

State of Alaska Department of Environmental Conservation Village Safe Water Program

555 Cordova Street Anchorage, AK 99501 <u>evan.patterson@alaska.gov</u>

July 7, 2023

- To: Vendor List
- Re: Amendment 3 ITB 23-VSW-TLT-023 Tuluksak Water Treatment Plant / Washeteria Project ITB Due Date: July 18, 2023 @ 2:00 PM AST

The following changes are required:

1. The ITB due date is extended from July 11, 2023 to July 18, 2023 @ 2:00 PM AST.

The following are vendor questions and the department's response:

1. Vendor: E103,E501- Were the lift station intermediate junction box enclosures supplied and installed by the fabrication contractor? Same question for the conduit and raceway between the LSCP and intermediate jboxes for power and controls, respectively.

Department: The junction boxes, conduit and conductors from the LSCP panel to the lift station shall be supplied and installed by the installing contractor.

2. Vendor: Please confirm that installation of exterior light is part of the installing contractor's work.

Department: The fabricator contractor has procured the exterior lights and completed the rough-in at the locations shown on drawing E105. The light fixtures will be shipped loose with the modules, and the installing contractor shall be responsible for installing the lights after installing the wall

siding. The same applies to the building alarm/strobe and OATs 801 and 851 shown on drawing E104.

3. Vendor: Please confirm that all lift station cabling and wiring from the lift station intermediate jboxes to the lift station pumps and probes has been procured by the fabricating contractor and will be made available to the installing contractor.

Department: Installing contractor shall install LSCP and procure and install all conduit, junction boxes, conductors, cables, and equipment (pumps, probes, etc.) beyond the LSCP.

4. Vendor: Is branch power for all fabricator contractor supplied control panels already in place, in vicinity of the respective panels and their locations?

Department: Yes, for panels BAP, FGHCTP and DSCP. These panels will be installed and tested prior to shipment of the modules. The installing contractor shall be responsible for reconnecting the control wiring, if any, between the modules, and procuring and installing the conduit and conductors for the BAP alarm signals. The building low temp alarm, boiler control alarm, and the fuel day tank alarm signals will be completed by the fabricator contractor prior to shipment of the modules.

No, for panels FSCP, WP/WSTCP, PPCP, WGHCTP, LSCP and FSCP. Panel FSCP will be mounted to the Package WTP and shipped separately from the modules. The other panels will be shipped loose with the modules.

5. Vendor: E103 Note 12- Are the 4x4 aluminum boxes and branch wiring already in place as called out in the note?

Department: Yes, the 4x4 boxes and wiring are already installed. Installing contractor shall provide and install LFMC for connection between 4x4 boxes and piping, heat trace and heat trace end kits.

6. Vendor: How many conduits/ wire splices between modules are required for reinstall once modules are set and in place?

Department: No splices or conduit are required. Fabricator contractor to provide flex for connections between modules and coil up and identify the feeder conductors to be installed by installing contractor after the modules are assembled in the field. See General Electrical Note 3 on drawing E103 and E104 and Sheet Note 3 on drawing E105.

7. Vendor: Will there be lift pockets in order to move the modules?

Department: Fork pockets, if needed, are the responsibility of the installing contractor. Refer to ITB Section 00020, Scope of Work (Scope of Work), item 6.

8. Vendor: Is there a local resource we can communicate with?

Department: Yes, see ITB Section 00020, Notice To Bidders, item 6. Both contacts are employees of the Tuluksak Native Community and live in Tuluksak. However, neither have detailed knowledge about this ITB or the project.

9. Vendor: Water main connecting to 4 buildings and 2 hydrants. School as well?

Department: Yes, see drawings CW404 and CW521 for the school water main extension and connection details.

10. Vendor: Landfill: Will the local landfill be available for construction materials? How much? And what are possible fees?

Department: Yes, the Tuluksak Dump Road Landfill is a Class III Community Municipal Solid Waste Landfill and is authorized to accept construction and demolition debris. A copy of the permit is included with this amendment. The landfill is owned and operated by the Tuluksak Native Community and the disposal fees for a construction project are \$500/month and \$250/truck load. The monthly fee is only due during periods of active construction, not winter shutdown. The meaning of "truck load" is a full 10 cubic yard dump truck or part thereof.

11. Vendor: Can the modules be released earlier then the date provided?

Department: Yes, the modules can be released when completed if they are insured under the installing contractor's Builders Risk insurance policy. Refer to ITB Scope of Work, item 3 for the anticipated completion date.

12. Vendor: Ice Road: Is this road available every winter? Can this road handle heavy equipment?

Department: No; and generally, not. Contact Mark Leary, director of operations for the Native Village of Napaimute, for further information (907) 543-2887.

13. Vendor: Wells: How many wells are currently in service? Are the other wells available to be used if necessary?

Department: Well #1 (2005N) is the only well in use. The other wells shown on drawing G101 were drilled but not completed and their condition is unknown. The two "2003 wells" are located on land owned by the local corporation, Tulkisarmute Inc. Access to those wells would need to be coordinated with Agatha Fly, General Manager for the Corporation, (907) 695-6457.

14. Vendor: Please provide specifications for the Solar Panels required for this project. Include all items required for complete assembly.

Department: The solar panels are specified on drawing E002. The panels shall be installed as shown on drawing E107 and attached to the roof with clips/brackets approved by the roof panel and solar panel manufacturers and meet the wind design criteria listed on drawing S001.

15. Vendor: Will any fire detection systems be required as this is not called out in specifications?

Department: No fire detection systems are required.

16. Vendor: Will the WTP be fully installed in the pre-fabricated modular structures. What will come loos if not fully installed?

Department: Assembly of the packaged WTP and associated water treatment equipment is the responsibility of the installing contractor. Refer to ITB Scope of Work, items 4, 13 and 14 and the revised WTP submittal package included with this Amendment.

17. Vendor: As the Modular structures and all components of these structures are purchased and installed by others how is contractor to Warranty and Guaranty what someone else purchased and assembled, and provide start up and maintenance when purchase was by others? Please define or provide information.

Department: The installing contractor will not be responsible for the warranties and guaranties on the equipment installed by the fabricator contractor or department provided materials. The installing contractor shall be responsible for startup, testing and calibration of the completed project. Refer to ITB Scope of Work, items 5, 16, 17, and 18.

18. Vendor: What is the total cost of all supplied items by owner?

Department: \$2.9 million.

19. Vendor: As schedule if very tight to accomplish the finial completion date of project can this be pushed out if possible or is there something driving this completion date?

Department: The schedule is being driven by the need to replace the emergency/temporary WTP and water line to the school as soon as possible. These systems were only intended to operate for one to two years and are heading into their third winter. Last winter the water line failed, and the school and teacher housing were without water from February 2022 to late June 2023.

20. Vendor: Is there a estimated cost budget available for this project?

Department: As shown in the ITB, the Engineer's estimate is \$5 to \$10 million.

21. Vendor: Bid Item "D" Demolition: drawing C104 show the existing equipment on site to be moved / relocated. Is the loader available for contractors use?

Department: The loader could be available for use, but it will require some repairs and a rental agreement would need to be negotiated with the Tuluksak Native Community.

22. Vendor: Bid Item "D" Demolition: drawing C104 show the existing equipment on site to be moved / relocated. Is equipment fixable for use if contractor was to fix if needed and use. Would equipment be available for rent or use by contractor if contractor fixes? This is asked as there is a couple large pieces of equipment that would need large equipment to move unless it can be fixed and runnable.

Department: The condition of the equipment is unknown, and except for the loader, the equipment hasn't been run for a few years. All of them were parked in their current position at the end of the last project. The fuse box and some of the controls in the cab of the Hitachi excavator have been vandalized since it was parked. The Tuluksak Native Community is interested in getting the equipment operational and is open to an agreement for repairs in leu of rent or a portion thereof.

23. Vendor: Bid Item "D" Demolition: where is the new location for the materials / equipment to be moved / relocated to? Will contractor need to provide shelter or cover for any of this equipment and or materials? If so to what extent?

Department: The materials and equipment shall be moved approximately 900 ft to the northwest side of the community lagoon road near a group of old shipping containers. The containers are visible in the bottom left corner of drawing sheet G101. No shelter or cover for the materials and equipment is required.

24. Vendor: Bid Item "D" Demolition: drawing C102 shows to demo existing fence. Will this fence need to be reinstalled where equipment and materials are to be moved to?

Department: No.

25. Vendor: Is any of the HDPE piping shown in drawing C104 for use on this project? Is there fittings available? Is there a quantity take-off of what is there if for use on this project?

Department: No, the pipe and fittings at the project site belong to a different project. If there is a temporary need for some of the piping, that may be a possibility, but all permanent pipes and fittings for the proposed project shall be new.

26. Vendor: Cathodic Protection comments from "Norton Corrosion Limited": "With this being a bolted steel tank construction, I think we are going to have to pass on providing a cathodic protection (CP) bid. In order for the CP system to be effective, all metallic components of the tank interior need to be electrical continuous. With bolted steel (in lieu of a welded steel construction), this is extremely to do. And to verify that all tank metal panels are electrical continuous can be very expensive".

Department: Please delete specification section 43 41 12 – Water Tank Cathodic Protection in entirety, and ignore any references to cathodic protection in specification section 43 41 11 – Insulated Bolted Steel Water Storage Tank.

27. Vendor: The scope of work indicates the department provided WTP/W modules and the water treatment equipment will be delivered to the Port of Anchorage on or about April 20, 2024. Could the modules be delivered to the Port of Seward versus Anchorage, and could they be delivered earlier than April 20th.

Department: Per the Scope of Work, the modules will be delivered to the Port of Anchorage on or about April 20, 2024. The department is not opposed to them being delivered elsewhere or earlier, but all coordination and costs to do so will be the responsibility of the installing contractor and will require prior approval from the department. See below department clarification #2.

28. Vendor: Will the fabricator contractor also provide the flashing associated with the siding?

Department: Yes, see siding submittal attached to this amendment.

29. Vendor: On the 'CW' Drawing Sheets it appears there is a man-camp in Tuluksak. Will we be able to use the man-camp for the construction effort? Will there be a charge for use of the camp?

Department: The man-camp will be available for up to three weeks at the start of the project while the installing contractor is assembling its man-camp or establishing other housing in Tuluksak. The camp includes six bedrooms of which up to five will be available. The cost for the camp is \$100 per person per day payable to the Tuluksak Native Community.

30. Vendor: Has a location been identified for the staging of materials and installation of a construction camp?

Department: An area hasn't been dedicated for this purpose, but the entire Utility Core Site (Item H on drawing G101) is available, and the large gravel pad immediately northwest of the Utility Core Site is another possibility. The gravel pad is owned by the local corporation, Tulkisarmute Inc. and is available for lease at a rate of \$0.50/square foot/month. Please contact Agatha Fly, General Manager for the Corporation, (907) 695-6457 for additional information. Included with this addendum is a land status map of the community for reference.

