



Petersburg Borough

12 South Nordic Drive
Petersburg, AK 99833

Meeting Agenda Borough Assembly Regular Meeting

Monday, August 18, 2025

6:00 PM

Assembly Chambers

You are invited to a Zoom webinar!
When: August 18, 2025 06:00 PM Alaska

Topic: 8.18.2025 Assembly Meeting

Join from PC, Mac, iPad, or Android:

[https://petersburgak-
gov.zoom.us/j/89386450592?pwd=Sbj9qh0C5qkLgmnCv0vEoGmUJKLsmd.1](https://petersburgak.gov.zoom.us/j/89386450592?pwd=Sbj9qh0C5qkLgmnCv0vEoGmUJKLsmd.1)

Passcode:864736

Join via audio: (720) 707-2699 or (253) 215-8782
Webinar ID: 893 8645 0592
Passcode: 864736

1. **Call To Order/Roll Call**
2. **Voluntary Pledge of Allegiance**
3. **Approval of Minutes**
 - A. **Regular Assembly Meeting Minutes; August 4, 2025**
4. **Amendment and Approval of Meeting Agenda**
5. **Public Hearings**
6. **Bid Awards**
7. **Persons to be Heard Related to Agenda**

Persons wishing to share their views on any item on today's agenda may do so at this time.
8. **Persons to be Heard Unrelated to Agenda**

Persons with views on subjects not on today's agenda may share those views at this time.
9. **Boards, Commission and Committee Reports**
10. **Consent Agenda**

A. Liquor License Renewal - Inga's Galley

Eide Ventures, LLC, dba Inga's Galley, has applied to renew their restaurant liquor license. The Assembly may support or protest the application within 60 days of the date of notice of the application filing.

11. Report of Other Officers

12. Mayor's Report

A. Mayors Report August 18, 2025

13. Manager's Report

A. Manager's Report, August 18, 2025

14. Unfinished Business

15. New Business

A. Ordinance #2025-13: An Ordinance of the Petersburg Borough Adjusting the FY 2026 Budget for Known Changes

Harbor Shed Roof -This project was originally budgeted for in FY2025. The construction project was delayed due to contractor availability. Construction is now scheduled for this fall. This adjustment to the FY2026 budget allocates \$180,000 to complete the project.

Blind Slough Hydro Dam Breach Study - This proposed expense of \$59,942 is to fund a professional services contract for the completion of a Dam Break Study in FY2026. A proposal has been received from McMillen, the engineering firm that designed the Blind Slough hydro upgrades and also acts as our Chief Dam Safety Engineer. A copy of the proposal is attached to the Assembly packet.

GIS Project – This project helps support the Electric, Water and Wastewater departments. Additional funding (\$15,000 to be split between the three utilities) is needed to continue a support contract with RDI, the GIS experts that assisted with the in-the-field data collection effort this summer. This additional professional support will help Borough staff to complete utility maps and provide guidance as the utilities begin to use the GIS system and expand on its functionality. The increased budget will also allow for additional training of our in-house GIS Technicians to ensure effective management of the GIS data.

B. Aquatic Center Sewer Line Repair Project

Parks and Recreation Director Payne has received biddable documents for the Aquatic Center Sewer Line Repair Project and is seeking Assembly approval to send the project out to bid. A copy of the documents is attached to this packet.

16. Communications

A. Correspondence Received Since July 31, 2025

17. Assembly Discussion Items

A. Assembly Member Comments

B. Recognitions

18. Adjourn



Petersburg Borough

12 South Nordic Drive
Petersburg, AK 99833

Meeting Minutes Borough Assembly Regular Meeting

Monday, August 04, 2025

12:00 PM

Assembly Chambers

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1. Call To Order/Roll Call

The meeting was called to order by Vice Mayor Marsh at 12:00 pm.

PRESENT

Vice Mayor Donna Marsh
Assembly Member Bob Lynn
Assembly Member Jeigh Stanton Gregor
Assembly Member James Valentine

EXCUSED

Mayor Mark Jensen
Assembly Member Scott Newman
Assembly Member Rob Schwartz

2. Voluntary Pledge of Allegiance

The Pledge was recited.

3. Approval of Minutes

A. Regular Assembly Meeting Minutes, July 21, 2025

The minutes of the July 21, 2025 meeting were unanimously approved as submitted.

Motion made by Assembly Member Lynn, Seconded by Assembly Member Valentine.
Voting Yea: Vice Mayor Marsh, Assembly Member Lynn, Assembly Member Stanton Gregor, Assembly Member Valentine

4. Amendment and Approval of Meeting Agenda

The agenda was approved as submitted.

5. Public Hearings

There were no public hearings.

6. Bid Awards

There were no bid awards.

7. Persons to be Heard Related to Agenda

Persons wishing to share their views on any item on today's agenda may do so at this time.

No views were shared.

8. Persons to be Heard Unrelated to Agenda

Persons with views on subjects not on today's agenda may share those views at this time.

Mary Clemens, speaking on behalf of herself, spoke against selling borough property on Haugen Drive for building duplexes because of the undue pressure it would cause the neighboring property owners.

9. Boards, Commission and Committee Reports

There were no reports.

10. Consent Agenda

A. Liquor License Renewal - Bottle Shop

By unanimous vote, the Assembly supported the liquor license renewal for the Bottle Shop.

Motion made by Assembly Member Lynn, Seconded by Assembly Member Valentine.
Voting Yea: Vice Mayor Marsh, Assembly Member Lynn, Assembly Member Stanton
Gregor, Assembly Member Valentine

11. Report of Other Officers

A. Petersburg Medical Center

PMC CEO Hofstetter provided a written report to the Assembly on Medical Center activities.

B. US Forest Service

District Ranger Case provided an update on Forest Service activities.

C. Petersburg School District

Superintendent Taylor provided an update on School District activities.

12. Mayor's Report

A. August 4, 2025 Mayor's Report

Vice Mayor Marsh read the Mayor's Report into the record.

13. Manager's Report

A. August 4, 2025 Manager's Report

Manager Giesbrecht read his report into the record, a copy of which is attached and made a permanent part of these minutes

14. Unfinished Business

There was no unfinished business.

15. New Business

A. Resolution #2025-17: A Resolution Urging Immediate Action for Effective Sea Otter Management to Restore Southeast Alaska's Shellfish Commercial Fisheries and Subsistence Harvests

After discussion, Resolution #2025-17 was postponed to the second Assembly meeting in September.

Motion made by Assembly Member Stanton Gregor, Seconded by Assembly Member Valentine.

