNOT FULLY SHUT.
- ALL CONSTRUCTION AND DEMOLITION WASTES INCLUDING
 TARSHAL PANCHARTE SCON, EXCANTED ROCK, SITE
 TRASH, OR OTHER SOLID OR LIQUID WASTES SHALL BE REMOVED
 TO A RECYCLING OR DISPOSAL FACILITY PERMITTED BY THE STATE
 OF HAWAII DEPRATIMENT OF HEALTH, ALL FEES SHALL BE PAD FOR
 BY THE CONTRACTOR.

PROVIDE PERIMETER SEDIMENT CONTROL BMPS AROUND ALL AREA OF ACTIVE CONSTRUCTIVEN INCLUDING STOCKPILES, COSA, EXCAVATIONS, GRUBBED AREAS, AND AREAS WHERE PERMANENT SURFACE RESTORATION HAS NOT BEEN ESTABLISHED.

INITIALE GENERAL TOWNED, BARS INCLUDE, TEMPORARY
CONTRACTOR OPERATIONS AND STAGES AND STAGES AND STAGES AND STAGES CONSTRUCTION INGRESSIGNESS AS
SOCKS AND STAGESTAGES ON THE THE REBOWL, AND
DRYMAND FROM ACCOMULATING ON THE RES OF TRUCKS
ENTINES THE RECOLOGY SITE AND BEING TRACKED ONTO PUBLIC
ROAD PAYMARY TO.

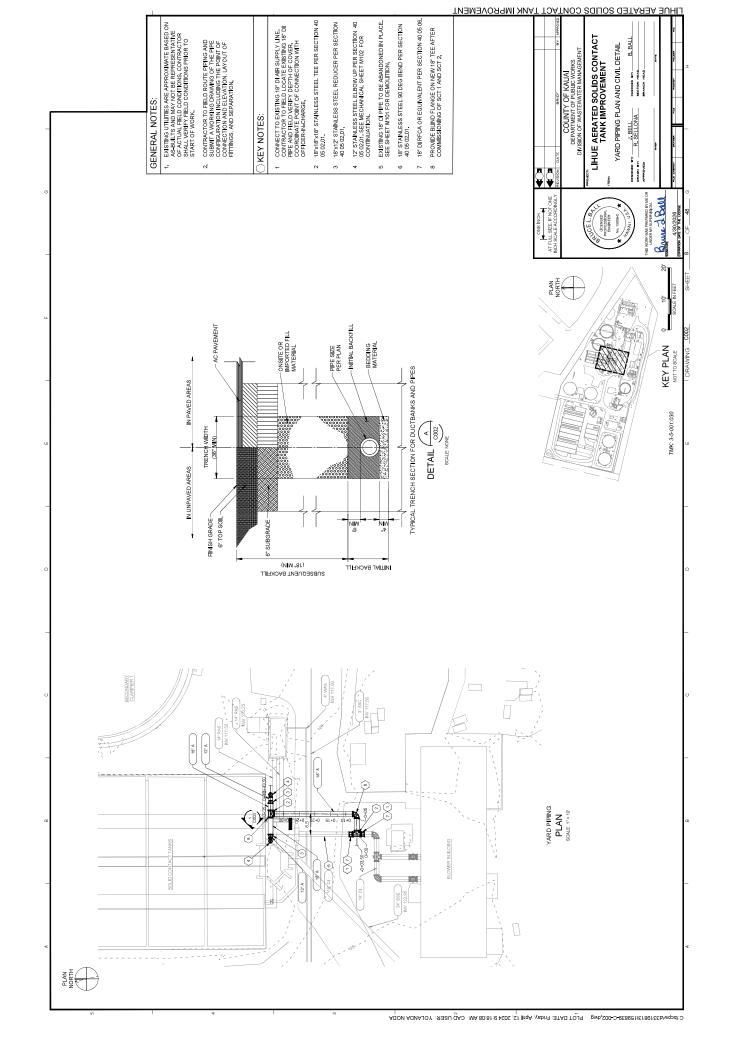
- THE CONTRACTOR SHALL PROVIDE ADEQUATELY SIZED CONCRETE
 THICK AND CONCRETE FUND WASHOUT MEAS. CONCRETE
 WASH WATERS SHALL NOT BE ALLOWED TO EXIT THE
 CONSTRUCTION SITE. ENTER STORM DRAINS OR FLOWINTO STATE
 RECEIMAG WATERS.
- THE CONTRACTOR SHALL SWEEP, VACUUM AND PROPERLY DISPOSE OF ALL ASPHALT OR CONCEPTE SANCUT SLURRY. DO NOT ALLOW SANCUT SLURRY TO EXIT THE CONSTRUCTION SITE, ENTER STORM DRANS OR FLOWINTO STATE RECEMING WATERS.

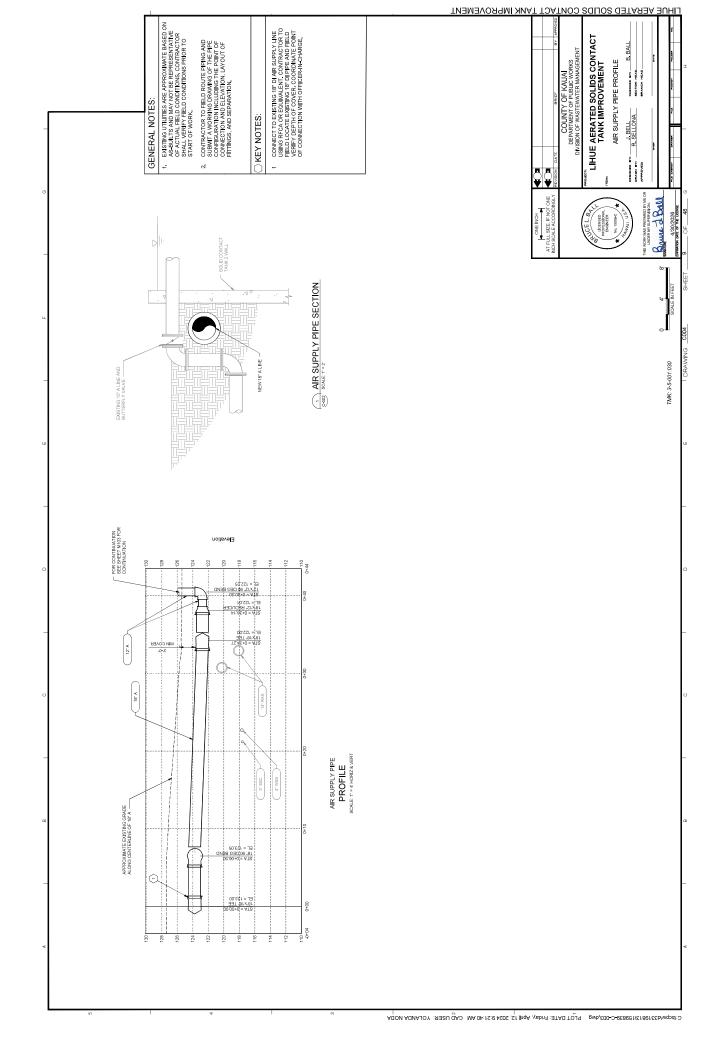
EROSION CONTROL BMP NOTES AND DETAILS LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT B.BALI COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTEWATER MANAGEMENT SECTION HEAD... DEEGONED BY J. BELL
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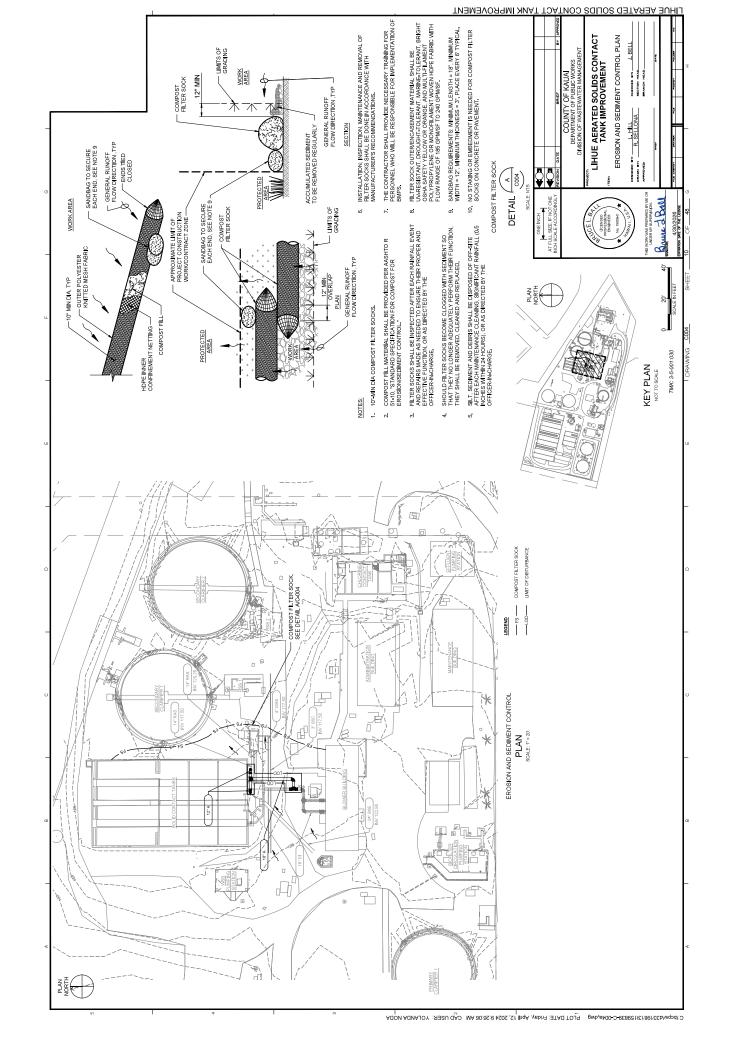
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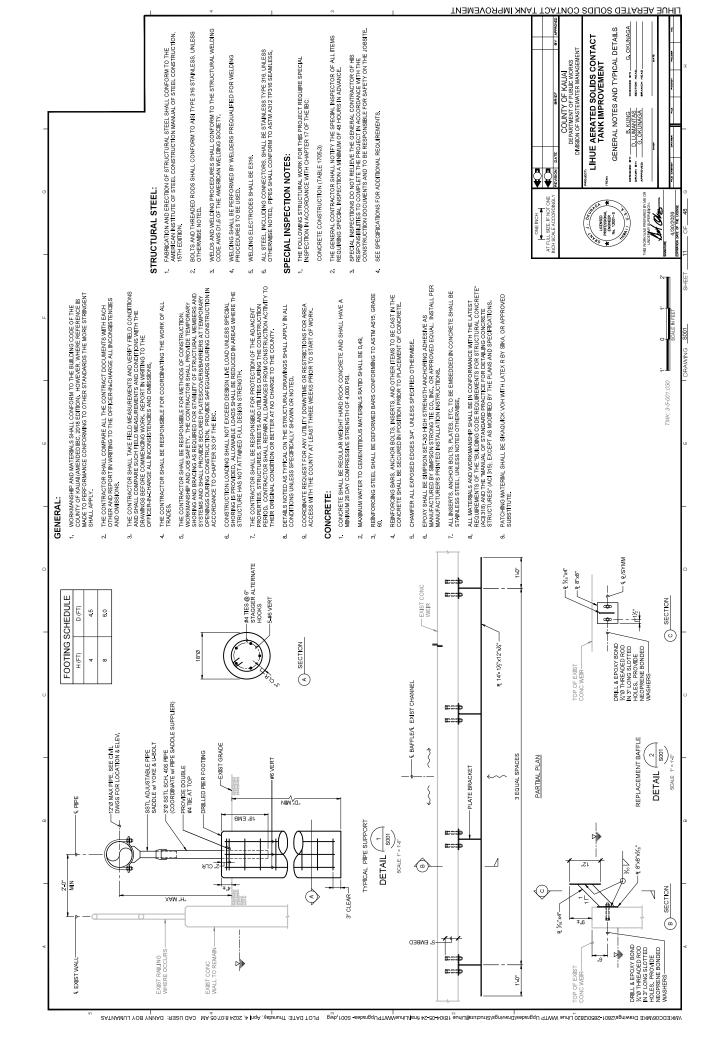
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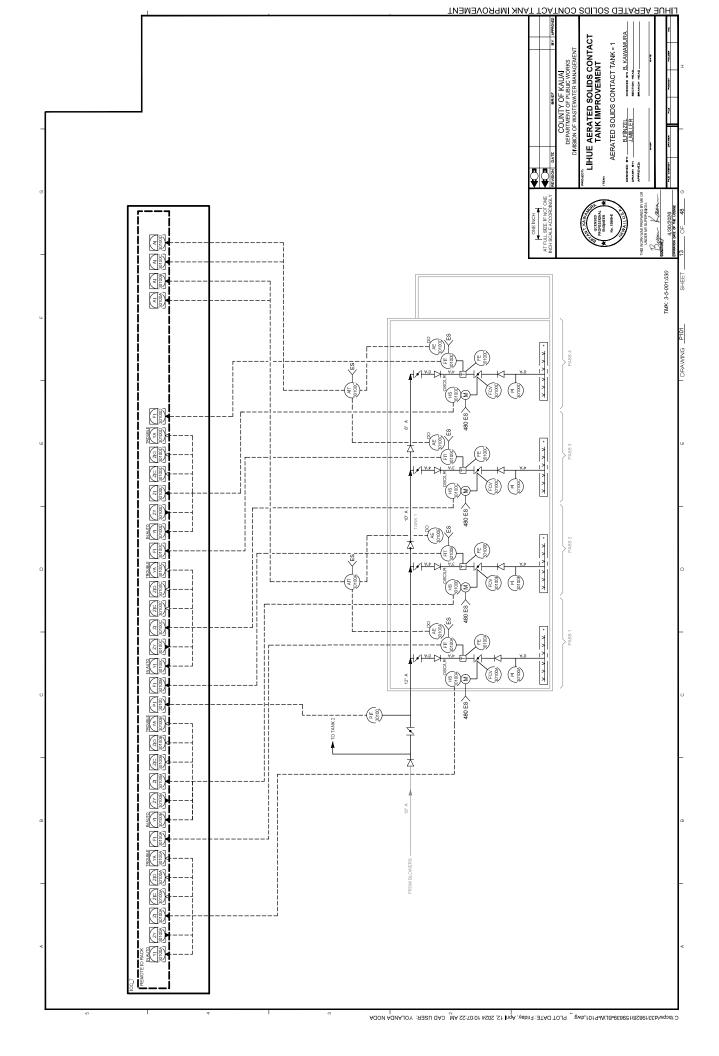