31. Vendor: Is there a gravel source in the community?

Department: No, all gravel required for the project will need to be imported. The only borrow material available is sand which varies from a fine-grained silty sand (SM) to a medium grained poorly graded sand (SP). The same sand was used to build the berms for the new community lagoon and the pad for the proposed WTP/W building. The borrow site for those projects was east of the landfill in an area referred to as "Tuluksak-A" (see Exhibit A included with this Amendment). The three test pits closest to the borrow site (LF-1, 2 and 3) are shown on drawing B001, and the test pit logs for LF-2 and 3 are shown on drawing B004. Tulkisarmute Inc. has a Material Sales Agreement with Calista Corporation for the borrow site and charges \$20/cubic yard for material excavated from the pit.

32. Vendor: Is there any heavy equipment available for rent in the community?

Department: Yes, the Tuluksak Native Community recently purchased a used Hitachi EX200 excavator. The machine is reportedly in fair condition. The dry rental rate for the excavator is \$12,000/month, \$4,000/week, and \$1,000/day. See above response to questions 21 and 22 regarding the heavy equipment at the project site.

33. Vendor: Man-Camp: Project doc's call out and show an existing man-camp and Bid item (A) calls out construction of camp housing to be included in this bid item. Is the existing man camp available to the contractor and what is the capacity and rates? If not is there a site near the project location available for setting up a man-camp? Will there be a rental rate on this site?

Department: See above question and response #29.

34. Vendor: Project Site Lay Out Area: Will there be a lay out area available near the project site?

Department: See above question and response #30.

35. Vendor: Modules: What materials will the contractor need to supply to finish these modules? Such as electrical wire, roof trusses, Roofing material?

Department: Modules 1, 2 and 3 will be finished except for the roof (ITB Scope of Work, item 7), siding (ITB Scope of Work, item 8), exterior lighting (See above question and response for #2), interior finishes at the marriage joints (materials to be provided by the fabricator contractor), and any conductors, piping and plumbing between the modules which will be removed prior to shipment and will need to be reinstalled by the installing contractor. Modules 4 and 5 will be similarly finished except the water treatment systems (ITB Scope of Work, item 13), process systems (ITB Scope of Work, item 14) and control panels (ITB Scope of Work, item 15) will need to be installed by the installing contractors limit of work for the top of the modules is the double 2x4 nailer on top of the ceiling structure as shown drawing S301, detail 5 on S502, and the Tuluksak Washeteria Shop Fabrication Plans provided with the ITB.

36. Vendor: Owner Provided materials: Existing insulated arctic piping shown in drawings/prepurchased, are all the arctic pipe materials available to complete this project? Or will contractor be required to provide arctic piping, fittings and insulation joints?

Department: See amendment 1 question and response #1 and below question and response #37.

37. Vendor: Owner provided Materials: What is the total cost for owner provided materials? Is there an inventory?

Department: See above #18. ITB Scope of Work, item 3 (five WTP/W modules) and item 4 (water treatment equipment) are the only owner provided materials. All other materials shall be purchased and installed by the installing contractor.

38. Vendor: Owner Provided Materials: Of the materials that are already in the village, what is the contractors responsibility for lost/stolen or damaged/weather damaged materials?

Department: There are no department provided materials currently at the project site.

39. Vendor: Owner Provided Materials: Is there a list or inventory on what still needs to be shipped to the village by the contractor? Are weights included? Do these have to be FOB anchorage?

Department: See above question and responses. Yes, department provided materials will be at the Port of Anchorage. See below department clarification #3 for the Water treatment equipment weight and dimensions. See ITB Scope of Work, item 3 for the WTP/W modules weight and dimensions.

40. Vendor: Equipment on Site: Drawings show pictures of equipment DR. C104. Is this for contractors use? Is there a charge/rental fee for this? Is the equipment in satisfactory condition and useable? Or is contractor required to bring in all equipment required for this project? Please define.

Department: See above question and response #32. The installing contractor shall be responsible for all equipment required for this project.

41. Vendor: Is there any useable backfill materials locally for this project or will contractor need to import all materials?

Department: See above question and response #31.

42. Vendor: Scope Of Work, # 2 The department has procured materials for this project that the contractor shall use. These materials will be at the Port of Anchorage, 2000 Anchorage Port Road, Alaska 99501 (Port of Anchorage). The contractor shall be responsible for insuring and transporting these materials to the F.O.B. Final Destination (project site).

(Q) Is all materials purchased for this project? This is only asked as most items on the SOW list calls out "Installation" and not "Supply and Install"? Are there any other Items being supplied per SOW #2 or just what is called out as being supplied per SOW by others. Just asking are we missing something as we take it we are to supply and install pre items not called out as being supplied.

Department: See above question and response #37.

43. Vendor: Project Bid Schedule Item (L) calls out a 100,000 gal. water tank. Specifications 43 41 11, 3.1, A - calls out a 65,000 gal. tank. Site Drawings and other Drawings call out a 100,000 gal. tank, The Scope of Work does not call out the water tank. And if you do the math per drawing "CW510" Details 1 & 3 calling out the tank to be 24' high and 26' 9" wide = 100,000 gal. Please provide how many gallons is required for this tank and what to use to design.

Department: The tank size shall be a nominal 100,000-gallons. The tank was upsized during the design and the specification wasn't updated. The ITB Scope of Work, item 1 specifies a 100,000-gallon water storage tank.

The following are department provided clarifications:

- 1. TecPro Solutions of Wasilla, Alaska is designing and fabricating the control panels. They are a UL 508 certified industrial control panel fabricator, and offer simulation and acceptance testing, installation, commissioning, site acceptance testing and startup.
- 2. The modules will be completed by NANA Construction (fabrication contractor) in August/September 2023 and the water treatment equipment should be ready for shipment in October/November 2023. The department is not opposed to the installing contractor constructing some or all the process systems prior to shipment to Tuluksak if the work occurs in a controlled environment and the modules are protected from the weather. All coordination and costs associated with performing the work at NANA Construction's Big Lake, AK facility or having the modules delivered to a location other than the Port of Anchorage shall be the responsibility of the installing contractor and will require prior approval from the department. If the department agrees to a location other than the Port of Anchorage the contractor shall be responsible for insuring the modules to the new agreed upon location.
- 3. The department provided water treatment equipment, will not be containerized. The Water Boy Treatment unit will be covered with plastic shrink wrap, measure approximately 11'long x 8'W x 8'H, and weigh about 6,000 pounds. The other equipment (tanks, valves, pumps, chemical equipment, filter media, etc.) will be shipped on pallets or in crates.
- 4. Drawings E012, E106 and E602 have been revised. Bidders shall replace the current drawings with the attached revised drawings.
- 5. During the bidding process for ITB 23-VSW-TLT-005 Tuluksak Water Treatment Plant/Washeteria Building Modules the department issued Amendment 4 and the following was vendor question and department response #7:

Vendor: For the lift station, Drawing CS501 shows concrete to be poured inside the fiberglass basin to build a base and fillet. Would it be acceptable to use a standard basin with built in fiberglass fillet around the bottom? We would adhere a steel plate to the fiberglass floor to mount the discharge elbows to.

Department: Yes, a basin with built in fiberglass fillet and steel mounting plate, would be acceptable provided the weight of the concrete is replaced with an alternative anchoring system with the same or greater buoyancy uplift resistance. However, please note that the lift station is not a part of this ITB. It is the responsibility of the Installing contractor, not the Fabricator contractor.

The following documents are attached to the amendment and made part of the ITB:

- 1. Landfill permit
- 2. Package WTP Submittal-Rev A. Bidders must request this attachment from the procurement officer. Attachment will be sent via ZendTo.
- 3. Siding submittal
- 4. Land status map
- 5. Exhibit A -Sand borrow pit map
- 6. Drawings E012-R2, E106-R2, and E602 R1

Evan Patterson

Evan Patterson

Procurement Specialist

STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION 555 Cordova Street Anchorage, AK 99501

SOLID WASTE DISPOSAL PERMIT

Permit No. SW3A176-27

Date Effective: April 6, 2022

Date Expires: April 6, 2027

The Alaska Department of Environmental Conservation (ADEC), under authority of Title 46 of the Alaska Statutes and Title 18 Chapter 60 of the Alaska Administrative Code (18 AAC 60), issues a solid waste disposal permit to:

Tuluksak Native Community Tuluksak Dump Road Landfill PO Box 95 Tuluksak, Alaska 99679

and designated representatives for the operation and maintenance of a Class III Community Municipal Solid Waste Landfill. This landfill is authorized to accept municipal waste, ash, and construction and demolition debris. In addition, septage may be accepted in the designated septage pit. This permit is subject to the conditions listed below.

The landfill is located at latitude 61.092542, longitude -160.957018 in Tuluksak, Alaska, approximately 5,100 feet west of the Tuluksak Airport.

The permit holder shall manage and operate the facility in accordance with:

- The Alaska Solid Waste Regulations 18 AAC 60;
- ADEC Class III Landfill Permit Renewal Application, dated March 1, 2022, and,
- Tuluksak Class III Landfill Operations Plan, dated December 6, 2016.

In addition, the following conditions are required:

Specific Conditions:

- 1. Maintain clearly legible signs at the entrance to the landfill with the name of the landfill, landfill owner and operator, landfill hours, prohibited wastes, and emergency contact information.
- 2. Prohibit disposal of medical waste, asbestos containing materials, used oil, oily waste, polluted soil, hazardous waste, lead-acid batteries, polychlorinated biphenyls (PCBs), and bulk liquids (greater than 1 gallon).
- 3. Separate special wastes such as electronics, lead acid batteries, fluorescent bulbs from normal household waste and store them in an enclosed area so that they will not be damaged. When possible, transport these wastes out of the community to proper recycling/disposal facilities.
- 4. Remove household hazardous waste, ammunition, gas canisters, large metals, large plastic or rubber items, and any other materials that might cause a hazard or black smoke, prior to lighting the burn box.

- 5. Any burning of solid waste at the landfill in the designated burn area must be conducted as follows:
 - a. Prevent Landfill Fires and Wildfires
 - i. PROHIBIT BURNING OF WASTE ON THE GROUND or at the working face.
 - ii. The permit holder is responsible for any fire that escapes the landfill perimeter and may be subject to associated penalties.
 - iii. No burning may be conducted during any statewide or local burn ban without approval from the Department of Natural Resources (forestry.alaska.gov) Southwest Area office – (907-524-3010).
 - iv. Clear brush, dead trees and dead vegetation within a 50-foot boundary surrounding the landfill.
 - v. Maintain a firebreak 10 feet wide down to mineral soil around the burn unit and any staging area for hot ash.
 - b. Operate all burn units in accordance with 18 AAC 50.065 Air Quality Control.
 - c. Operations
 - i. Contain and control any burning of waste All burning must be conducted in the constructed burn unit.
 - ii. Only the operator (or designee) may ignite a fire at the landfill.
 - iii. The operator (or designee) must be present AT ALL TIMES during any burning, from ignition through the end of the burn.
 - iv. Fire suppression equipment must be available at the landfill (or burning area) during any burn.
 - v. Only burn during favorable weather conditions with wind blowing away from the community. Do not burn in high winds that may blow ash or embers beyond the firebreak.
 - vi. Do not allow waste to smolder or create black smoke.
 - vii. Ensure that ash is completely cool before placing ash at the working face.
 - d. Separate Waste Prior to Burning
 - i. DO NOT BURN HOUSEHOLD HAZARDOUS WASTE, or other items that may create chemical hazards or do not readily burn.
 - ii. Separate waste that should not be burned to the greatest extent practical before igniting the burn; dispose of non-burnable waste directly at the working face.
 - e. Waste Storage
 - i. Stage waste that is intended to be burned either in the inactive burn unit or at a location at least 25 feet from the burn unit.
 - ii. Ensure that waste is kept as dry as possible through the use of a cover or dry storage facility.