Voting Yea: Vice Mayor Marsh, Assembly Member Lynn, Assembly Member Stanton Gregor, Assembly Member Valentine

B. Resolution #2025-18: A Resolution Addressing the Management of Nuisance Black Bears in the Petersburg Borough

A motion to approve Resolution #2025-18 was made and seconded. The motion received three votes in favor and one opposed. As four affirmative votes are required for approval, the motion failed.

Motion made by Assembly Member Lynn, Seconded by Assembly Member Valentine.

Voting Yea: Vice Mayor Marsh, Assembly Member Lynn, Assembly Member Valentine

Voting Nay: Assembly Member Stanton Gregor

C. Resolution #2025-19: A Resolution Expressing Support for the Southeast Alaska Power Agency's Southeast Alaska Delivery Resiliency (SEADR) Project and Application to the Alaska Energy Authority Grid Resilience Formula Grant Program

Resolution #2025-19 was approved by unanimous roll call vote.

Motion made by Assembly Member Lynn, Seconded by Assembly Member Valentine.

Voting Yea: Vice Mayor Marsh, Assembly Member Lynn, Assembly Member Stanton Gregor, Assembly Member Valentine

16. Communications

A. Correspondence Received Since July 17, 2025

B. FEMA Shelter Training - August 15th and 16th

Director Hankins invited community members to participate in the FEMA Shelter training.

17. Assembly Discussion Items**A. Assembly Member Comments**

Vice Mayor Marsh addressed Dave Ohmer's application to purchase borough property, noting that although she does not have a significant financial interest in the sale, her in-laws own adjacent property. She acknowledged that it would have been appropriate to disclose this connection during the meeting. Vice Mayor Marsh also stated that the application will be placed on the agenda for the second regular meeting in September, allowing for another opportunity to vote on the matter

B. Recognitions

It was noted that this meeting marks Chris Cotta's final Assembly meeting, as he will be relocating south to begin a new position. Mr. Cotta began his service with the City of Petersburg in July 2008 as Assistant Public Works Director and was promoted to Public Works Director for the Petersburg Borough in March 2018. Vice Mayor Marsh expressed appreciation for his 17 years of dedicated service to the City and Borough of Petersburg and extended best wishes for his future endeavors.

C. Marine Passenger Fee and Cruise Ship Rate Study from Ketchikan

Member Valentine proposed that the Assembly consider raising the marine passenger fee from \$5 to \$8 per person and that the additional \$3 would be put directly into the Harbor Enterprise Fund to help pay for the building of a new cruise ship dock for American Cruise Lines.

18. Adjourn

The meeting was adjourned at 12:53 p.m.



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Commerce, Community,
and Economic Development

ALCOHOL & MARIJUANA CONTROL OFFICE
550 West 7th Avenue, Suite 1600
Anchorage, AK 99501
Main: 907.269.0350

August 7, 2025

From: Alcohol.licensing@alaska.gov; amco.localgovernmentonly@alaska.gov;

Licensee: **Eide Ventures, LLC**

DBA: Inga's Galley

VIA email: akingasgalley@gmail.com

CC: petersburgtax@gmail.com

Local Government 1: Petersburg Borough

Local Government 2:

Via Email: dthompson@petersburgak.gov; bregula@petersburgak.gov

Re: Restaurant Eating Place License #5392 Combined Renewal Notice for 2025-2026 Renewal Cycle

License Number:	#5392
License Type:	Restaurant Eating Place
Licensee:	Eide Ventures, LLC
Doing Business As:	Inga's Galley
Physical Address:	104 N Nordic Dr Petersburg, AK 99833
Designated Licensee:	Passawee Eide
Phone Number:	(808) 430-8019; (480) 235-1374
Email Address:	akingasgalley@gmail.com

☒ License Renewal Application

☐ Endorsement Renewal Application

Dear Licensee:

Our staff has reviewed your application after receiving your application and the required fees. Your renewal documents appear to be in order, and I have determined that your application is complete for purposes of AS 04.11.510, and AS 04.11.520.

Your application is now considered complete and will be sent electronically to the local governing body(s), your community council if your proposed premises are in Anchorage or certain locations in the Matanuska-Susitna Borough, and to any non-profit agencies who have requested notification of applications. The local governing body(s) will have 60 days to protest the renewal of your license.

Your application will be scheduled for the **September 16th, 2025** board meeting for Alcoholic Beverage Control Board consideration. The address and call-in number for the meeting will be posted on our home

page. The board will not grant or deny your application at the meeting unless your local government waives its right to protest per AS 04.11.480(a).

Please feel free to contact us through the Alcohol.licensing@alaska.gov email address if you have any questions.

Dear Local Government:

We have received completed renewal applications for the above-listed licenses within your jurisdiction. This is the notice required under AS 04.11.480. A local governing body may protest the issuance, renewal, relocation, or transfer to another person of a license with one or more endorsements, or issuance of an endorsement by sending the director and the applicant a protest and the reasons for the protest in a clear and concise statement within 60 days of the date of the notice of filing of the application. A protest received after the 60-day period may not be accepted by the board, and no event may a protest cause the board to reconsider an approved renewal, relocation, or transfer.

To protest any application(s) referenced above, please submit your written protest for each within 60 days to AMCO and provide proof of service upon the applicant and proof that the applicant has had a reasonable opportunity to defend the application before the meeting of the local governing body. If you have any questions, please email amco.localgovernmentonly@alaska.gov.

Dear Community Council (Municipality of Anchorage and Mat-Su Borough only)

We have received a completed renewal application for the above-listed license (see attached application documents) within your jurisdiction. This letter serves to provide written notice to the above-referenced entities regarding the above application, as required under AS 04.11.310(b) and AS 04.11.525.

Please contact the local governing body with jurisdiction over the proposed premises for information regarding the review of this application. Comments or objections you may have about the application should first be presented to the local governing body. If you have any questions, please email Alcohol.licensing@alaska.gov

Sincerely,
Kyle Helie, Licensing Examiner II
For
Kevin Richard, Director

**Mayor's Report
For
August 18, 2025 Assembly Meeting**

Filing for Candidacy for the October 7, 2025 Municipal Election: The filing period to run for an Assembly, Board or Commission seat for the Petersburg Borough ends at 4:30 p.m. on August 26, 2025. Paperwork to file for candidacy is available on the Borough website or at the front desk of the Municipal Building.

Absentee and Early Voting Information: Applications to request absentee ballots are available on the Borough website or upstairs in the municipal building. Early Voting will begin on September 17th from 11:00 am to 3:00 pm downstairs in the municipal building.

For more information on the election, go to www.petersburgak.gov and click on the orange banner at the top of the screen.