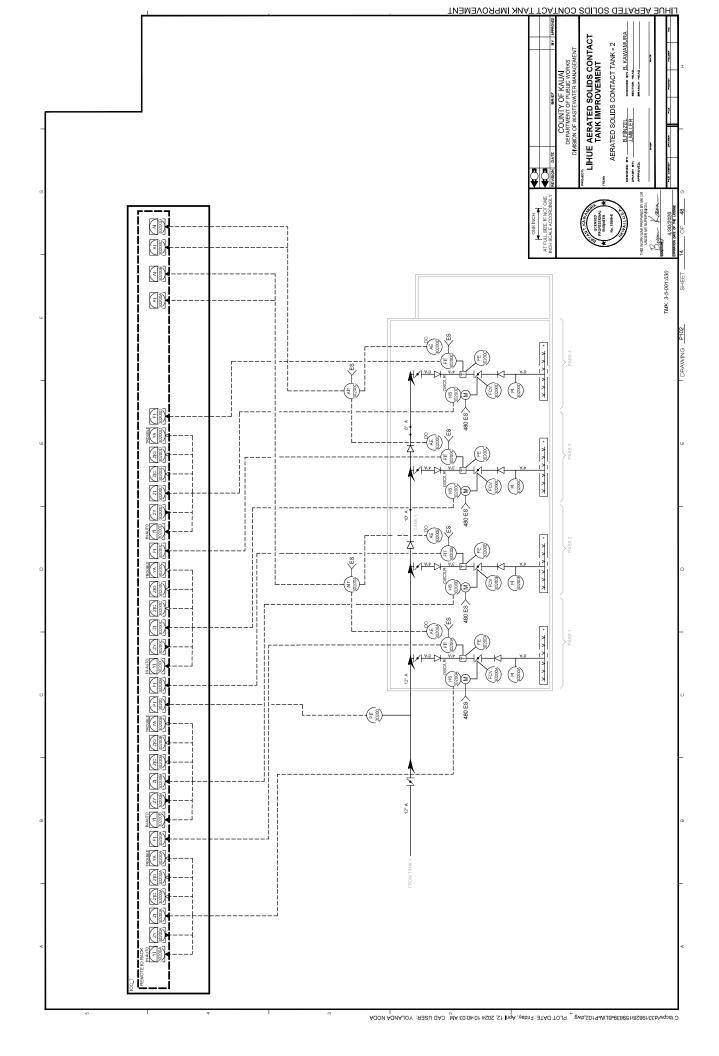




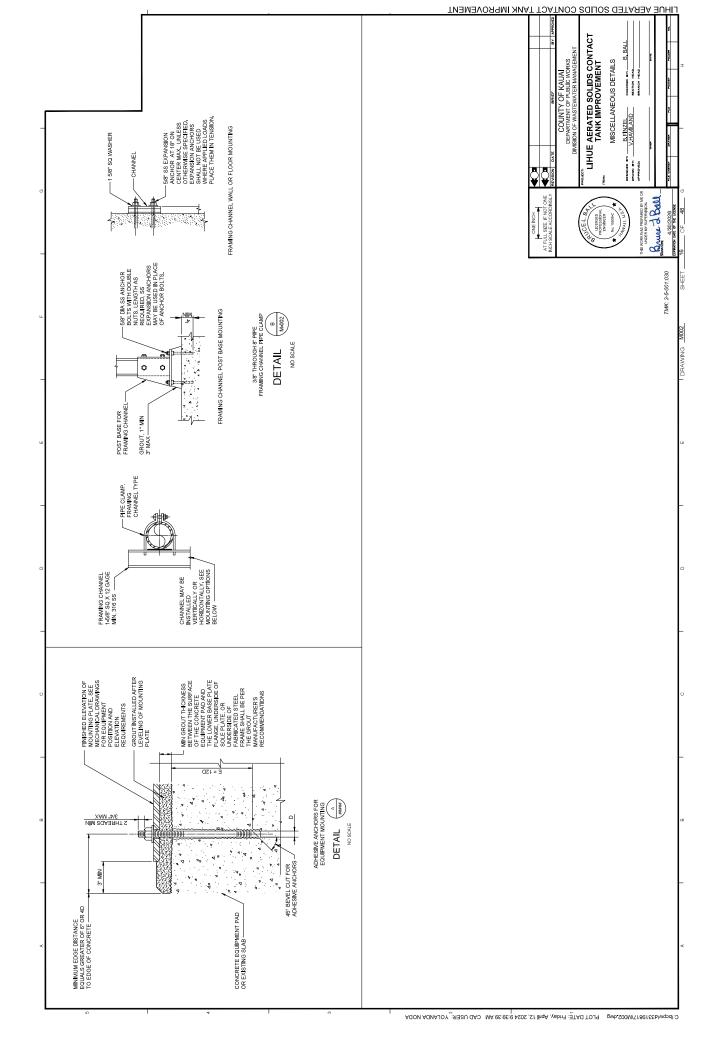


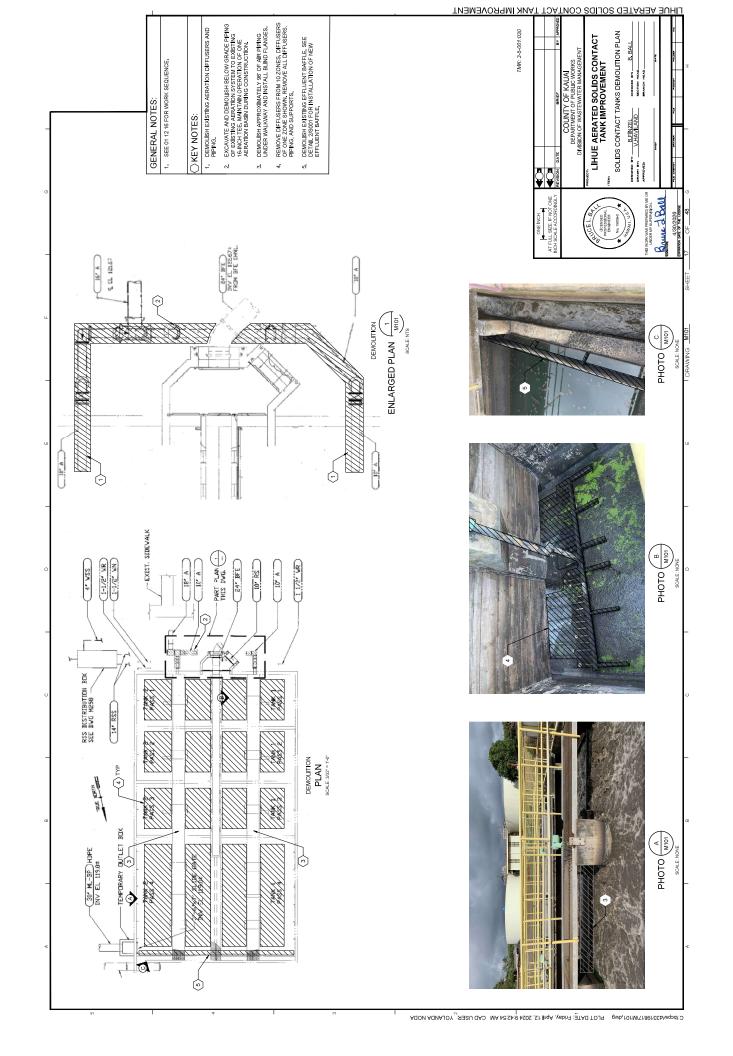
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GENERAL NOTES	1. THIS DRAWING IS GENERAL IN NATURE, SOME SYNBOLS AND IDENTIFICATION SHOWN HERCON MAY NOT BE USED ON THE CONTRACT	DRAWINGS.	2. SYMBOLS ARE ARRANGED ON SPECIFIC	DRAWINDS AIU IN CALEGORIES FUR CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE CONVENIENCE TREATMENTS.	3 FOLIDMENT DESIGNATED WITH - IS TO BE		4. USE VALVE BODY SYMBOL TO MATCH TYPE OF	VALYE.	ABBREVIATIONS	BS BAR SCREEN LCS LOCAL CONTROL STATION	MOG	GATE SCN SCN 10CA CONTROL DANE		INSTRUMENT SIGNAL SYMBOLS		INSTRUMENT SUPPLY, — — — O — O — SOFTWARE OR DATA LINK	PIECTRONG SIGNAL PREUMATIC SIGNAL	FS WATER SUPPLY 2W WATER SUPPLY	120VAC 60 HZ UNLESS 07HEWARE NOTED (e.g.	(A),4,00HCCI	PROCESS LINES		NEW PROJESS FLOW EXISTING PROCESS FLOW EXISTING PROCESS FLOW EXISTING PROCESS FLOW DATE:	<u> </u>	■ ■ ■ FUTURE — — ■ ENCLOSURE BOUNDARY	VENDOR PACKAGE BOUNDARY	CONTROL AND MEASUREMENT NOTATIONS	ACK ACKNOWLEDGE HOR HANDIOFFIREMOTE POT POTENTIOMETER	AUTOMAIN BYPASS	ROF LEADVLAG	LOR LOCALDEREMOTE COMPUTERMANUAL/UTG/TRACKINGOS LOCKOUT STOP COMBUSTIBLE SAS UR LOCAL/REMOTE SP FOOMTION PRIMER ST FOOTION PRIMER ST FOOTION PRIMER ST FOOTION PRIMER SP	CONTROL PUNET MALS MANAUTO LOADING STATION 31 CONDUCTIVITY NA OCCA OPENICLOSEAUTO TOP	DISSOLVED OXYGEN OCP PURGE VALUE OPICLIPC TBL. OLYMPIC OF OVERLOAD EMERGENCY STOP OPEN OPEN	FORWARD	FAST/SLOW HIGHLOW/OFF/AUTO		HONE INCH	AT FULL SIZE, IF NOT ONE INCH SCALE, ACCORDINGLY REWISON DATE BY APPROVE BY A	COUNTY OF KAUAI	DEPARTMENT OF POBLY WORKS DIVISION OF WASTEWATER MANAGEMENT PROMESS	LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT	A Projections A received A receiv	B.FINZEL	THE WORK WAS PREPARED BY WE CAN THE SECTION HEAD SECTION HEAD THE SECTION HEAD SECT	Marie Marie Marie mare port	SQUINE() 4/30/2026 reacountry powers recent recent recent no	Determina and a series and a se
PIPELINE DEVICES, VALVES AND GATES	— SWANG CHECK — CAP	- BALLOHECK	BLIND FLANGE KO VALVE TO PLUG	SATEVALVE CONCENTRIC SIMPLEX STRAINER	and the second s	PLUS VALVE BUILENFLY VALVE WALVE	SALL VALVE A NR RELEASE SLIDE		SAFETY PRESSURE REGULATING	NALVE VALVE		SOLENOID VALVE VALUE INOTE A		PRIMARY ELEMENTS		HYDROSTATIC LEVEL		O BUBBLER LEVEL TUBE ULTRASONIC LEVEL)))		MISCELLANEOUS EQUIPMENT	6	CENTRIFUGAL CENTRIFUGAL FAN	PUMP, Cabunge (M) MOTOR)—	PUMP, SUBMERSIBLE	HOWE			BAR SCREEN CONVEYOR	7	Nesan	۵	ION STMBOLS				FLUME ANNUBAR PLOWMETER	EIT)		WARABLE AFEA	ORRIGE PLATE VENTURI OR LEON RIGHOST LON (NO DAMICLE) VENTURI OR FLOW TUBE	(Lind		Τ	DIAPHRAGN SEAL FLANGEDITHREADED WEIR	
TO/FROM SYMBOL EXAMPLES	NOTE: WHENEVER POSSIBLE, LINES ENTER THE DRAWING FROM THE LEFT SIDE AND EXIT TO THE RIGHT.	X CHEET NIMBER	TO DESCRIPTION	DEFINES A LINE CONTINUING FROM A DRAWING, WHERE "X" IS THE OFF-PAGE CONNECTOR IDENTIFIER NUMBER.		x SHEET NUMBER →	FROM DESCRIPTION	DEFINES A LINE CONTINUING FROM A DRAWING, WHERE "X" IS THE OFF-PAGE CONNECTOR IDENTIFIER NUMBER.		S IOMNS THATHOLIN		ANALOG	→ (Pouseinhoi	DISCRETE C	INPUT		MISCELLANEOUS SYMBOLS	MOC (MOTOR CONTROL/STARTER)	PURGE OR FLUSHING DEVICE	RESET FOR LATCH-TYPE OPERATOR		CONCILIONAL LOGIC OPERAL OR		INSTRUMENT IDENTIFICATION		FUNCTIONAL IDENTIFICATION	CONTROL AND	MEASURAMENT NOTATION (234-1A — FUNCTION SYMBOL	*	PART OF VENDOR PACKAGE	- LOOP NOMBER	S INCIDI MENTATION CAMPOI	INSTRUMENTAL			~ I	ULTRASONIC FLOW ELEMENT (MULTIPLE ELEMENTS) ELEMENT		FE FE		METER ORIFICE TRANSIT WIFLANGE TAPS	(ld	Ed A		SEAL AND SEAL WELDED PRESSURE CAPILLARY	
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	OUTPUT			CONTROL							CONTROL	STATION							SWITCH	MILITERINCTION	VALVE, DAMPER.	LOUVER		AUXILIARY	DRIVER,	ACTUATOR, FINAL CONTROL ELEMENT		AND FUNCT	FIELD MOUNTED INSTRUMENT		FACE MOUNTED INSTRUMENT ON MAIN PANEL, OPERATOR ACCESSIBLE	INSTRUMENT MOUNTED ON OR IN MAIN PANEL, OPERATOR INACCESSIBLE		FACE MOUNTED INSTRUMENT ON FIELD PANEL OR MCC, OPERATOR ACCESSIBLE	INSTRUMENT MOUNTED ON OR IN FIELD	L ON MOC. OPERA	PLC SYSTEM DISPLAY OR FUNCTION, OPERATOR ACCESSIBLE	PLC SYSTEM DISPLAY OR FUNCTION OPERATOR INACCESSIRIE	WIOR INVOCESSIBL	SCADA SYSTEM DISPLAY OR FUNCTION OPERATOR ACCESSIBLE	SCADA SYSTEM DISPLAY OR FUNCTION	MTOR INACCESSIBL	'HARD WIRED' INTERLOCKING OR SEQUENTIAL CONTROL FUNCTION	SOFTWARE INTERLOCKING OR PROGRAMMABLE LOGIC CONTROLLER	TION	PILOT LIGHT	
FUNCTIONAL IDENTIFICATION	READOUT OR PASSIVE FUNCTION	ALARM				PRIMARY ELEMENT		GLASS		INDICATE	SCAN		LIGHT		ORIFICE	POINT (TEST) CONNECTION		RECORD		MIII TIRINGTION			WELL, PROBE					INSTRUMENT,	XXXX FIELD		XXXX FACE	XXX INSTR		XXXX FACE XXXX PANEI	XXX INSTR		XXXX	NXXX NXXX		XXXX	SCAD	· ·	-	<u>-</u>		DOTING	2
FUNCTIONA	MODIFIER				DIFFERENTIAL		RATIO				TIME PATE	OF CHANGE	MOMENTARDA				INTEGRATE, TOTALIZE		SAFETY				XAXIS	Y AXIS	Z AXIS			ATION			FOR IIPMENT SR	ıκ	30E		BERS		ONLY WHEN INSTRUMENTS	WISE HAVE THE BER		~		FUNCTIONAL	SEE TABLE THIS			LE: POIT)
	MEASURED OR INITIATING VARIABLE DESCRIPTION	ANALYSIS	BURNER, COMBUSTION	CONDUCTIVITY	DENSITY, SPECIFIC GRAVITY	VOLTAGE, SOLENOID	FLOW, FLOW RATE	FIRE, SMOKE	HAND	CURRENT	POWER TIME SCHEDILE	THE OCCUPANT	LEVEL	EQUIPMENT STATUS	DISSOLVED OXYGEN	PRESSURE, VACUUM	QUANTITY	RADIATION	SPEED, FREQUENCY	I EMPERATORE	VIBRATION MECHANICAL	ANALYSIS	WEIGHT, FURCE, TORQUE	EVENT, STATE OR	POSITION, DIMENSION			EQUIPMENT IDENTIFICATION		SUFFIX USED FOR WITHE CEDIPMENT OF CORP TO STATE OF THE PRINCIPLE OF THE PRINCIPLE PLANT AREA FLANT AREA ELOUPHENT ONE		PLANT AREA EQUIPMENT CODE		INSTRUMENT TAG NUMBERS	\$\$\$-\$	L SUFFIX - USED (WOULD OTHERWISE HAVE THE SAME TAG NUMBER	LOOP NUMBER	SHEET NUMBER PLANT AREA	- SUCCEEDING LETTERS; READOUT OR PASSIVE	FUNCTION AND/OR COLLEGE FUNCTION WITH MODIFIER WHEN REQUIRED	MODIFIER LETTER, WHEN		VARIABLE LETTER	EXAMPLE:		
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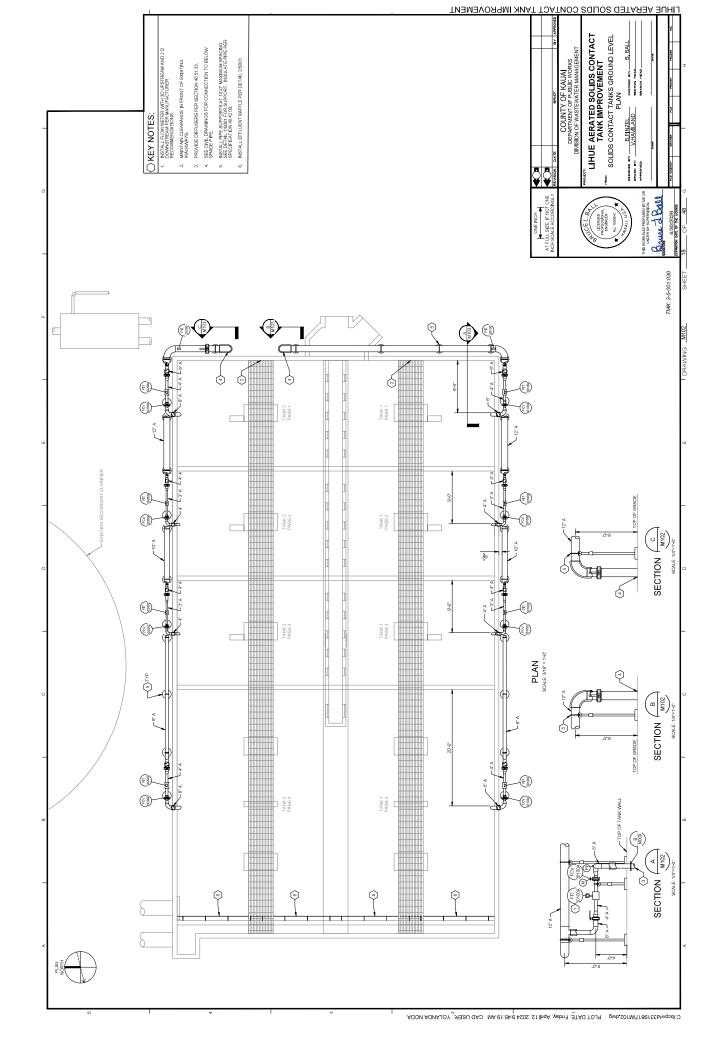