- 6. Maintain a designated working face (dumping area) at the landfill. Consolidate and compact waste regularly to keep the working face manageable and reduce infiltration of water.
- 7. Cover waste with a minimum of 6-inches of soil at regular intervals as needed to control attraction of wild and domestic animals, windblown litter, fire, and odor. Cover any areas that do not receive waste for 90 days with at least 12 inches of soil material. Grade cover to prevent water from ponding.
- 8. Pick up litter or improperly disposed waste in and around the facility in a timely manner and place it into the active cell.
- 9. Do not dispose of waste in water. Remove any waste that is disposed in water and place it at the working face, or an appropriate dry area. Work to grade the surfaces of the landfill so water does not create ponds.
- 10. All snow must be removed from the disposal area before the spring thaw. Snow removed from the disposal area must be stored in an area that will prevent the melting snow from coming in contact with waste. Litter that remains after the snow melts must be picked up and properly disposed.
- 11. Septage or honey bucket waste may be placed in the permitted septage pit ONLY. Lime must be added, at a rate of approximately 25 pounds per 1000 gallons of septage, so a pH of 12 is maintained for at least 30 minutes.
- 12. Maintain a designated area for disposal of animal carcasses. Dust carcasses with lime and cover, by the end of the day, with a minimum of 6-inches of soil to prevent attracting pets and wildlife.
- 13. Keep the designated salvage area orderly and prohibit any salvaging within the active cell. Materials in the salvage area that do not have any further salvage or recycle value should be placed at the working face and buried.
- 14. Remove refrigerant from vehicles, refrigerators, freezers and any other refrigerant-containing units prior to disposal or ship the items out of the community for proper disposal. Only a certified technician may remove refrigerants.
- 15. Complete a visual inspection of the landfill each month. Complete the Tuluksak Dump Road Landfill Visual Monitoring Form checklist in Appendix A of the permit and retain the completed reports in the landfill operation record for at least 5 years.
- 16. Maintain a landfill operation record at the Tuluksak Native Community office containing the ADEC permit application, current ADEC solid waste disposal permit, operator training records, previous inspection reports, current operations plan, monthly visual monitoring records, and asbuilt drawings.
- 17. Encourage landfill operators and pertinent staff to attend solid waste trainings such as Rural Alaska Landfill Operator (RALO) or ADEC Solid Waste Boot Camp to ensure best management practices.
- 18. The permit application materials cited above must accompany this permit document for the landfill permit to be valid.

General Conditions:

- 1. Access and inspection The Permittee shall allow the Commissioner or his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, State laws, and regulations.
- 2. Information access Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska, Department of Environmental Conservation, 555 Cordova Street, Anchorage, AK 99501.
- 3. Civil and criminal liability Nothing in this permit shall relieve the Permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.
- 4. Availability The Permittee shall post or maintain a copy of this permit available to the public at the disposal facility.
- 5. Adverse impact The Permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The Permittee shall clean up and restore all areas adversely impacted by the noncompliance.
- 6. Cultural or paleontological resources Should cultural or paleontological resources be discovered as a result of this activity, work which would disturb such resources is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-269-8721).
- 7. Applications for renewal In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.
- 8. Other legal obligations The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the United States Environmental Protection Agency has issued or may issue to the Permittee. This permit does not relieve the Permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the Permittee pursuant to the terms of this permit and all plans implemented by the Permittee pursuant to the terms of this permit shall comply with all applicable state and federal laws and regulations.
- 9. Pollution prevention In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the Permittee shall consider the following order of priority options: waste source reduction; recycling of waste; waste treatment; and waste disposal.

This permit expires on **April 6, 2027** and may be revoked or amended in accordance with 18 AAC 60.260. The permit can be renewed if the facility will operate beyond this date. **To avoid expiration of this permit, a renewal application must be submitted to ADEC at least 30 days before the expiration date**, as set forth in 18 AAC 15.110.

Lori Aldrich Solid Waste Regional Program Manager



35723 Kenai Spur Hwy.

Soldotna, Alaska 99669

Tel: (907) 260-4440

Email: admin@ka-designstudios.com

Review Date:	06.19.2023	Job No.:	KA_2021				
Reviewed By:	Chris Parker						
Client:	VSW						
Contractor:	Nana Constr	ruction					
Section No.:	07 42 30-00	2					
Submittal:	Metal Wall F	anel – Sho	p Dwgs.				

No Exceptions Taken	Amend and Resubmit	Make Corrections Noted

Rejected Resubmit Approved As Noted

See Attached Comments

Architect's review is for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the Contractor from compliance with the project plans and specifications. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrications processes, for techniques of assembly and for performing his work in a safe manner. Contractor to verify all dimensions at job site before ordering materials and equipment. Any deviations from the contract requirements must be specifically brought to the attention of the Architect in writing and upon the drawings, or by appropriate change order.

Specific comments are listed by section below. Revise to address items noted.

Comments:

- Please see the attached comments. - CRW to confirm panel color "Zinc Gray"

Signed: ____

Chas Tark

	Nu-Wave Corrugated, 24ga																				
Fastener							Pa	nel Sy	stem l	Vegat	ive (O	utwar	d) Unif	orm L	oad C	apacit	ty, (Ibs	/ft ²)			
					Attachment Spacing, (ft-in)																
Substrate		Nom. Size	Attach. Pattern	2' ·	- 0"	2' ·	- 6"	3'	- 0"	3'	- 6"	4'	- 0"	5' ·	5' - 0" 6' - 0"		7' - 0" 8' - 0"		- 0"		
		5126	Falleni														luire 2psf				
Material / Grade	Thick- ness			ASD W/Ω	LRFD фW	ASD W/Ω	LRFD фW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD фW	ASD W/Ω	LRFD фW	ASD W/Ω	LRFD фW	ASD W/Ω	LRFD фW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW
	1/2"	#14	34.7/7	127	171	102	137	85	114	73	98	63	86	51	69	42	57	36	49	30	33
	1/2	#14	34.7/5	91	122	73	98	60	82	52	70	45	61	36	49	30	41	26	35	23	31
Plywood &	5/8"	#14	34.7/7	161	217	129	174	107	145	92	124	80	108	64	87	53	72	39	50	30	33
OSB	0,0	#14	34.7/5	115	155	92	124	77	103	66	89	57	77	46	62	38	52	33	44	29	33
	3/4"	#14	34.7/7	195	263	156	210	130		111		97		77		53		39	50	30	33
	U/ T	#14	34.7/5	139	188	111	150	93	125	79	107	69	94	56	75	46	63	39	50	30	-33

Notes:

Panel capacities based on fastener pullout, pullover, fastener tension, panel outward bending strength, and IBC deflection limits.
Fastener capacities in steel based on AISI S100-16; fastener capacities in wood substrates based on ANSI/AWC NDS-2015.
Panel capacities presented in both ASD and LRFD. If design method is not known, use ASD (most conservative).

Rev. 7.20.20

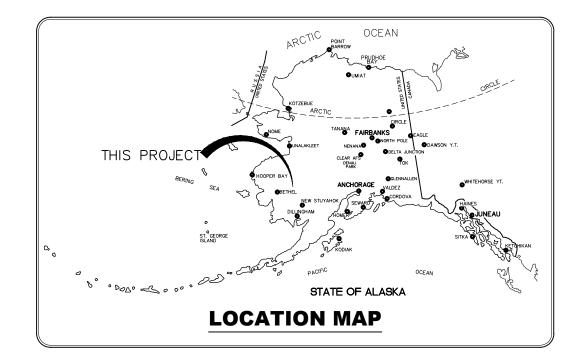




NANA CONSTRUCTION

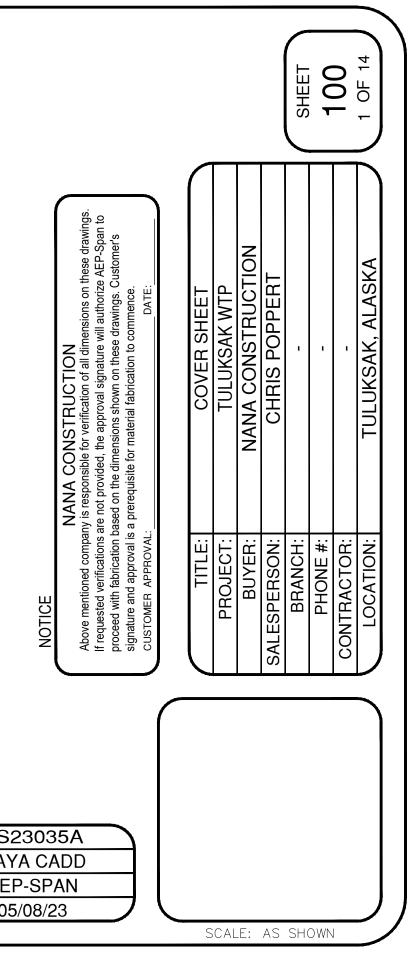
230032-30036

TULUKSAK WTP TULUKSAK, ALASKA



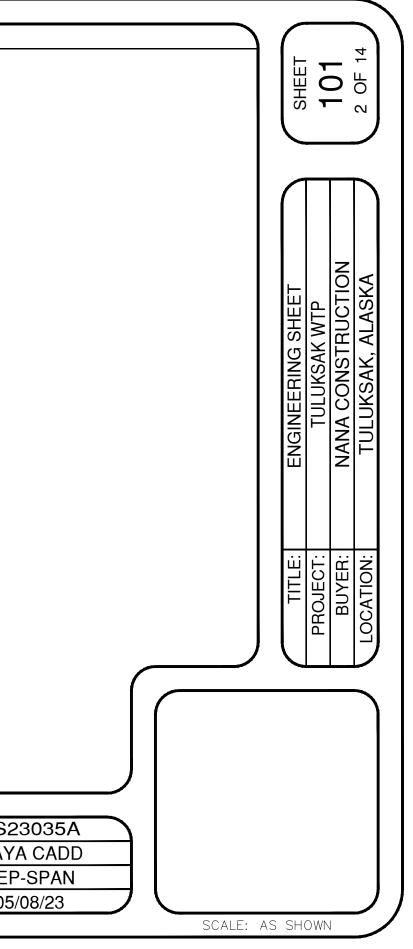
	DRAWING INDEX
100	COVER SHEET
101	ENGINEERING SHEET
102	SYSTEM SHEET
103	GENERAL NOTES
2xx	ELEVATIONS
Зxx	SECTIONS AND DETAILS
4xx	TRIM DETAILS

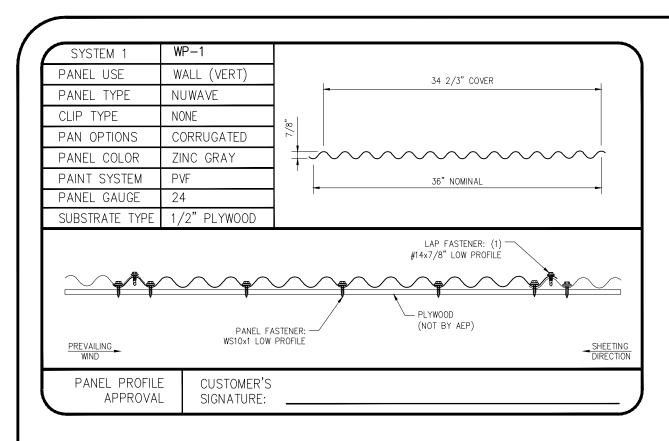
F	ISSUED FOR INITIAL REVIEW	CFG	05/30/23	((JOB#:	ES
					SPAN		DRAWN BY:	MA
					Engineered Solutions in Metal		ENG. BY:	A
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	*THIS DRAWING IS THE PROPERTY OF AEPASPAN. T	THE USE OF THIS D	RAWING WITHOU	T THE	EXPRESS PERMISSION OF AEP-SPAN IS	S PROHIBITI	- D.	