**Borough Manager's Report
Assembly Meeting 18 August 2025**

- ❖ Thanks to Absolute Drains, both EH water tanks have new mixing valves and are working wonderfully.
- ❖ Southeast Windowcraft replaced the last six oversized windows in the stairwell of Elderly Housing. This has been a 10+ year project in upgrading all our original 1982 windows! They have done phenomenal job in their workmanship with minimal impact to our residents and operations!
- ❖ Volleyball Camp starting next week.
- ❖ Lifeguard course coming up Aug 22nd - 24th. Any interested people 15 years or older can contact Scott Burt for more info!
- ❖ School swim and dive team is already in the water!
- ❖ Staff will be attending a Water Safety webinar focusing on open-water risks and safety. Hosted by Safe Kids Worldwide, brought to us by the AK Office of Boating Safety.
- ❖ BDO will be in town with a group of auditors September 8 – 12th to perform the Borough's annual audit.
- ❖ The library will be closed Monday Sept 15 - Wednesday Sept 17 for the replacement of the windows.
- ❖ Painting fresh crosswalks around the school as weather permits.
- ❖ Installing a storm drain in the police parking lot to eliminate the buildup of winter ice
- ❖ Moved 400 yards of shot rock from the quarry to the PW yard to be used for future projects
- ❖ Replaced worn out rear differential on one of the Borough's two 5-yard dump trucks and removing the wing blade from the grader prior to shipping it to Juneau for repairs
- ❖ Garbage bears are still very active and we are continuing our public education campaign to encourage folks to keep garbage secured, as required by Borough code. We also have bear straps for garbage cans back in stock at Public Works. These are available to Sanitation customers free, upon request.
- ❖ Traffic at the baling facility is high, with lots of garbage being generated by the Harbors and fish processors.
- ❖ Replaced the floor joists for lower level of PVFD's burn tower and working on templates to replace broken outhouse windows with Lexan, a more cost-effective solution

- ❖ Replacing bird netting above the scale at Sanitation
- ❖ Rick Braun completed the monument survey at the Cabin Creek dam
- ❖ Nordic Diving completed the dive inspection and cleaning of intakes and bypasses on both dams.
- ❖ Work continues on the Pump Station 4 and Force Main Upgrade project. Excavation inside the cofferdam cell is progressing as they weld in walers to reinforce the structure. The wet well is scheduled to be set early next week. Some manholes and pipe have been installed along the corridor.
- ❖ Staff and PCS are working to identify and repair communication failures between lift stations and the plant.
- ❖ The line crew will be scheduling isolated and limited power outages soon to address maintenance items on the distribution system. Public Service Announcements will be sent out, with direct notifications to affected customers, prior to the outages.
- ❖ The cooperative effort between the Crystal Lake Hatchery operator, SSRAA, and PMPL to install a second tailrace vent pipe was a success. The flow restriction caused by entrained air at higher turbine outputs has been resolved and the Total Dissolved Gas (TDG) was reduced. SSRAA is consulting with the owner of the hatchery (State of AK) to determine if steps to add more venting, or make other changes to the tailrace, would be appropriate to decrease the TDG levels further.
- ❖ PCS recently helped PMPL with installations of wireless access points at the hydro and Crystal Lake dam. This will improve communications dramatically at these facilities and allow for technical support access and wifi based phone calls in support of operations and safety considerations at the remote sites.
- ❖ PCS cleaned up the networking equipment in our control room and installed a new firewall that improves cyber security of our SCADA system.
- ❖ The new Scow Bay Generator was picked up by a contracted trucking company on August 12th. The unit will be trucked from Houston Texas to AML dock in Seattle over the course of a week. The unit will then be loaded onto an AML barge and start the trip to Petersburg. PMPL is working with Rock N Road Construction to help move the 133,000 lb generator to Borough property once it arrives. A temporary shelter is being purchased to protect the generator over the course of the winter.
- ❖ PMPL has issued a Request for Proposals for a design/build project to advance current 30% Scow Bay Generator facility plans to construction ready documents and then negotiate a construction price to build a permanent home for the generator. It is anticipated that once a contract has been awarded, engineering can proceed this fall and construction can start in the spring. Several contractors have shown interest in the project so far.
- ❖ PMPL has heard from Southeast Conference that the rollout of Alaska Heat Smart's ACES (Accelerating Clean Energy Savings) program in Petersburg is getting close to reality. Within the next 1-2 months, the ACES heat pump grant program will be available to Petersburg residents. It is important to note that any Petersburg household that is thinking about buying a heat pump should wait until this program rolls out before making a purchase. No retroactive grants are allowed by the program funding source.
- ❖ I met with representatives of American Cruise Lines last week to discuss the ongoing project.

**PETERSBURG BOROUGH
ORDINANCE #2025-13**

**AN ORDINANCE OF THE PETERSBURG BOROUGH ADJUSTING
THE FY 2026 BUDGET FOR KNOWN CHANGES**

Section 1. Classification: This ordinance is not of a permanent nature and shall not be codified in the Petersburg Municipal Code.

Section 2. Purpose: The purpose of this ordinance is to adjust the FY 2026 budget for known changes.

Section 3. Substantive Provisions: In accordance with Section 11.09(a) of the Charter of the Petersburg Borough, the budget for the fiscal period beginning July 1, 2025 and ending June 30, 2026 is adjusted as follows:

Explanation: Necessary revisions in the FY 2026 budget identified after adoption of the Budget.

<u>Account Number</u>	<u>Account</u>	<u>Original Budget</u>	<u>Increase (Decrease)</u>	<u>Amended Budget</u>
<u>FISCAL YEAR 2026 REVENUE / EXPENSE BUDGET ADJUSTMENTS</u>				
Harbor Shed Roof – Continuation from prior year.				
450.000.506555	Harbor Shed Roof adj. to Harbor Office	\$0	\$180,000.	\$180,000.
This project was originally budgeted for in FY2025. The construction project wasn't started in FY2025 because the contractor couldn't get to it until this fall. This is to add the expense to the FY26 budget.				
Petersburg Municipal Power and Light				
410.000.501410	Professional Services for Blind Slough Hydro Dam Break Study	\$56,000.	\$59,942.	\$115,942.
This new expense is to fund a professional services contract for the completion of a Dam Break Study in FY26. A proposal has been received from McMillen, the engineering firm that designed the Blind Slough hydro upgrades and also acts as our Chief Dam Safety Engineer. A copy of the proposal is attached to the Assembly packet.				
Petersburg Municipal Power and Light				
410.000.501960	Electric Department Transfer Out	-\$20,000.	-\$5,000.	-\$25,000.
420.000.501960	Water Department Transfer Out	-\$5,000.	-\$5,000.	-\$10,000.
430.000.501960	Wastewater Department Transfer Out	-\$5,000.	-\$5,000.	-\$10,000.
757.000.40224X	GIS Capital Project – Transfer In	\$30,000.	\$15,000.	\$45,000.

