

Estelle Gold and Critical Minerals Project, Alaska

Antimony Pilot Plant Project – Port MacKenzie

Plan of Operations

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1. INTRODUCTION

1.1 Background

Nova Minerals (Nova) through its subsidiary Alaska Range Resources (ARR) is developing its Estelle Gold and Critical Minerals Project situated on the Estelle Gold Trend in Alaska's prolific Tintina Gold Belt in the western Susitna Valley. The belt also contains substantial antimony deposits and was historically a major source of antimony production in North America. Nova recently identified antimony and other critical minerals coincident with gold in surface samples collected from multiple prospects across the Estelle area. The Estelle claims and project vicinity are depicted in Figure 1-1.

Antimony is a designated Critical Mineral essential to the economy and national security with supply chains vulnerable to disruption. Antimony is a strategic metal used in industrial, defense, and technology sectors, crucial for economic development and national security. Military-grade antimony trisulfide is crucial for defense applications, primarily as a key component in ammunition primers, tracer bullets, camouflage paints, smoke/marine markers, and fire retardants for military gear. There is no antimony supply sourced in the United States. The current world supply of antimony is limited and dominated by Chinese production.

Based on preliminary results of exploration to date, the Estelle Project may be a source of antimony ore for production of antimony concentrate. ARR initial project development strategy is to collect bulk samples and construct a pilot plant to process and refine antimony ore from the Estelle Project to produce antimony trisulfide.

ARR has identified seven antimony prospects at its Estelle Project. ARR has commenced exploration drilling at two of the targets, Styx and Stibium (Figure 1-2) with the objective of potentially establishing a maiden mineral resource estimate for antimony.

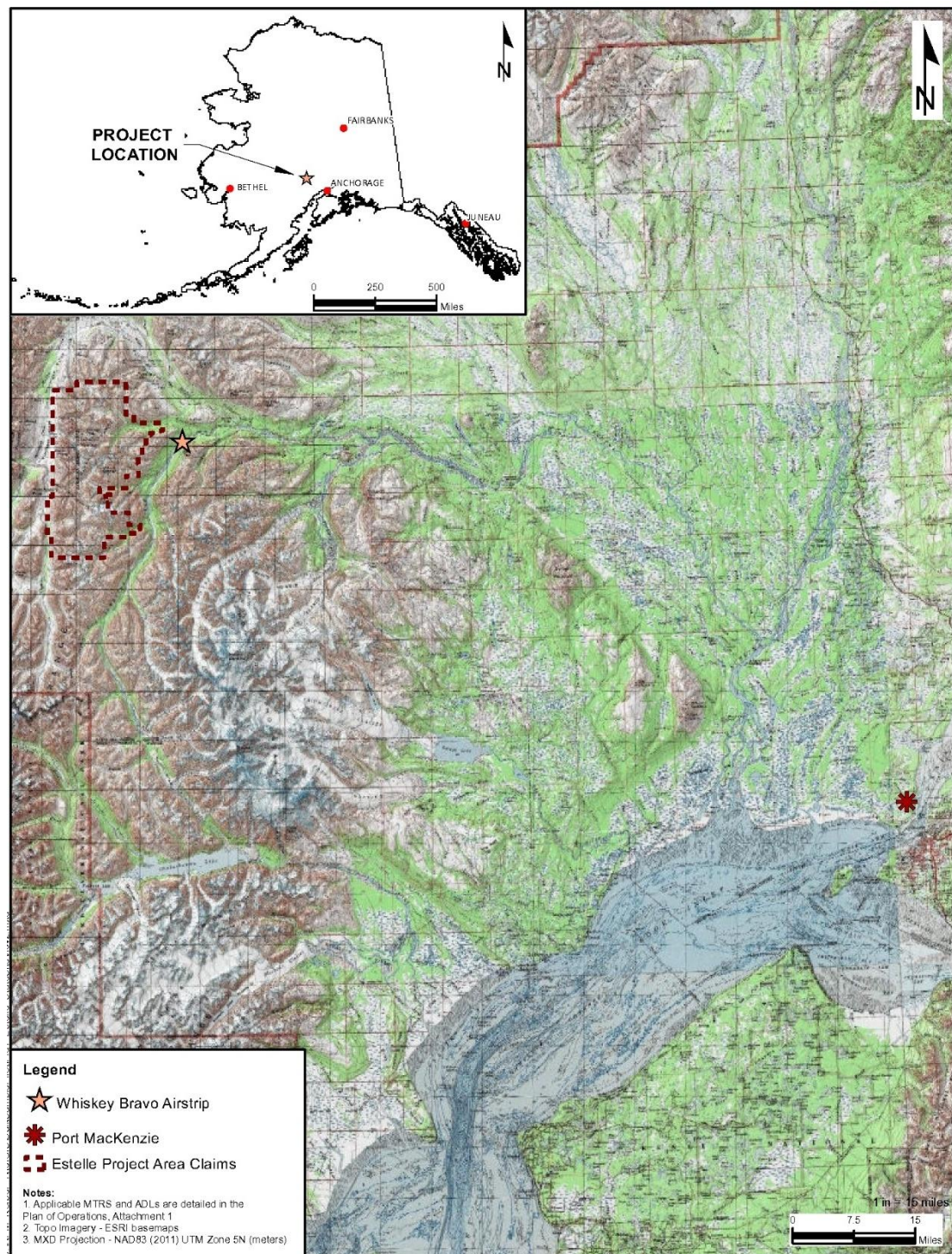


Figure 1-1. Project Location, Vicinity, and Estelle Claims

Bulk sample material will initially be crushed and sorted at Whiskey Bravo (WB). The material will be further processed by crushing, beneficiation, and refining at a small-scale pilot plant at Port MacKenzie (PMK). The pilot plant at PMK will demonstrate the feasibility of the refining process using the material collected from the antimony deposits.

The small-scale pilot plant at PMK will test and determine the feasibility of producing antimony trisulfide concentrate that meets quality requirements of military specification MIL-DTL-159E(AR). The pilot plant is the first stage to fast-track antimony production to develop the first fully domestic integrated antimony supply in the United States (U.S.)

This project is supported by an award of US \$43.4 million in funding by the United States Department of War (DoW) to produce antimony trisulfide at the Estelle Project. The award will ultimately a full-spectrum antimony ore mining and refining hub based in Alaska to supply the United States domestic market and other customers.

1.2 Purpose of the Document

This document describes the plans and operations for the antimony pilot plant at PMK.

2. PROJECT DESCRIPTION

Alaska Range Resource (ARR) plans to develop a small-scale processing plant to test and determine the feasibility to product antimony trisulfide (Sb_2S_3) concentrate that meets quality requirements of military specification MIL-DTL-159E(AR). Military grade antimony trisulfide is crucial for defense applications, primarily as a key component in ammunition primers, tracer bullets, camouflage paints, smoke/marine markers, and fire retardants for military gear. The pilot plant is the first stage to fast-track antimony production to develop the first fully domestic integrated antimony supply in the United States.

After collecting bulk sample material from two locations within the Estelle Project claims, the material will be transported to WB for crushing and initial sorting. Select sample material from WB will then be transported to PMK for further processing.

The overall process at each location is depicted in Figure 2-1.

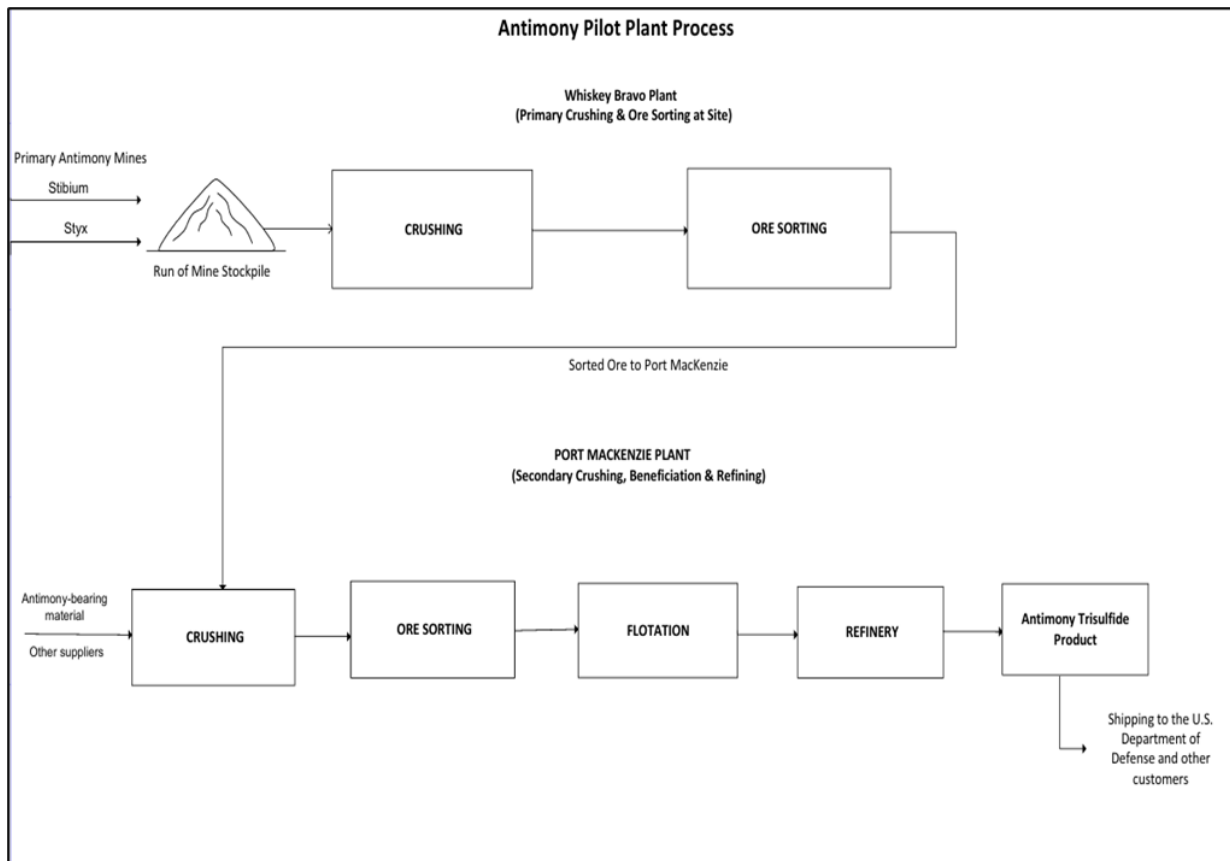


Figure 2-1. Overall Antimony Pilot Plant Process Flow Diagram – WB and PMK

Processing at PMK will include concentration and refining of the antimony ore to make the final antimony trisulfide product. The pilot plant is a short-term operation with a three-year finite life to generate engineering data and finalize a flowsheet for a future antimony process plant. The quantity of ore processed will be small and in line with an industry standard pilot plant.

3. LOCATION AND PLANT LAYOUT

In October 2025, Nova was successful in securing a land use permit for the refinery at PMK from Matanuska-Susitna Borough (MSB). The proposed refinery site at PMK is strategically aligned with the proposed West Susitna Access Road and other regional development projects currently underway. Location information for the project area is in Table 3-1.

Table 3-1. Project Area Location Information

Legal Description	SW ¼, SW ¼ and SE ¼ of SW ¼, Section 14, Township 04 North, Range 23 West, Seward Meridian
Latitude/Longitude	61.283872, -149.95527
Address	25097 S. Engine 557 CIR Matanuska-Susitna Borough Wasilla, Alaska 99687
MSB Tract	Lake Lorraine Tract 3
Parcel Identification	518680

All pilot plant process facilities and supporting infrastructure will need to be constructed. The land is dedicated to commercial and industrial development, and the pilot plant will be constructed to comply with the local design codes and regulations. Figure 3-1 shows an aerial view of PMK and the project location.



Figure 3-1. Aerial View of Port MacKenzie and Project Location

Based on the engineering design flowsheet, equipment has been selected and the proposed plant designed. Appendix A provides the equipment list. Appendix B provides drawings of the PMK pilot plant infrastructure, Appendix C provides drawings of the proposed PMK site layout.

4. PROCESS PLANT DESCRIPTION

At the PMK refinery, beneficiated ore will be screened, crushed, and milled to a fine particle size to enable efficient mineral separation. The finely ground material will be processed through flotation to recover antimony trisulfide concentrate. Material recovered by the flotation process will be thickened and stockpiled on site.

The antimony concentrate derived from flotation will advance to the pilot refinery stage, where it will be dissolved, purified, and separated from natural impurities through a series of controlled hydrometallurgical steps. The refined antimony product will then be filtered, dried, and bagged for shipment. Drawings in Appendix D illustrate the crushing and sorting processes and drawings in Appendix E illustrate the antimony refining processes and storage, loading, and shipment.

5. PROCESS CHEMICALS AND FUELS

The pilot plant refinery will use chemicals to support the processing operations. These chemicals are selected based on proven metallurgical performance, operational efficiency, and compatibility with the process.

All chemicals and fuels will be stored and handled in accordance with manufacturers' recommendations and applicable safety regulations, with appropriate containment, ventilation, and monitoring systems. Table 5-1 lists the chemicals to be used at the refinery.

Table 5-1. PMK Refinery Process Chemicals Summary

Chemical/Fuel Name	Use	Delivery to Site	Classification	Storage and Site Capacity	Annual Consumption (nominal/design)
Methyl Isobutyl Carbinol (MIBC)	Flotation frother	IBC	Flammable (Class 3), irritant, hazardous	IBC within bunded area 5 x IBC at site	1.1 to 4.6 L/a
Ion Exchange Resins	Purification of leach solution	25 L bags on pallets	Non-hazardous, eye/skin irritant. Hazardous waste disposal required	2,000 L in 25 L bags on pallets in warehouse	3,000 to 5,000 L/a
Copper sulfate	Flotation activator	Bulk bags	Toxic if ingested, eye/skin irritant, environmentally hazardous – aquatic environments	Bulk bags in covered warehouse Bulk bag storage	0.6 to 2.5 tpa
Sodium ethyl xanthate (SEX)	Flotation collector	Bulk bags	Hazardous, reactive, toxic, self-heating, flammable when decomposing, strong odor	Bulk bags in covered warehouse 100 kg stored	0.8 to 3.4 tpa
Flocculant	Flocculation in thickeners	Bulk bags	Generally safe/low hazard	Silo with bunded area 2 tonnes capacity	415 to 1,740 L/a
Calcium Oxide or Calcium Hydroxide (Lime)	pH modifier	Bulk bags	Corrosive, hazardous	Silo within bunded area Capacity TBA	TBD

Chemical/Fuel Name	Use	Delivery to Site	Classification	Storage and Site Capacity	Annual Consumption (nominal/design)
Hydrochloric Acid (HCl)	Acid	IBC	Highly corrosive, hazardous	Storage tank within bunded area 40 m ³ storage	144 to 604 tpa
Sodium Hydroxide (40% NaOH) solution	pH modifier	IBC or tanker truck	Highly corrosive, hazardous	Storage tank within bunded area 10 m ³ storage	49.4 to 207 tpa
Sodium Sulphide (Na ₂ S)	Precipitation	Bulk bags	Toxic, reactive, hazardous	Bulk bags in covered warehouse 20 tonnes in bulk bags	283 to 1,188 tpa
Diesel	Transport and power generation	Tanker truck	Flammable	Storage tank in bunded area	TBD
Liquefied Petroleum Gas (LPG)	Heating	Tanker truck	Explosive, flammable	Storage pressure vessel (bullet) 10-tonne bullet	TBD

IBC = intermediate bulk container

L = liter(s)

kg = kilogram(s)

TBD = to be determined

m³= cubic meter(s)

6. PRODUCTS AND LOGISTICS

6.1 Antimony Concentrate

Ore-sorted reject material and filtered flotation tailings will be placed in the disposal facility (Section 13.1)

6.2 Antimony Trisulfide Product

The antimony trisulfide product will be dried, bagged, and stored on site pending transportation. The product is classified as a flammable and hazardous material – toxic if swallowed or inhaled and requires specific handling, storage, and packaging protocols. These hazards and handling protocols are outlined in material safety data sheets (SDS) and will be defined in the handling and transportation procedures prepared for the project.

The hazards for antimony trisulfide will determine the product handling and packaging facilities at PMK. The hazards will determine the transport handling and logistics at PMK for export. Table 6-1 lists the typical hazard identification for antimony trisulfide.

Table 6-1. Antimony Trisulfide Hazard Identification

Hazard	SDS Identification
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

7. EMISSIONS AND WASTE HANDLING

The pilot plant at PMK is designed as “zero liquid discharge” (ZLD) such that liquids will be recycled and reused within the processes. Emissions and waste associated with the operation are listed in Table 7-1.

Table 7-1. Emission Points and Types

Emission/Waster Generation Point	Emission Type
Antimony trisulfide	Dust
Antimony trisulfide bagging unit	Dust
Flotation Circuit	Non-toxic off-gases, slurry tailings
Leaching Circuit	Leach Residue + leaching off-gas
Ion Exchange	Wastewater, spent resins
Diesel-powered generators and compressors	CO ₂ , NO _x , and SO ₂ emissions
General areas	Filters, PPE, reagent bags, laboratory waste, sanitary waste

CO₂ = carbon dioxide

Nox = nitrogen oxide

SO₂ = sulfur dioxide

The initially determined methods for waste minimization, handling, treatment, and disposal are generally described below.

- A dust collection and ventilation system will be installed on all dust-generating equipment and routed to a baghouse unit. Monitoring of the system will be performed in compliance with permit stipulations.
- Ore-sorted material will be stockpiled in a purpose-designed facility for future reprocessing. Flotation tailings and leaching residues will be dewatered and stored in

the dry stack storage area and stored in a purpose-designed facility for potential reprocessing.

- The PMK wastewater system will be designed for water recovery to meet requirements ZLD. The use of recycled water for use in the PMK process plant will also be investigated to reduce demand for fresh (well) water.
- Domestic sanitary waste from sinks, lavatories, and showers will be managed through sewage treatment systems. These systems will either be dedicated to individual buildings or serve groups of ancillary facilities. The design and permitting of these treatment systems will adhere to State of Alaska regulations.
- Sinks and drains associated with chemical handling operations will discharge into a reagent tank sump, with the sump manually pumped out by a hazardous waste disposal contractor. These containment tanks and associated waste will be maintained by licensed hazardous materials handling personnel in compliance with relevant state and local government regulations.
- Non-process (domestic) solid waste will be collected in approved containers, then removed from the site by a solid waste contractor. Non-domestic recyclable materials, including scrap metal, paper, used oil, batteries, and wood products, will be placed in appropriate containers and recycled by qualified third-party contractors.
- Hazardous materials such as greases, spent resins, chemicals, paint, and reagents, will be collected, store, and handled as required by regulations and transferred to an approved site for disposal.

8. NON-PROCESS INFRASTRUCTURE

PMK is in Upper Cook Inlet with access to major road corridors to the Matanuska-Susitna Valley, north to Fairbanks, and south to Anchorage. PMK is the only port in Alaska with an extensive area (>3,600 hectares) dedicated to commercial and industrial development and growth and includes proposed Nova refinery location.

Facilities include a six-hectare gravel surface barge dock and the deep-draft dock capable of importing and exporting many types of cargo. The port includes a 365 meter (m)-long deep-draft dock designed to handle large vessels, including Panamax and Cape Class ships, in deep water, and a separate 365 m barge dock with a gravel surface, suitable for shallow-water and river barges.

An Infrastructure Study is ongoing to determine design requirements for utilities and services and will consider the following:

- Utilities and Services (power, water, waste management, and buildings)
- Tailings storage
- Transportation
- Access Points

- Workshops
- Warehouse
- Offices and amenities
- Personnel facilities
- Communications

An accommodation camp will not be required because all labor will be locally housed.

Water will be supplied from a new well or an existing pond on site. A water distribution system will distribute water to a process water system, reagents preparation, fire water system, and potable filtration areas. Potable water will be supplied by an Alaska Department of Environmental Conservation (ADEC)-approved system.

Power will be drawn from the grid for PMK requirements.

9. SITE CONSTRUCTION AND BUILDINGS

Site buildings will be constructed to conform with local and state regulations. There will be allowance for extreme weather conditions including snow- and wind-loading.

As required by the DoW funding, pilot plant equipment will be locally sourced from Alaska and lower 48 states. Used (second-hand) equipment is planned to be purchased locally, if available. Such equipment will be required to meet specifications.

10. OPERATIONAL READINESS AND COMMISSIONING

The plant design contractor (METS) will provide detailed documentation to guide training of project personnel for plant operation. Documentation will include processes for equipment startup, normal operation, and maintenance. METS will provide personnel assistance for plant startup and for the commissioning period to achieve continuous operation.

11. PLANT CLOSURE AND RECLAMATION

METS will provide procedures for plant closure at end of project life, based on federal, state, and local regulations. The mineralized stockpiles will contain residual antimony. Tailings stockpiles will be designed with this recovery being considered. All buildings and equipment will be removed and the site graded to original contours.

12. SCHEDULE

Processing is targeted to begin in the 2026 to 2027 period and Front End Engineering and Design (FEED) is currently underway for the processing facilities. Key tasks and estimated scheduled dates are listed in Table 12-1.

Table 12-1. Project Schedule Summary – PMK Pilot Plant Refinery

Task	Start Date	Estimated Finish Date
Beneficiation and Refinery Plant FEED	October 13, 2025	May 7, 2026
Beneficiation and Refinery Plant Procurement	October 24, 2025	September 14, 2026
Beneficiation and Refinery Plant Construction	July 7, 2026	January 25, 2027
Beneficiation and Refinery Plant Commissioning and Production	January 1, 2026	March 1, 2027

13. RECLAMATION AND CLOSURE

The objective of reclamation is to stabilize disturbed land surfaces against infiltration and erosion as detailed in Title 11 Alaska Administrative Code and Alaska Statute 27.19. The objective will be achieved by improving plant growth conditions and encouraging the succession of self-sustaining native and naturalized plant communities.

This section outlines the steps that will be necessary to reclaim the PMK site. The assumed post-operation land use for the PMK facility site is to continue as industrial.