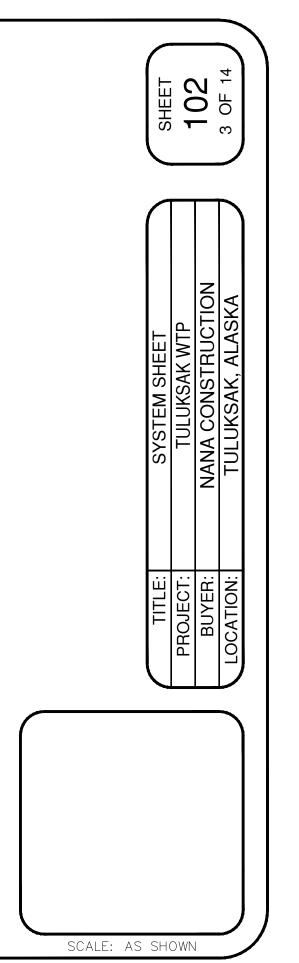
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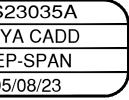
ZONES





i	A	ISSUED FOR INITIAL REVIEW	CFG	05/30/23	7		()	JOB#:	ES
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GENERAL NOTES

1.0 GENERAL NOTES

1.1 The intent of these drawings is to provide the buyer and his installer with instructions for construction. The details included herewith, illustrate the assembly(s) once installation is complete with the sequence of assembly being the installer's responsibility. Tolerance dimensions shown for framing members must be complied with in order for the panel and trim envelope to fit the framing. It is important that the installer understand the assembly tolerance dimensions (from one member to another) are adhered to, since vertical member overall lengths must be determined in the field as based on these given tolerances.

1.2 This order and drawings cannot be put into production until all dimensions, quantities and colors are verified. Any information requested on approval submittals must be provided prior to releasing order for production.

1.3 Proposed lengths are based upon aep-span's interpretation of the contract documents and buyer provided field dimensions. All dimensions shown shall be deeme correct unless noted otherwise by buyer. Actual lengths may vary to that shown in these drawings once final manufacturing details and quantities are confirmed.

1.4 All flashings or flat sheets, where applicable, are the same gauge, material and color as specified by the buyer and as shown in the color schedule of this sheet. For flashing or trim that are not listed in the color schedule, they shall match that of its predominant adjacent panel.

1.5 All panels, flashings or flat sheets, where applicable, shall be provided square cut in determined lengths. However, aep-span may elect to provide some panels and/or flashing for selected locations in common lengths, for field cutting. This will allow for potential inconsistencies in a building surface such as walls, roof edges, etc. Also, notching, bends or penetrations or miters shall be done in the field by the installers.

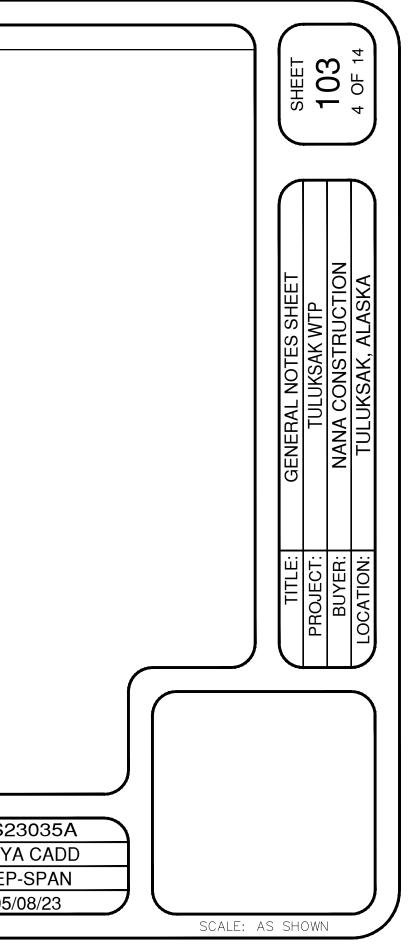
1.6 "Oil canning" is a characteristic, not a defect, of panels manufactured from light gauge metal, and is not cause for rejection.

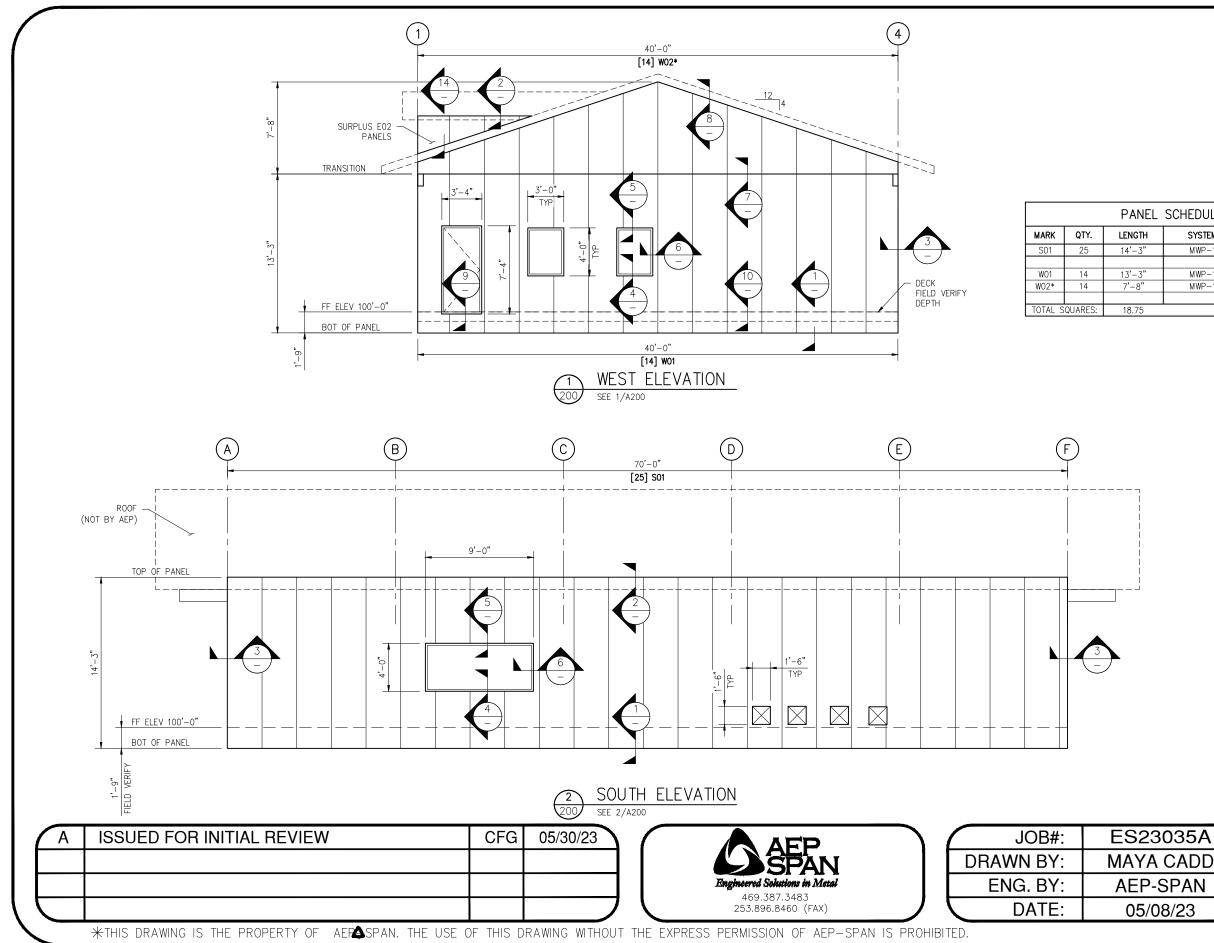
1.7 Substrate material, roofing felt, unrelated sealant, masonry anchors and other items not specifically listed in the drawings or the general exclusions (see this sheet) are not by aep.