**PETERSBURG BOROUGH
ORDINANCE #2025-13**

Additional funding is needed to continue a support contract with RDI, the GIS experts that helped with the in-the-field data collection effort this summer. This additional professional support will help Borough staff to complete utility maps and provide guidance as the utilities start to use the GIS system and expand on its functionality. The increased budget will also allow for additional training of our in-house GIS Technicians who will be managing the GIS data.

Section 4. Severability: If any provision of this ordinance or any application to any person or circumstance is held invalid, the remainder of this ordinance and application to any person and circumstance shall not be affected.

Section 5. Effective Date: This ordinance shall become effective immediately after the date of its passage.

Passed and approved by the Petersburg Borough Assembly, Petersburg, Alaska this 15th day of September.

Mark Jensen, Mayor

ATTEST:

Rebecca Regula, Borough Clerk

Adopted:
Published:
Effective:

August 5, 2025

Karl Hagerman
Utility Director
Petersburg Municipal Power & Light
Petersburg Borough
PO Box 329, Petersburg, Alaska 99833

Subject: Crystal Lake Dam, Blind Slough Hydroelectric Project (P-201-AK)
Re: Proposal to Perform a Dam Breach Inundation Analysis and Hazard
Potential Classification Review

Dear Mr. Hagerman,

McMillen, Inc. (McMillen) is pleased to submit the enclosed letter proposal to Petersburg Municipal Power & Light (PMPL) to perform a dam breach inundation analysis and hazard potential classification review for Crystal Lake Dam. We have developed the following scope of work (SOW), cost estimate, and schedule for PMPL review. The proposal is based on our project understanding, our initial review of the recently acquired LiDAR, and previous conversations between PMPL and McMillen.

PROJECT UNDERSTANDING

The most recent dam breach and inundation mapping study for Crystal Lake Dam was performed in 1985. Since then, methods and procedures for preparing dam breach studies have improved significantly. Updated dam breach inundation mapping would provide a better understanding of the potential downstream impacts, including time to flood wave arrival, and magnitude and extent of flooding. Of particular interest are the hatchery facilities and residences approximately 1.5 miles downstream of the dam. The analyses performed as a part of this study will also improve emergency response planning based on a better understanding of flood wave arrival times and magnitude.

The Crystal Lake Dam has a High hazard potential classification. Prior to 2011, the dam had a Significant classification, and PMPL voluntarily completed a Part 12D Inspection. During review of the 2009 Part 12D, FERC questioned the Significant classification and recommended that an updated dam breach study be performed to resolve this question¹. At the time, PMPL elected to re-classify the dam as High hazard and forgo an inundation study.

¹ McMillen, Inc. (2024) Blind Slough Hydroelectric Project, FERC No. 0201-AK, 2024 Periodic Inspection Report. January.

Previous reviews of terrain data indicated that it was generally lacking sufficient detail in the powerhouse and hatchery area to adequately define the structures, storage ponds, and other features which would be of specific interest for the hydraulic analyses. In 2025, new LiDAR data became available; the LiDAR was determined to be of adequate quality to characterize the topography around the dam, Crystal Creek downstream reach, and the potential downstream inundation areas around the hatchery and powerhouse. After conversations with the FERC Project Engineer and the Chief Dam Safety Engineer (CDSE) during the 2025 annual inspection, it was determined that performing another study, using modern techniques and utilizing the new LiDAR, would result in a more accurate representation of a potential dam breach. This updated study could also be used to inform a review of the dam's hazard potential classification.

PROJECT GENERAL ASSUMPTIONS

Based on the information provided by PMPL and our Project Understanding, the following assumptions have been made in the development of this SOW. These assumptions impact the overall Project and budget. However, McMillen will gladly entertain any discussion on these assumptions to ensure they align with PMPL goals.

- All meetings will take place virtually using Microsoft Teams.
- No site visits will be performed as part of this SOW.
- McMillen assumes the project notice to proceed to be granted within two months of submitting this proposal. If the award process is prolonged, the project's budget and schedule may need to be reassessed for potential adjustments due to the delay.
- The total duration of the project is anticipated to be 4 months.
- All technical documents will be reviewed internally by qualified McMillen personnel before submission to PMPL.
- All materials will be prepared and submitted electronically.

PROJECT APPROACH

McMillen's Project approach is identified in the following tasks and activities. The tasks will be completed in the order described, excluding Project Management, which is included for the duration of the Project.

- Task 1.0 – Project Management
- Task 2.0 – Hydraulic Modeling and Inundation Mapping
- Task 3.0 – Hazard Potential Classification

- Task 4.0 – Report Preparation

The following narratives provide our Project approach and assumptions for each work task. The narratives are the basis of the development of our labor-hour estimate.

TASK 1.0: PROJECT MANAGEMENT

Steven Klawitter, PE, will serve as the McMillen PM responsible for the overall coordination and direction of the work. He has led and performed numerous dam breach and inundation analyses. The hydraulic analyses will be performed by Gibson De Jode, EIT, with oversight and direction provided by Mr. Klawitter. Project Quality Assurance/Quality Control (QA/QC) will be performed by Cyrus Niamir, PE, the CDSE and most recent Part 12D Independent Consultant for the Blind Slough Hydroelectric Project.

Task 1.0 includes administration, project setup, accounting, and invoicing. Project Management will also cover the coordination between team members who are performing reviews, analyses, mapping, and report writing. All project deliverables will be reviewed internally by a qualified McMillen team member (QA/QC). This task also includes provisions for two meetings, one to kick off the Project at the start of the work and one to discuss the results prior to issuing the final report.

DELIVERABLES

- Invoices (PDF format).
- Monthly progress reports with each invoice (PDF format).

ASSUMPTIONS

- The Project duration is anticipated to be four months.

TASK 2.0: HYDRAULIC MODELING AND INUNDATION MAPPING

Task 2.0 will consist of developing a two-dimensional hydraulic model using HEC-RAS version 6.4 or newer. The model terrain will be based on the newly available LiDAR data where available and supplemented by other publicly available terrain sources as necessary. The model domain will extend from the dam down Crystal Creek to Blind Slough and along Blind Slough to west to the Wrangell Narrows and east towards the Sumner Strait to capture the full extents of the failure flood waves. The total downstream reach is approximately 14 miles split between the Crystal Creek and both east and west portions of Blind Slough.