Before beginning closure, ARR will submit written notification to MSB of the intent to close. ARR will begin closure activities within 30 days of the date of the end of operations. ARR will complete closure within 180 days after the beginning of closure unless it is not economical or practicable to close the facility within that time. MSB may decide to extend the closure period if additional time is needed to protect public health and the environment.

After closure of the facility, ARR will submit written notification to MSB that a certification verifying completion of closure in accordance with the closure plan has been placed in the operating record. The certification will be signed and stamped by a professional Alaska-registered engineer.

This section focuses on the PMK disposal facility. In addition, if any buildings are to be removed at closure, they will be transferred to an approved disposal/recycling facility in Anchorage.

13.1 PMK Disposal Facility

Mineral processing at the PMK site will generate a concentrate (to be shipped off site for further processing and beneficiation), and dewatered/filtered flotation tailings. While the flotation process generally segregates the potentially acid-generating and metal-laden minerals into the concentration, rendering the flotation tailings relatively geochemically benign, the plan of operations is to dispose of the flotation tailings in an engineered disposal facility on site.

To avoid double-handling the tailings (to a temporary disposal facility then to a final disposal facility), the base and liner system for the disposal facility at PMK would be constructed prior to operations. The dewatered/filtered tailings would be placed in the facility during operations, and then the facility would be closed and capped at the end of operations.

The conceptual design for the PMK disposal facility is presented in Appendix F. The PMK tailings disposal facility will be constructed in a topographical depression at the northeastern end of the operations pad. If needed, runoff diversion ditches would be constructed to prevent the flow of runoff from surrounding area entering the disposal area. The drawings depict a low perimeter berm which should be sufficient to prevent runoff from entering the disposal facility.

The disposal facility with a capacity of up to approximately 10,000 short tons and a total footprint of approximately one acre will be constructed). The actual size will depend on the volume of material requiring disposal and will be reflected in a final design for the facility.

The area to be lined will be cleared and grubbed, and topsoil removed to a stockpile for use in facility closure. The subgrade would be prepared for lining by removing all deleterious

materials that could damage the liner (e.g., protruding rocks, sticks, roots). An 80-millimeter (mil) high-density polyethylene (HDPE) geomembrane liner and a leachate collection sump at the low point would be constructed in the bottom of the containment area.

The disposal facility will be constructed by first excavating the area with 2:1 side slopes. The depth of the excavation will be determined based on a balanced cut-and-fill design where all excavation spoils will be used for construction of a perimeter berm and for the 1 to 1.5 feet of soil placed on the closure cover.

The liner would be installed by a qualified geosynthetics installer and construction would include industry standard Construction Quality Assurance (CQA) practices. Anchor trenches in the perimeter berm would hold the liner in place.

The leachate collection sump will be constructed in the low corner of the bottom of the excavation above the bottom liner. The leachate collection sump will allow collection and management of any leachate generated during filling and closure of the facility. The leachate collection sump will consist of a geotextile cushion to protect the liner, a perforated plastic pipe to facilitate collection of leachate, a bed of coarse gravel (could be waste rock) over the geotextile and surrounding the pipe, and a geotextile filter over the top (Appendix F).

Filtered tailings would be disposed of in the facility during operations. Infiltration and precipitation collected from the leachate sump would be managed as appropriate during filling.

At the end of operations, any remaining stockpiled materials at the site (e.g., sorted crushed ore, residual concentrate) would be consolidated in the disposal facility.

Leachate would be collected and managed until all free liquids have been removed, then the leachate collection pipe would be abandoned in place by filling it with grout.

Once filled, the surface of the fill area would be prepared as a subgrade for a geomembrane cover as a barrier to infiltration. The cover geomembrane will be 60-mil HDPE, which would be constructed by a qualified geosynthetics installer and construction would include industry standard CQA practices. A soil layer, 1 to 1.5 feet thick, will be constructed over the geomembrane. The soil layer will be seeded by appropriate means for revegetation.

All disturbed lands will be revegetated with native species (except for those determined by MSB to be reclaimed in a different manner or those determined by MSB be exempt from the cover criteria). Areas for revegetation will be free of construction debris and scarified to a depth of 6 to 8 inches, if heavily compacted. Native, certified seed (i.e., seeds grown under the rules of the Alaska Seed Certification Program) will be used when available, and chosen based on region, soil moisture, and soil type of the area. Fertilizer will be applied before or during seeding, and equipment traffic will be restricted to specific areas after seeding is complete. Evaluation of revegetation will occur annually for no more than five years to ensure the revegetation is established without the need for additional fertilization or reseeding.

Upon completion of the project, the processing equipment will be removed and transported off site. The site will be recontoured to approximate original grade and capped with the stockpiled growth media, track-walked and fertilized and seeded appropriately, as needed.

13.2 Temporary or Interim Closure

There may be situations where ARR may elect to suspend activities as proposed in this Plan of Operations for periods longer than the seasonal interruptions common to mining in Alaska. ARR may also decide to “mothball” the facilities after completion of the pilot test because the facilities may be used for other related projects or the residual materials may be processed later for other minerals or metals. Under any situation where material processing activities at the site will cease for more than one year and for up to three years, ARR would put the site on a Care and Maintenance status and continue to perform all maintenance, monitoring, and reporting tasks required by existing permits and as necessary to protect public health and the environment during the temporary closure. If ARR decides to suspend activities for more than one year, ARR will notify ADNR with 45 days of making the decision.

During temporary or interim closure, ARR would cover all materials with geomembrane that is ballasted with sandbags, tires, WindDefender®, or other means. The edges of the geomembrane would be buried around the perimeter of the stockpiles to prevent air from getting under which can cause billowing and potentially damage or loss of the geomembrane. Trails and process equipment would remain in place. Mobil equipment would be placed on pads in designated areas or removed from the site. Excess fuels, lubricants, and any chemicals and hazardous materials would be removed or stored in covered areas with secondary containment that can contain 1.5 times the amount of material stored. Stormwater and contact water management would be continued under the Stormwater Pollution Prevention Plan (SWPPP), and the spill controls, including facilities and inspection procedures, described in the Spill Prevention, Control and Countermeasures (SPCC) plan will be continued. Implementation of the SPCC plan includes visual monitoring and management of fuel storage facilities and maintenance of secondary containment vessels when fuel is stored on site. Monthly visual monitoring of site trails, laydown areas and pad areas during ice-free months will be performed to look for any conditions that warrant repair or other response.

13.3 Financial Assurance

Operations may not begin under this Plan of Operations until ARR submits a bond in a form and substance approved by ADNR and MSB. The bond will be in the amount of the Reclamation Cost Estimate (Appendix G), which is an estimate to perform all closure activities if operations are suddenly abandoned. The bond can be released or decreased as allowed per 11 AAC 97.435 and 36 CFR 228.13. Modifications to the Reclamation Plan may, at ADNR or MSB discretion, require bond review and update. The Reclamation Cost Estimate is presented in Attachment B. Based on the Reclamation Cost Estimate, total financial assurance amount of \$561,860 is recommended.

APPENDIX A – EQUIPMENT

DOCUMENT COVER SHEET

CLIENT:

PROJECT TITLE:

PROJECT NO.:

DOCUMENT TITLE:

DOCUMENT NO:

THIS DOCUMENT HAS BEEN PREPARED AND CHECKED IN ACCORDANCE WITH THE FOLLOWING WORK INSTRUCTIONS / CHECKLISTS TO THE NOMINATED CHECKING METHOD & LEVEL.		
CHECKING METHOD		CHECKING LEVEL
WORK INSTRUCTION / CHECKLIST NO.	OR	CH
NAME		DATE
OR		
CH		

2	12/05/26	Issued for Information	RZ	MN	DC
1	28/03/26	Issued for Client Review	RZ	MN	DC
0	10/12/25	Issued for Client Review	IA	DC	DC
Rev	Date	Revision	By	Ch'k	Appv.

Client Alaska Range Resources																			
Project APRR - Antimony Pilot Plant																			
Document Number J7026-M-DL-002																			
												Total	451	4856	114969	253462	1312	1759	
Quantity	Equipment Number	Section Number	Equipment	Tag	Fixed Equipment Name	Model/Type (equivalent or similar)	Dimensions					Area		Mass		Power Requirements		Supplier	
							L (m) x W (m) x H (m)			L (ft) x W (ft) x H (ft)		(m²)	(ft²)	(kg)	(lb)	(kW)	(HP)		
SECTION 2100 - CRUSHING																			
1	2100-HV-01	2100	HV	01	Front End Loader	CAT 966C Wheel Loader	6.80	2.80	3.60	22.3	9.19	11.8	19.0	205	16738	36900		Savona	
1	2100-HV-02	2100	HV	02	Rock Breaker	Tramac TX-72												Lenmark	
1	2100-GZ-01	2100	GZ	01	Static Grizzly	Local Fabrication	2.00	1.00		6.56	3.28		2.00	21.5				Steeffab Alaska	
1	2100-BN-01	2100	BN	01	Bulk Sample Bin	Local Fabrication	2.00	1.00	1.00	6.56	3.28	3.28	2.00	21.5				Steeffab Alaska	
1	2100-FD-01	2100	FD	01	Crusher Apron Feeder	Jacques D3C Apron Feeder, 650 mm x 7581 mm	9.15	1.05		30.0	3.44		9.61	103.4		15.0	20.1	Lenmark	
1	2100-CH-01	2100	CH	01	Crusher Feed Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-GZ-02	2100	GZ	02	Vibrating Grizzly Feeder	Metso VF544-2V	4.90	1.30		16.1	4.27		6.37	68.6		15.0	20.1	Metso	
1	2100-WS-01	2100	WS	01	Jaw Crusher Spray	Vendor Package												Spraying System Co	
1	2100-CR-01	2100	CR	01	Primary Jaw Crusher	Metso C80 Jaw Crusher	2.02	1.57	1.70	6.63	5.13	5.58	3.2	34.0	6820	15036	75.0	101	Lenmark
1	2100-CV-01	2100	CV	01	Enclosed Crusher Discharge Conveyor	Hope Bay Conveyor		1.00			3.28					15.0	20.1	Lenmark	
1	2100-WT-01	2100	WT	01	Primary Crushing Weightometer	Bulk Pro N-61 Single Idler Belt Scale										0.5	0.7	Bulk Pro	
1	2100-MG-01	2100	MG	01	Crusher Tramp Magnet	Eriez CP 20/100	1.21	2.15	0.41	3.96	7.05	1.33	2.6	28.0	980	2161	1.50	2.01	Eriez
1	2100-BN-02	2100	BN	02	Crusher Tramp Metal Bin	Local Fabrication	4.00	1.70	1.60	13.1	5.58	5.25	6.8	73.2				Steeffab Alaska	
1	2100-MD-01	2100	MD	01	Metal Detector	Eriez Model 1250 Detector										0.5	0.7	Eriez	
1	2100-WS-02	2100	WS	02	CV01 Discharge Spray	Vendor Package												Spraying System Co	
1	2100-CH-02	2100	CH	02	CV01 Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-WS-03	2100	WS	03	Double Screen Spray	Vendor Package												Spraying System Co	
1	2100-SC-01	2100	SC	01	Double Decked Screen	Vibramech H2-48-18 Double-Deck	5.57	3.16	3.51	18.3	10.4	11.5	17.6	190	13500	29762	22.0	29.5	Lenmark
1	2100-WS-04	2100	WS	04	Middling's Spray	Vendor Package												Spraying System Co	
1	2100-CV-02	2100	CV	02	Enclosed Middling's Conveyor	Hope Bay Conveyor		1.00			3.28					7.5	10.1	Lenmark	
1	2100-WT-02	2100	WT	02	Ore Sorter Weightometer	Bulk Pro N-61 Single Idler Belt Scale										0.5	0.7	Bulk Pro	
1	2100-CH-03	2100	CH	03	CV02 Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-SM-01	2100	SM	01	Ore Sorter Feed Swing Sampler	Multotec Swing-arm Sampler										10.0	13.4	Multotec	
1	2100-CH-04	2100	CH	04	Oversize Feed Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-WS-05	2100	WS	05	Oversized Conveyor Spray	Vendor Package												Spraying System Co	
1	2100-CV-03	2100	CV	03	Enclosed Oversize Conveyor	Hope Bay Conveyor		1.00			3.28					7.5	10.1	Lenmark	
1	2100-CH-05	2100	CH	05	CV03 Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-HP-01	2100	HP	01	Secondary Crusher Feed Hooper	Local Fabrication												Steeffab Alaska	
1	2100-FD-02	2100	FD	02	Secondary Crusher Vibrating Feeder	Metso PF525	2.50	1.30		8.20	4.27		3.25	35.0		11.0	14.8	Metso	
1	2100-WS-07	2100	WS	07	Secondary Crusher Spray	Vendor Package												Spraying System Co	
1	2100-CR-02	2100	CR	02	Secondary Crusher	Metso HP200 Cone Crusher	2.02	1.57	1.70	6.63	5.13	5.58	3.16	34.0	6820	15036	150.0	201	Metso
1	2100-WS-08	2100	WS	08	Secondary Crusher Discharge Spray	Vendor Package												Spraying System Co	
1	2100-CV-04	2100	CV	04	Enclosed Secondary Crusher Discharge Conveyor	Hope Bay Conveyor		1.00			3.28					15.0	20.1	Lenmark	
1	2100-CH-06	2100	CH	06	CV04 Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8				Steeffab Alaska	
1	2100-WS-06	2100	WS	06	Fines Spray	Vendor Package												Spraying System Co	
1	2100-CV-05	2100	CV	05	Fines Conveyor	Hope Bay Conveyor		1.00			3.28					7.5	10.1	Lenmark	
1	2100-WT-03	2100	WT	03	Fines Weightometer	Bulk Pro N-61 Single Idler Belt Scale										0.5	0.7	Bulk Pro	
1	2100-SM-02	2100	SM	02	Fines Swing Sampler	Multotec Swing-arm Sampler										10.0	13.4	Multotec	
1	2100-OC-01	2100	OC	01	PMK Overhead Crane	PMK Overhead Crane										75.0	100.6	Machinery & Equipment	

Quantity	Equipment Number	Section Number	Equipment	Tag	Fixed Equipment Name	Model/Type (equivalent or similar)	Dimensions						Area		Mass		Power Requirements		Supplier
							L (m) x W (m) x H (m)			L (ft) x W (ft) x H (ft)			(m ²)	(ft ²)	(kg)	(lb)	(kW)	(HP)	
SECTION 2200 - ORE SORTING																			
1	2200-HP-01	2200	HP	01	Ore Sorter Feed Intermediate Hopper	Local Fabrication	1.50	1.00	1.00	4.92	3.28	3.28	1.50	16.1					Steeffab Alaska
1	2200-FD-01	2200	FD	01	Intermediate Hopper Apron Feeder	Petimetx 30in x 10ft Apron Feeder	3.00	0.80	1.00	9.84	2.62	3.28	2.40	25.8	6000	13228	6.00	8.05	Savona Equipment
1	2200-WS-01	2200	WS	01	Ore Sorter Spray	Vendor Package													Spraying System Co
1	2200-CV-01	2200	CV	01	Ore Sorter Conveyor	Hope Bay Conveyor		1.00			3.28						7.5	10.1	Lenmark
1	2200-WT-01	2200	WT	01	Ore Sorter Feed Weighometer	Bulk Pro N-61 Single Idler Belt Scale													Bulk Pro
1	2200-CH-01	2200	CH	01	Ore Sorter Hopper Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2200-OS-01	2200	OS	01	Ore Sorter	Sterimer! XSS 120 520 V12UM	11.7	2.30	3.50	38.4	7.55	11.5	26.9	290			25.0	33.5	Steimer!
1	2200-WS-02	2200	WS	02	Ore Sorter Con Spray	Vendor Package													Spraying System Co
1	2200-CV-02	2200	CV	02	Ore Sorter Concentrate Conveyor	Hope Bay Conveyor		1.00			3.28						7.5	10.1	Lenmark
1	2200-WT-02	2200	WT	02	Ore Sorter Con Weighometer	Bulk Pro N-61 Single Idler Belt Scale													Bulk Pro
1	2200-CH-02	2200	CH	02	Ore Sorter Con Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2200-SM-01	2200	SM	01	Ore Sorter Con Swing Sampler	Multotec Swing-arm Sampler											10	13.4	Multotec
1	2200-CV-03	2200	CV	03	Ore Sorter Rejects Conveyor	Hope Bay Conveyor		1.00			3.28						7.5	10.1	Lenmark
1	2200-WT-03	2200	WT	03	Ore Sorter Rejects Weighometer	Bulk Pro N-61 Single Idler Belt Scale											0.5	0.7	Bulk Pro
1	2200-WS-03	2200	WS	03	Ore Sorter Rejects Spray	Vendor Package													Spraying System Co
1	2200-CH-03	2200	CH	03	Ore Sorter Rejects Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2200-SM-02	2200	SM	02	Ore Sorter Rejects Swing Sampler	Multotec Swing-arm Sampler											10	13.4	Multotec
SECTION 2300 - SECOND STAGE CRUSHING																			
1	2300-BN-01	2300	BN	01	Crushed Ore Bin	Local Fabrication	2.00	1.00	1.00	6.56	3.28	3.28	2.00	21.5					Steeffab Alaska
1	2300-FD-01	2300	FD	01	Tertiary Crushing Vibratory Feeder	Syntron 24 in. x 42 in. Vibrating Feeder	0.60	1.00		1.97	3.28		0.60	6.46	292	644	5.00	6.71	Sanova Equipment
1	2300-CH-01	2300	CH	01	Tertiary Screen Feed Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2300-SC-01	2300	SC	01	Tertiary Crushing Screen	Vibramech H1-48-18 Single Deck Horizontal Screen	5.57	3.16	2.25	18.3	10.4	7.39	17.6	190	8200	18078	15.0	20.1	Lenmark
1	2300-WS-01	2300	WS	01	Tertiary Crusher Spray	Vendor Package													Spraying System Co
1	2300-CR-01	2300	CR	01	Tertiary Cone Crusher	Sepro / Blackhawk 100 Cone Crusher	1.50	2.50	1.50	4.92	8.20	4.92	3.75	40.4	7700	16976	90.0	121	Nelson Machinery
1	2300-WS-02	2300	WS	02	Tertiary Crushed Conveyor Spray	Vendor Package													Spraying System Co
1	2300-CV-01	2300	CV	01	Tertiary Crushed Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2300-WS-03	2300	WS	03	Undersize Spray	Vendor Package													Spraying System Co
1	2300-CV-02	2300	CV	02	Undersize Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2300-WT-01	2300	WT	01	Undersize Weighometer	Bulk Pro N-61 Single Idler Belt Scale											0.5	0.7	Bulk Pro
1	2300-SM-01	2300	SM	01	Undersize Swing Sampler	Multotec Swing-arm Sampler											10.0	13.4	Multotec
SECTION 2400 - MILLING																			
1	2400-BN-01	2400	BN	01	Fine Ore Bin	Local Fabrication	2.00	1.00	1.00	6.56	3.28	3.28	2.00	21.5					Steeffab Alaska
1	2400-FD-01	2400	FD	01	Ball Mill Apron Feeder	Jacques D3C Apron Feeder, 650 mm x 7581 mm	9.15	1.05		30.0	3.44		9.61	103.4			15.0	20.1	Lenmark
1	2400-WT-01	2400	WT	01	Ball Mill Feed Weighometer	Bulk Pro N-61 Single Idler Belt Scale											0.50	0.67	Bulk Pro
1	2400-CV-01	2400	CV	01	Ball Mill Feed Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2400-BM-01	2400	BM	01	Ball Mill	Outotec 2 m x 3.4 m Ball Mill	6.60	2.50	2.80	21.7	8.20	9.19	16.5	178	14900	32849	160	215	Lenmark
1	2400-HP-01	2400	HP	01	Mill Discharge Hopper	Local Fabrication	1.50	1.00	1.00	4.92	3.28	3.28	1.50	16.1					Steeffab Alaska
1	2400-PU-01	2400	PU	01	Cyclone Feed Pump	Warman MCR											6.00	8.05	Weir
1	2400-CY-01	2400	CY	01	Hydrocyclone Cluster	Krebs 10in Cyclone	0.50	0.50	1.30	1.64	1.64	4.27	0.25	2.69					Savona
1	2400-SM-01	2400	SM	01	Milling Cross Cut Sampler	Multotec Wet-Sampler											10.00	13.41	Multotec
1	2400-SU-01	2400	SU	01	Mill Discharge Sump	Local Fabrication	2.50	2.50	4.00	8.20	8.20	13.1	6.25	67.3					Steeffab Alaska
1	2400-PU-02	2400	PU	02	Mill Discharge Sump Pump	Warman SP											6.00	8.05	Weir
1	2000-SW-01	2000	SW	01	Beneficiation Plant Safety Shower	H-6697 Uline Emergency Shower/Eyewash Station									19.0	41.9			Uline

Estelle Gold and Critical Minerals Project, Alaska
Antimony Pilot Plant Project – Port MacKenzie
Plan of Operations