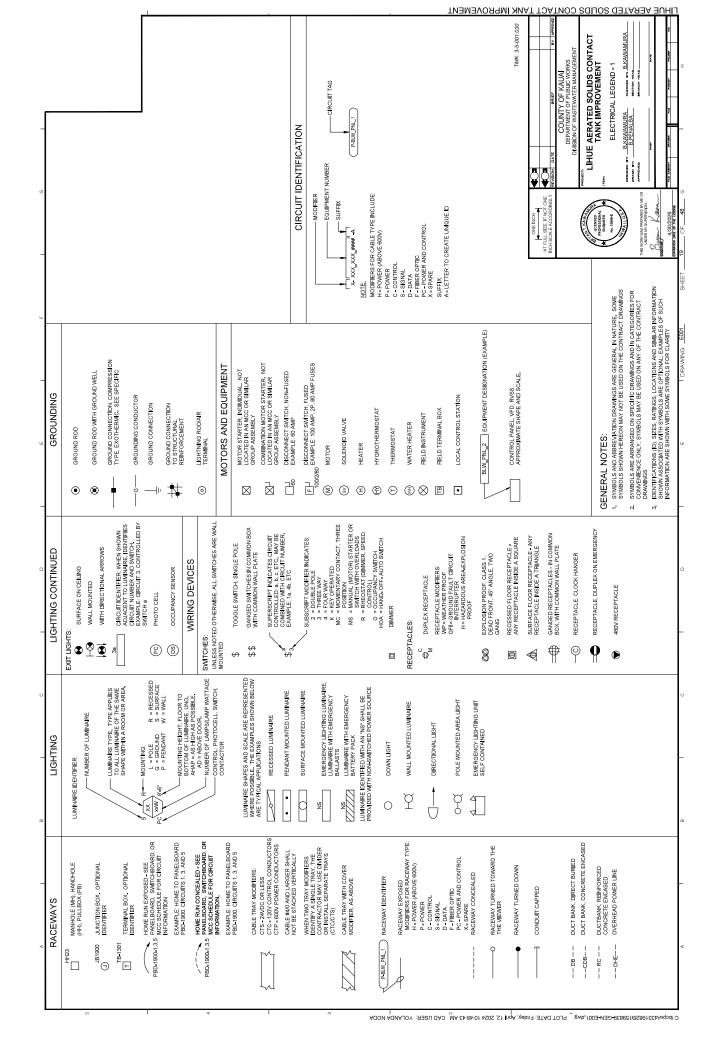


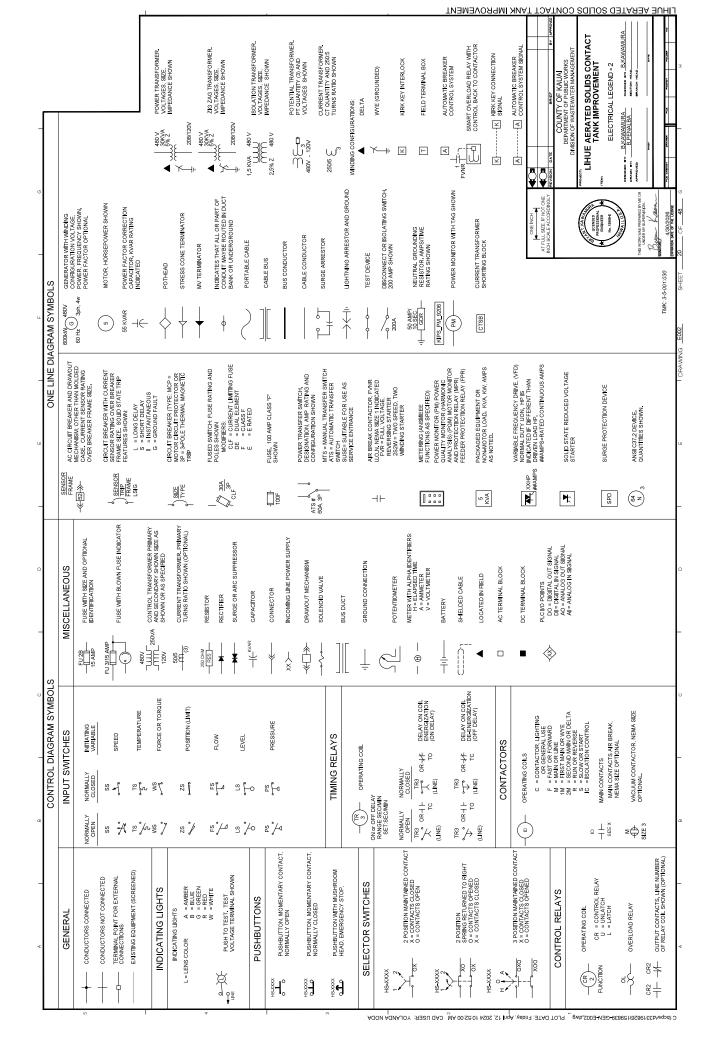
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MISCELLANEOUS DEVICES	UTITY STATION (LETTER, IF		O XCO CLEANOUT; X=DESIGNATION IF ANY		IN LINE PRESSURE SENSOR	XX DISTRUMENT DE DENSITY ELEMENT FE FLOW ELEMENT		IE IEMPERATURE INOICATOR TI TEMPERATURE INOICATOR	PIPING SYSTEMS	PIPNG SYSTEMS ARE CALLED OUT BY SIZE POLLOWED BY PIPNG SYMBOL, ENCLOSED AS SHOWN. T T T T T T T T T	PIPE SIZE PIPING SYSTEM (SEE PIPING 12" RSP	SYMBOLS OR DWG-POOZ AND SECTION 44 DG 50 OF SPECIFICATIONS)	PIPING SYSTEM DESIGNATIONS FOR EXISTING PIPE INDICATE TYPE OF SERVICE ONLY AND DO NOT IMPLY PIPE MATERIALIS USED. SEE DWO P-OOI FOR EXISTING PIPING ABBREVATIONS. CENTED ALL NOTES.	1. THIS DRAWING IS GENERAL IN NATURE. SOME DESIGNATIONS SHOWN HEREON	MAY NOT BE USED ON THE CONTRACT DRAWNINSS. 2. SEE DRAWNING POOLS OF EQUIPMENT REFERENCE AND PPING SYSTEM. Information and the contraction of the	IMPLICATION AS TO PIPING MATERIAL. 3. EXISTING PIPING MATERIAL. JF KNOWN, IS NOTCATED SEPARATELY, AND MAY NOT	DEL THE SAME MAY LEWALL AS SPECIATED YOU NEW PERMIT OF ALC. 4. SEE PRINGS SPECIATED NS HEETS (PIPE SPECS) IN SPECIFICATION SECTION 4. OG OF POR PRINGS SYSTEM REQUIREMENTS.	5. SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR COMPANIANCS ONLY; SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWANGS.	6. THE MICHANICAL DRAWINGS REPRESENT THE ACTUAL IPPING AND EQUIPMENT LYFOUT AND LOCATIONS. IN CASE OF CONFLICT RETWEN THE	PROCESS-INSTRUMENTATION AND MECHANICAL DRAWNIGS. THE CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWNIGS.	A TORRE MODIFIED TO THE MODIFI	REVISION OF WASTEWARTER MANAGEMENT DIVISION OF WASTEWARTER MANAGEMENT DIVISION OF WASTEWARTER MANAGEMENT	Modern Control	STANDARD SYMBC	DRAWN BY:	7.14K 3-5-001.030 pressure act 94 cooper
MECHANICAL PIPE AND FITTINGS		FLANGED JOINT	PLAIN OR GROOVED END MECHANICAL COUPLING	PUSH ON OR BALL AND SOCKET JOINT	MECHAN/CAL JOINT	WELDED JOINT GROOVED END A DADTTER EI ANDEN EI ANDEN	NOINO	SLEEVE TYPE MECHANCAL GOUPLING	RESTRAINED SLEEVE TYPE MECHANICAL	FLANGED COUPLING ADAPTER GESTAMED ET ANGED	RESTRANDED FLANGED COUPLING ADAPTER OR DISMANTLING JOINT EL ASTOMED AND EARDED	EXPANSION JOINT (SEE	SPECS FOR TYPE) FLEXIBLE METAL HOSE	EQUIPMENT CONNECTION FITTING	ELBOW UP	ELBOW DOWN	TEE UP	TEE DOWN	LATERAL UP	CONCENTRIC REDUCER	ECCENTRIC REDUCER					
MECHANICAI	2D DOUBLE LINE	€ 3	€ 				•								£:::							ı				
	2D SINGLE LINE	<u></u>		+	+	<u> </u>	= ‡	#	#	#	<u> </u> 3	 		#	•		÷	 	 	 	z ‡					
	VALVE TYPE	GAUGE OR ROOT VALVE	KNIFE GATE VALVE	FLAP GATE	BALANCING COCK	CIRCUIT SETTER	THERMOSTATICALLY CONTROLLED VALVE	PRESSURE AND VACUUM RELIEF VALVE	VACUUM RELIEF VALVE	PRESSURE RELIEF VALVE	IN-LINE, SPRING LOADED RELIEF VALVE	PRESSURE REGULATING VALVE	BACK PRESSURE REGULATING VALVE	SOLENOID VALVE	DIAPHRAGM OPERATED VALVE	PRESSURE BALANCE OPERATED VALVE	MOTOR OPERATED VALVE	PISTON OPERATED VALVE	CHLORINE INSTITUTE CONTAINER VALVE	MUD VALVE	WALL HYDRANT	TELESCOPING VALVE				
/ES	SCHEMATIC OR 2D	Ю	Ē	∠	ı₹	₹Ž	⊱	****	****	- #151-	\$	4		<u>∞</u> <u>X</u>	⊕	⊕	> −¥	⊞₹	<u>↓</u>	Ц	<u></u>	-≥ …				
VALVES	VALVE TYPE	THREE WAY VALVE	GATE VALVE (FLANGED)	GATE VALVE (THREADED)	PLUG VALVE (GEAR OPERATOR)	PLUG VALVE (LEVER HANDLE)	BALL VALVE (THREADED)	BALL VALVE (FLANGED)	BUTTERFLY VALVE (LUGGEDWAFER)	BUTTERFLY VALVE (AWWA W/ HANDWHEEL ACTUATOR)	GLOBE VALVE (FLANGED)	GLOBE VALVE (THREADED)	DIAPHRAGM VALVE (FLANGED)	DJAPHRAGM VALVE (THREADED)	CHECK VALVE	PUMP DISCHARGE VALVE	DOUBLE LEAF CHECK VALVE	ANGLE VALVE	FLOAT VALVE	PINCH VALVE	FUSIBLE LINK VALVE	NEEDLE VALVE	BALL CHECK VALVE			
	SCHEMATIC OR 2D	⅓	X	X		∑	፟	Ī	≤	\leq	₫	₫	K	K	Z1 ∑	X	I⊽	V	ģ	HΩ	₹	ŀ₹	I₹			