The dam breach parameters will be developed based on previous experience, previous studies at Crystal Lake Dam, and standard engineering practices including FERC Engineering Guidelines. The developed parameters will be entered into HEC-RAS to simulate the dam breach scenario. An

iterative approach will be taken to determine the appropriate model domain configurations, computational time steps, model refinement areas, boundary conditions, and baseflow conditions. Three model scenarios will be evaluated including:

1. Sunny day dam breach at full pool (EL. 1292.0, NAVD88)
2. Probable Maximum Flood (PMF) with dam breach
3. PMF with no dam breach

The third model scenario (PMF with no dam breach) will be used to inform the general understanding of the incremental impacts between the PMF without breach and PMF with breach. Discussion of this comparison will be provided in the report developed as part of Task 4.0. This simplified analysis will not be intended to serve as a full Incremental Hazard Evaluation as would be required under FERC Engineering Guidelines Chapter 2 to revise the Inflow Design Flood (IDF) to a storm less than the PMF. In addition to the three base case scenarios, McMillen will prepare a sensitivity analysis of the selected HEC-RAS modeling parameters. This analysis will be conducted for breach formation time, breach size, and terrain roughness based on the sensitivity analyses recommended in FERC Engineering Guidelines Chapter 2, Appendix II-A (2015). Three sensitivity analysis runs will be performed, and results will be compared to the base case parameters. Details of the model results, model development, and selected modeling parameters will be included in the report prepared in Task 4.0.

The detailed downstream routing results will be utilized to develop separate sets of inundation maps for the sunny-day breach and PMF breach scenarios. McMillen's GIS team will primarily perform this task. Our GIS team has extensive experience developing detailed inundation maps to provide critical information to end-users. Inundation maps will be developed at a variable scale to provide increased resolution in areas of interest such as the fish hatchery. Map features will include selected cross sections at critical locations that report the peak flow, peak water depth, peak water velocity, and time to flood wave arrival and peak flood flow. These maps will meet FERC requirements (Engineering Guidelines Chapter 6) and will be acceptable for inclusion in the Project's Emergency Action Plan (EAP). The inundation maps will be included as an appendix to the report prepared as part of Task 4.0. Revisions will be made to the maps based on comments received during PMPL's review.

DELIVERABLES

- Electronic copy of the HEC-RAS model.
- Analyses will be summarized as part of Task 4.0 reporting.
- Digital copies of inundation maps showing sunny-day and PMF failure conditions (PDF format), consistent with FERC Engineering Guidelines Chapter 6, will be appended to Task 4.0 reporting.

ASSUMPTIONS

- The existing PMF study will be provided by PMPL and is acceptable for use in this analysis.
- PMPL will provide the lake elevation-storage curve and the spillway rating curve.
- Downstream culverts and bridge crossings will be assumed to fail during the breach and will not be included in the hydraulic model.
- Sensitivity analysis will be conducted for time of breach, breach size, and roughness. Three sensitivity analysis runs will be performed.
- Two sets of inundation maps will be prepared, consistent with FERC requirements.

TASK 3.0: HAZARD POTENTIAL CLASSIFICATION

The FERC hazard potential classification system categorizes dams based on the probable loss of human life and the impacts on economic, environmental, and lifeline interests. The key difference between a Significant and a High classification determination is the expected loss of human life; Significant is characterized by no probable loss of human life, while High is conversely characterized by probable loss of human life. The dam breach hydraulic modeling and inundation mapping described in Task 2.0 will be used to inform loss of life estimates. The loss of life estimates will be performed using methods presented in the US Bureau of Reclamation Guidelines for Estimating Life Loss (RCEM, 2015) and will consider the FERC Engineering Guidelines (specifically Chapters 1, 2, and 18).

Loss of life calculations will be compared to the hazard potential classification definitions and discussions and McMillen will perform a formal review of the dam's High hazard potential classification. Topics such as impact of failure, mis-operation of the dam, property damage, and environmental concerns will be covered as part of this review.

DELIVERABLES

- Analysis and rationale will be included as part of Task 4.0 reporting.

ASSUMPTIONS

- Estimates of the number of personnel working and residing at the hatchery are available.
- Recent Sudden Failure Assessments and Evacuation Drills are available and can be relied upon for this analysis.

TASK 4.0: REPORT PREPARATION

The work performed in Task 2.0 and Task 3.0 will be summarized in a Dam Breach Inundation Mapping and Hazard Potential Classification Review Report for Crystal Lake Dam. The calculations

and inundation maps will be included as appendices to the report. McMillen will develop a draft report and associated appendices for review by PMPL. Based on this review, a revised final report and supporting documents will be developed, signed, and sealed for submittal to PMPL.

DELIVERABLES

- Draft report and attachments (PDF and Word format).
- Final report and attachments (PDF format).
- Final GIS files in accordance with FERC requirements for submittal to FERC with the final report and attachments.

ASSUMPTIONS

- A revised final report will be issued within two weeks of receiving comments from PMPL.
- This proposal covers efforts to prepare documents for delivery to FERC. Additional effort based on comments received from FERC is not included.

SCHEDULE

The work will begin upon Notice to Proceed (NTP) which is assumed to occur on October 1, 2025. Table 1 provides a schedule breakdown for each task. The Project is anticipated to occur between October 2025 and January 2026.

Table 1. Proposed Schedule

Milestone	Time (Business Days)	Start	End
Notice to Proceed		10/1/2025	
1.0 Project Management			
Progress Reports and Invoicing	78	10/1/2025	1/16/2026
Project Setup and Task Coordination	78	10/1/2025	1/16/2026
External Meetings	78	10/1/2025	1/16/2026
2.0 Hydraulic Modeling and Inundation Mapping			
Data Collection and Review	7	10/3/2025	10/17/2025
Breach Parameter Development	20	10/20/2025	11/14/2025
Hydraulic Model Development	25	10/20/2025	11/21/2025
Sensitivity Analysis	10	11/24/2025	12/5/2025
Inundation Mapping	20	11/17/2025	12/12/2025
3.0 Hazard Potential Classification			
Life Loss Calculations	10	12/1/2025	12/12/2025
Hazard Classification Review	10	12/1/2025	12/12/2025
4.0 Report Preparation			
Draft Report	25	11/17/2025	12/19/2025
Final Report	10	1/5/2026	1/16/2026

BUDGET

Table 2 provides a budget summary for each task discussed above. Attachment A provides a detailed breakdown of tasks, hours, and billing rates used to support the proposed budget. The not-to-exceed amount for the Crystal Lake Dam Breach Inundation Mapping and Hazard Potential Classification Review is \$59,942. The Project will be invoiced monthly on a time and materials basis.