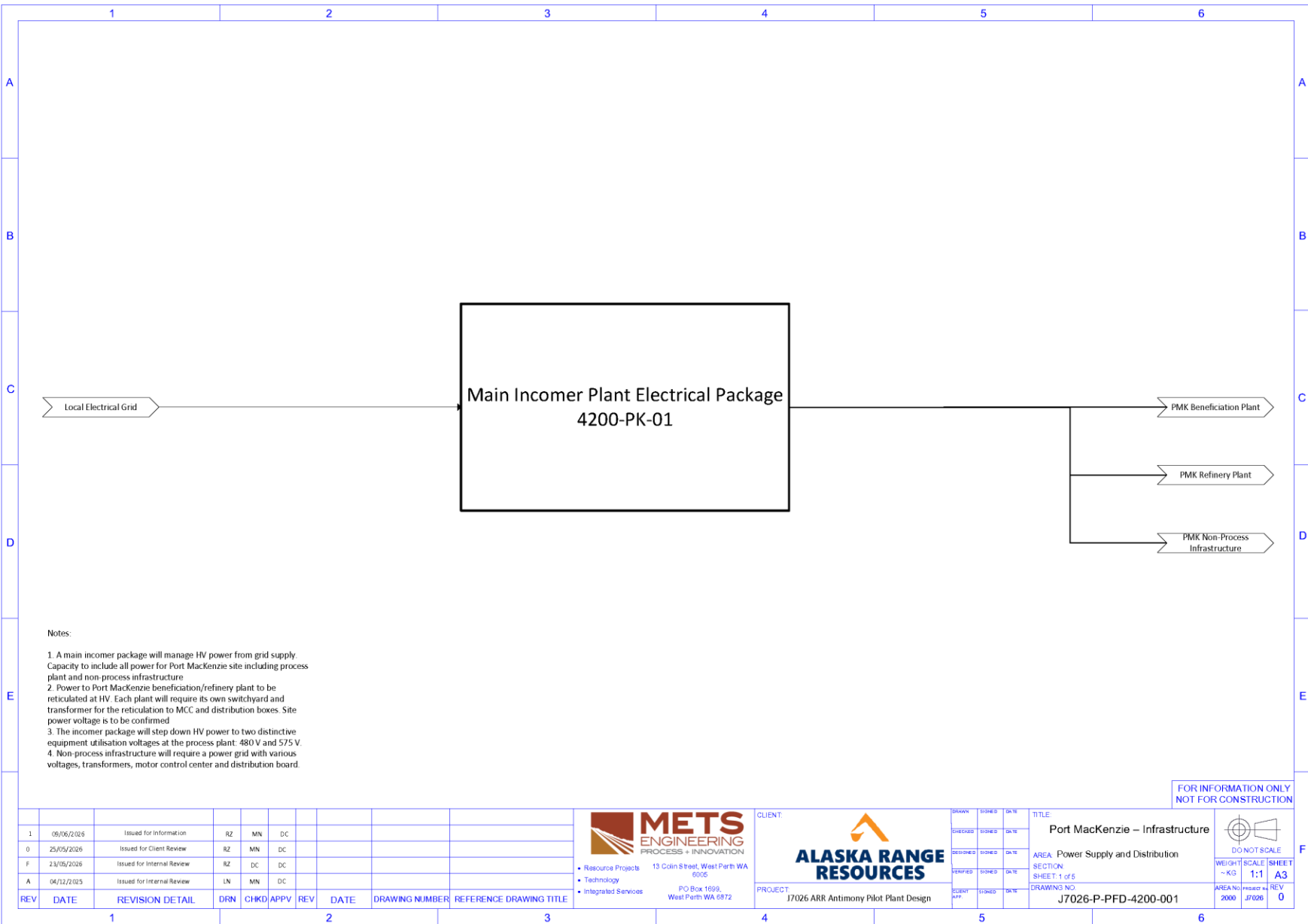
July 2026

Quantity	Equipment Number	Section Number	Equipment	Tag	Fixed Equipment Name	Model/Type (equivalent or similar)	Dimensions						Area		Mass		Power Requirements		Supplier
							L (m) x W (m) x H (m)			L (ft) x W (ft) x H (ft)			(m ²)	(ft ²)	(kg)	(lb)	(kW)	(HP)	
SECTION 2500 - FLOTATION																			
1	2500-TK-01	2500	TK	01	Rougher Conditioning Tank	Local Fabrication	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1					Steeffab Alaska
1	2500-PU-01	2500	PU	01	Rougher Conditioning Tank Pump	Warman MF											3.00	4.02	Weir
1	2500-FC-01	2500	FC	01	Rougher Flotation Cell 1	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-02	2500	FC	02	Rougher Flotation Cell 2	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-03	2500	FC	03	Rougher Flotation Cell 3	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-04	2500	FC	04	Scavenger Flotation Cell 1	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-05	2500	FC	05	Scavenger Flotation Cell 2	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-06	2500	FC	06	Scavenger Flotation Cell 3	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-07	2500	FC	07	Scavenger Flotation Cell 4	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-TK-02	2500	TK	02	Scavenger Concentrate Surge Tank	Local Fabrication	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1					Steeffab Alaska
1	2500-PU-02	2500	PU	02	Scavenger Concentrate Recycle Pump	Warman MF											3.00	4.02	Weir
1	2500-TK-03	2500	TK	03	Scavenger Tails Surge Tank	Local Fabrication	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1					Steeffab Alaska
1	2500-PU-03	2500	PU	03	Scavenger Tails Pump	Warman MF											3.00	4.02	Weir
1	2500-TK-04	2500	TK	04	Cleaner Conditioning Tank	Local Fabrication	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1					Steeffab Alaska
1	2500-PU-04	2500	PU	04	Cleaner Feed Pump	Warman MF											3.00	4.02	Weir
1	2500-FC-08	2500	FC	08	Cleaner Flotation Cell 1	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-FC-09	2500	FC	09	Cleaner Flotation Cell 2	Metso RCS-5	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1			15.0	20.1	Lenmark
1	2500-TK-05	2500	TK	05	Cleaner Concentrate Surge Tank	Local Fabrication	2.00	2.00	2.00	6.56	6.56	6.56	4.00	43.1					Steeffab Alaska
1	2500-PU-05	2500	PU	05	Cleaner Concentrate Pump	Warman MF											3.00	4.02	Weir
1	2500-SM-01	2500	SM	01	Cleaner Cross Cut Sampler	Multotec Wet-Sampler													Multotec
1	2500-SU-01	2500	SU	01	Flotation Discharge Sump	Local Fabrication	2.50	2.50	4.00	8.20	8.20	13.1	6.3	67.3					Steeffab Alaska
1	2500-PU-06	2500	PU	06	Flotation Discharge Sump Pump	Warman SP											3.00	4.02	Weir
SECTION 2600 - THICKENING AND DEWATERING																			
1	2600-TH-01	2600	TH	01	Concentrate Thickener	4 m Diameter Rake Thickener	4.60	4.60	2.00	15.1	15.1	6.56	21.2	228			3.73	5.00	Lenmark
1	2600-TK-01	2600	TK	01	Concentrate Thickener O/F Surge Tank	Local Fabrication	1.00	1.00	1.00	3.28	3.28	3.28	1.00	10.8					Steeffab Alaska
1	2600-PU-01	2600	PU	01	Concentrate Overflow Pump	Warman DWU											6.00	8.05	Weir
1	2600-PU-02	2600	PU	02	Concentrate Underflow Pump	Warman MF											6.00	8.05	Weir
1	2600-TK-02	2600	TK	02	Concentrate Filter Feed Tank	Local Fabrication	1.00	1.00	1.00	3.28	3.28	3.28	1.00	10.8					Steeffab Alaska
1	2600-PU-03	2600	PU	03	Concentrate Filter Feed Pump	Warman MF											6.00	8.05	Weir
1	2600-FL-01	2600	FL	01	Concentrate Filter Press	Larox - PF Vertical Filter Press PF 28/32 M12 1 60	4.80	3.80	4.70	15.7	12.5	15.4	18.2	196	19900	43872	38.55	51.7	Lenmark
1	2600-TK-03	2600	TK	03	Concentrate Filtrate Collection Tank	Local Fabrication	1.00	1.00	1.00	3.28	3.28	3.28	1.00	10.8					Steeffab Alaska
1	2600-PU-04	2600	PU	04	Concentrate Filtrate Pump	Warman DWU											6.00	8.05	Weir
1	2600-SM-01	2600	SM	01	Concentrate Swing Sampler	Multotec Swing-arm Sampler											10.0	13.4	Multotec
1	2600-CV-01	2600	CV	01	Concentrate Transfer Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2600-SU-01	2600	SU	01	Concentrate Discharge Sump	Local Fabrication	2.50	2.50	4.00	8.20	8.20	13.1	6.25	67.3					Steeffab Alaska
1	2600-PU-05	2600	PU	05	Concentrate Discharge Sump Pump	Warman SP											6.00	8.05	Weir
1	2600-TH-02	2600	TH	02	Flotation Tails Thickener	7 m Diameter Rake Thickener	7.60	7.60	2.00	24.9	24.9	6.56	57.8	622			3.73	5.00	Lenmark
1	2600-TK-04	2600	TK	04	Flotation Tails Thickener O/F Surge Tank	Local Fabrication	2.50	2.50	2.00	8.20	8.20	6.56	6.25	67.3					Steeffab Alaska
1	2600-PU-06	2600	PU	06	Flotation Tails Overflow Pump	Warman DWU											6.00	8.05	Weir
1	2600-PU-07	2600	PU	07	Flotation Tails Underflow Pump	Warman MF											6.00	8.05	Weir
1	2600-TK-05	2600	TK	05	Flotation Tails Filter Feed Tank	Local Fabrication	2.50	2.50	2.00	8.20	8.20	6.56	6.25	67.3					Steeffab Alaska
1	2600-PU-08	2600	PU	08	Flotation Tails Filter Feed Pump	Warman MF											6.00	8.05	Weir
1	2600-FL-02	2600	FL	02	Flotation Tails Filter Press	Larox Horizontal Belt Filter, 1.6 m x 6.0 m, RB-SV 1600	12.1	3.40	4.45	39.7	11.2	14.6	41.1	443	13100	28881	54.0	72.4	Lenmark
1	2600-TK-06	2600	TK	06	Flotation Tails Filtrate Collection Tank	Local Fabrication	2.50	2.50	2.00	8.20	8.20	6.56	6.25	67.3					Steeffab Alaska
1	2600-PU-09	2600	PU	09	Flotation Tails Filtrate Pump	Warman DWU											6.00	8.05	Weir
1	2600-SM-02	2600	SM	02	Flotation Tails Swing Sampler	Multotec Swing-arm Sampler											10.0	13.4	Multotec
1	2600-CV-02	2600	CV	02	Flotation Tails Transfer Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2600-SU-02	2600	SU	02	Flotation Tails Discharge Sump	Local Fabrication	2.50	2.50	4.00	8.20	8.20	13.1	6.25	67.3					Steeffab Alaska
1	2600-PU-10	2600	PU	10	Flotation Tails Discharge Sump Pump	Warman SP											6.00	8.05	Weir

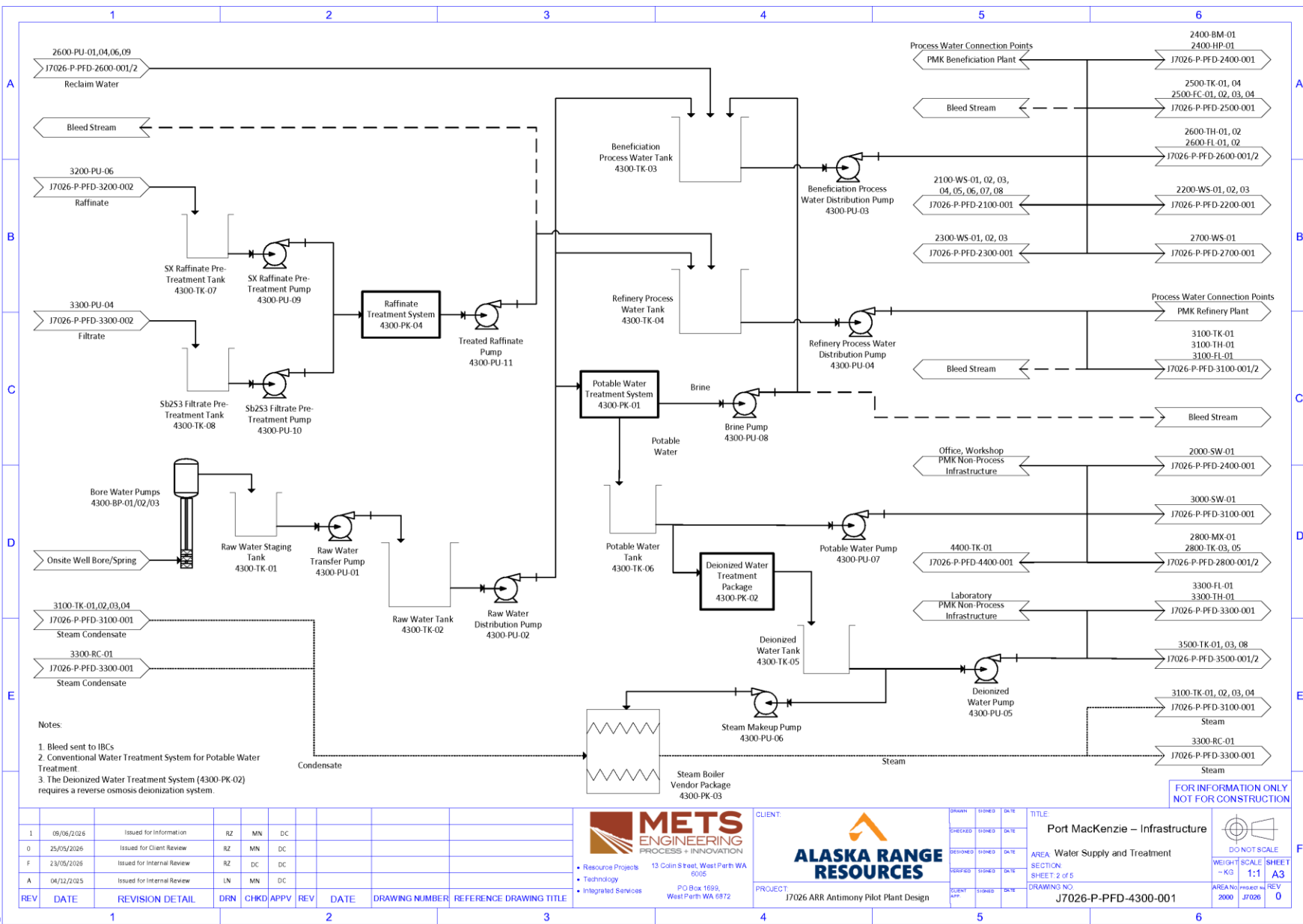
Quantity	Equipment Number	Section Number	Equipment	Tag	Fixed Equipment Name	Model/Type (equivalent or similar)	Dimensions						Area		Mass		Power Requirements		Supplier
							L (m) x W (m) x H (m)			L (ft) x W (ft) x H (ft)			(m ²)	(ft ²)	(kg)	(lb)	(kW)	(HP)	
SECTION 2700 - STORAGE, LOADING, AND SHIPPING																			
1	2700-BB-01	2700	BB	01	Bulk Bag Breaker	Super Sack Bag Unloading System /w Dust Extraction	2.57	2.93	4.11	8.44	9.60	13.5	7.53	81.0			5.97	8.00	Lenmark
1	2700-CV-01	2700	CV	01	Enclosed Whiskey Bravo Concentrate Conveyor	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2700-WS-01	2700	WS	01	Whiskey Bravo Concentrate Conveyor Spray	Vendor Package													Spraying System Co
1	2700-CH-01	2700	CH	01	Sibnite Concentrate Stockpile Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2700-ST-01	2700	ST	01	Sibnite Concentrate Stacker	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2700-BN-01	2700	BN	01	Sibnite Concentrate Bin	Local Fabrication													
1	2700-CH-02	2700	CH	02	Flotation Stockpile Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2700-ST-02	2700	ST	02	Flotation Stacker	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
1	2700-CH-03	2700	CH	03	Ore Sorter Rejects Chute	Local Fabrication	1.00	1.00		3.28	3.28		1.00	10.8					Steeffab Alaska
1	2700-ST-03	2700	ST	03	Ore Sorter Rejects Stacker	Hope Bay Conveyor		1.00			3.28						11.3	15.1	Lenmark
SECTION 2800 - REAGENTS																			
1	2800-PU-01	2800	PU	01	H3O Pump	Centrifugal Pump											3.00	4.02	Alaska Pump
1	2800-TK-01	2800	TK	01	H3O Storage Tank	Local Fabrication	1.00	1.00	2.00	3.28	3.28	6.56	1.00	10.8					Steeffab Alaska
1	2800-PU-02	2800	PU	02	H3O Feed Pump	Centrifugal Pump											3.00	4.02	Alaska Pump
1	2800-MX-01	2800	MX	01	Flocculant Mixing Vendor Package	Vendor Package											5.00	6.71	
1	2800-TK-02	2800	TK	02	Flocculant Storage Tank	Local Fabrication	1.00	1.00	2.00	3.28	3.28	6.56	1.00	10.8					Steeffab Alaska
1	2800-PU-03	2800	PU	03	Flocculant Feed Pump	Centrifugal Pump											3.00	4.02	Alaska Pump
1	2800-BB-01	2800	BB	01	PAX Bulk Bag Breaker	Super Sack Bag Unloading System	2.57	2.93	4.11	8.44	9.60	13.5	7.53	81.0			3.73	5.00	Lenmark
1	2800-TK-03	2800	TK	03	PAX Mixing Tank	Local Fabrication	1.00	1.00	1.00	3.28	3.28	3.28	1.00	10.8			5.00	6.71	Steeffab Alaska
1	2800-TK-04	2800	TK	04	PAX Storage Tank	Local Fabrication	1.00	1.00	2.00	3.28	3.28	6.56	1.00	10.8					Steeffab Alaska
1	2800-PU-04	2800	PU	04	PAX Feed Pump	Centrifugal Pump											3.00	4.02	Alaska Pump
1	2800-BB-02	2800	BB	02	CuSO4 Bulk Bag Breaker	Super Sack Bag Unloading System	2.57	2.93	4.11	8.44	9.60	13.5	7.53	81.0			3.73	5.00	Lenmark
1	2800-TK-05	2800	TK	05	CuSO4 Mixing Tank	Local Fabrication	1.00	1.00	1.00	3.28	3.28	3.28	1.00	10.8			5.00	6.71	Steeffab Alaska
1	2800-TK-06	2800	TK	06	CuSO4 Storage Tank	Local Fabrication	1.00	1.00	2.00	3.28	3.28	6.56	1.00	10.8					Steeffab Alaska
1	2800-PU-05	2800	PU	05	CuSO4 Feed Pump	Centrifugal Pump											3.00	4.02	Alaska Pump
1	2800-HP-01	2800	HP	01	Ball Mill Ball Charge Hopper	Local Fabrication	2.00	1.00	1.00	6.56	3.28	3.28	2.00	21.5					Steeffab Alaska
1	2800-SU-01	2800	SU	01	Reagent Makeup Sump	Local Fabrication	2.50	2.50	4.00	8.20	8.20	13.1	6.25	67.3					Steeffab Alaska
1	2800-PU-06	2800	PU	06	Reagent Makeup Sump Pump	Warman SP											3.00	4.02	Weir

APPENDIX B – PMK FACILITY INFRASTRUCTURE

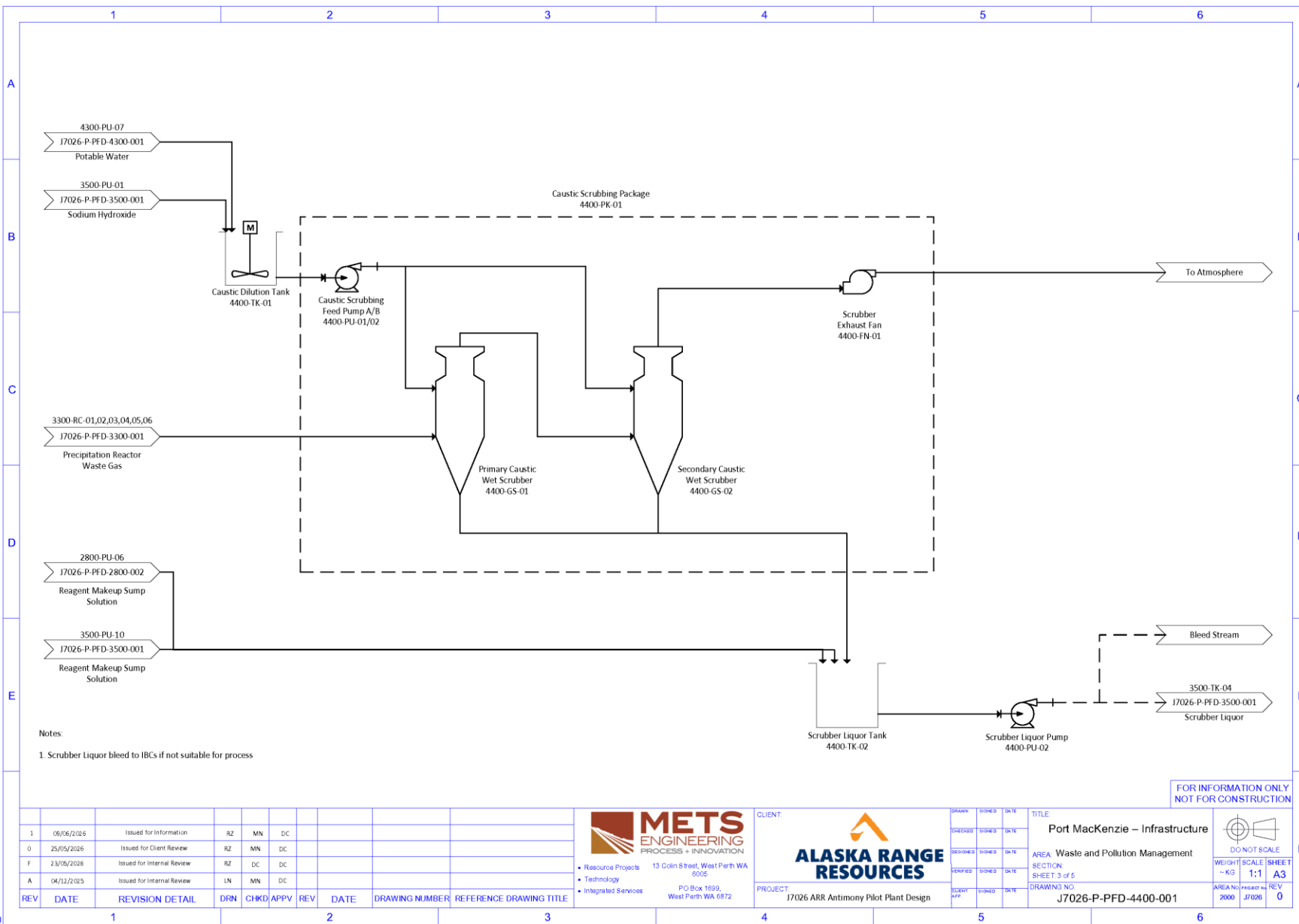
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1	05/06/2026	Issued for Information	RZ	MN	DC				
0	25/05/2026	Issued for Client Review	RZ	MN	DC				
F	23/06/2026	Issued for Internal Review	RZ	DC	DC				
A	04/12/2025	Issued for Internal Review	LN	MN	DC				