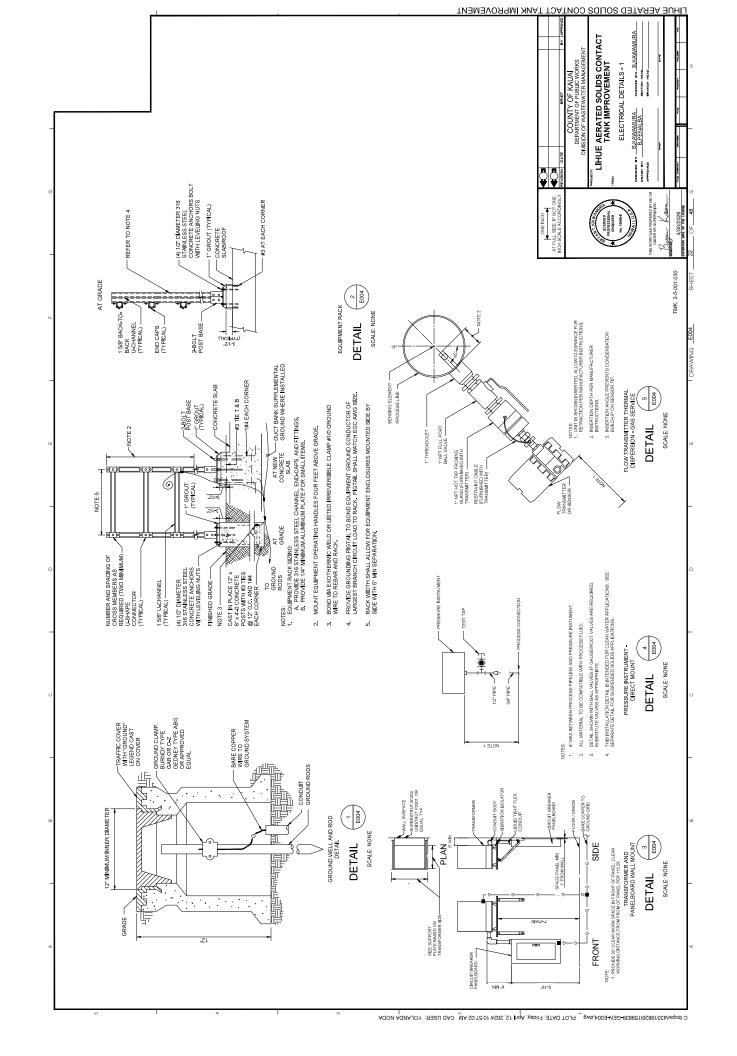


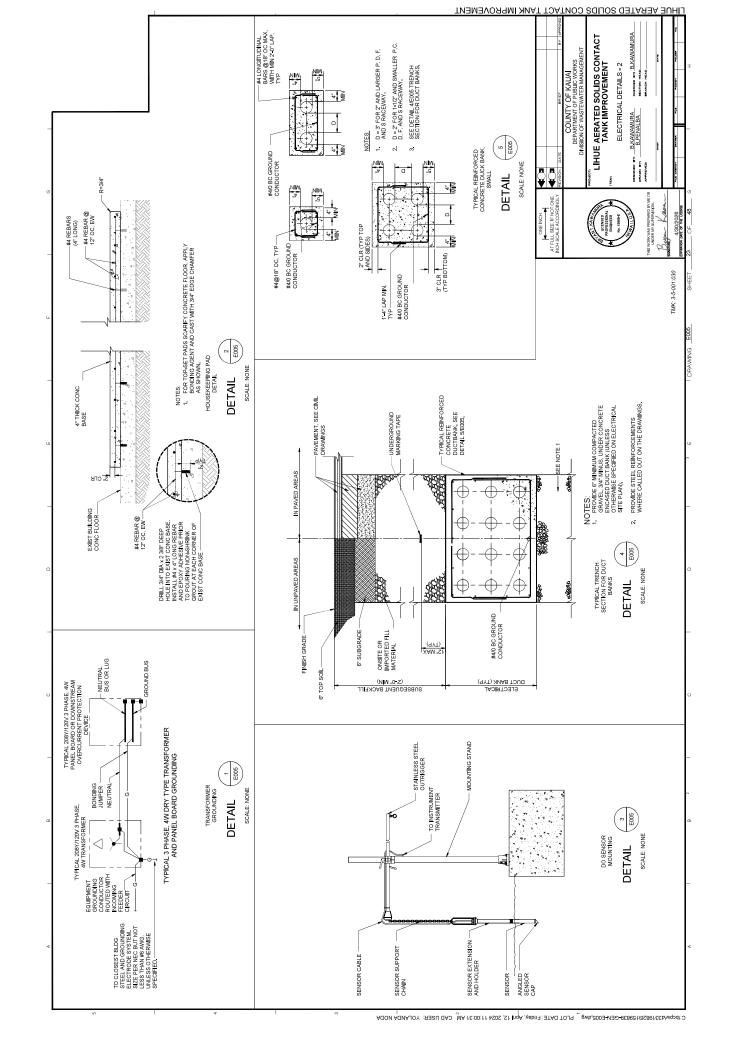


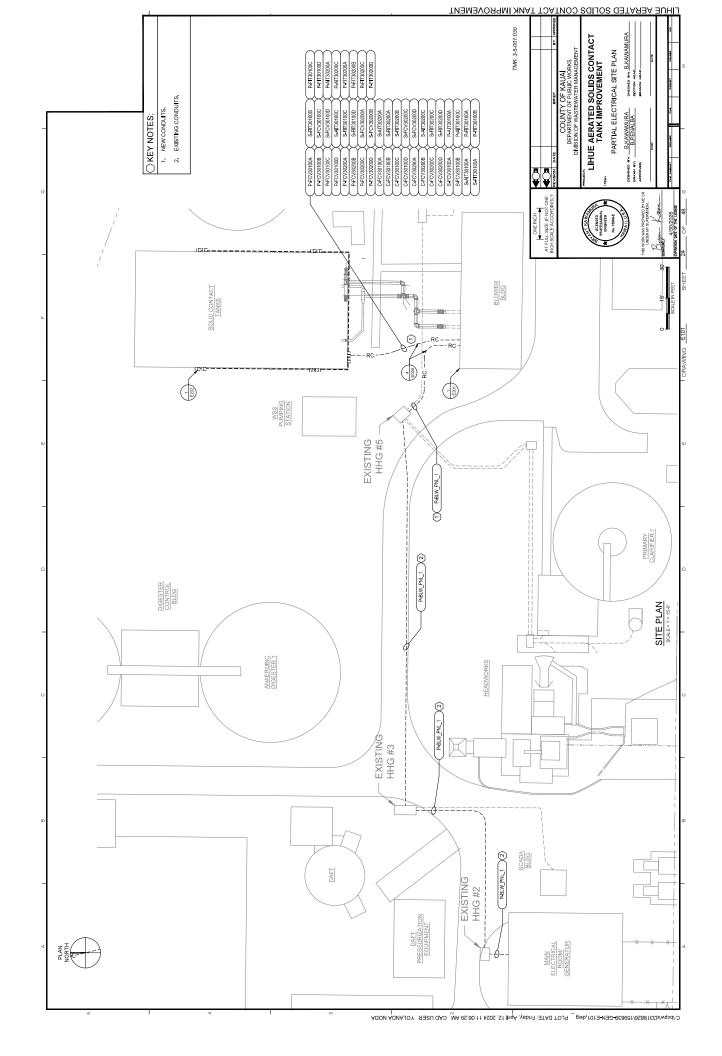


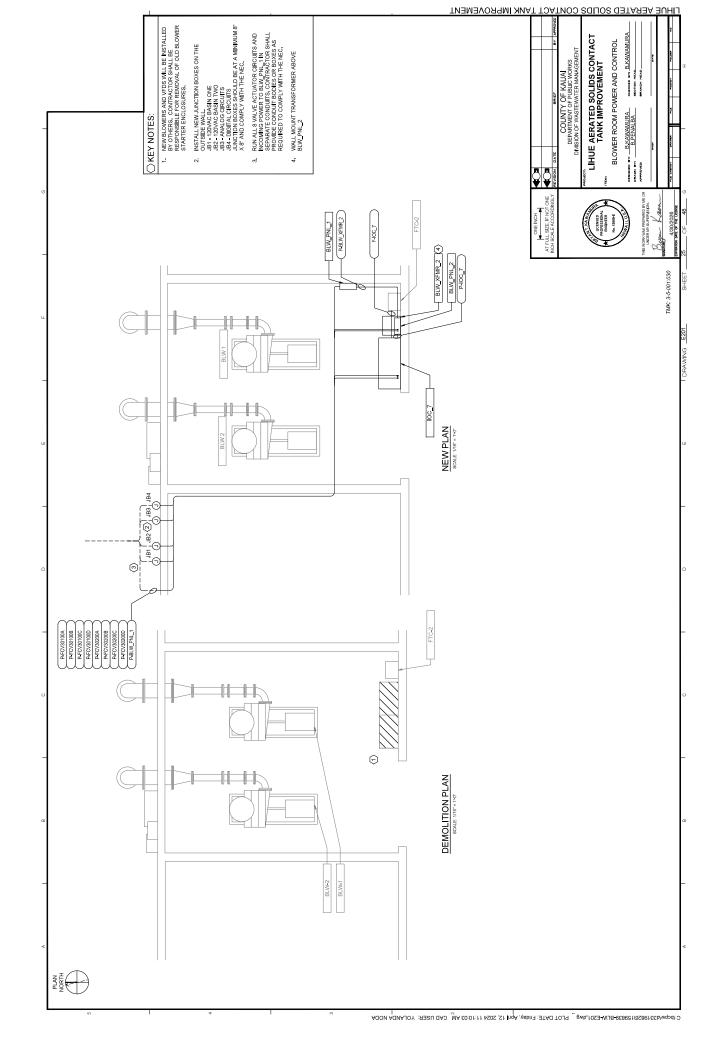


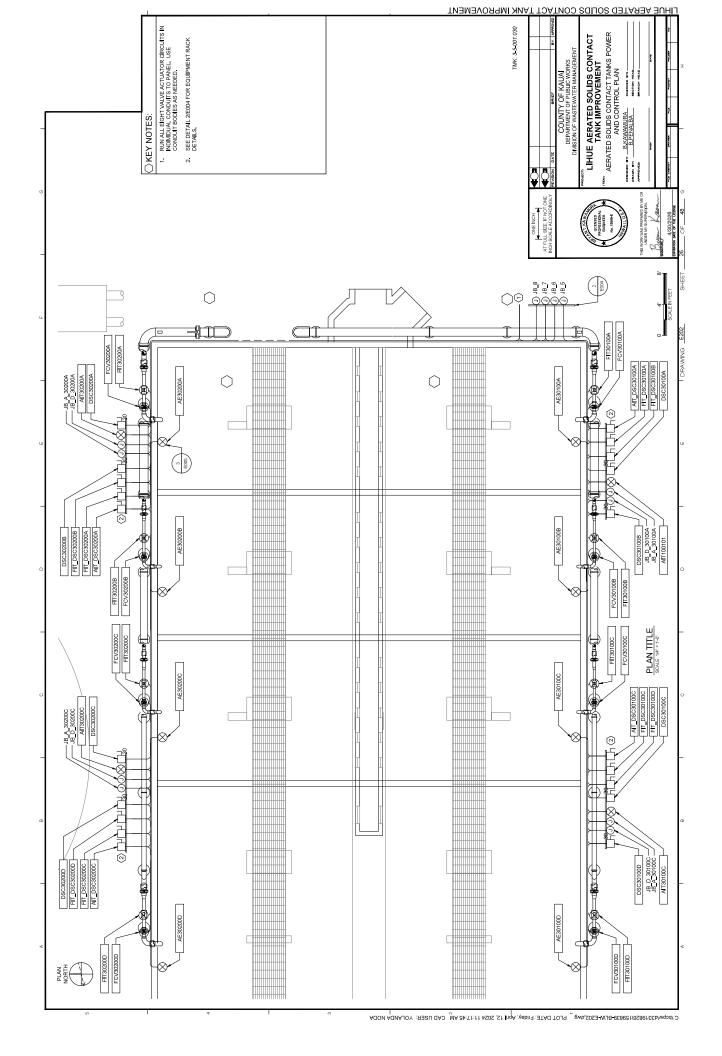
	LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT
	STATISTICS ENGINE ENGIN
GENERAL NOTES	THE CONTRACTOR SHALL USE THE REACHED THE TOWN THE CONTRACTOR OF THE TEXT OF THE THE TEXT OF THE THE TEXT OF THE THE TEXT OF THE
	SCADA SURGE ARRESTOR SCADA SUPERVOSORY CONTROL AND BATA-ACQUISITION BEET SELECTOR SELECTOR SURGE PRESTOR SUBJECTOR OF SURGE PROTECTION DEVOE SUBJECTOR OF SUBJECTION DEVOE NOT SUBJECTOR OF
S	MAXIMUM MAXIMUM MANUAL BYPASS SWITCH MOTOR CONTROL CENTER MOTOR CONTROL CENTER MOTOR CONTROL MANUAL METCHOR MUNICATURED MANUAL CALLOR MANUAL TRANSFER SWITCH MANUAL TRANSFER MANUAL TRANSF
ABBREVIATIONS	PAREE ANTONS SHOWN ON ELECTRICAL DRAWINGS ARE IN ACCORDANCE WITH ASME STRANDARD YN, 28A ASSERVATIONS ARE END SHOULD ON ELECTRICAL DRAWINGS. A CATEGORY METERS AND THE PROPERTY IN A CATE
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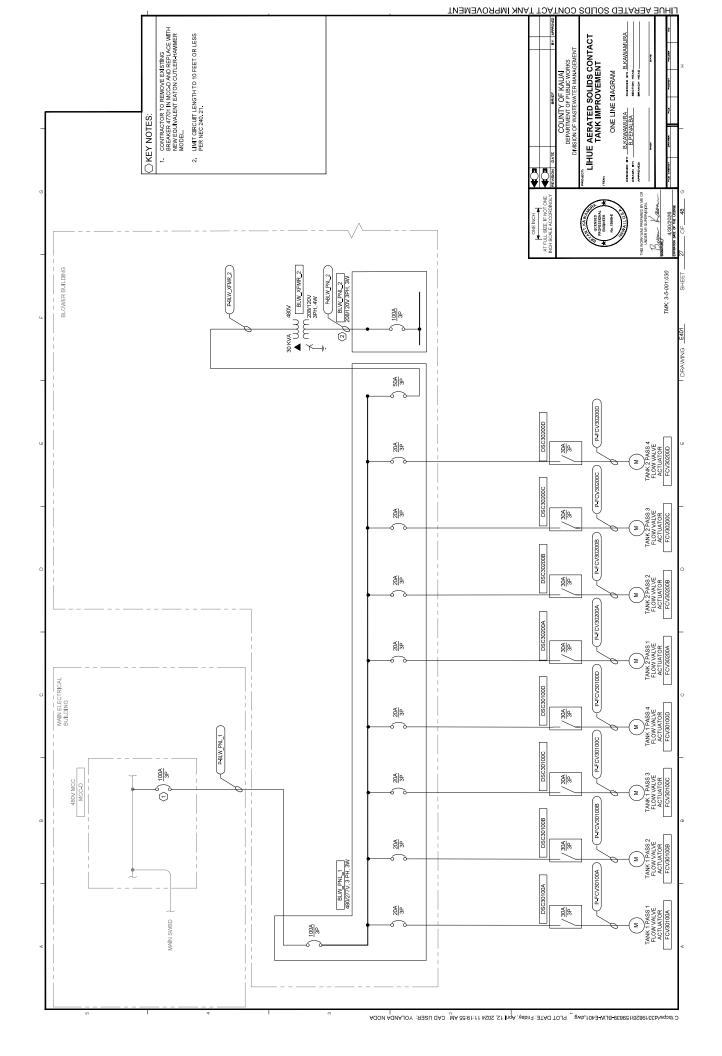












LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT SECTION HEAD. LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORK:
DIVISION OF WASTEWATER MANAGE PANEL SCHEDULE DESIGNED BY B.KAWAMURA
DEAMN BY B.PENALBA
APPROVED! **\$**\$ IS WORK WAS PREPARED BY MI UNDER MY SUPERVISION. Bryan Kalen 4/30/2026 TMK: 3-5-001:030 FEED-THRULUGS DOUBLE LUGS ISOLATED GND 200% NEUTRAL PHASE BALANCE ONLY
28 AMPS
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25 AMPS PHASE BALANCE CNLY
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65 AMPS CIRCUIT DESCRIPTION AND THE BUILDING PANEL BLW-PNL-2

AND THE TOWN BUILDING PANEL BLW-PNL-2

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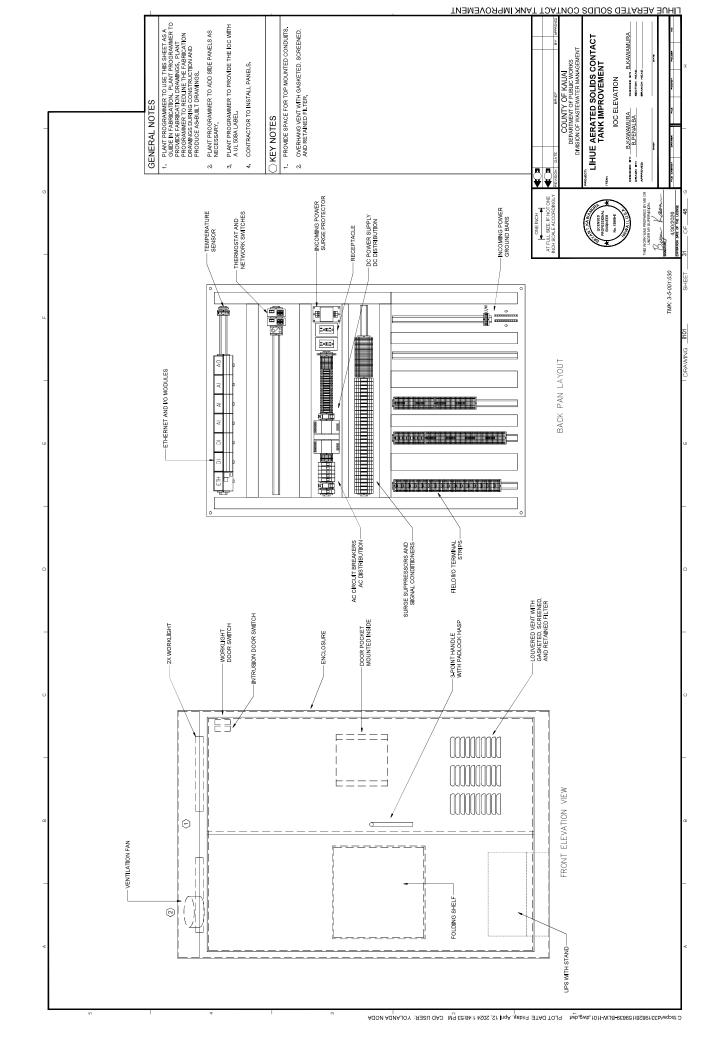