Table 2. Proposed Project Budget

Task No.	Description	Budget
1.0	Project Management	\$5,148
2.0	Hydraulic Modeling and Inundation Mapping	\$30,154
3.0	Hazard Potential Classification	\$7,360
4.0	Report Preparation	\$17,280
	Total	\$59,942

CONCLUSION

We appreciate the opportunity to provide you with a detailed SOW, cost estimate, and schedule for execution of the dam breach inundation analysis and hazard potential classification review for Crystal Lake Dam. If you have any questions or need additional information, please contact Cyrus Niamir at niamir@mcmillen.com or 720-481-9165. We look forward to serving PMPL on this Project.

Sincerely,



Cyrus Niamir, PE
Dam Safety / Geotechnical Discipline Lead

Encl. Attachment A: Detailed Budget Breakdown

ATTACHMENT A: DETAILED BUDGET BREAKDOWN

Staff	C. Niamir (QA/QC)	S. Klawitter (PM)	G. De Jode (H&H)	Z. Uhlmann (GIS)	Tech. Editor	Admin.			
Rates	\$ 217	\$ 185	\$ 130	\$ 110	\$ 120	\$ 105	Hours	Total Labor	TOTAL
1.0 Project Management	4	16	2	2	-	8	32	\$ 5,148	\$ 5,148
Progress Reports and Invoicing		4				4	8	\$ 1,160	\$ 1,160
Project Setup and Task Coordination	2	10	2	2		4	20	\$ 3,184	\$ 3,184
External Meetings	2	2					4	\$ 804	\$ 804
								\$ -	\$ -
2.0 Hydraulic Modeling and Inundation Mapping	2	32	112	84	-	-	230	\$ 30,154	\$ 30,154
Data Collection and Review	2	4	12	4			22	\$ 3,174	\$ 3,174
Breach Parameter Development		2	20				22	\$ 2,970	\$ 2,970
Hydraulic Model Development		8	48				56	\$ 7,720	\$ 7,720
Sensitivity Analysis		2	16				18	\$ 2,450	\$ 2,450
Inundation Mapping		16	16	80			112	\$ 13,840	\$ 13,840
3.0 Hazard Potential Classification	10	14	20	-	-	-	44	\$ 7,360	\$ 7,360
Life Loss Calculations	4	8	16				28	\$ 4,428	\$ 4,428
Hazard Classification Review	6	6	4				16	\$ 2,932	\$ 2,932
								\$ -	\$ -
4.0 Report Preparation	10	36	56	-	8	2	112	\$ 17,280	\$ 17,280
Draft Report	8	24	40		8		80	\$ 12,336	\$ 12,336
Final Report	2	12	16			2	32	\$ 4,944	\$ 4,944
Total Hours	26	98	190	86	8	10	418		
Total Budget	5,642	18,130	24,700	9,460	960	1,050		\$ 59,942.00	\$ 59,942.00

DRAIN LINE REPAIRS

BID DOCUMENTS

FOR:

PETERSBURG AQUATIC CENTER
PETERSBURG, ALASKA 99833

PREPARED BY:



Juneau, AK
9109 Mendenhall Mall Rd, Ste 4
Juneau, AK 99801
Phone: 907.780.6060
www.respec.com
AECC163270



SHEET INDEX	
SHEET	SHEET TITLE
G-001	PROJECT COVER SHEET
A-001	LEGEND AND ABBREVIATIONS
A-101	REFERENCE PLAN
AD111	PARTIAL FIRST FLOOR PLAN - DEMOLITION
A-111	PARTIAL FIRST FLOOR PLAN
S-001	LEGEND AND ABBREVIATIONS
S-002	GENERAL NOTES
S-003	SPECIAL INSPECTIONS
S-101	TYPICAL DETAILS
S-001	REFERENCE PLAN
S-011	PARTIAL FOUNDATION AND SLAB PLAN - DEMOLITION
S-011	PARTIAL FOUNDATION AND SLAB PLAN
S-001	FOUNDATION DETAILS
M-001	MECHANICAL SYMBOL LEGEND & ABBREVIATIONS
M-002	SPECIFICATIONS
BA-111	OVERALL PLAN - RADIANT TUBING
AD111	FIRST FLOOR PLAN - PLUMBING - DEMOLITION
BA-112	FIRST FLOOR PLAN - UNDERGROUND PLUMBING
BA-111	PLUMBING DETAILS

EXHIBIT DRAWINGS	
SHEET	SHEET TITLE
EX1	EXHIBIT DRAWING
EX2	EXHIBIT DRAWING
EX3	EXHIBIT DRAWING
EX4	EXHIBIT DRAWING
EX5	EXHIBIT DRAWING
EX6	EXHIBIT DRAWING

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G-001

PROJECT NUMBER
16315.24002

DATE
08/15/2002

BY
RESPEC

CHECKED
RESPEC

APPROVED
RESPEC

SCALE
AS SHOWN

SHEET TITLE
PROJECT COVER SHEET

BID DOCUMENTS

PROJECT
**PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS**

PETERSBURG, ALASKA 99833



Juneau, AK
9109 Mendenhall Mall Rd, Ste 4
Juneau, AK 99801
Phone: 907.780.6060
www.respec.com
AECC163270

CONSULTANT:

DATUM

GRID LINE



LEVEL

LEVELS AND ELEVATIONS

SPOT ELEVATION

LINEWORK

EXISTING TO REMAIN

NEW

DEMOLITION

BY OTHERS

REFERENCES

1. SECTIONS

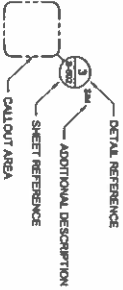


LOCALLY REFERENCED SECTION

ELEVATIONS



CALLOUTS



MATCHLINES



CODE ANALYSIS

1. PROJECT

A. PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS

PETERSBURG PARKS AND RECREATION, PETERSBURG, AK 99603

2. CLIENT

A. PETERSBURG PARKS AND RECREATION

3. CONTRACTOR

A. TBD

4. SCOPE OF WORK

A. REPAIRING/REPAIRING BROKEN SANITARY PIPING BELOW EXISTING SLAB FOUNDATION

5. ORIGINAL CODES

A. 2000 INTERNATIONAL FAMILY OF CODES

6. CURRENT CODES

A. 2021 INTERNATIONAL FAMILY OF CODES WHERE APPLICABLE

INCLUDING:

A. 2021 EXISTING BUILDING CODE LEVEL 1 ALTERATION (SECTION 302)

7. CONSTRUCTION TYPE

A. V8 - FULLY AUTOMATIC SPRINKLERED OCCUPANCY TYPE A.3

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN ACCOMPLISHING NEW WORK.