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13 Colin Street, West Perth WA 6005
PO Box 1699, West Perth WA 6872

CLIENT: **ALASKA RANGE RESOURCES**

PROJECT: J7026 ARR Antimony Pilot Plant Design

TITLE: **Port MacKenzie – Infrastructure**

AREA: Waste and Pollution Management

SECTION: SHEET 3 of 5

DRAWING NO: J7026-P-PFD-4400-001

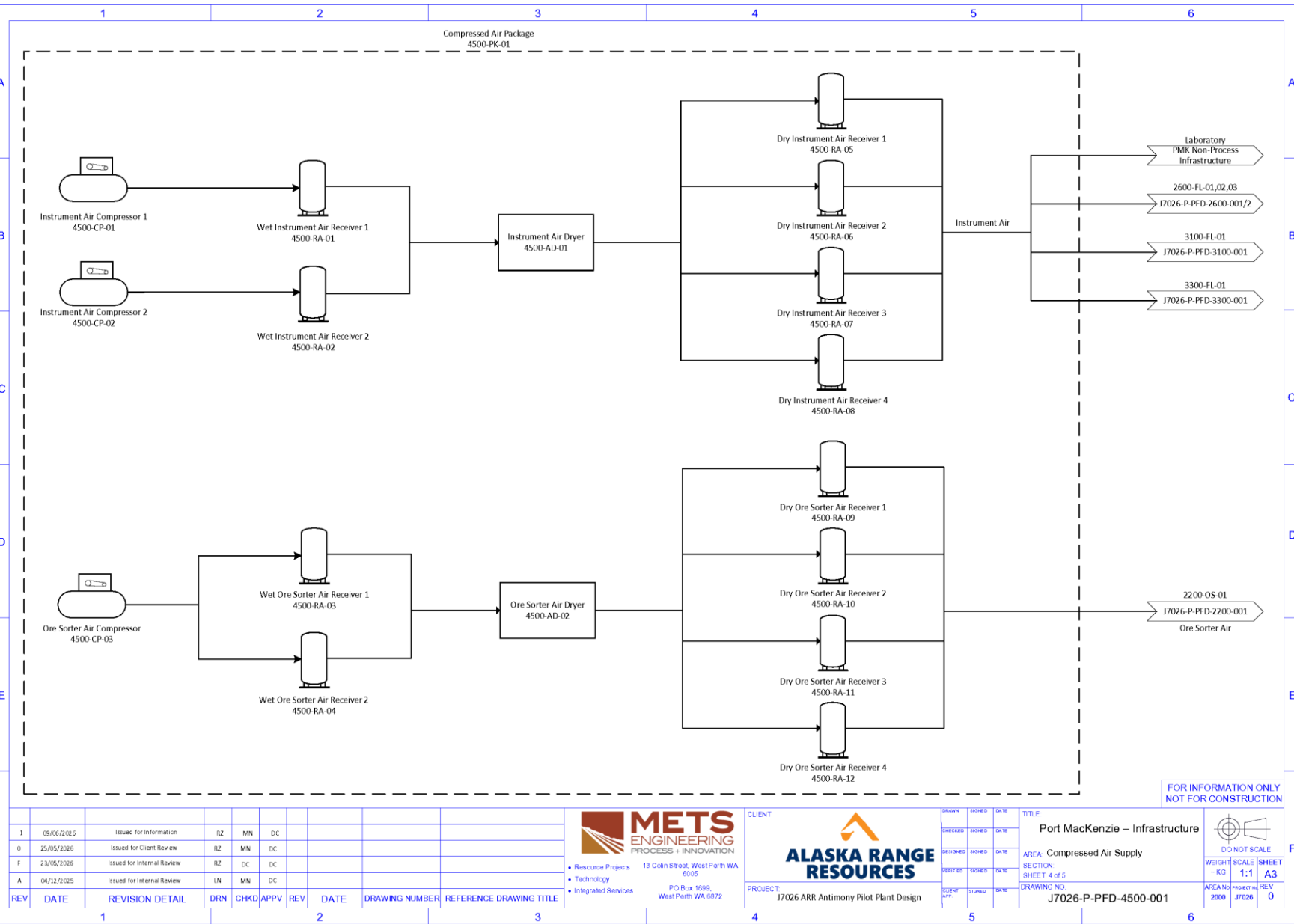
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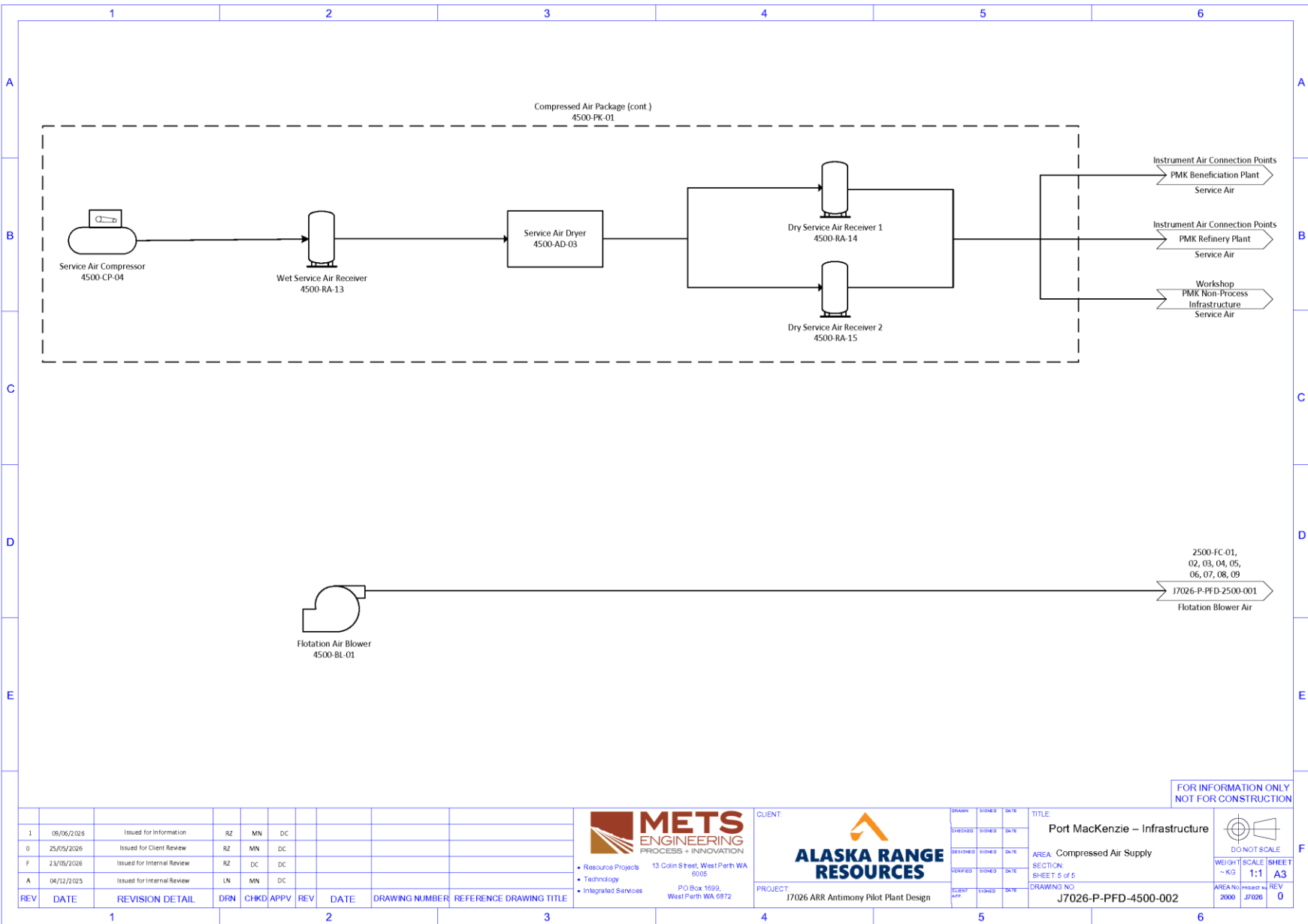
WEIGHT SCALE SHEET
~ KG 1:1 A3

AREA No PROJECT No REV
2000 J7026 0

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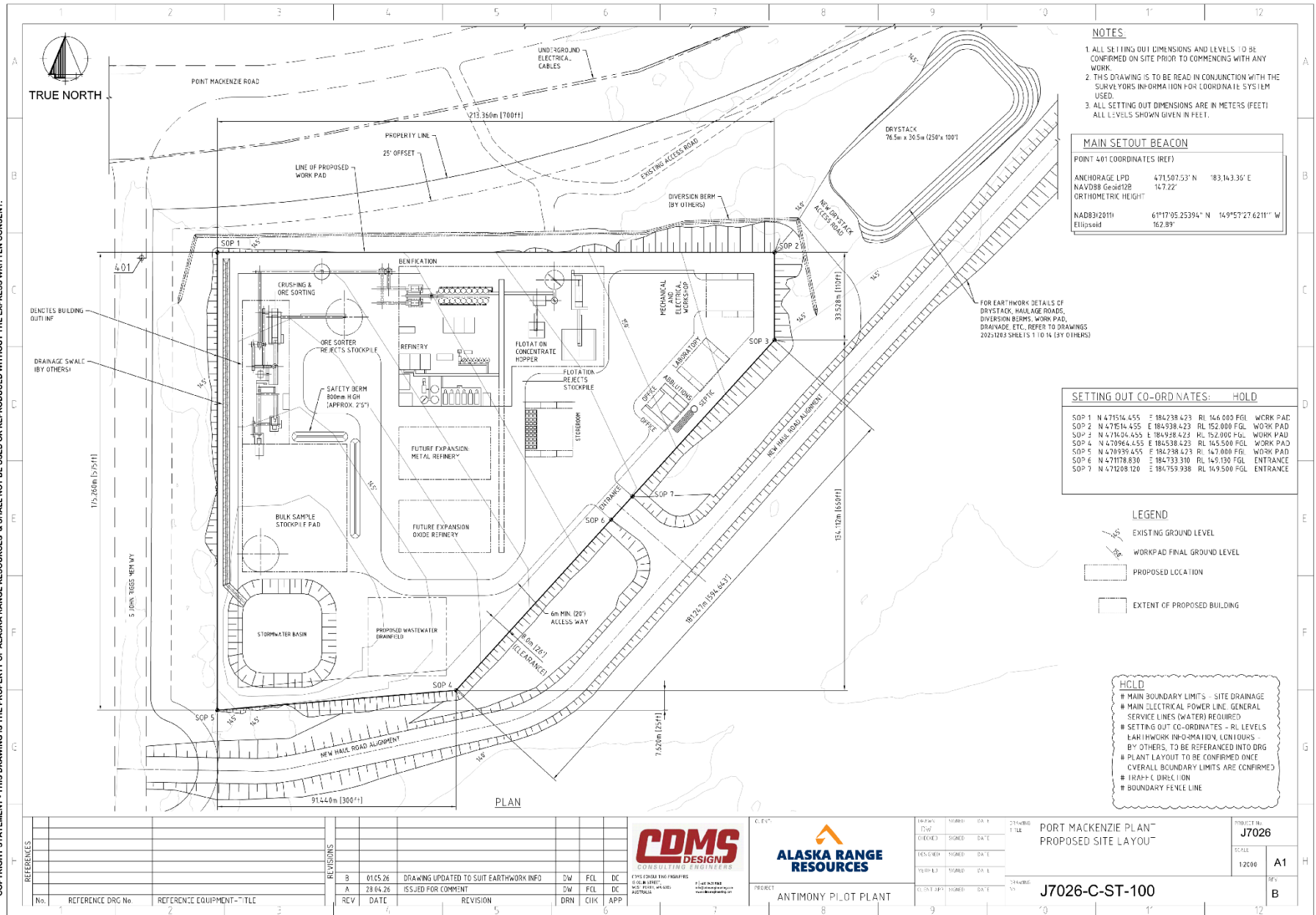


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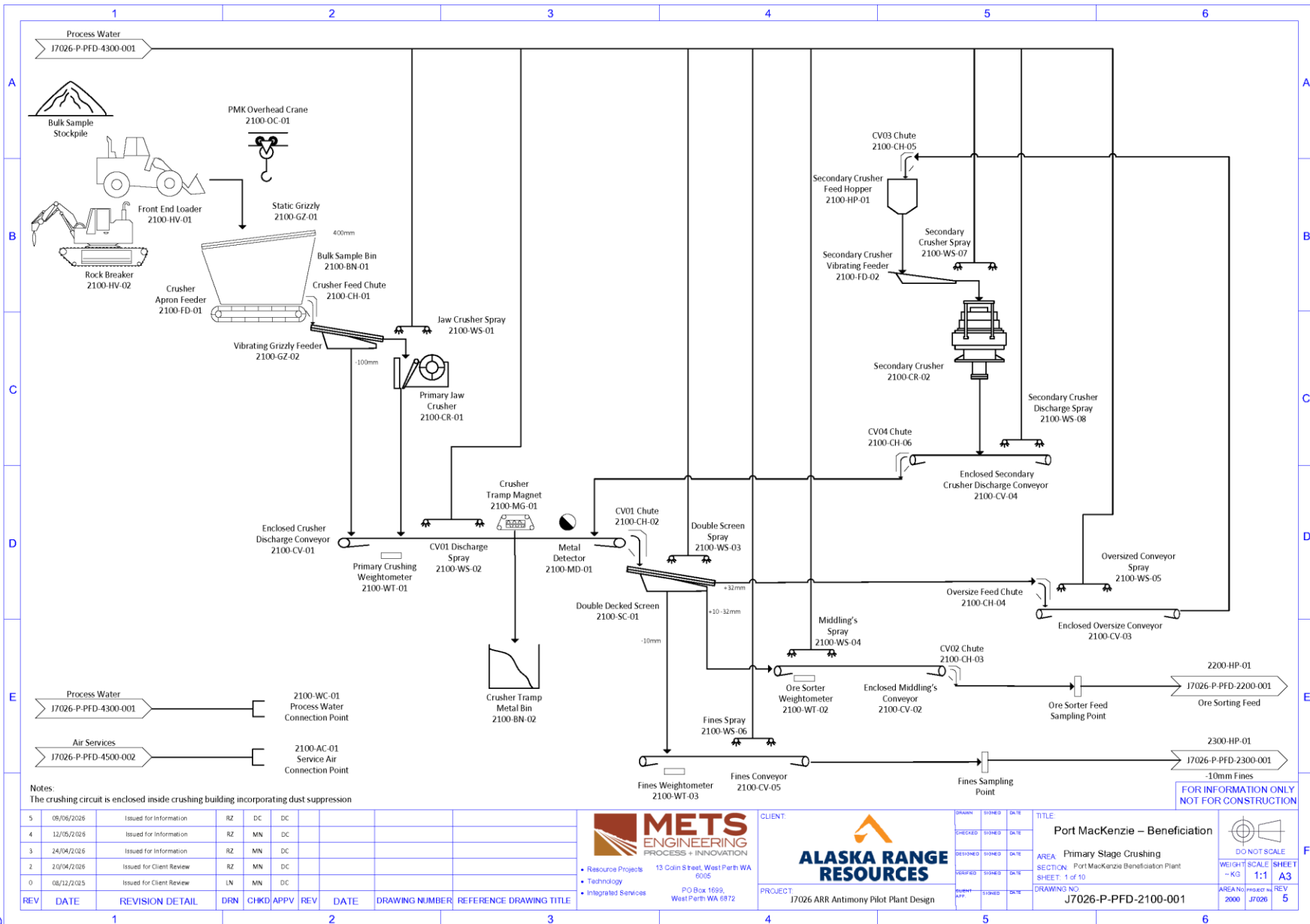
APPENDIX C – PROPOSED PMK SITE LAYOUT

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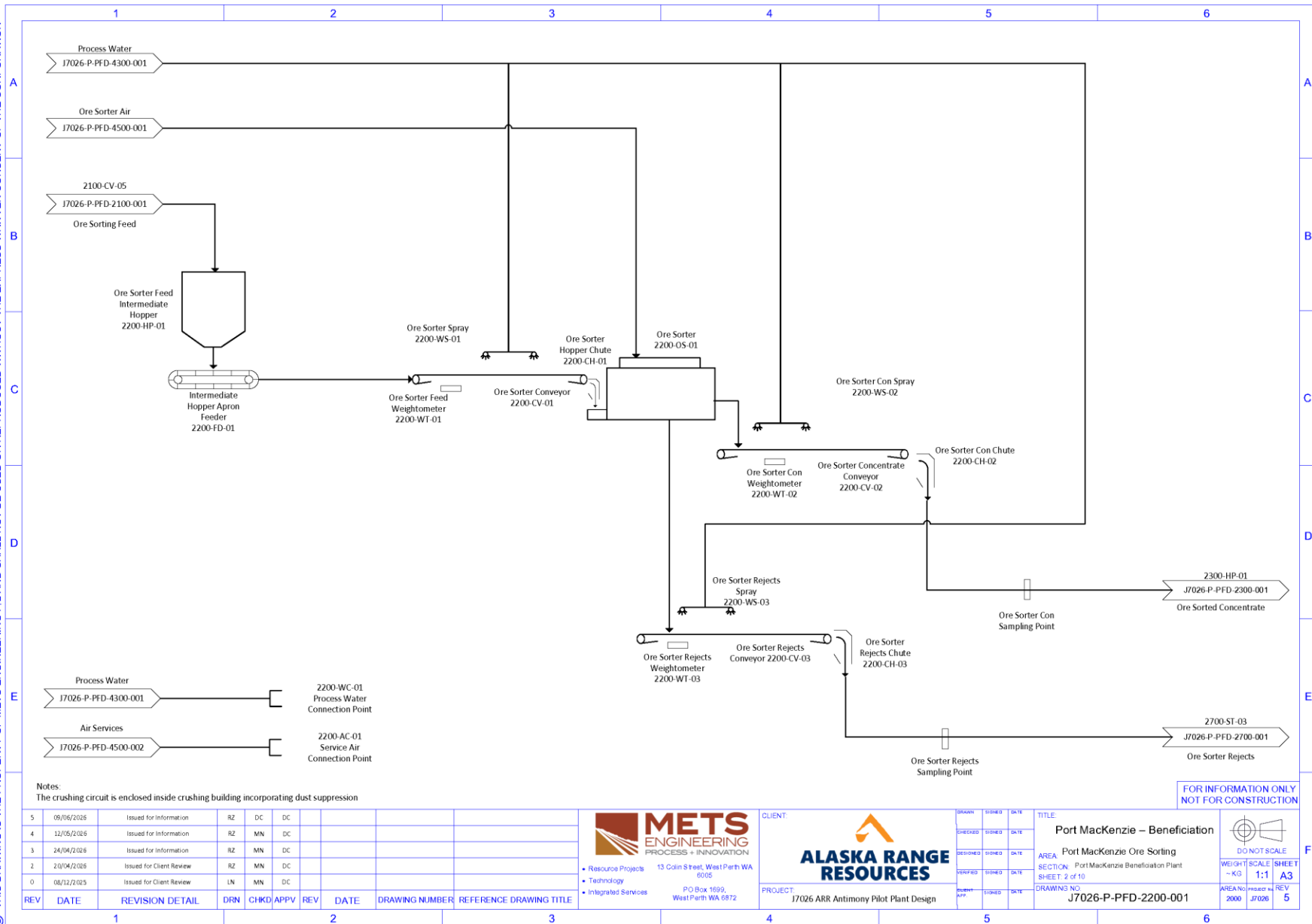


APPENDIX D – PMK PILOT PLANT REFINING PROCESSES

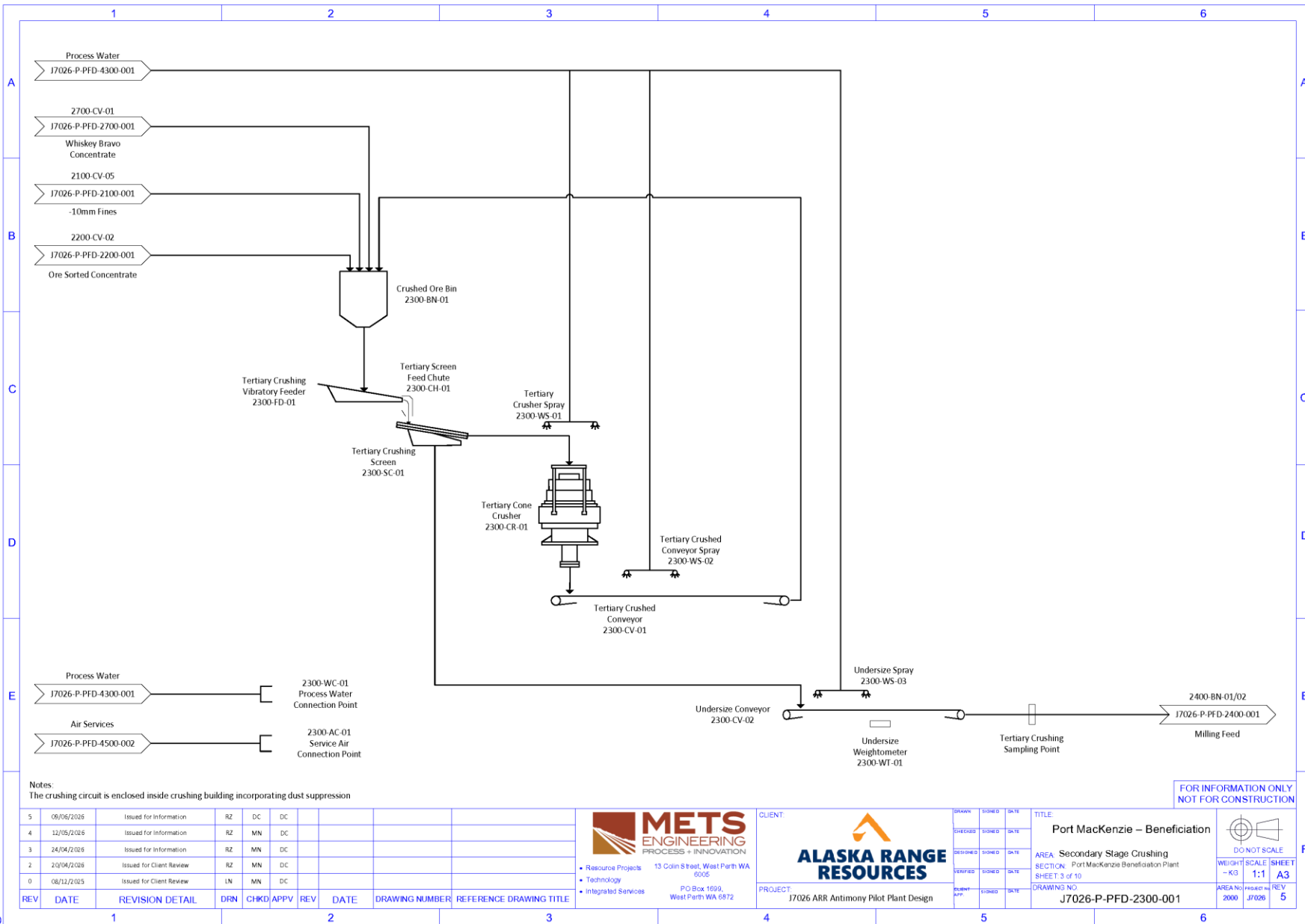
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CLIENT:



PROJECT: J7026 ARR Antimony Pilot Plant Design

DRAWN	SIGNED	DATE
CHECKED	SIGNED	DATE
DESIGNED	SIGNED	DATE
VERIFIED	SIGNED	DATE
ISSUED	SIGNED	DATE

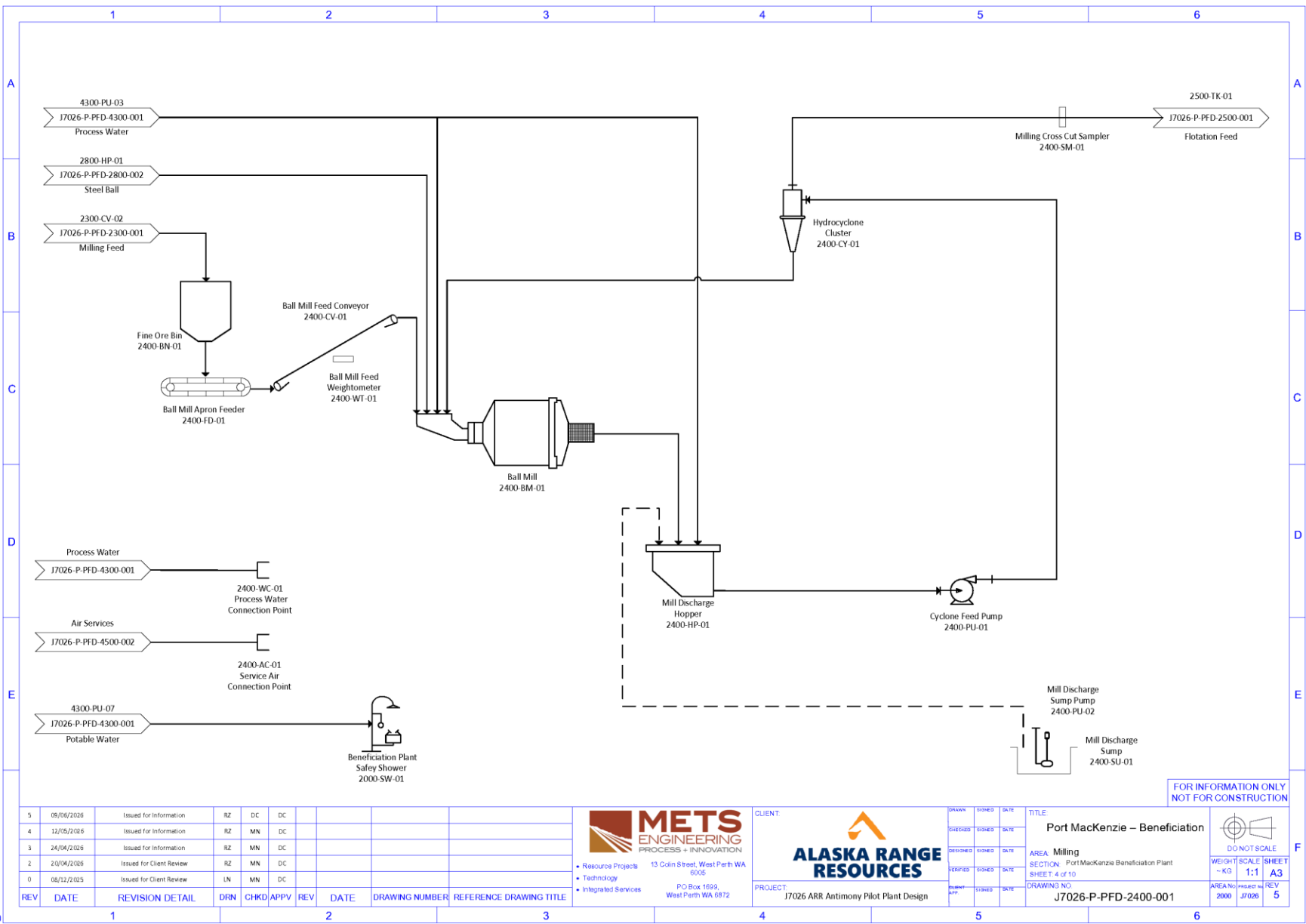
TITLE
Port MacKenzie – Beneficiation

AREA Secondary Stage Crushing
SECTION Port MacKenzie Beneficiation Plant
SHEET 3 of 10

DRAWING NO.
J7026-P-PFD-2300-001



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5	09/06/2026	Issued for Information	RZ	DC	DC						
4	12/05/2026	Issued for Information	RZ	MN	DC						
3	24/04/2026	Issued for Information	RZ	MN	DC						
2	20/04/2026	Issued for Client Review	RZ	MN	DC						
0	08/12/2025	Issued for Client Review	LN	MN	DC						
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CLIENT: 
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PROJECT: J7026 ARR Antimony Pilot Plant Design

DRAWN	SIGNED	DATE
DESIGNED	SIGNED	DATE
CHECKED	SIGNED	DATE
REVIEW	SIGNED	DATE

TITLE: Port MacKenzie – Beneficiation

AREA: Milling

SECTION: Port MacKenzie Beneficiation Plant

SHEET: 4 of 10

DRAWING NO: J7026-P-PFD-2400-001

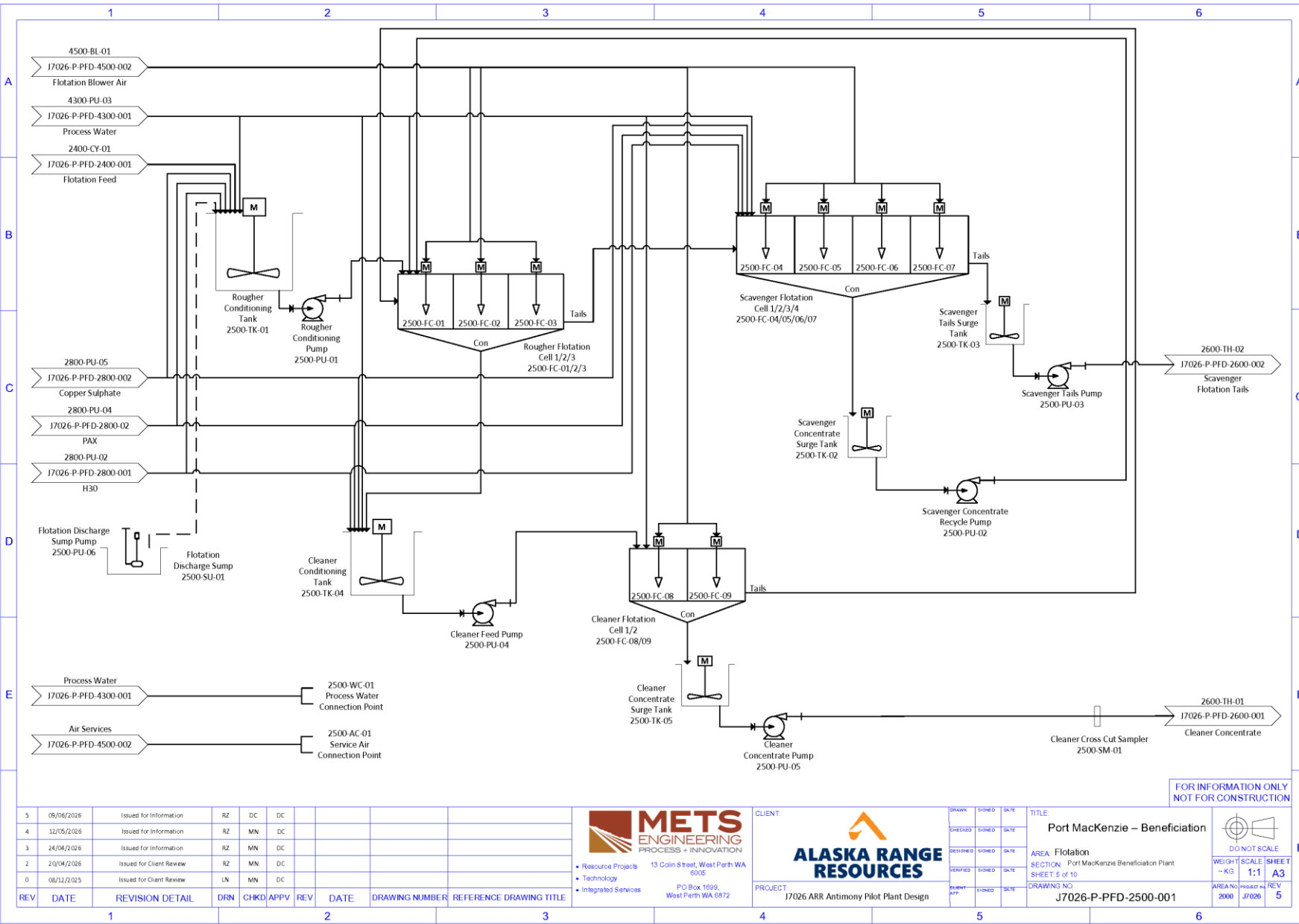
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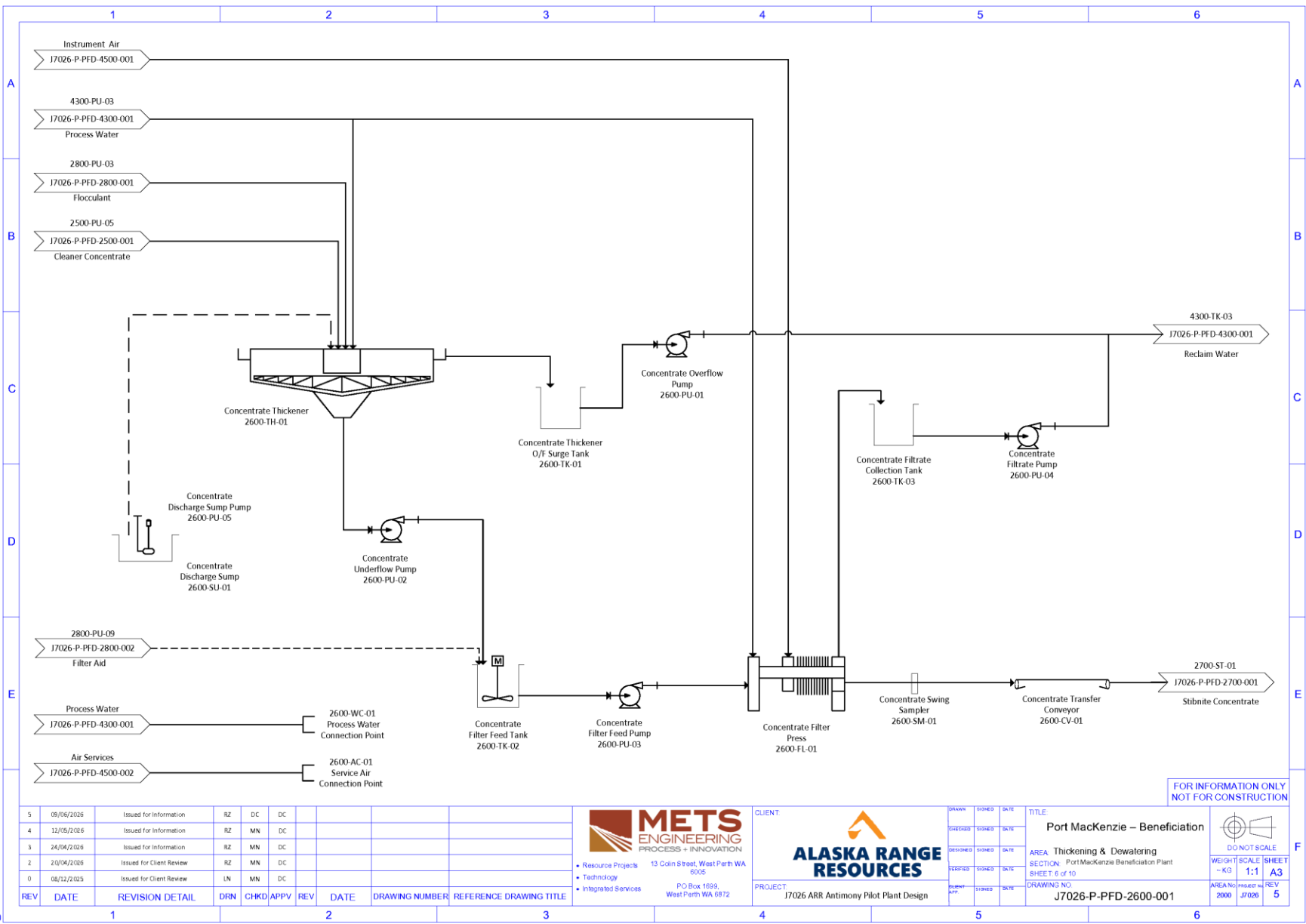
WEIGHT SCALE SHEET
~ KG 1:1 A3

AREA No PROJECT No REV
2000 J7026 5

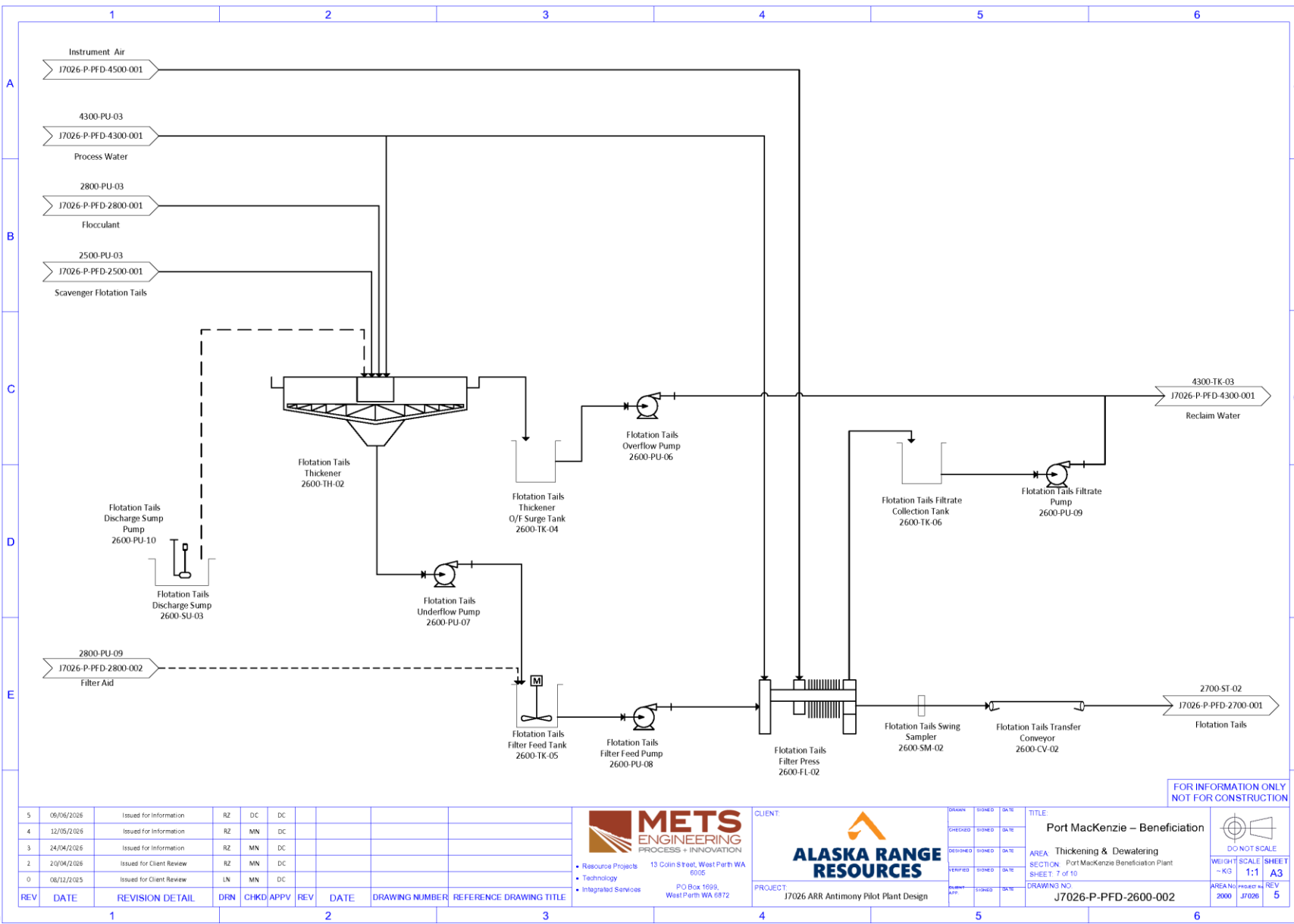
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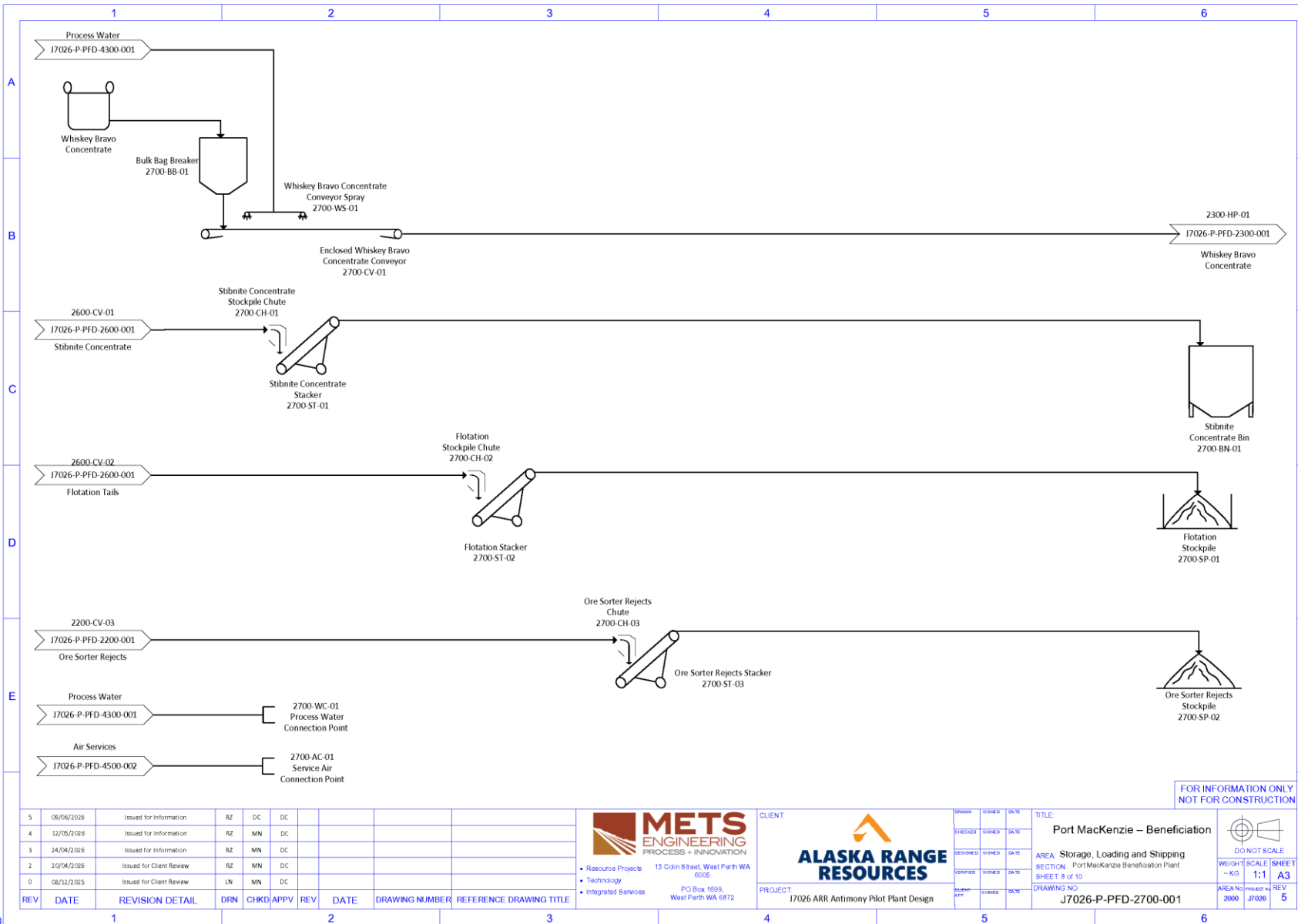
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CLIENT:
ALASKA RANGE RESOURCES