1.8 Approved 'non-curing' butyl sealants are: sika 511, tremco js-773, pti-707, Pecora BR-96.

1.9 Approved 'curing' urethane sealants are: sonneborn np-1, sika-201, tremco dymonic, pecora dynatrol i-xl.

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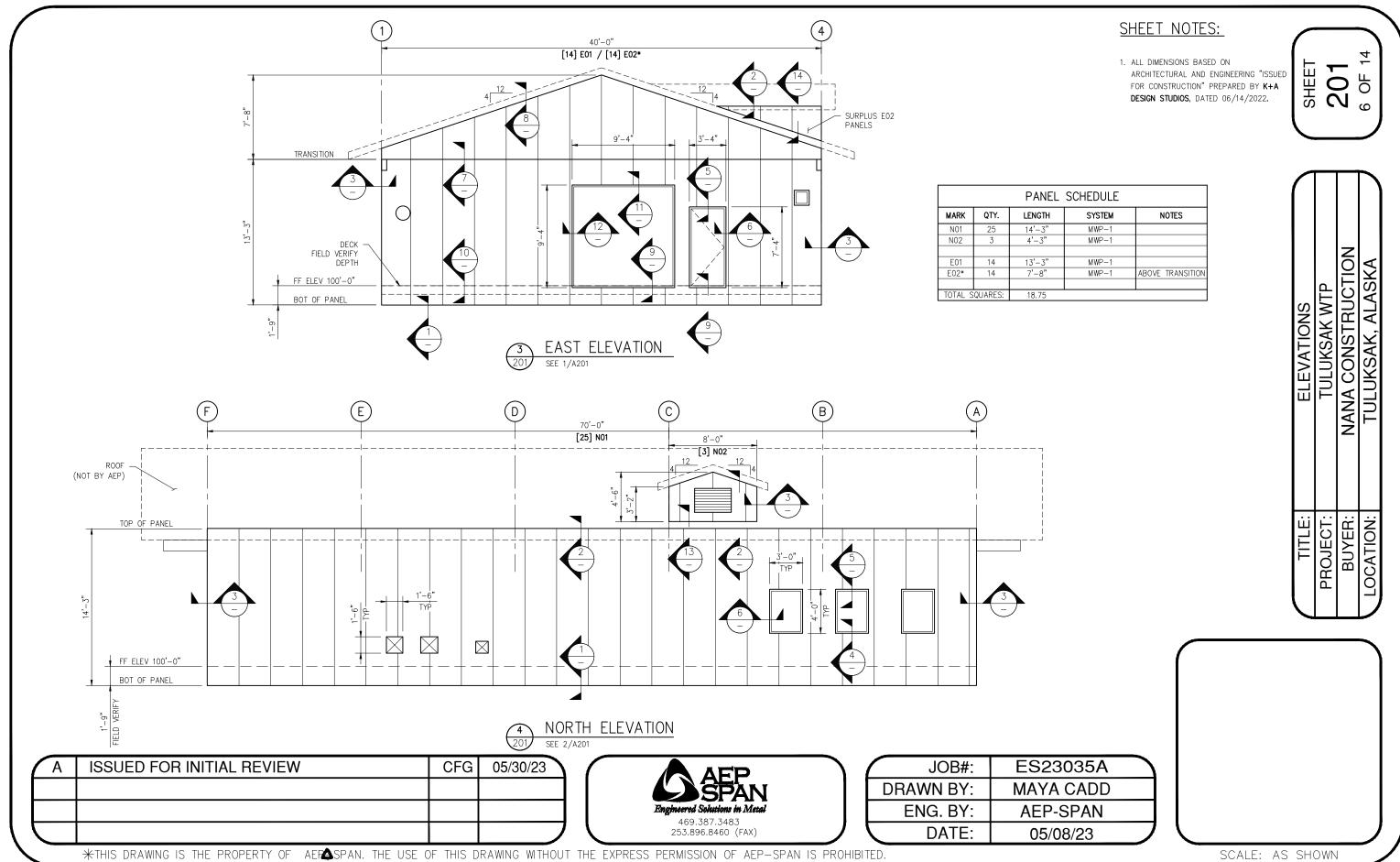
1. ALL DIMENSIONS BASED ON ARCHITECTURAL AND ENGINEERING "ISSUED FOR CONSTRUCTION" PREPARED BY K+A DESIGN STUDIOS, DATED 06/14/2022.





SCALE: AS SHOWN

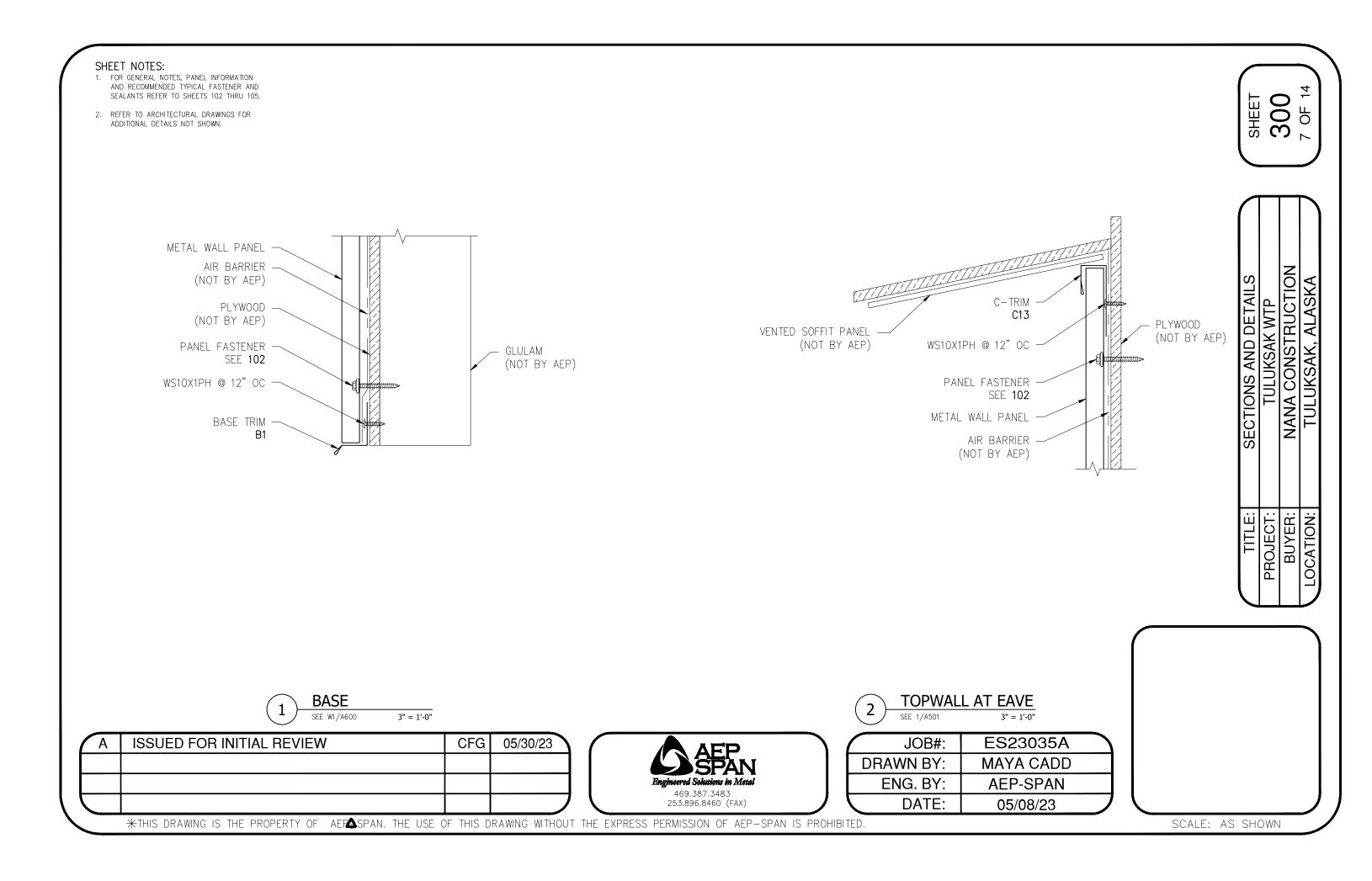
NEL	SCHEDULE	
STH	SYSTEM	NOTES
.3"	MWP-1	
.3"	MWP-1	
8"	MWP-1	ABOVE TRANSITION
75		