2. REMOVE AND STORE ALL EXISTING FIXTURES, CABINETRY, CASEWORK INCLUDING LOCKERS, BENCHES, TOILETS, SINKS, TOILET/VAPOR PARTITIONS, ACCESSORIES (UNLESS NOTED OTHERWISE, REFER TO SPECIFICATIONS) DRAINING EXISTING LIST, REPAIR/REPLACE TO COMPLETE WORK.

3. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF CONCRETE FLOOR AND CHASE WALLS SHOWN ON DEMOLITION EXTERNS.

4. CONTRACTOR TO PROTECT ALL EXISTING FINISHES AND FURNISHINGS TO REMAIN. REPAIR/REPLACE DAMAGED FINISHES OR FURNISHINGS TO BE REPLACED AT CONTRACTOR'S EXPENSE.

5. ADAPTIVE ALTERNATES:

A. ADD AT 1 AND 2 ARE AREAS OF THE FIRST FLOOR SLAB WHICH MAY NEED TO BE REMOVED TO REPAIR THE EXISTING UTILITIES. SEE MECHANICAL AND STRUCTURAL FOR ADDITIONAL INFORMATION.

REVISIONS					
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A-001

PROJECT NUMBER
0315.34602

SHEET TITLE:
LEGEND AND ABBREVIATIONS
BID DOCUMENTS

PROJECT:
PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS
PETERSBURG, ALASKA 99833

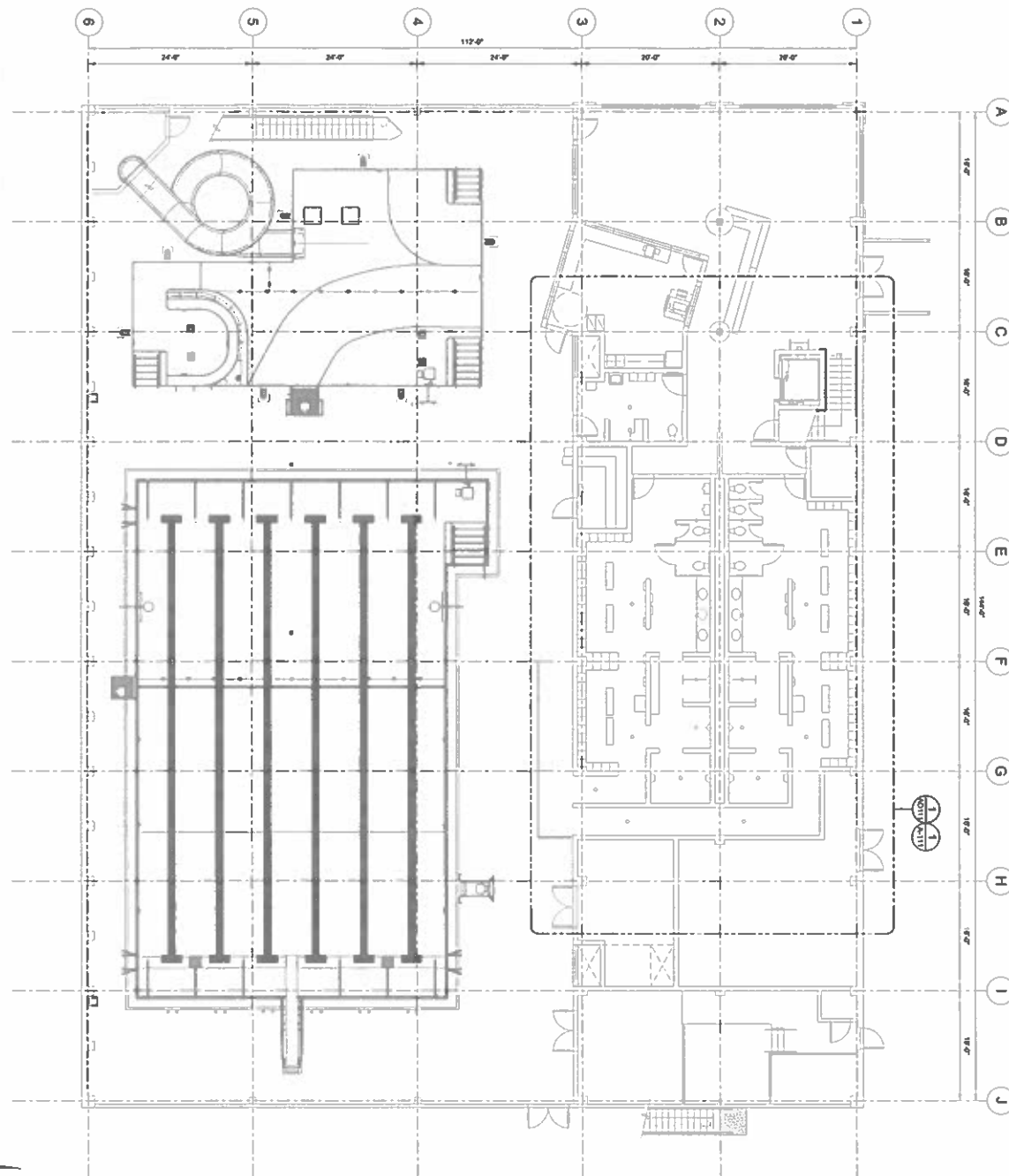
Juneau, AK
5420 Mendenhall Blvd. Ste. 4
Juneau, AK 99801
Phone: 907.586.1000
www.respec.com
AEOC 161070



CONSULTANT:

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

1
FIRST FLOOR REFERENCE PLAN
SCALE: 1/8" = 1'-0"



SHEET NOTES
1. FIELD VERIFY EXISTING CONDITIONS.