PROJECT:
J7026 ARR Antimony Pilot Plant Design

DESIGN
CHECKED
DESIGNED
VERIFIED
APPROVED

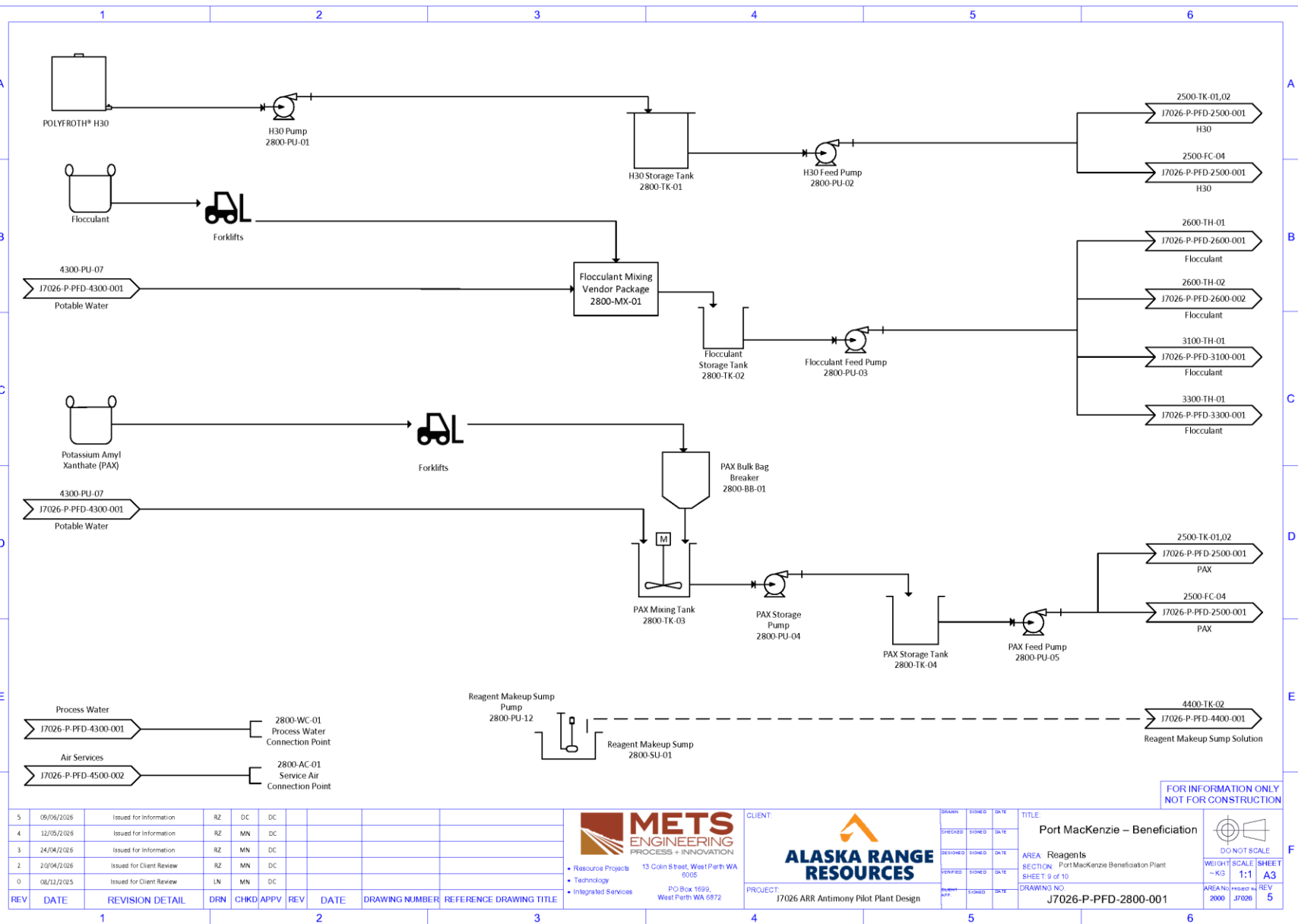
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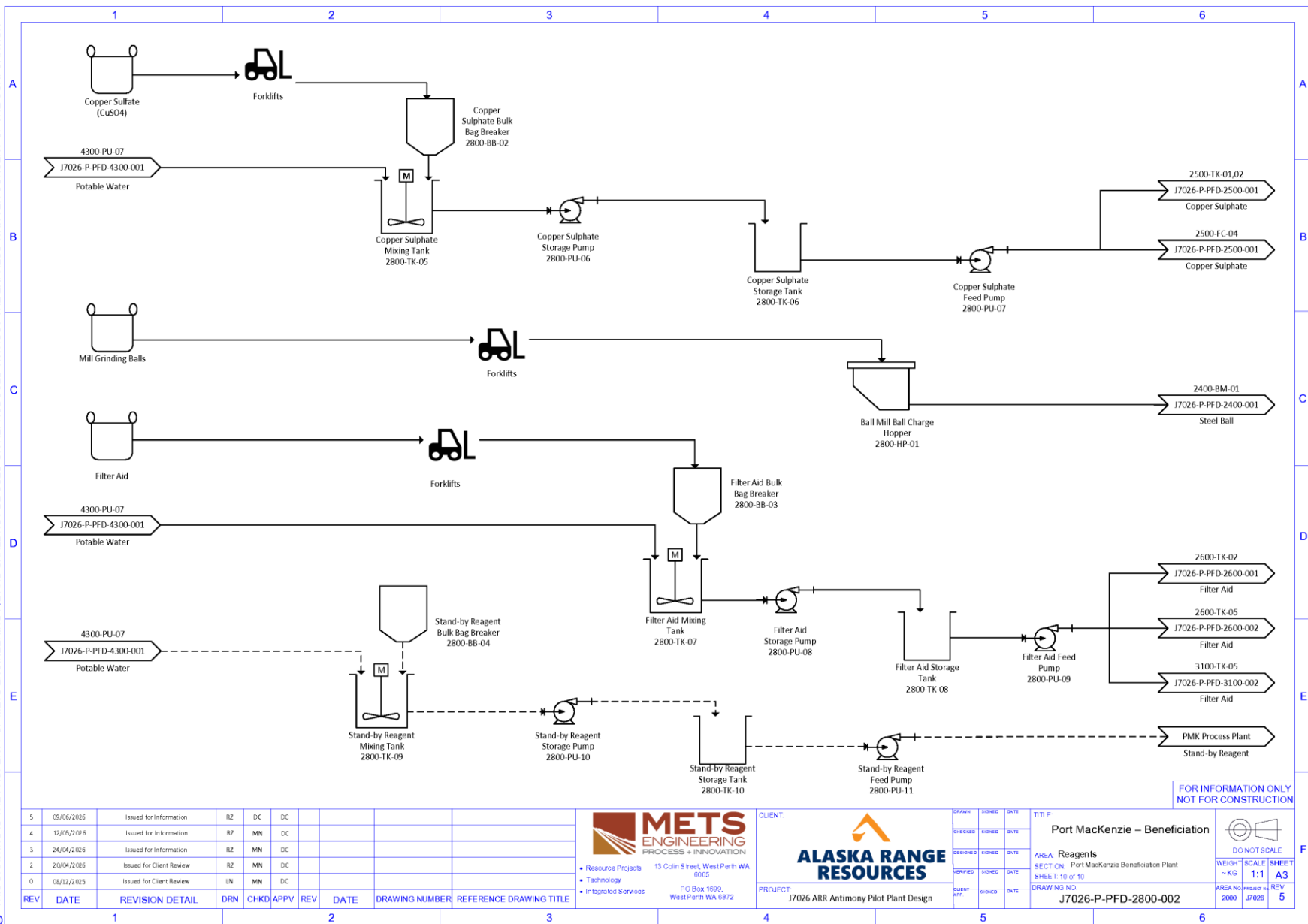
TITLE:
Port MacKenzie – Beneficiation

AREA: Storage, Loading and Shipping
SECTION: Port MacKenzie Beneficiation Plant
SHEET: 8 of 10
DRAWING NO.: J7026-P-PFD-2700-001

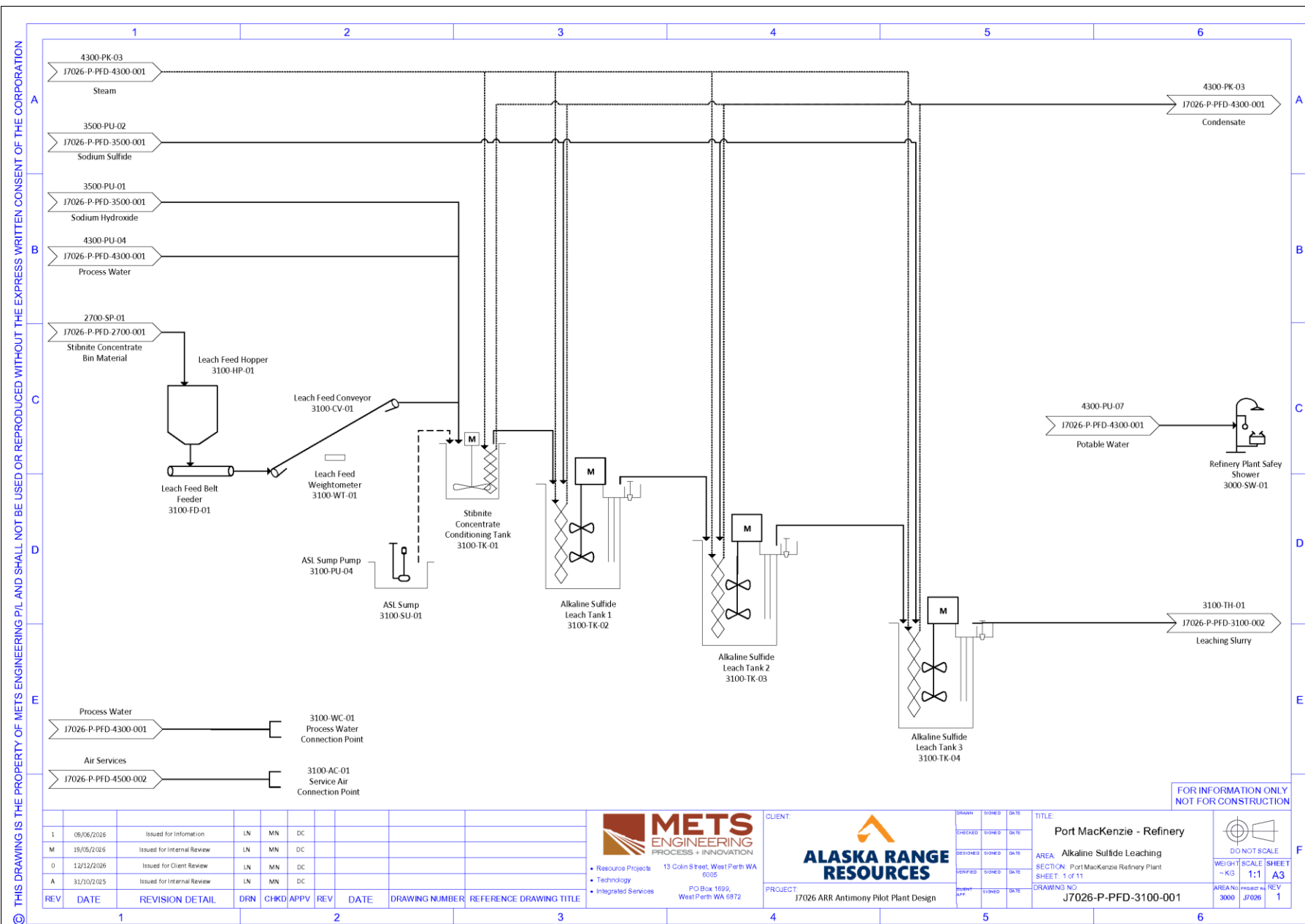
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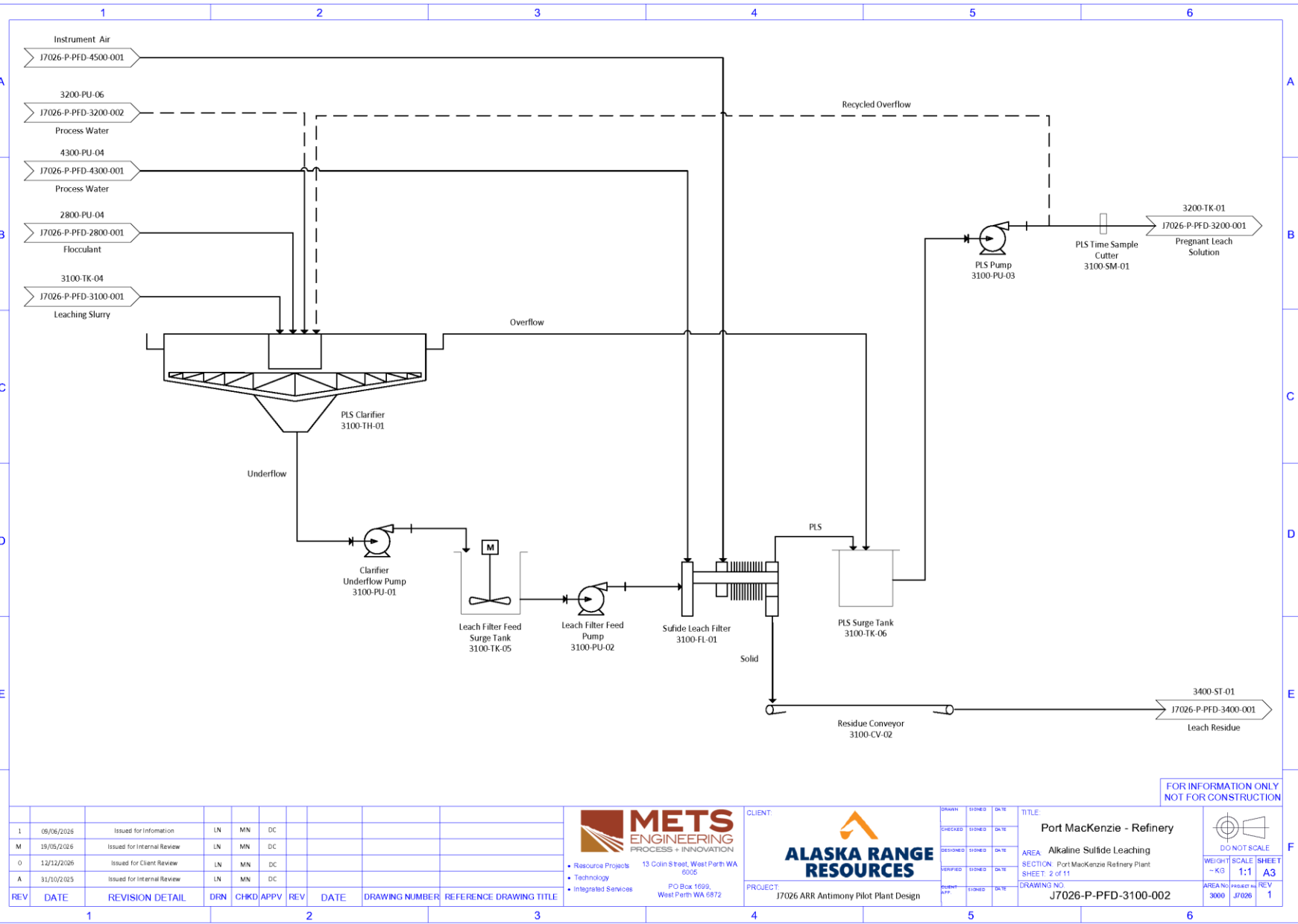
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APPENDIX E – PMK REFINING PROCESSES, STORAGE, LOADING, SHIPMENT



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M	15/05/2026	Issued for Internal Review	LN	MN	DC				
O	12/12/2025	Issued for Client Review	LN	MN	DC				
A	31/10/2025	Issued for Internal Review	LN	MN	DC				

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CLIENT: **ALASKA RANGE RESOURCES**

PROJECT: J7026 ARR Antimony Pilot Plant Design

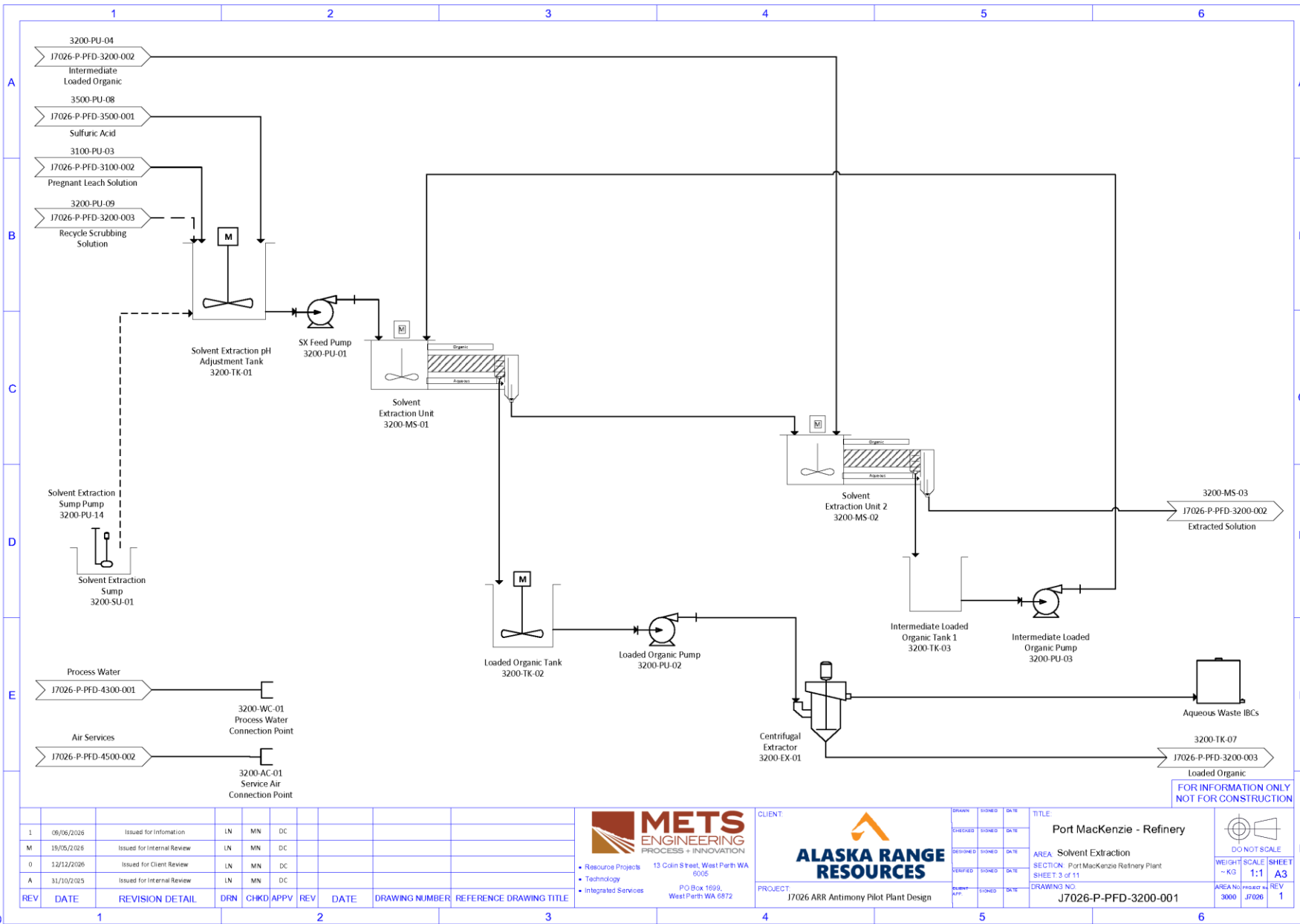
DRAWN	SIGNED	DATE	TITLE
CHECKED	SIGNED	DATE	Port MacKenzie - Refinery
DESIGNED	SIGNED	DATE	AREA: Alkaline Sulfide Leaching
VERIFIED	SIGNED	DATE	SECTION: Port MacKenzie Refinery Plant
APPROVED	SIGNED	DATE	SHEET: 2 of 11
DRAWING NO: J7026-P-PFD-3100-002			AREA NO: 3000
PROJECT NO: J7026			REV: 1

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CLIENT

ALASKA RANGE RESOURCES

PROJECT: J7026 ARR Antimony Pilot Plant Design

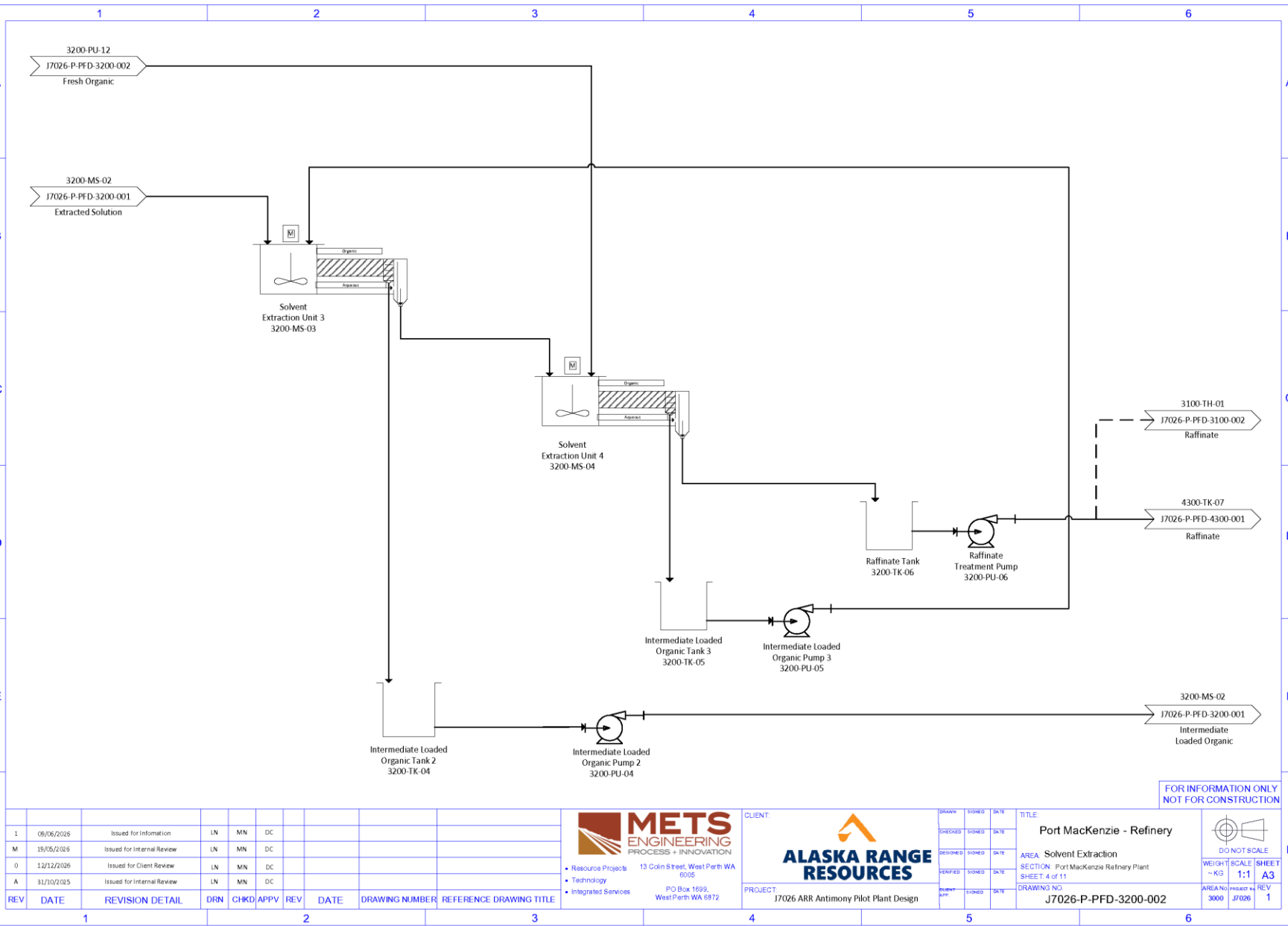
DRAWN	SIGNED	DATE
DESIGNED	SIGNED	DATE
REVIEWED	SIGNED	DATE
APPROVED	SIGNED	DATE