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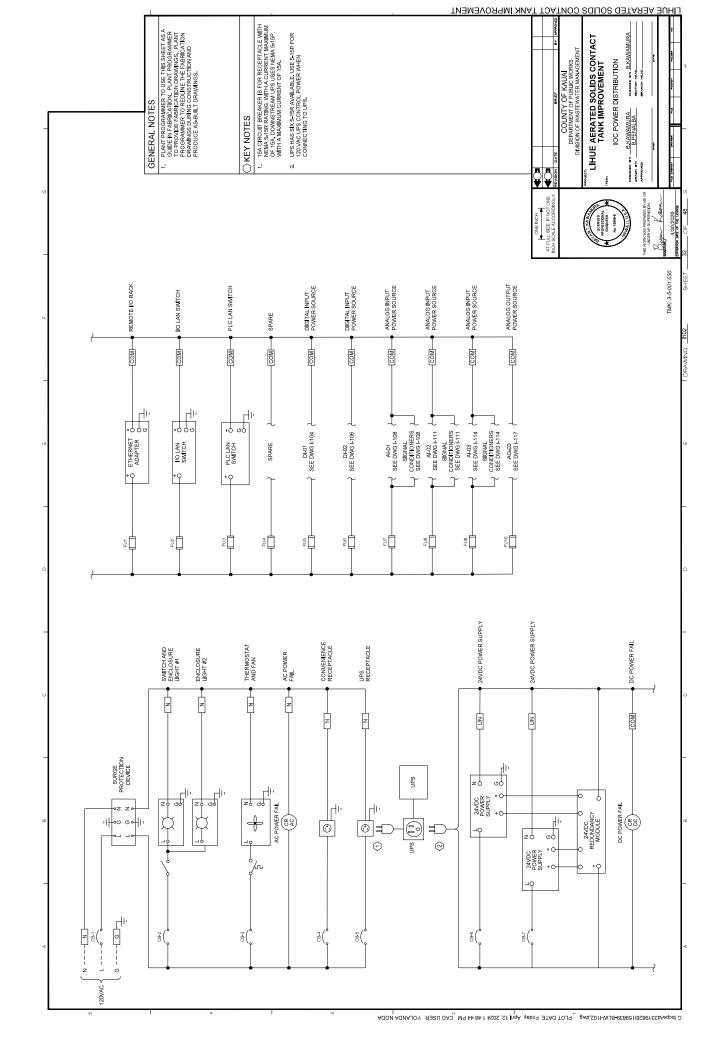
TOWN BUILDING R TANK 1 PASS 2 VALVE ACTUATOR TANK 1 PASS 4 VALVE ACTUATOR TANK 2 PASS 2 VALVE ACTUATOR TANK 2 PASS 4 VALVE ACTUATOR SURGE PROTECTION DEVICE Σ Σ Σ Σ М Z 26 4- 20
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SOLDS CONTACT TANK 2 DO CONTROLLER 1
SOLDS CONTACT TANK 1 PASS 3 FLOW METER
SOLDS CONTACT TANK 1 PASS 3 FLOW METER
SOLDS CONTACT TANK 2 PASS 3 FLOW METER
SOLDS CONTACT TANK 2 PASS 3 FLOW METER CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION ODES:
H = HVAC LOADS
H = HVAC LOADS
L = LOFING LOADS
L = LOFING LOADS
L = LOFING LOADS
M = TARGEST SEACE BOTTAR
M = OTHER MOTOR LOADS
NC = WONCCONCENTRAL LOADS
R = GENERAL LISE RECEPTOLES
S = DEDICATED SECRETALLS
Z = MISC. OR APPLANCES
Z = MISC. OR APPLANCES NORMAL POWER PNL. MFR.: CAT. NO.: REF. DWG.: NORMAL POWER PNL. MFR.: CAT. NO.: REF. DWG.: TANK 2 PASS 3 VALVE ACTUATOR FANK 1 PASS 1 VALVE ACTUATOR IANK 1 PASS 3 VALVE ACTUATOR FANK 2 PASS 1 VALVE ACTUATOR TRANSFORMER BLW-XMFR-2 PANEL SCHEDULE 460 VCLTS 3 - PHASE 4 - WIRE PANEL SCHEDULE 08Y120 VOLTS 3 -PHASE 4 -WIRE C:/bcpw/d3319826/159839-BLW-E402.dwg_ PLOT DATE: Friday, April 12, 2024 11:22:16 AM CAD USER: YOLANDA NODA

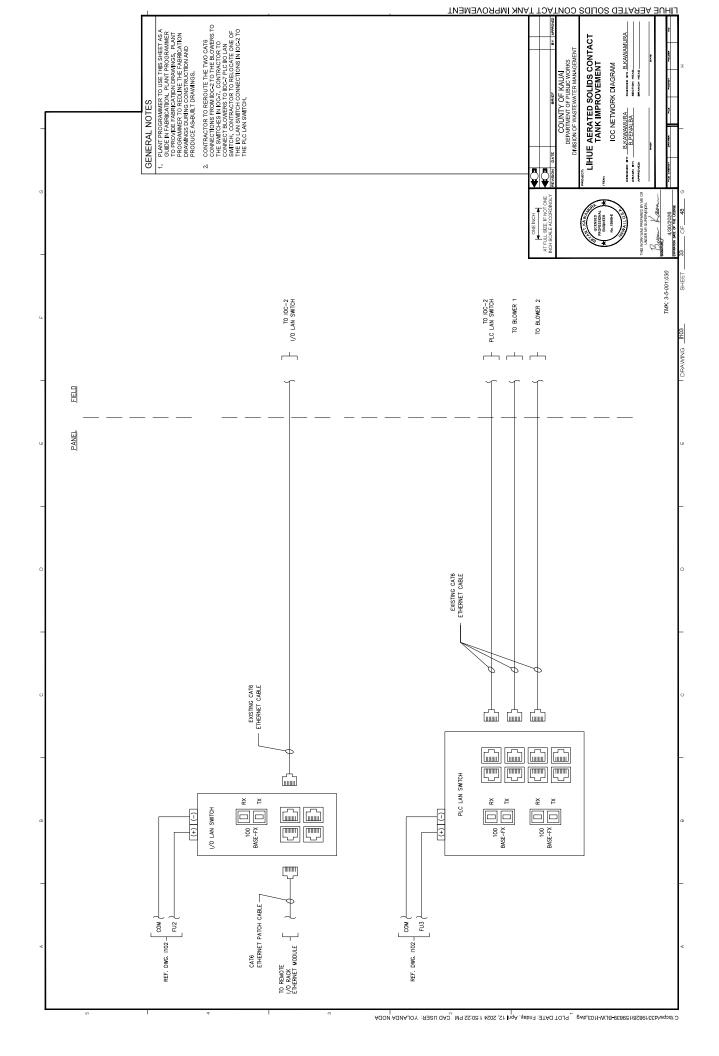
CHECKED BY: B.KAWAMURA SECTION HEAD. LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT CIRCUIT SCHEDULE B.KAWAMURA B.PENALBA DESIGNED BY: ₽₽ NOTES TO MCC-C BREAKER BLW_PRL_1 BLW_2FMR_2 BLW_PRL_2 FTD-2 TMK: 3-5-001:030 RW SIZE .#10 |-#10 |-#10 |-#10 1#10 1#10 64-#14 12-#10, 12-#10, .B_3 .B_2 Š B. 4 .B_1 RW SIZE (INCH) 2 12-#10,1#10 64-#12 28-STP WIRE JB_5 . 9 9 ¥ JB_3 COUNT 16-414 16-414 16-414 7-STP 7-STP 7-STP 715-7 WIRE J8_D_1D0131 JB_D_200131 JB_A_1D0133 1C10C1_A_8L JB_A_200133 ě ELW, FN, 1 ELW, RN, 2 ELW, PN, 2 ICC, 7 ICC, 7 ICC, 7 ICC, 8 ELW, FN, 1 8888888 888888