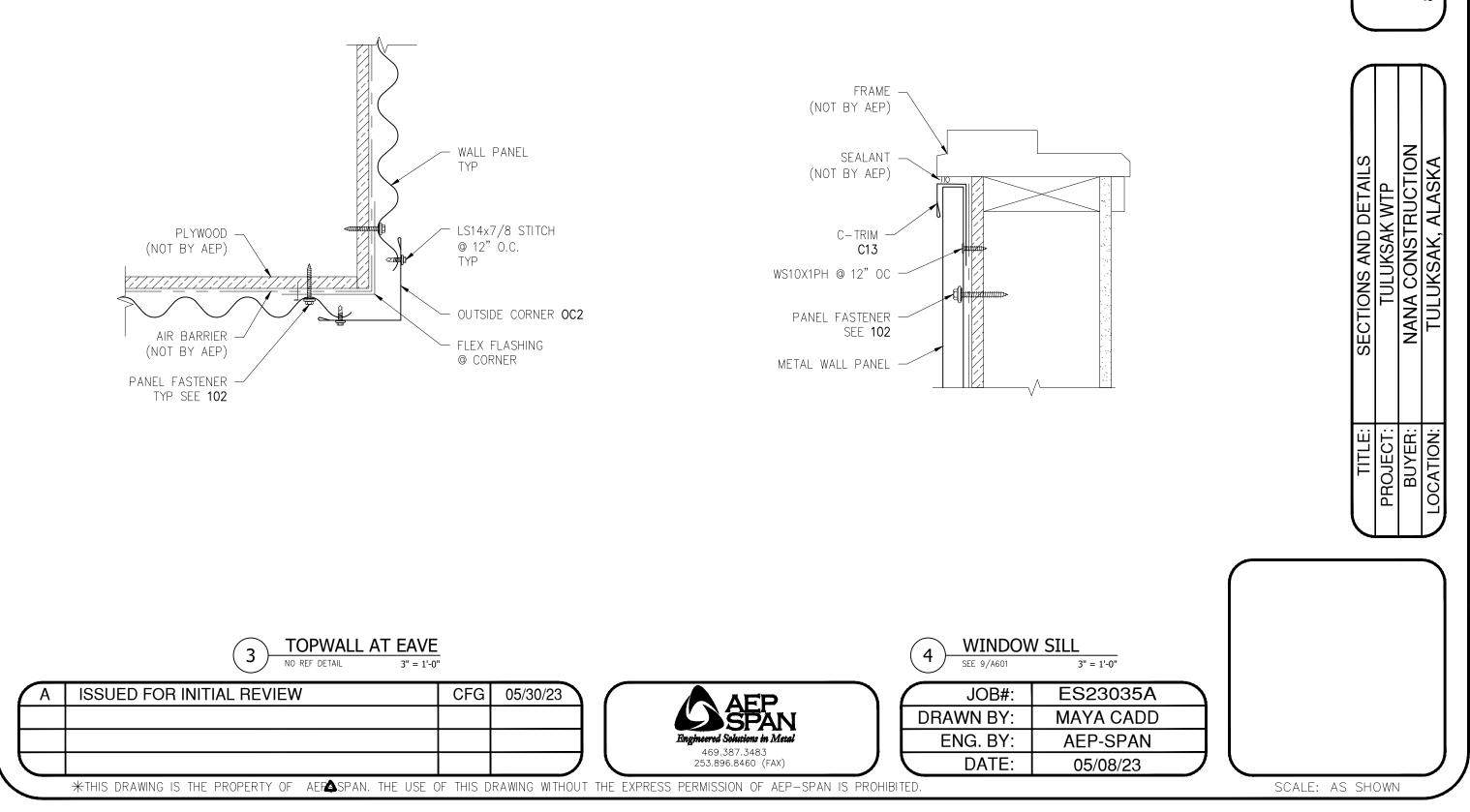




IEL	SCHEDULE	
н	SYSTEM	NOTES
n	MWP-1	
,	MWP-1	
"	MWP-1	
,	MWP-1	ABOVE TRANSITION
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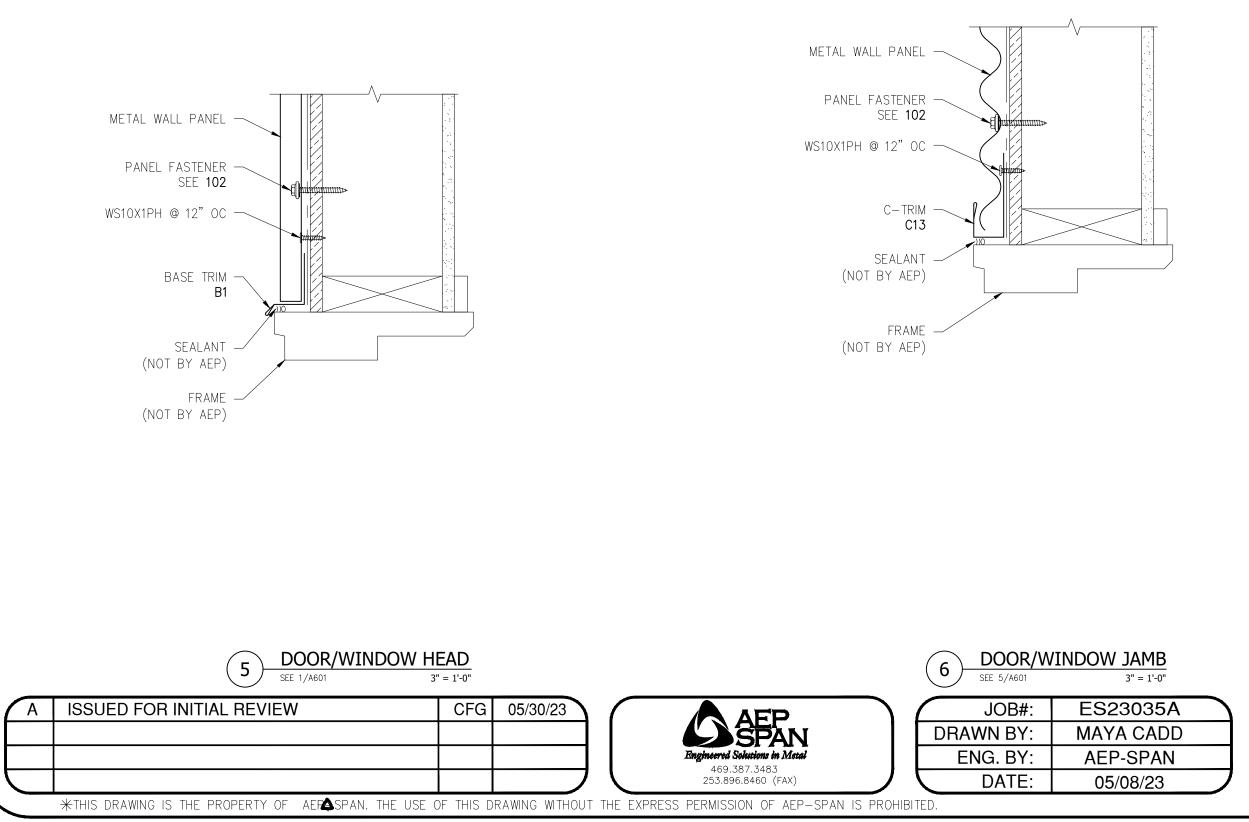




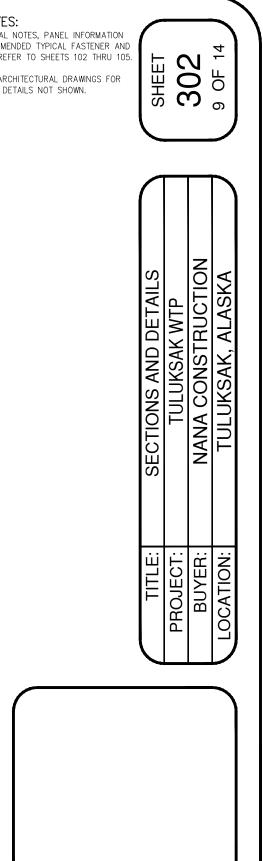
- 1. FOR GENERAL NOTES, PANEL INFORMATION AND RECOMMENDED TYPICAL FASTENER AND SEALANTS REFER TO SHEETS 102 THRU 105.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS NOT SHOWN.

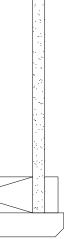


4

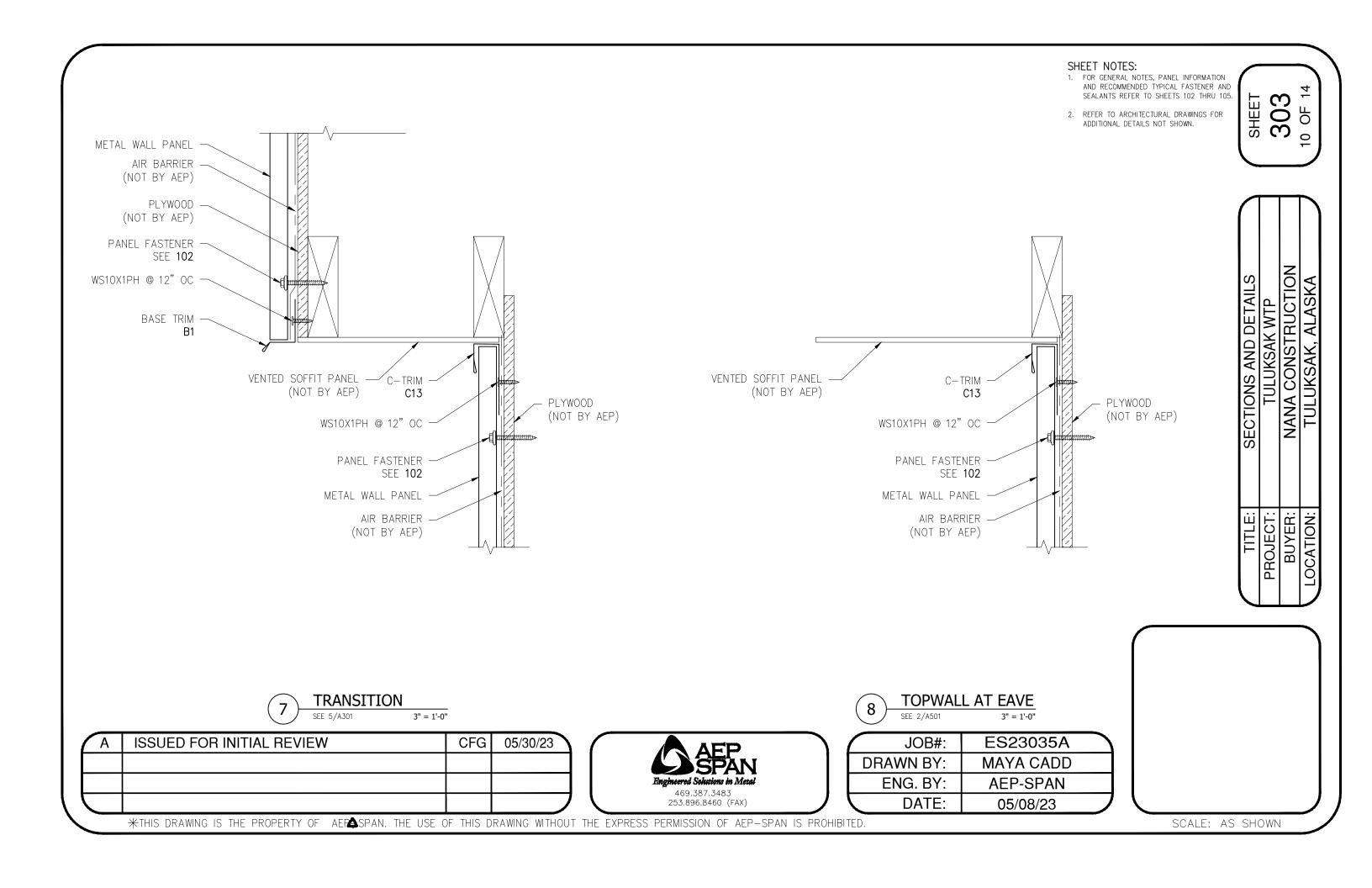


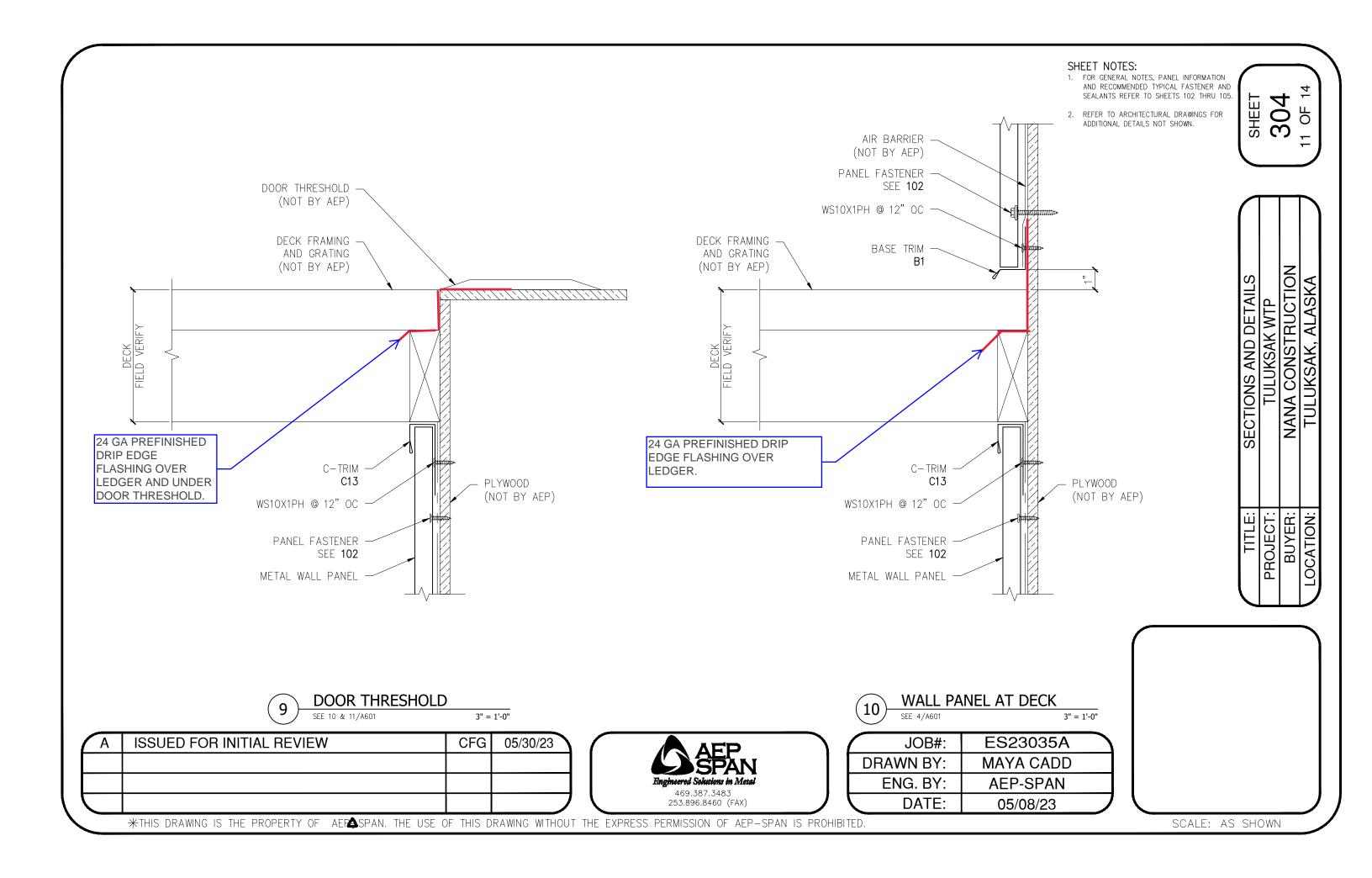
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- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS NOT SHOWN.