TITLE: Port MacKenzie - Refinery

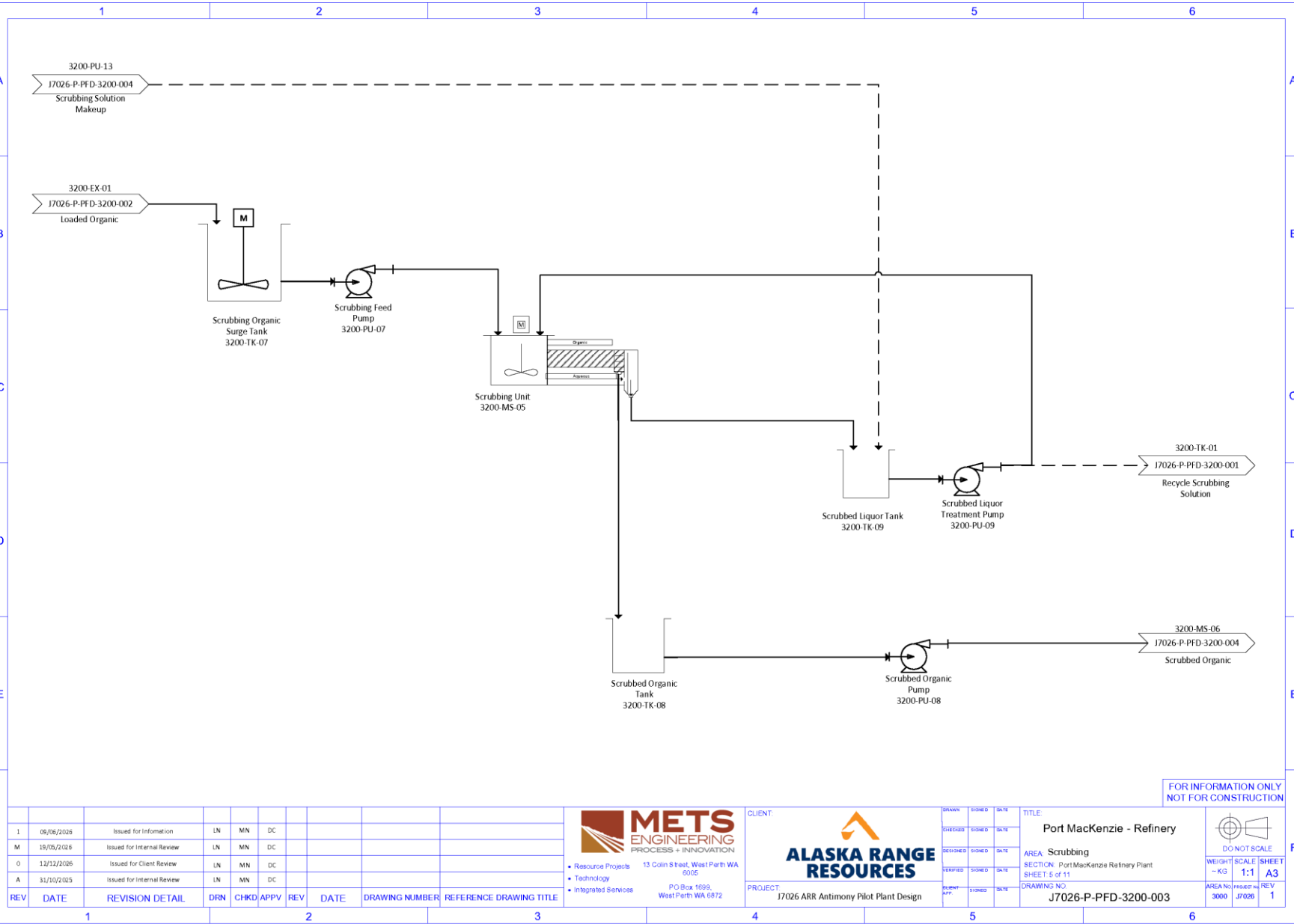
AREA: Solvent Extraction
SECTION: Port MacKenzie Refinery Plant
SHEET 3 of 11

DRAWING NO: J7026-P-PFD-3200-001

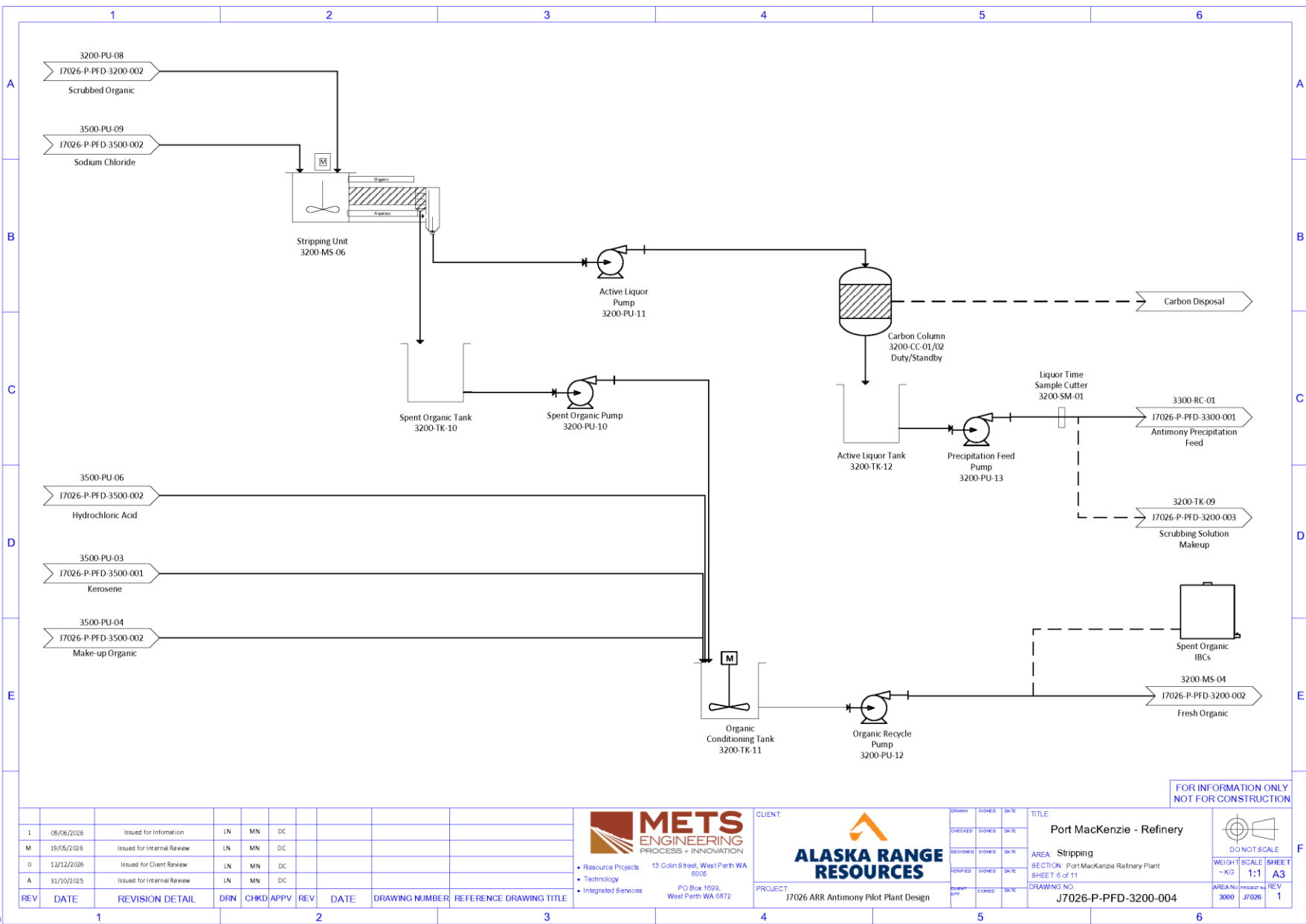
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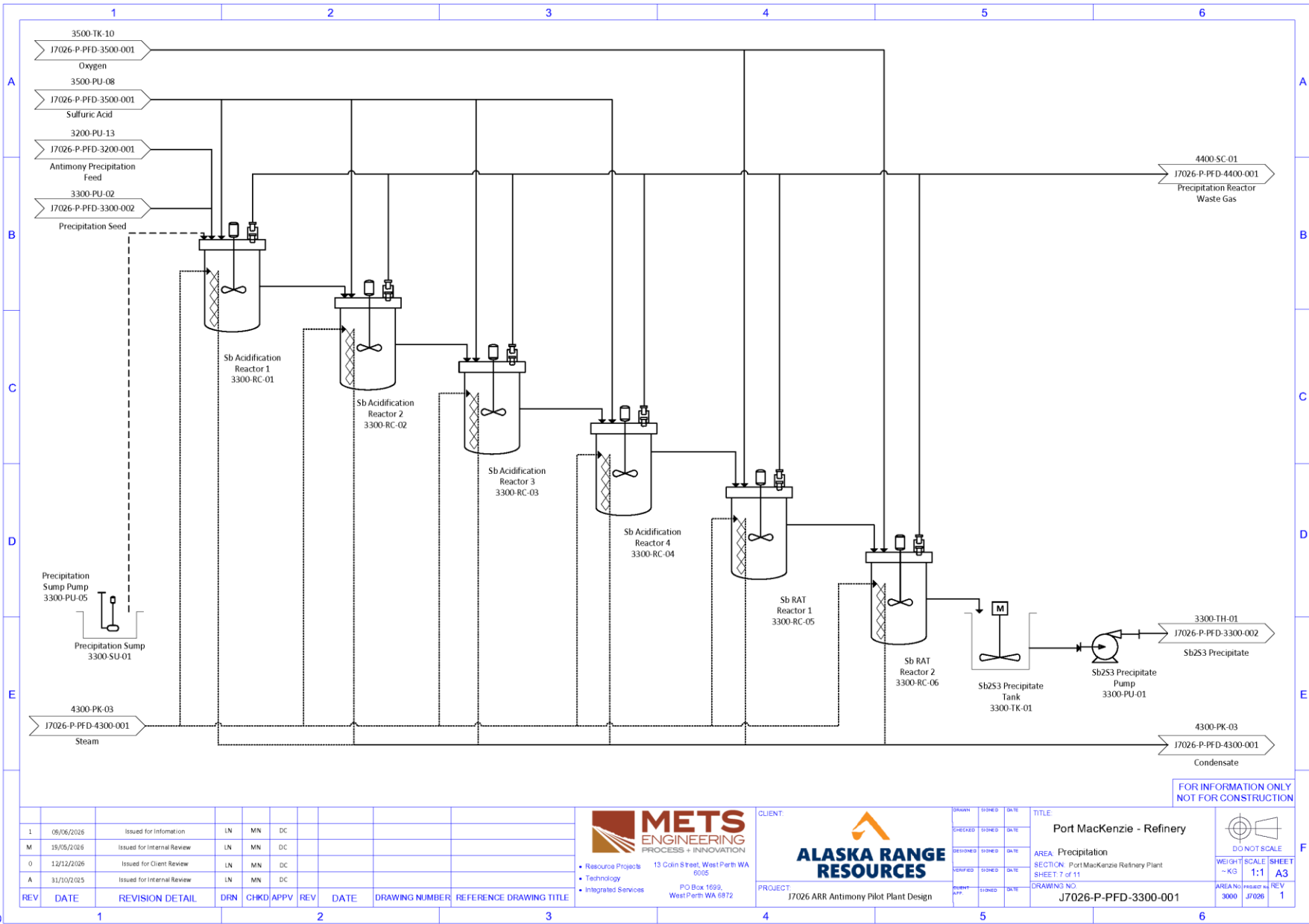
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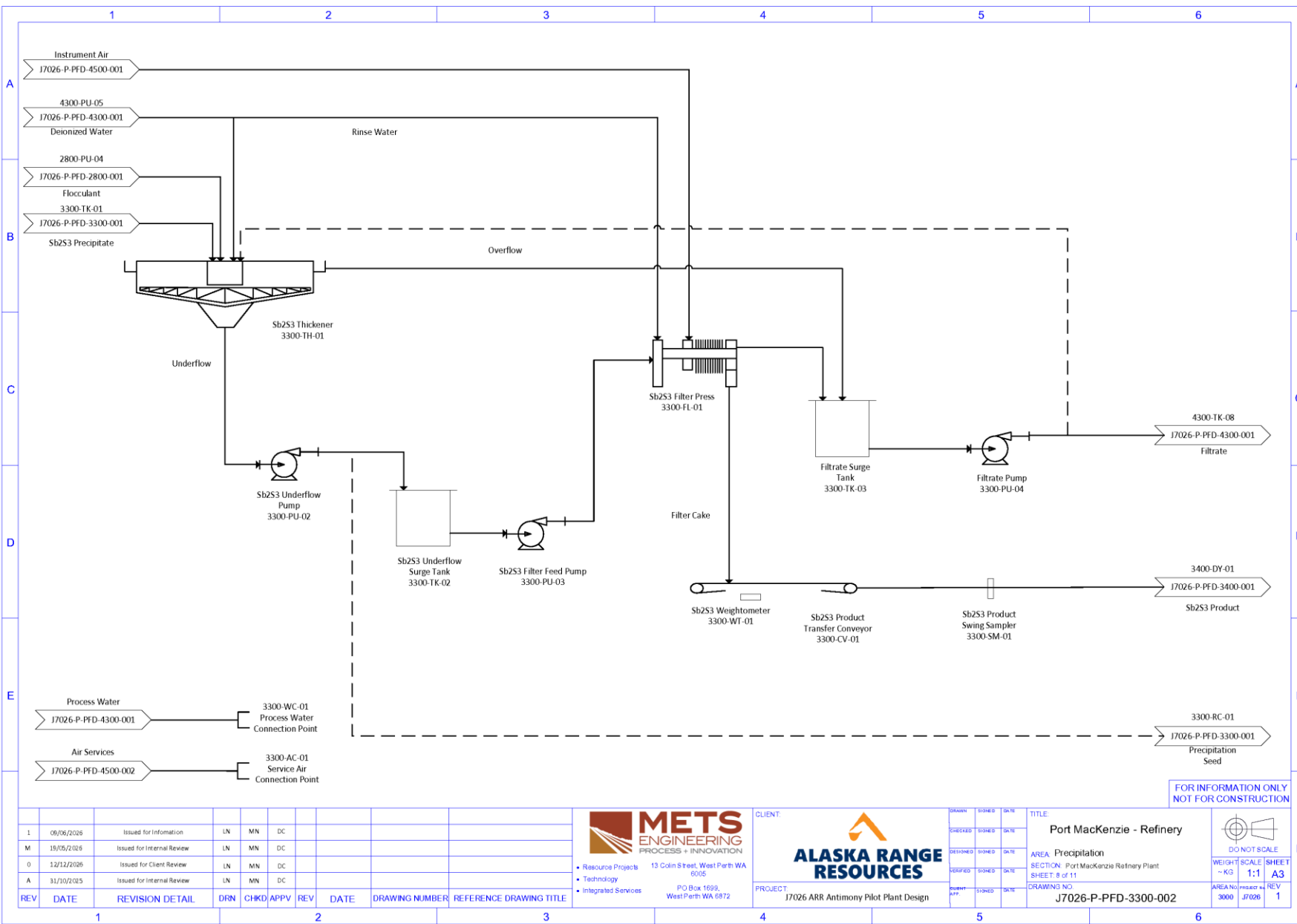
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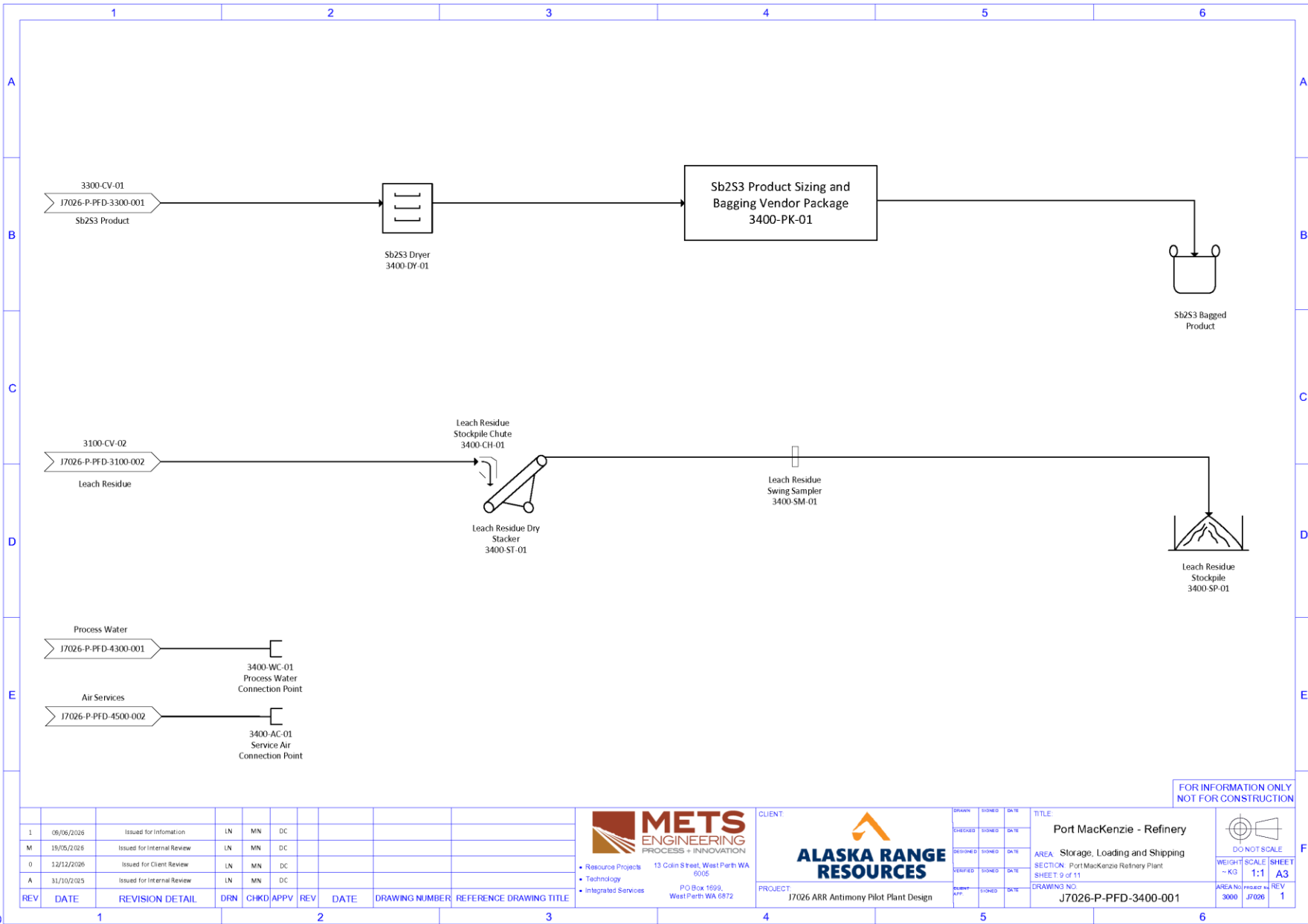
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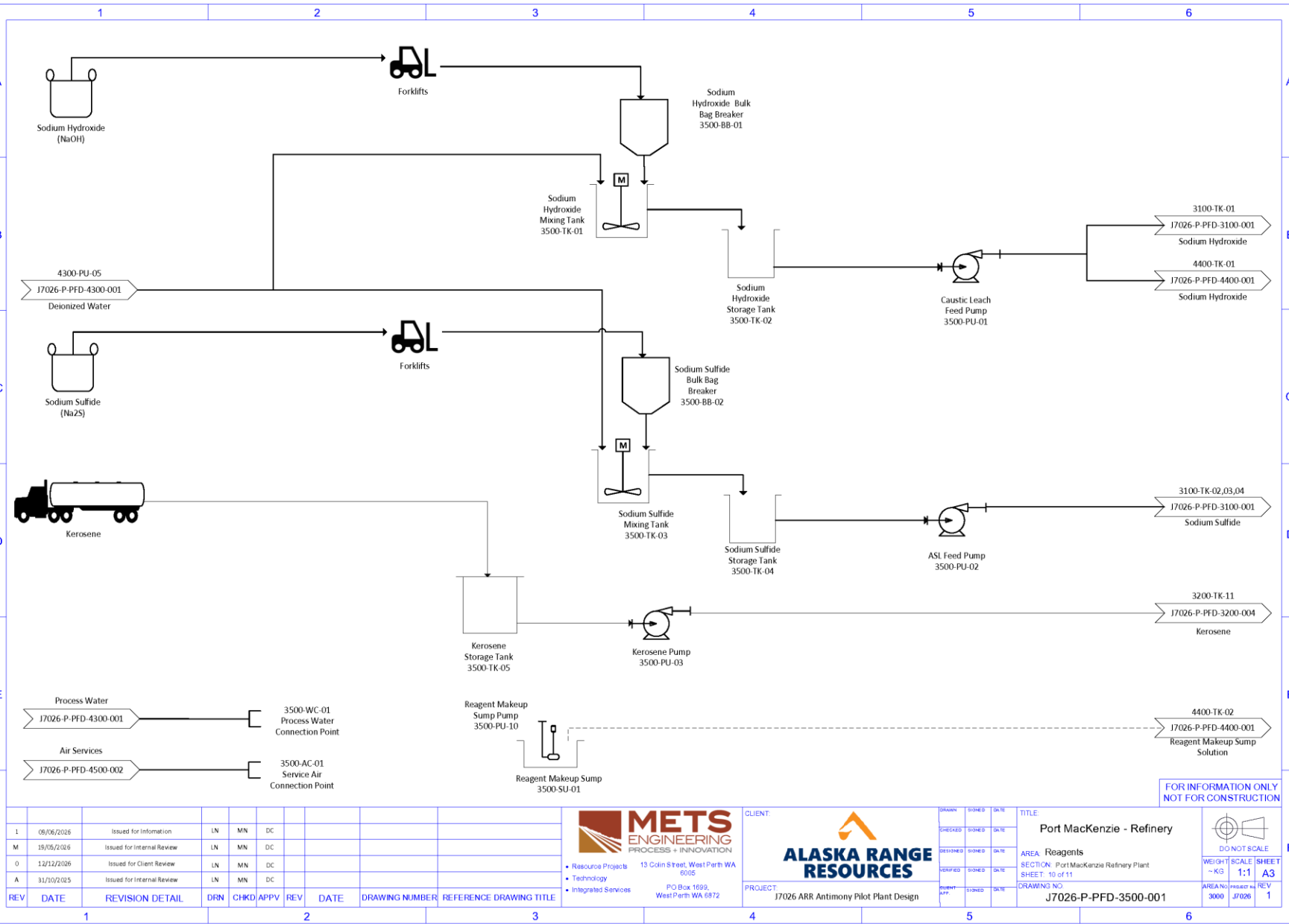
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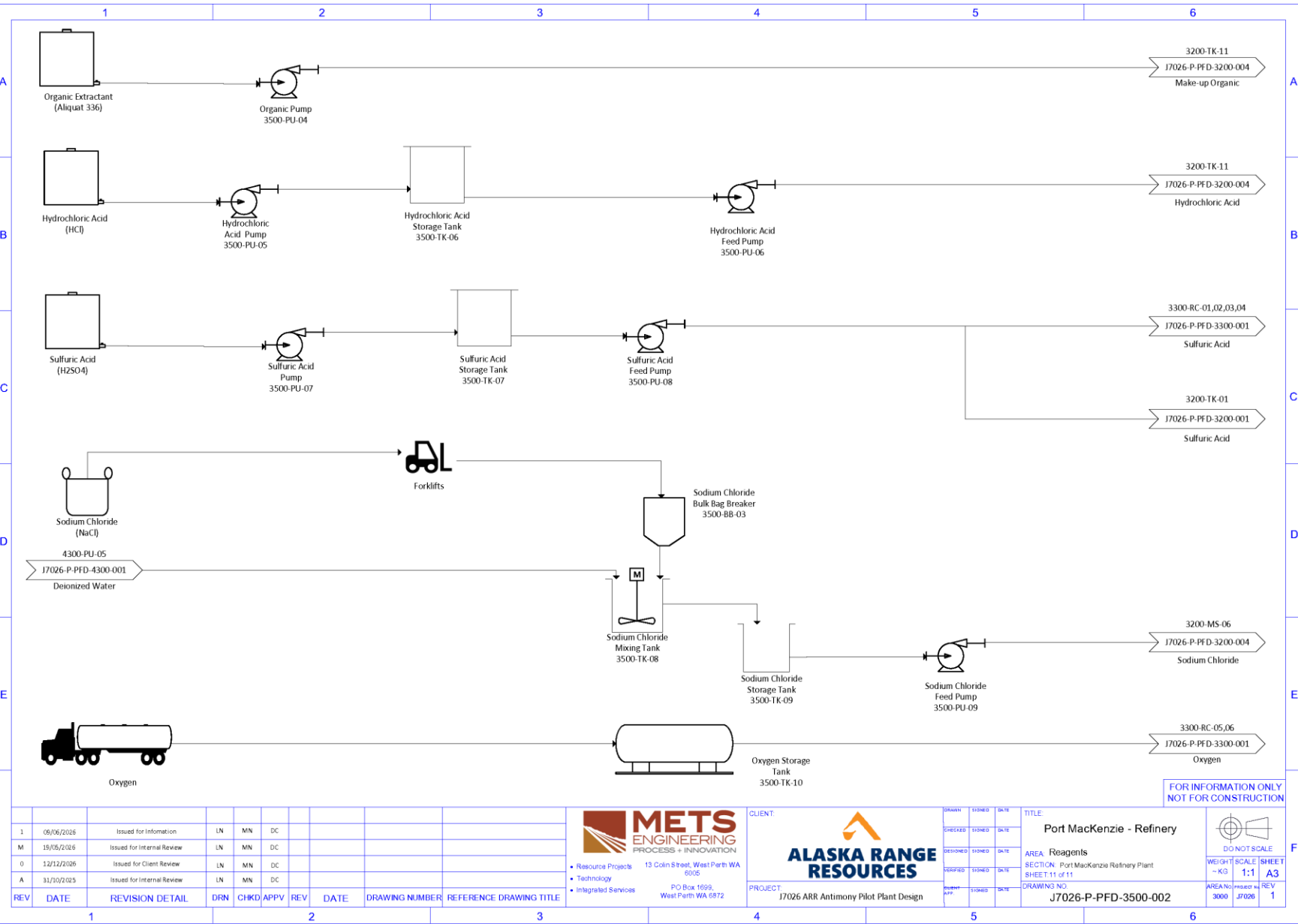
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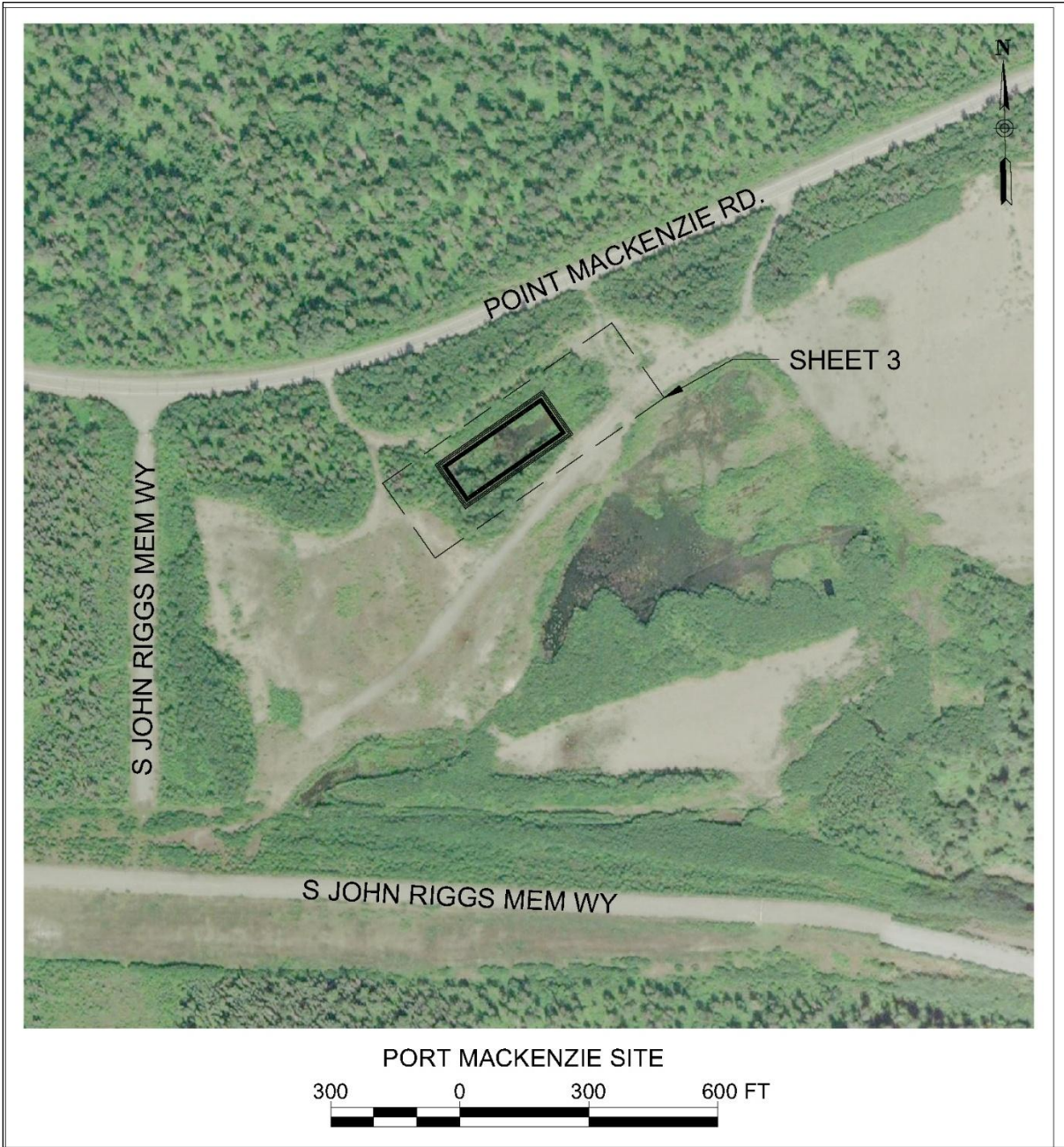
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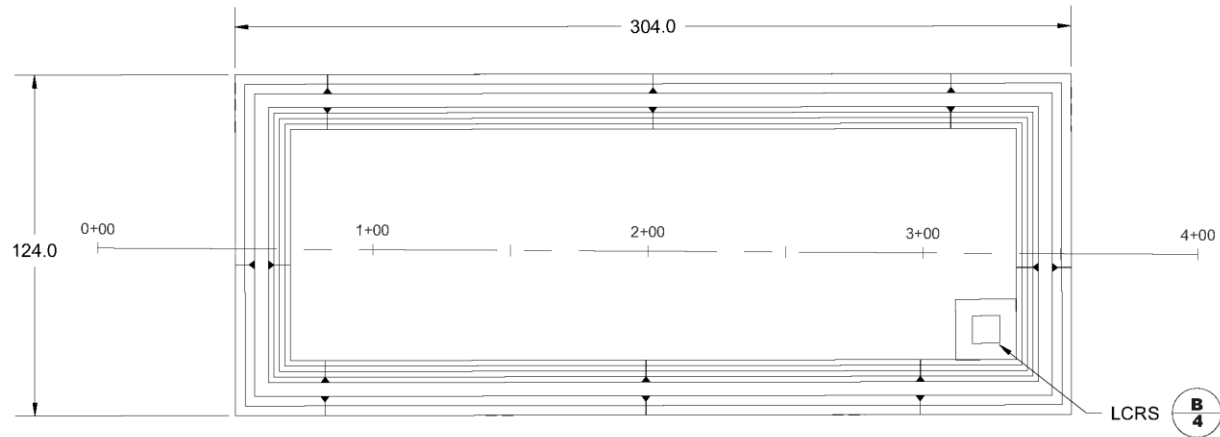
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APPENDIX F – PMK DISPOSAL FACILITY