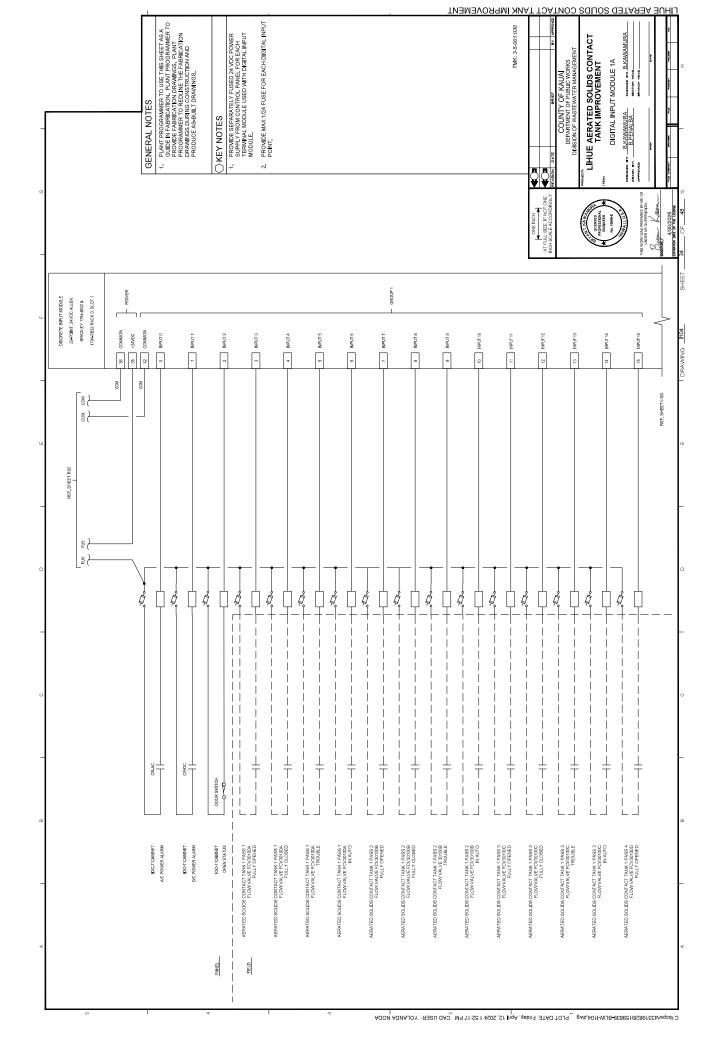
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

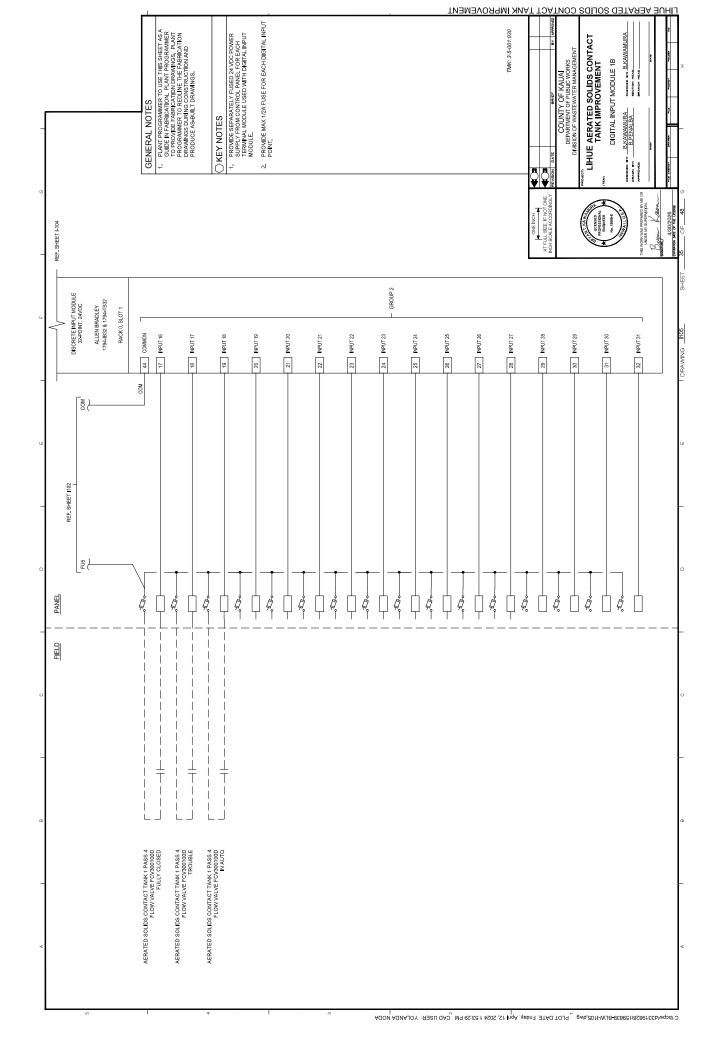
	TIMING RELAYS	ON 0.0 FERATING COL. RANGE SECMIN SET SECMIN	NORMALLY NORMALLY CLOSED GEOSED GEOSE	1. THIS DRAWING IS GENERAL IN NATURE. SOME SYMPLOIS BY WHAT WOT BE USED SYMPLOIS ARE NOT THE OWN THE CONTRACT DRAWING SA PARBOLS ARE		ON DELAY ON COLL ENERGIZATION) RELAY CONTACTS WITH NUMBER OF SPEEK AND OPTIONAL REF. OR DESCRIPTION.	NOTC = NORMALLY OPEN TIME CLOSE, NOTO = NORMALLY CLOSED TIME OPEN.	TR3 TR3	osa osa osa	OFF DELAY (DELAY ON COLL DE-ENERGEATION) RELAY CONTACTS	MATH NUMERO FERETA XAND OPTIONAL REF. OR DESCRIPTION. NOTO = NORMALLY OLOSED TIME OCT. OR OR OF TIME OCT. OF TIME OF T	TR3		O'NT ACTS WITH MOMENTS PRETAN AND OPTIONAL REF. OR DESCRIPTION.	MISCELLANEOUS	NA POR NA	250 OHM RES	<u></u>	SURGE OR ARC SUPRESSOR	SAR.	COUNTY OF KAUA DEPARTMENT OF PUBLIC WORKS	REMOTE DEVEL COCATED AT THE DEVELOR TO TWASTERWATTER MANAGEMENT LOCATION HELD EQUIPMENT	CORONAL CONTRACTOR CON	MECHANICAL INTERLOCK MECHANICA	MECHANICAL INTERLOCK MECHANICA	MECHANICAL INTERLOCK MECHANICAL INTERLOCK MECHANICAL INTERLOCK MINIMIST IN SERVICE CONNECTION MINIMIST IN SERVICE MINIM
I D D D D D D D D D D D D D D D D D D D	CONTROL RELAYS	$ \begin{array}{ccc} CR & \text{OPERATING COIL} \\ CR & = \text{CONTROL RELAY} \\ U & = \text{UNLATCH} \\ L & = \text{LATCH} \\ \end{array} $	OL THERMAL OVERLOAD RELAY	cr2 cr2 	INDICATING LIGHTS	INDICATING LIGHTS L = LENS COLOR: A = AMBER B = BLUE B = BLUE G = GREEN	R = RED W = WHITE	STATUS DIRECT CONNECTION	XI - O STATIS PUSH TO TEST. TEST VOLTAGE TERMINAL SHOWN	CONTACTORS	D OPERATING COILS C = CONTACTOR, LIGHTING	F = FAST OR FORWARD M = MAIN OR LINE	1M = FIRST MAIN OR WYE 2M = SECOND MAIN OR DELTA R = RUN OR REVERSE S = SLOW OR START	ID MAIN CONTACTS	90 V O - F1 10 T	OUTPUT LOADS AND DEVICES	250 W Space HEATED WATTAGE SHOWN		SOLENOID	HOUR METER (ELAPSED TIME)		(AC) TIME CONTROLLER		ENCLOSURE FAN	● ENCLOSURE FAN DEFINITIONS	DEFINITIONS AR = AS REQUIRED
CONTROL DIAGRAM SYMBOLS	SELECTOR SWITCHES	2 2 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED	m	3 POSITION MAINTAINED CONTACT x = CONTACTS CLOSED	*	° 5-	C 2 POSITION SPRING RETURNED TO RIGHT			3 POSITION SPRING RETURNED TO CENTER	x = contacts closed	INPUT SWITCHES		FS-102	LIOW P-4		100 LS-102 LEVEL		PRESSURE	88-100					15 <u>1</u> 001	示 1001 1001 1000 1000 1000 1000 1000 10
8	GENERAL	CONDUCTORS CONNECTED	CONDUCTORS NOT CONNECTED ID	TBID TERMINAL POINT	DEMOLITION		TRANSFORMERS	480V CONTROL TRANSFORMER, PRIMARY ULULU 250VA AND SECONDARY VOLTAGES SHOWN.	- SIZE AS SHOWN OR SPECIFIED.	SOS CURRENT TRANSFORMER, PRIMARY, X° O	DISCONNECTS AND OVERCURRENT DEVICES	TBID OIL	AMPS MAGNETIC, 1 POLE NORMALY NORMALLY OPEN	BISCONNECT, 1 POLE, UON FS-10.		AMPS AMPS AMPS	BLOWN FUSE INDICATOR	01-8d	<u></u>		PUSHBUTTONS	ID PUSHBUTTON, MOMENTARY CONTACT,	NORMALLY OPEN			PUSHBUTTON MOMENTARY CONTACT, NORMALLY CLOSED PUSHBUTTON WITH MUSHROOM