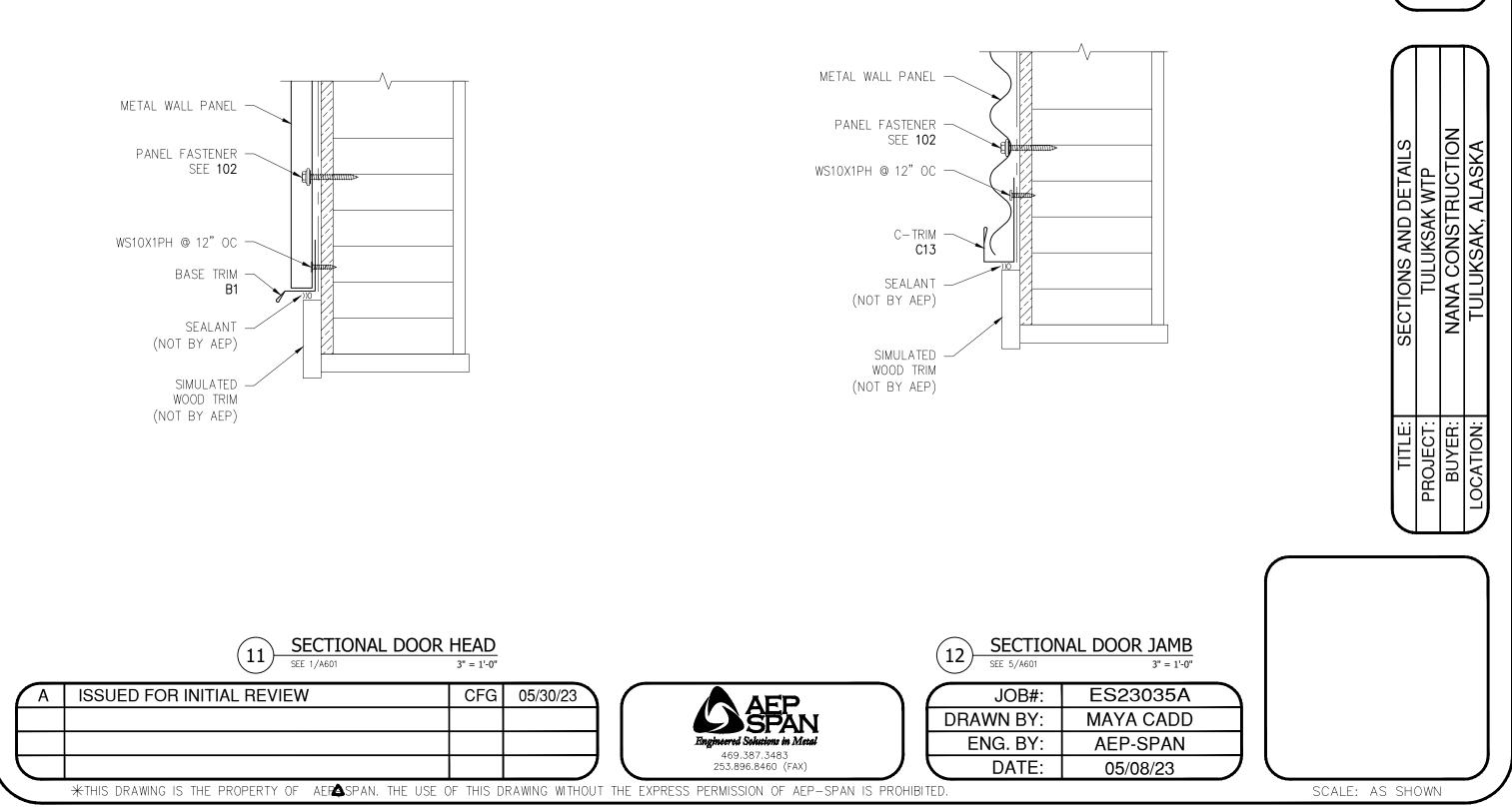








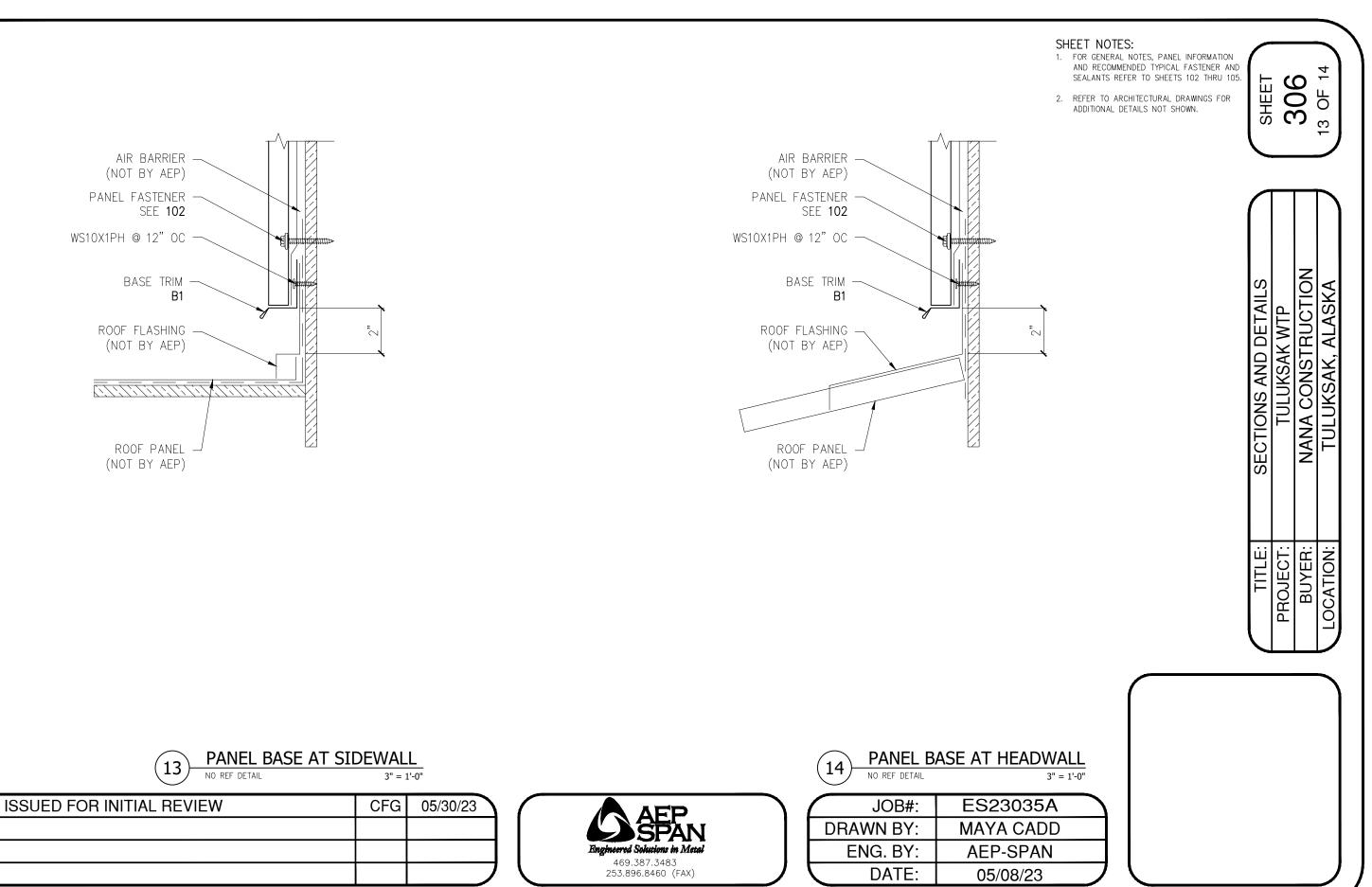




- 1. FOR GENERAL NOTES, PANEL INFORMATION AND RECOMMENDED TYPICAL FASTENER AND SEALANTS REFER TO SHEETS 102 THRU 105.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS NOT SHOWN.