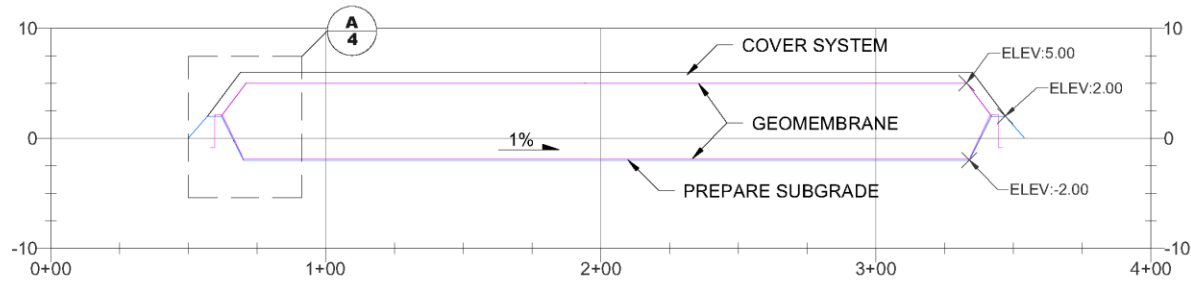
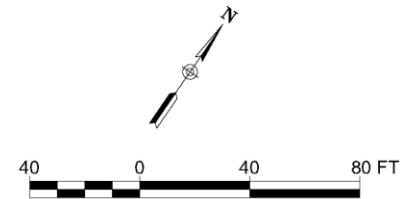


Port MacKenzie – Proposed Disposal Facility Location



PLAN VIEW

SCALE: 1" = 40'



PROFILE VIEW

VERTICAL EXAGGERATION = 4

NOTE:

THE PORT MACKENZIE TAILINGS DISPOSAL FACILITY IS DESIGNED WITH A TOTAL CAPACITY OF 6,450 CUBIC YARDS.

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHKD

NO	DATE	DESCRIPTION	BY	CHKD	REAL



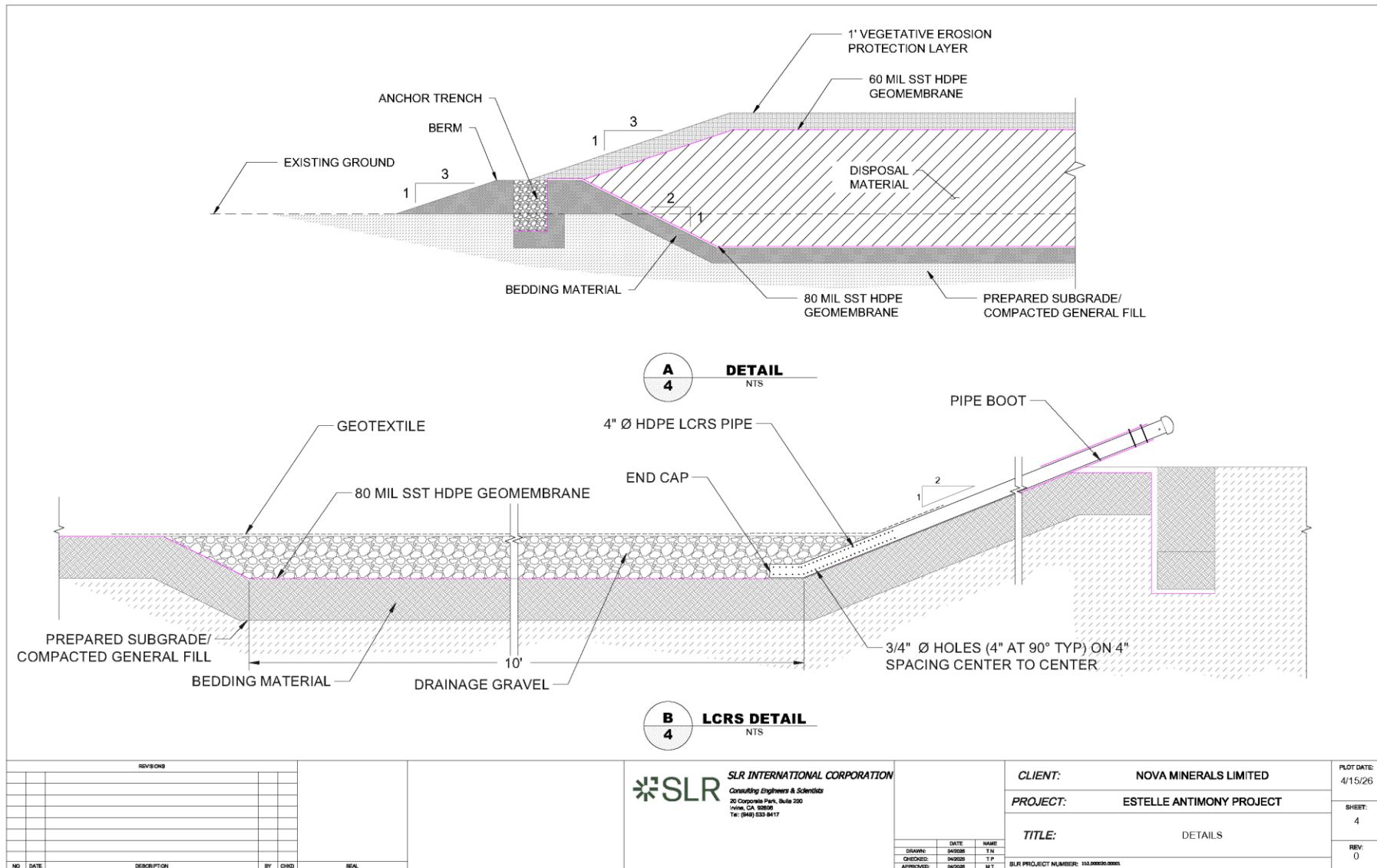
SLR INTERNATIONAL CORPORATION
Consulting Engineers & Scientists
20 Corporate Park, Suite 200
Irvine, CA 92614
Tel: (949) 533-9417

DATE	NAME
DRAWN: DAC/08	T.N.
CHECKED: DAC/08	T.P.
APPROVED: DAC/08	M.T.

CLIENT: NOVA MINERALS LIMITED
PROJECT: ESTELLE ANTIMONY PROJECT
TITLE: PORT MACKENZIE - CONCEPTUAL TAILINGS DISPOSAL FACILITY

SLR PROJECT NUMBER: 103.000000.0000

PLOT DATE:	4/15/26
SHEET:	3
REV:	0



APPENDIX G – RECLAMATION COST ESTIMATE

Port MacKenzie Plant Decommissioning	Notes	UNITS	\$/DAY	DAYS	\$/UNITS
Mill Building (65x250)	\$6-\$12/square foot demo cost. 14 Days. Includes haul off	16250	\$11,607	14	\$195,000
Overhead crane & supports	Supports, Rails, Bridge, & Trolley	4	\$10,800	2	\$21,600
MCC's and Electrical Gear	Disconnect, drag to salvage	4	\$5,113	1	\$5,113
Primary Crusher/Hopper/Loading Ramp	Torch cut, crane removal. Dirt work. Scrap	3	\$10,800	1	\$10,800
Super sack unloader	Un-hook, crane away. Salvage	1	\$9,532	0.25	\$2,383
Apron Feeder	Torch cut, crane removal. Salvage	1	\$10,800	0.5	\$5,400
Primary Crusher/Steel/Foundations	Torch cut, crane to scrap iron pile	1	\$10,800	1	\$10,800
Conveyor To Screener #1	Disassemble, crane to salvage	1	\$9,532	0.25	\$2,383
Screener #1	Disassemble, crane to salvage	1	\$9,532	0.5	\$4,766
Screener #2	Disassemble, crane to salvage	1	\$9,532	0.5	\$4,766
Ore Sorter & Associated Steel Work	Disassemble, torch cut frame, crane to salvage	1	\$10,800	1	\$10,800
Air Compressor, pressure tanks, dryer	Disconnect, disassemble, forklift to salvage	1	\$5,113	0.5	\$2,556
Conveyors (8)	Disassemble, crane to salvage	8	\$9,532	1	\$9,532
Regrind Mill	Disassemble, crane to salvage	1	\$10,800	1.5	\$16,200
Pump Banks	Disassemble, forklift to salvage or scrap	2	\$5,113	1	\$5,113
Primary (rougher) Floatation	Disassemble, crane to salvage or scrap	8	\$9,532	2	\$19,064
Secondary (cleaner) Floatation	Disassemble, crane to salvage or scrap	8	\$9,532	2	\$19,064
Filter press	Disassemble, crane to salvage	1	\$9,228	0.5	\$4,614
Horizontal belt filter	Disassemble, crane to salvage	1	\$9,228	0.5	\$4,614
Reject stacker conveyor	Disassemble, crane to salvage	1	\$9,228	0.25	\$2,307
Reject stockpile disposal	Move remaining reject to existing lined stockpile	1	\$11,764	0.5	\$5,882
Reject stockpile disposal	Install liner (\$25,000), top with topsoil, contour	1	\$11,764	4	\$36,764
Revegetation	Reseed and final walk through	1	\$9,307	2	\$18,613
	Subtotal				\$418,131
Contingency (Scope)	6% of subtotal				\$25,088
Contingency (Bid)	10% of subtotal				\$41,813
Contractor profit	10% of subtotal				\$41,813
Performance/Payment Bonds	3% of subtotal				\$12,544
Liability insurance	1.5% of labor				\$1,565
Contract Admin	2% of subtotal				\$8,363
Engineering/Redesign	3% of subtotal				\$12,544
Total PMK Reclamation				37.75	\$561,860

Tear-down crew (5) cost per day, wages, per diem, overhead, travel	\$6,077	\$30,385		Class	Persons	Wage/hr	Work hr	Per Diem	Total
3 ea, S1201 @77.61/hr, 2 ea, A1601 @86.45/hr				S1201	3	\$77.61	10	\$404	\$3,540
Small Tear-Down Crew (4) cost per day	\$4,809	\$62,517		A1601	2	86.45	10	404	\$2,537
3 ea, S1201 @77.61/hr, 1 ea, A1601 @86.45/hr									
Excavation/Dirt Work Crew (3) cost per day	\$3,806	\$11,418							\$6,077
3 ea, A1601 @86.45/hr, cost per day									
100 Ton RT Crane--Anchorage \$450/hr. 8 hour day	\$4,010								
Daily Rental rate 740 Truck & 336 Cat Excavator	\$4,784								
Daily rental rate 14M Grader	\$2,150								
Fuel--100 Ton RT Crane/8 hour day (5 gph)	\$409.60								
Fuel--740 Truck & 336 Excavator / 8 hour day (6gph + 8 gph)	\$716.80								
Fuel--14M Grader / 8 hour day (6 gph)	\$307.20								
Fuel & Rent--Small forklifts & trucks / hour day (3 gph)	\$303.60								
Fuel Cost/gallon	\$6.40								