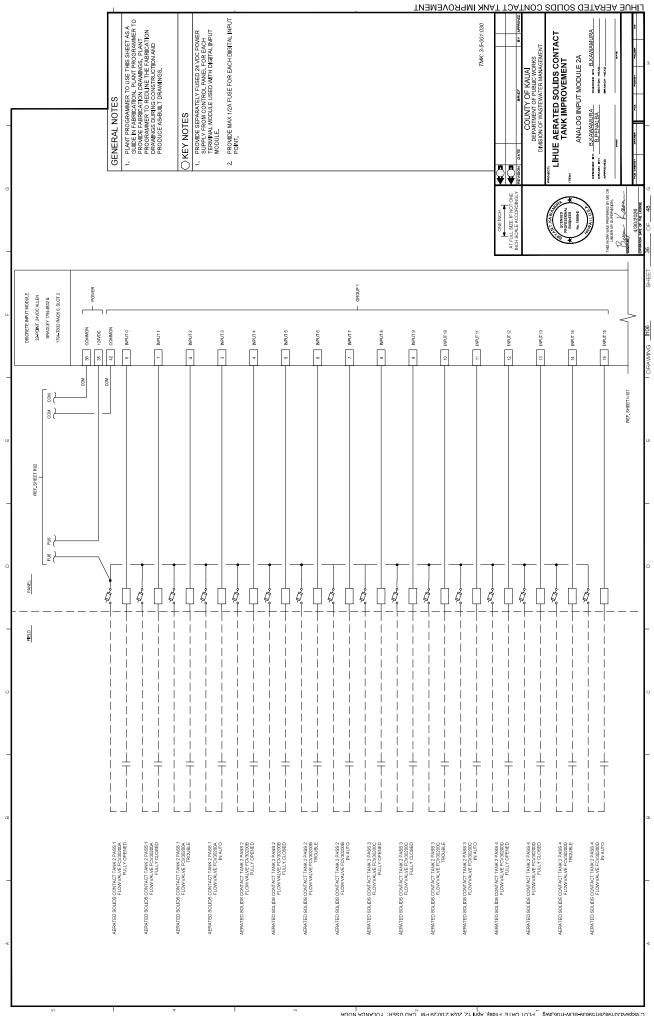


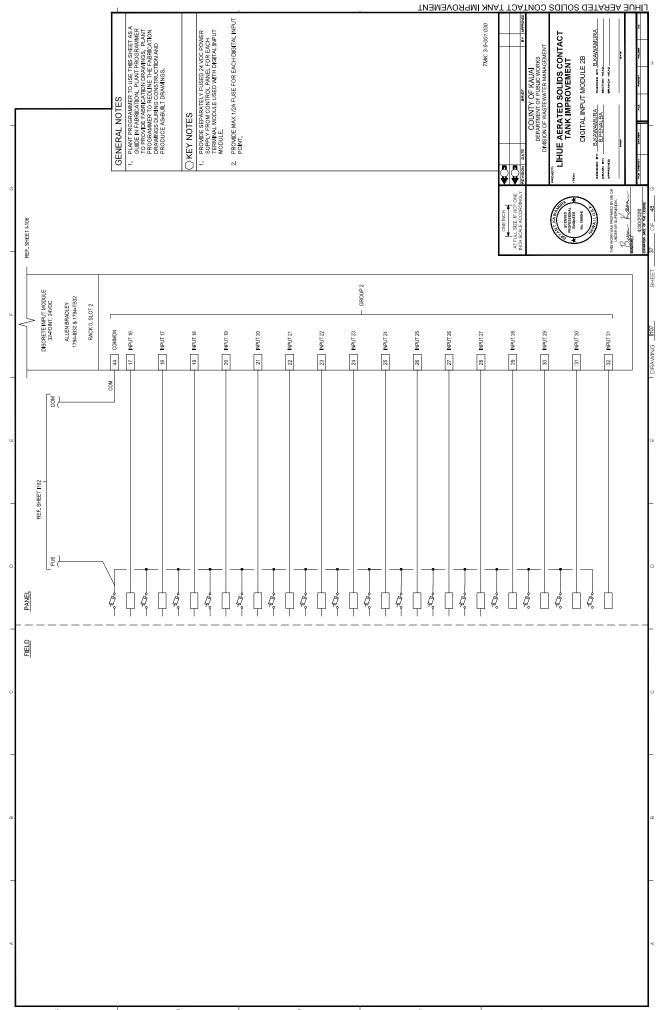


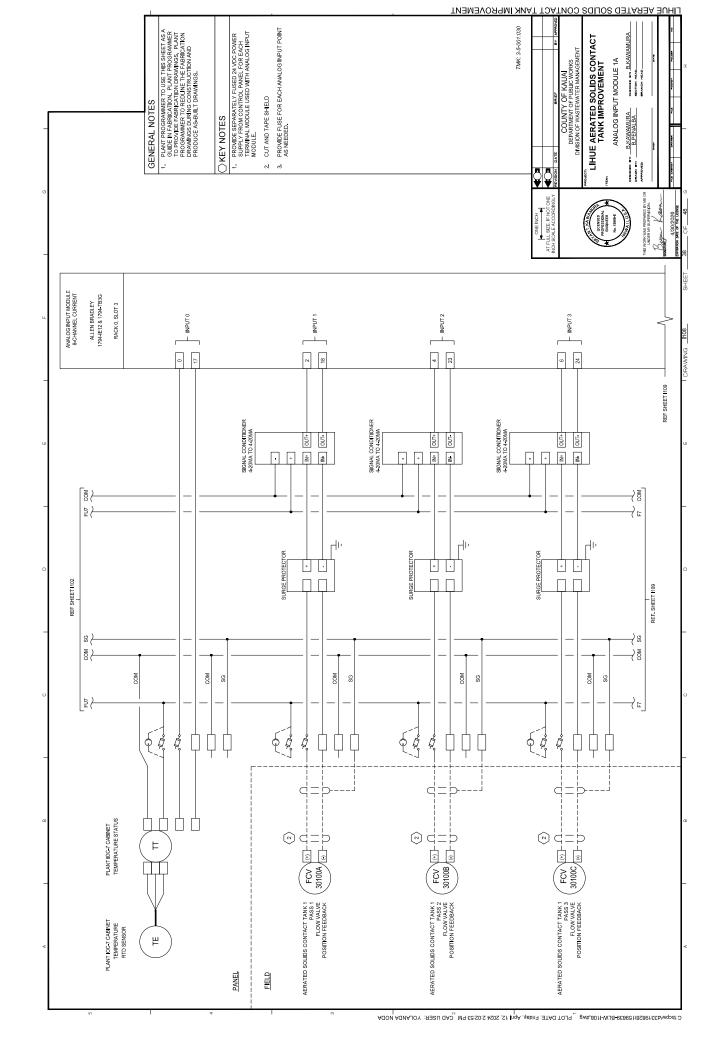


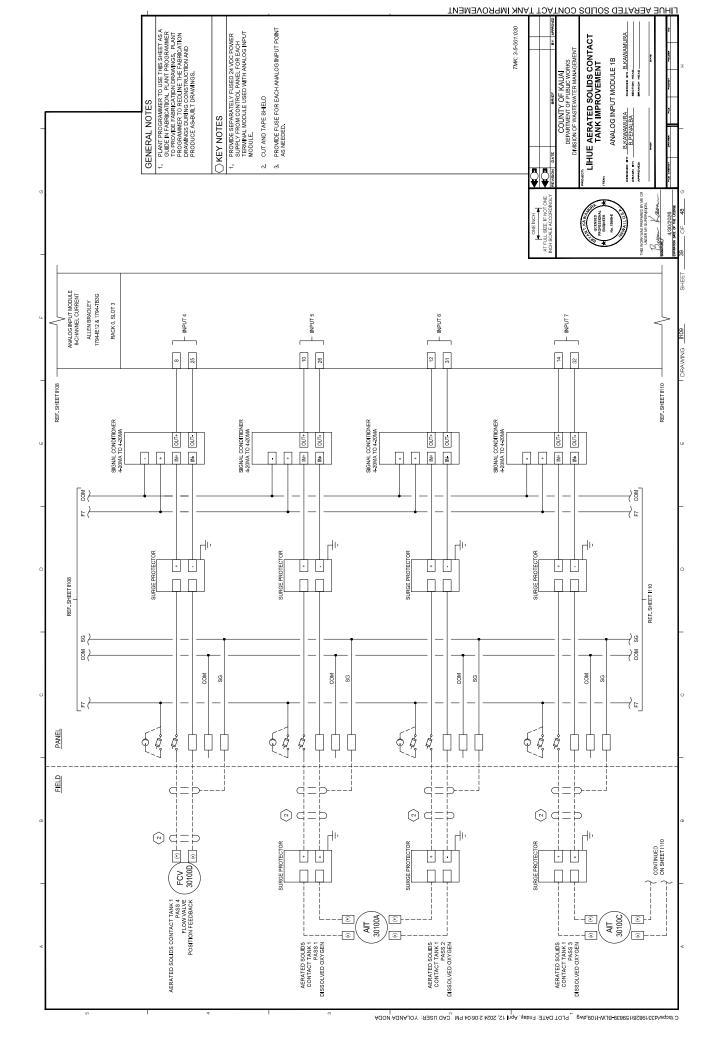


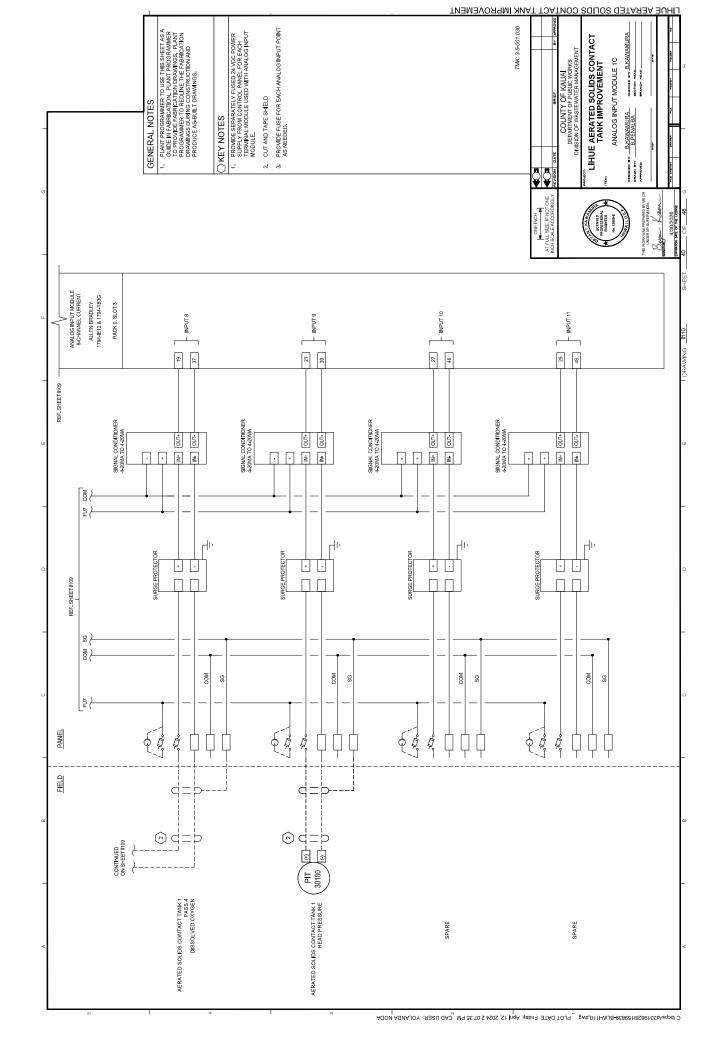


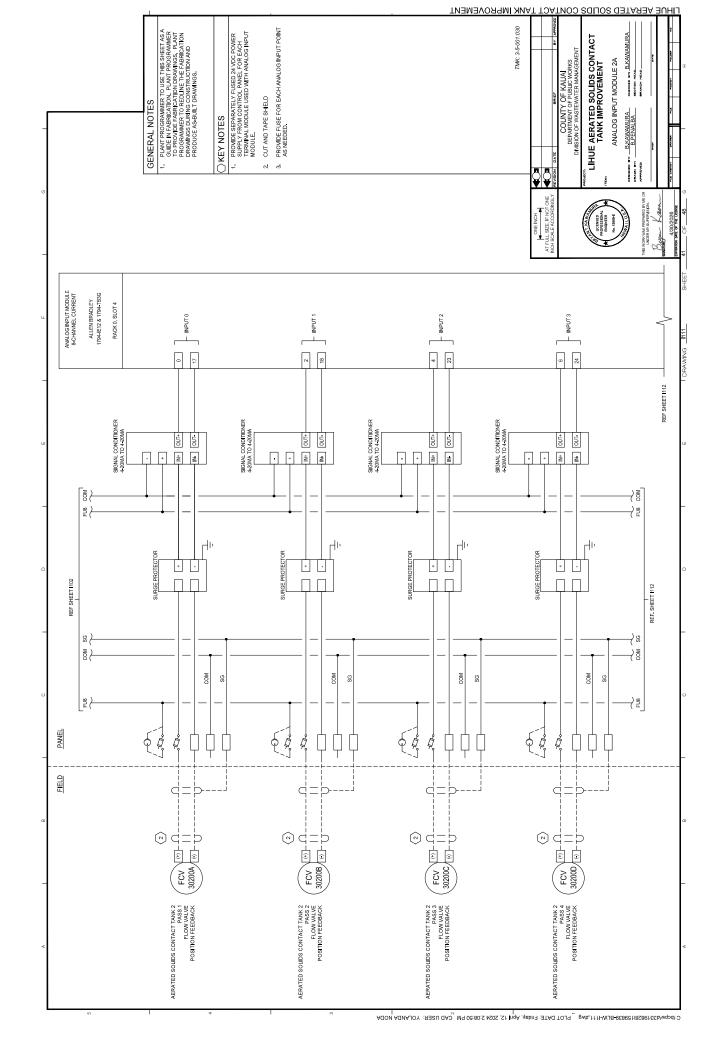


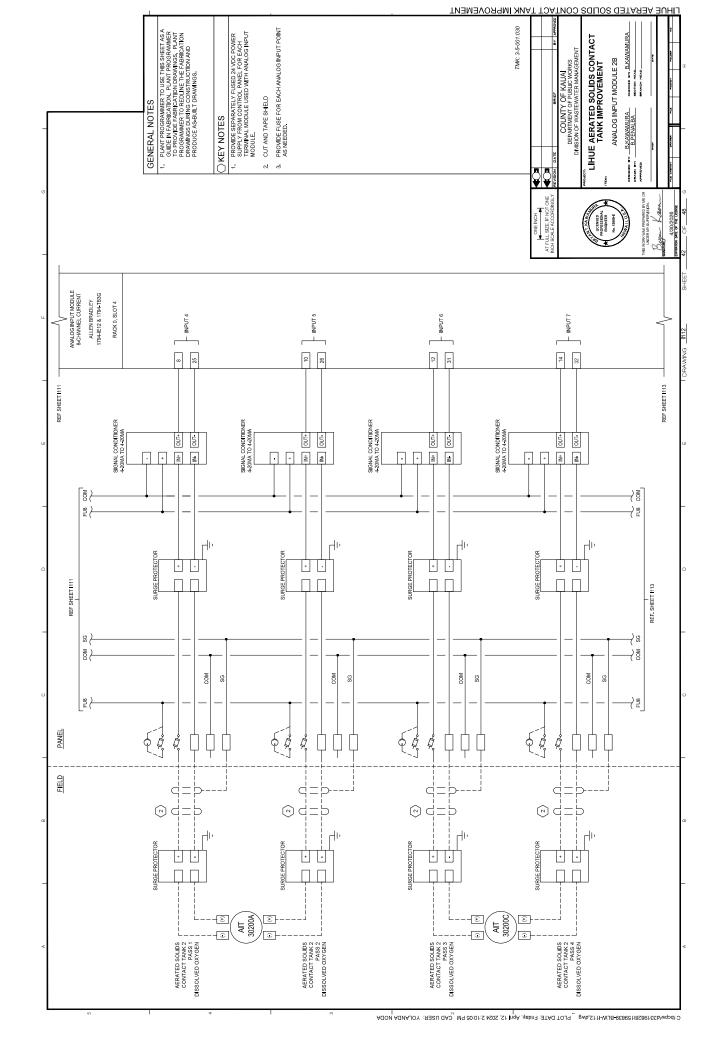


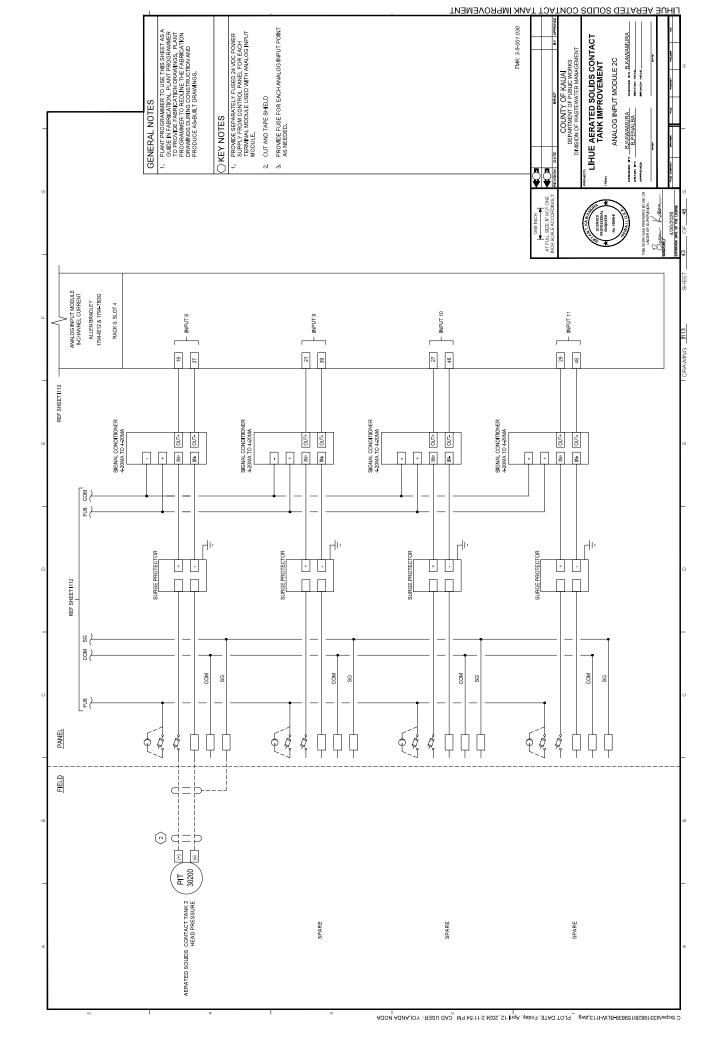


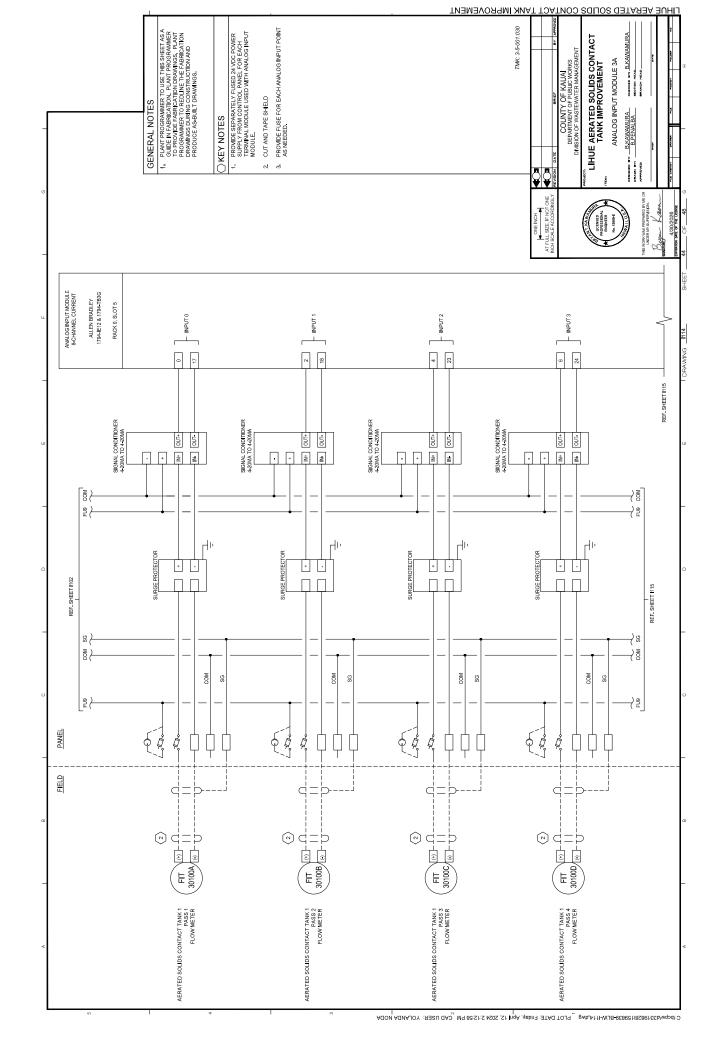


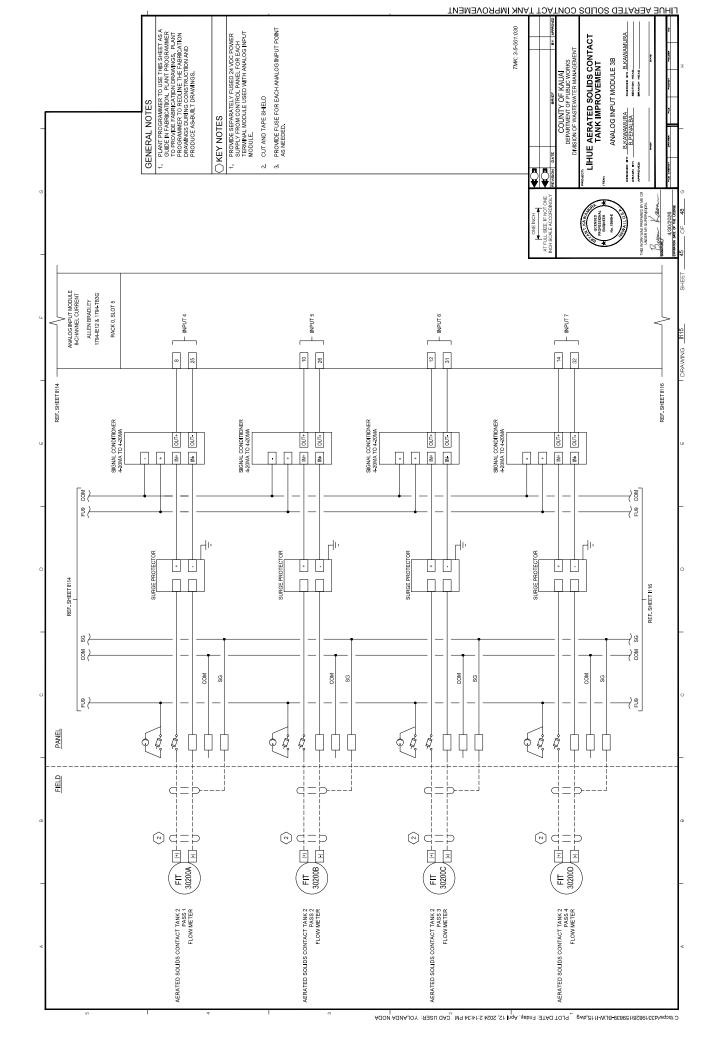


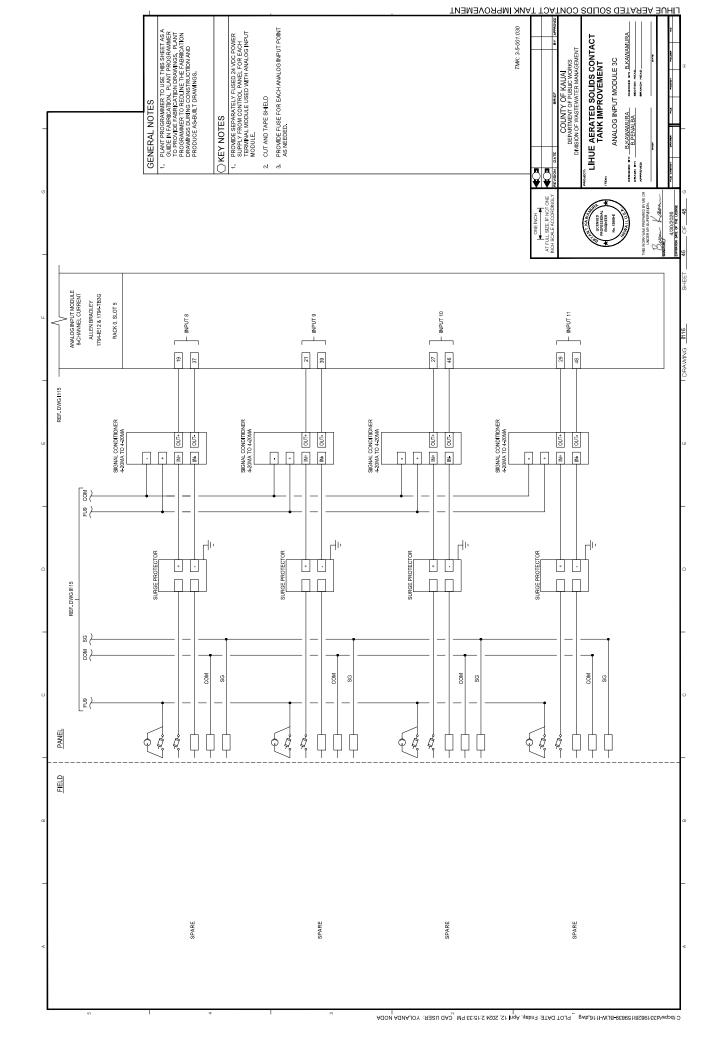


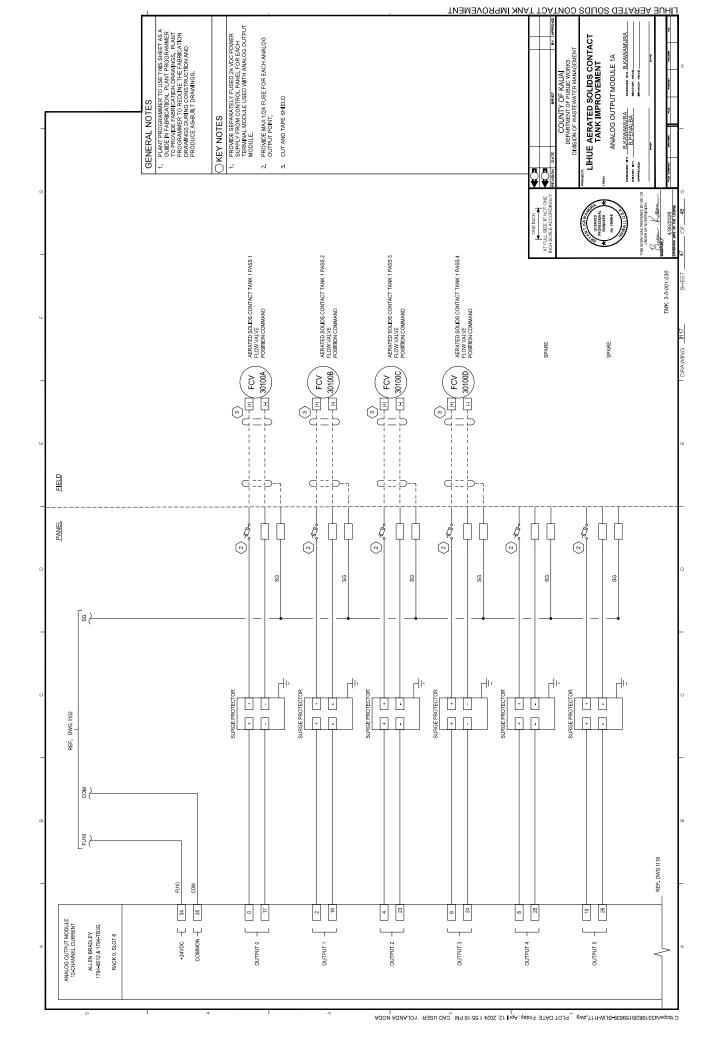


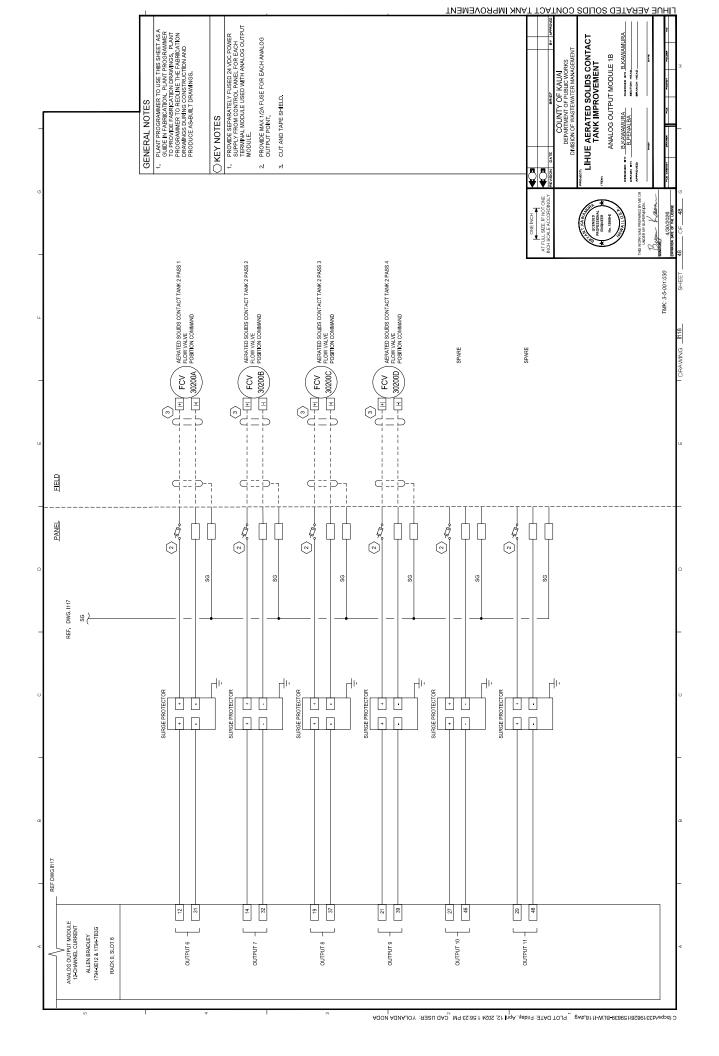