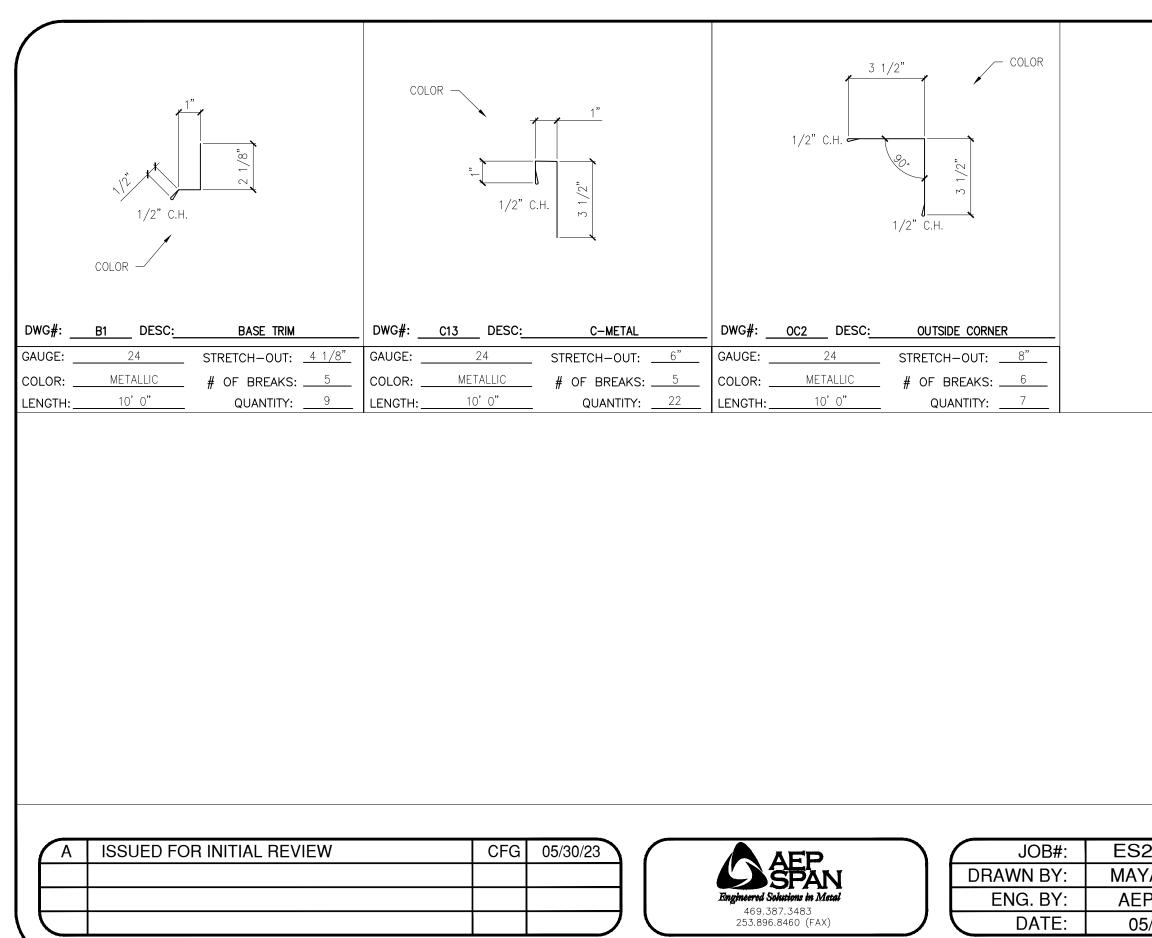
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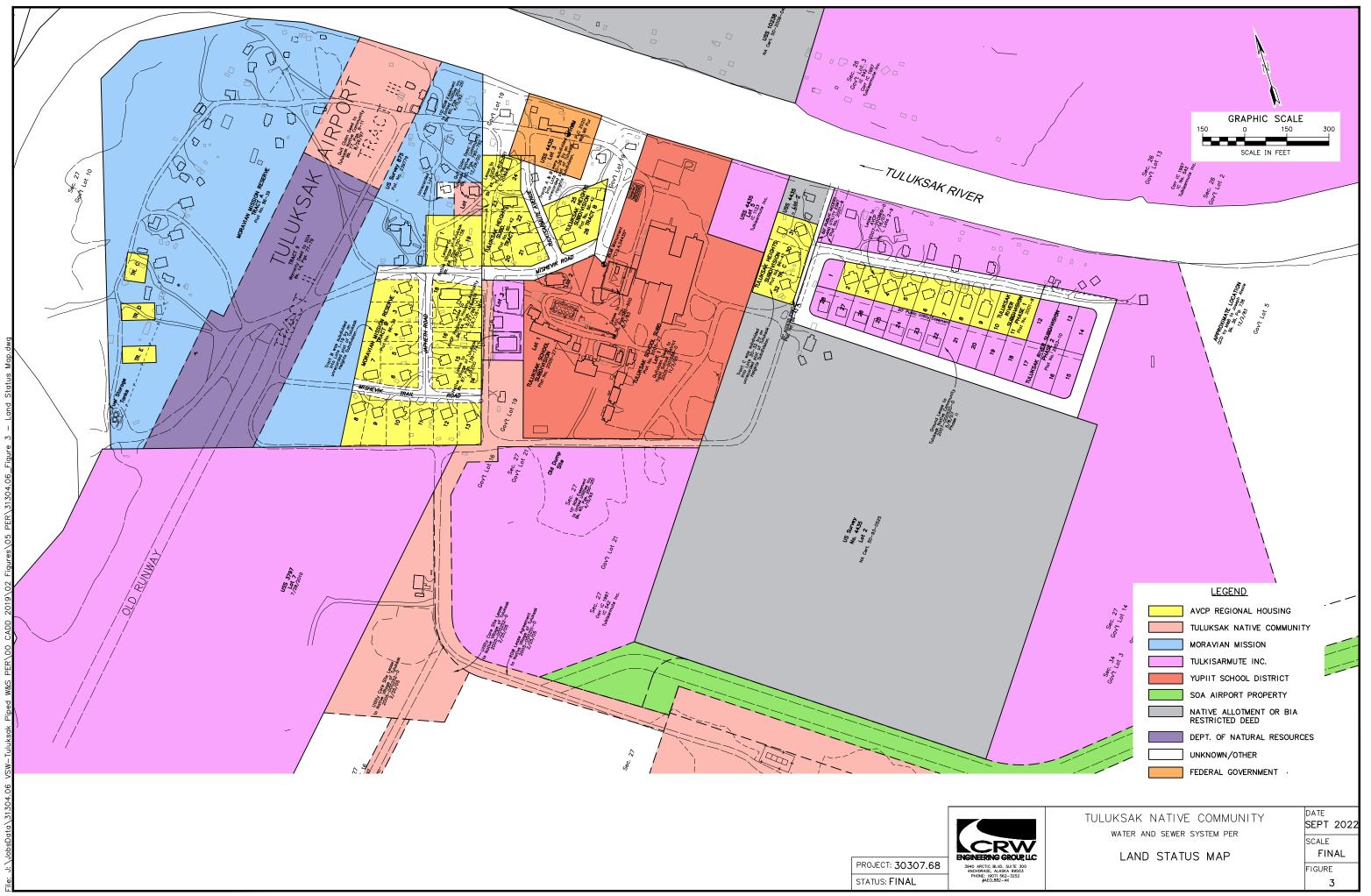
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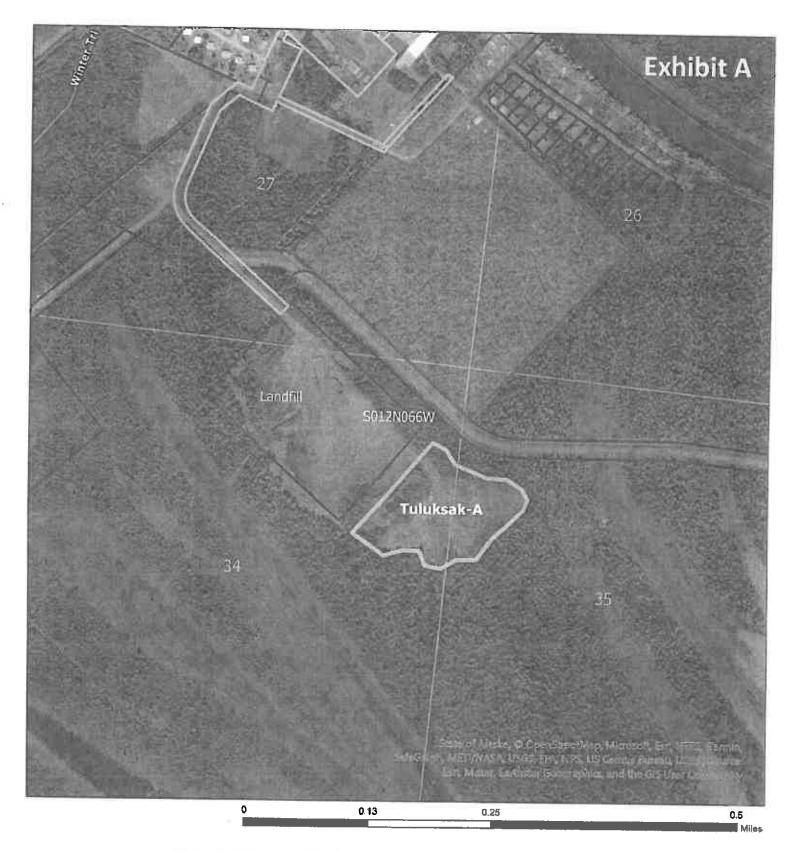




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	TRIM DETAILS	TULUKSAK WTP	NANA CONSTRUCTION	TULUKSAK, ALASKA	
	TITLE:	PROJECT:	BUYER:	LOCATION:	
2025 4					
23035A A CADD 2-SPAN /08/23				ーフノ	





Material Source for Tuluksak Water and Sewer Project

Map Projection Data: Universal Transverse Mercalor AK State Plane Zone 7 North American 1983 Mar. Datum Central Meridian 165 West Reference Lalitude: 0 False Easting: 500000 False Northing: Q



Tulkisarmute, Inc., -- Surface Calista Corp. - Subsurface

Encumbrances

Parcel

Conveyance

Divisions

Source of land status information includes: Alaska Department of Natural Resources, Bureau of Land Management, Resource Data, Inc., and Caliste Corporation. Native Allotment This map is for planning purposes and is

Calista Corporation

5015 Business Park Blvd., Suite 3000 Anchorage, Alaska 99503 907.275-2800 - 907.275-2977 fax www.calistacorp.com

March 2022

MONNIT SENSOR SCHEDULE				
NO.	FUNCTION	TYPE	SOURCE	ALTA MODEL NUMBER
$\langle 1 \rangle$	WTP INDOOR AIR TEMP	ANALOG	FIELD	MNS2-9-IN-TS-ST-L03
2	WST WATER TEMPERATURE	ANALOG	TIT-601 WP/WSTCP	MNS2-9-IN-MA-020
3	WST WATER LEVEL	ANALOG	LIT-601 WP/WSTCP	MNS2-9-IN-MA-020
$\langle 4 \rangle$	TREATED WATER FLOW RATE	ANALOG	FIT-401 WP/WSTCP	MNS2-9-IN-MA-020
(5)	HEATED RAW WATER TEMPERATURE	ANALOG	TIT-102 WP/WSTCP	MNS2-9-IN-MA-020
6	ALTA 4G LTE CELLULAR GATEWAY			MNG2-9-LTE-IN-ND
$\langle 7 \rangle$	TREATED WATER TOTAL	ANALOG	FIT-401 WP/WSTCP	MNS2-9-IN-MA-020
8	GENERAL ALARM	DIGITAL	BAP	MNS2-9-W1-DC-CF-L01
(9)	WATER MAIN DISTRIBUTION TOTAL USE	ANALOG	FIT-601	MNS2-9-IN-MA-020
(10)	BOILER B-1 FUEL FLOW METER	ANALOG	FIT-801	MNS2-9-IN-MA-020
(11)	BOILER B-2 FUEL FLOW METER	ANALOG	FIT-802	MNS2-9-IN-MA-020
(12)	208Y12OV SERVICE VOLTAGE MONITOR A PHASE	ANALOG	FIELD (MDP)	MNS2-9-IN-VM-500
(13)	208Y120V SERVICE VOLTAGE MONITOR B PHASE	ANALOG	FIELD (MDP)	MNS2-9-IN-VM-500
(14)	208Y120V SERVICE VOLTAGE MONITOR C PHASE	ANALOG	FIELD (MDP)	MNS2-9-IN-VM-500
(15)	BOILER SUPPLY TEMP	ANALOG	FIELD	MNS2-9-IN-TS-TC-KP*
(16)	BOILER RETURN TEMP	ANALOG	FIELD	MNS2-9-IN-TS-TC-KP*
	FORCE MAIN GLYCOL LOOP RETURN TEMP	ANALOG	TIT-921 FGHTCP	MNS2-9-IN-MA-020
(18)	WATER DISTRIBUTION GLYCOL LOOP RETURN TEMP	ANALOG	TIT-951 WGHTCP	MNS2-9-IN-MA-020
(19)	BOILER B-1 ON/OFF	DIGITAL	BOILER B-1	MNS-9-IN-DC-CF-L03
ED	BOILER B-2 ON/OFF	DIGITAL	BOILER B-2	MNS-9-IN-DC-CF-L03
(21)	WASHETERIA INDOOR AIR TEMP	ANALOG	FIELD	MNS2-9-IN-TS-ST-L03
E	FUEL STORAGE TANK LEVEL	ANALOG	LT-FTM	MNS2-9-IN-MA-020
ً	WHRS SUPPLY TEMP	ANALOG	FIELD	MNS2-9-IN-TS-TC-KP*
SEE SEE FOR *PR CON SUP ** F QUI		ANALOG AN. DRAWINGS S. - TYPE BOILER RES. PLE WITH IN WHRS		