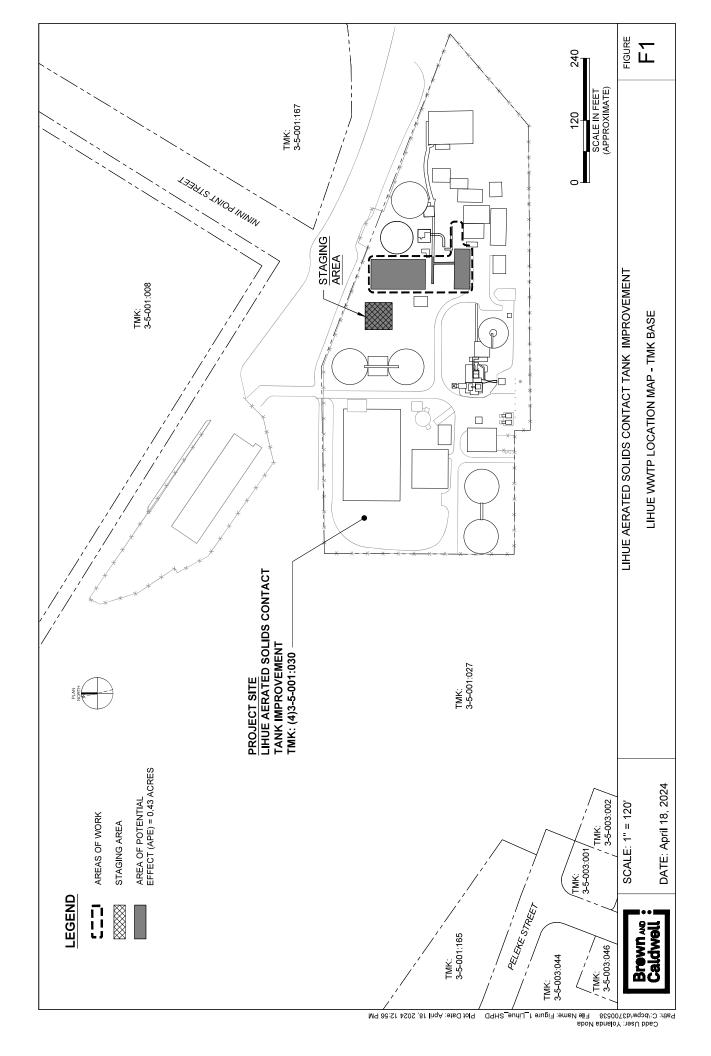








Attachment B



Attachment C



Figure 1: Street View of Access Road to Lihue WWTP



Figure 2: View of the Project Area from the South



Figure 3: View of the Project Area from the Southwest



Figure 4: View of the Project Area from the Southeast



Figure 5: View of the Project Area from the West



Figure 6: View of the Project Area from the East



Figure 7: View of the Project Area from the North

Attachment D

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