REVISIONS

A-101

PROJECT No. 0313.34002
SHEET NUMBER

SHEET TITLE:
REFERENCE PLAN
BID DOCUMENTS

PROJECT:
**PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS**
PETERSBURG, ALASKA 99833

CONSULTANT:

RESPEC
Juneau, AK
1100 Mendocino Blvd. Ste. 4
Juneau, AK 99801
Phone: 907.586.6000
www.respec.com
REG. #13370

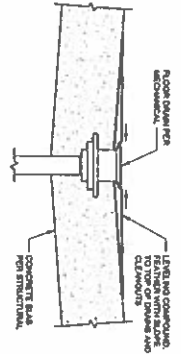


CONSULTANT:

SHEET NOTES

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CONSULTANT:

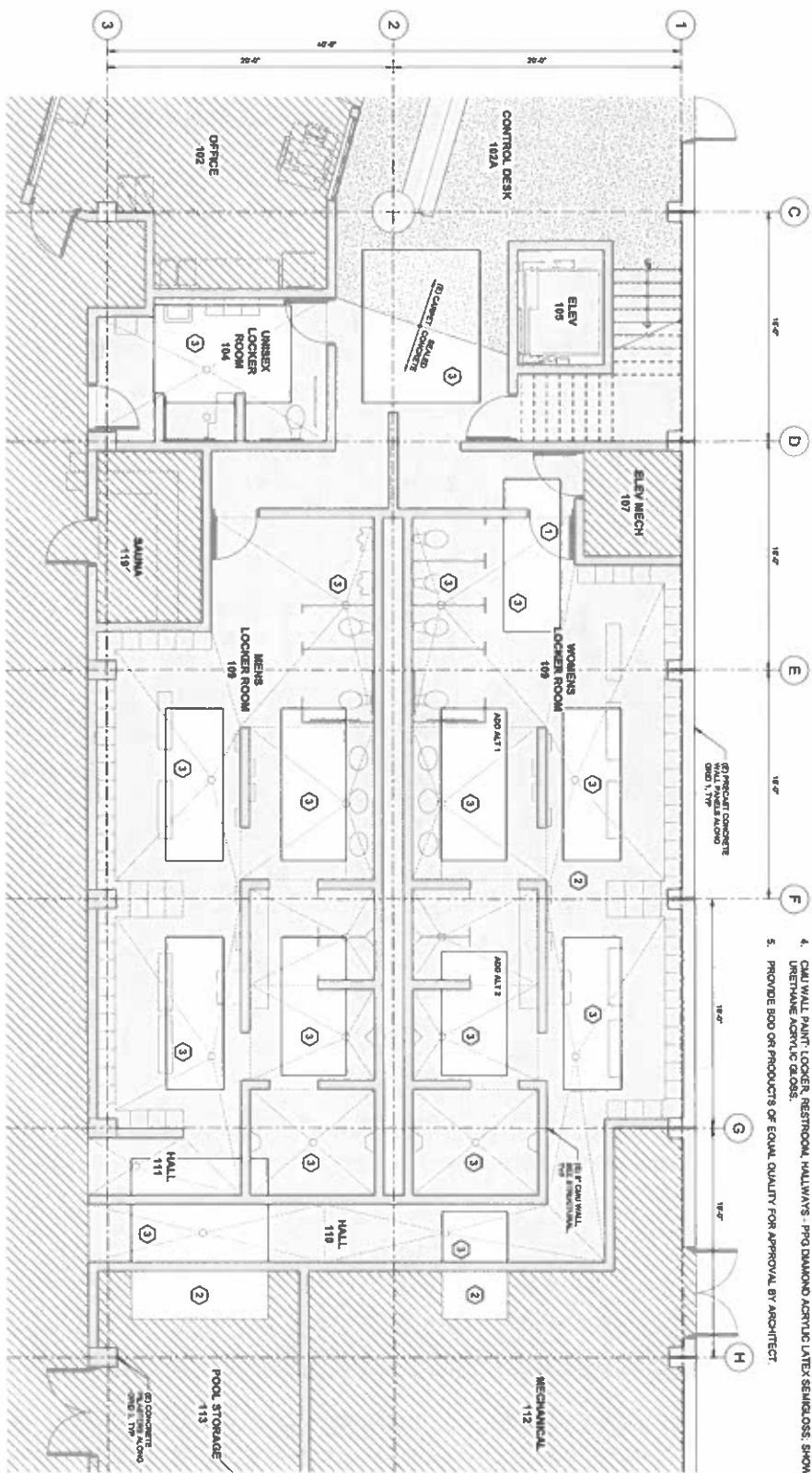


2 FLOOR DRAIN DETAIL
SCALE: 1/2" = 1'-0"

- FINISHES LEGEND**
- 1. EXISTING CARPET
 - 2. SEALED CONCRETE
 - 3. EXISTING FINISH TO REMAIN

- NEW WORK KEYNOTES (1)**
- 1. REINSTALL EXISTING DOOR FRAME, DOOR, AND HARDWARE.
 - 2. NEW AND EXISTING CONCRETE FLOORS SHALL BE SEALED.
 - 3. NEW CONCRETE FLOOR WILL SEE PER 1'-0" MINIMUM. INSTALL NEW FLOOR DRAINS WHERE REQUIRED. SEE MECHANICAL DRAWINGS FOR EXISTING AND NEW DRAIN LOCATIONS. NEW DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS: INSTALL DRAIN AND COMPOUND WITH POSITIVE SLOPE WHERE NEW DRAIN PROVIDED AT AREAS WHERE EXISTING SLABS TO REMAIN.

- SHEET NOTES**
- 1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN ACCOUNTING NEW WORK.
 - 2. REINSTALL EXISTING PARTS: CABINETS, CASEWORK, INCLUDING LOCKERS, BENCHES, TOILETS, SINKS, TOILET/URINAL PARTITIONS, ACCESSORIES UNLESS NOTED OTHERWISE. REFER TO EXISTING DRAWING SET FOR EXISTING LIST.
 - 3. INSTALL NEW 6" RUBBER BASE AT ALL LOCATIONS WHERE EXISTING TILE BASE HAS BEEN REMOVED AT CHU WALLS AND LOCKER BASES.
 - 4. REFER TO STRUCTURAL DRAWINGS FOR EXTENTS OF NEW CONCRETE FLOOR AND CHU WALL DEMOLITION. WHERE CHU WALL DEMO OR DAMAGE HAS OCCURRED, REPLACE AND/OR REPAIR CHU WALL AND PAINT ENTIRE WALL.
- BASIS OF DESIGN (BOD) FINISHES**
- 1. FLOOR LEVELING COMPOUND: ARDEX V 1000.
 - 2. CONCRETE FLOOR SEALER/COATING: SIKKA SIKKADUR-32 EPOXY COATING WITH CUSTOM COLOR KIT (AS SELECTED BY OWNER). PRIMER: SIKKA SIKKADUR-32 PRIMER. ANTI-SLIP ADDITIVE: BROADBAST SILICA SAND (20-40 MESH).
 - 3. RUBBER WALL BASE: ROPPE SERIES 700 6" NO TOE RUBBER WALL BASE.
 - 4. CHU WALL PAINT: LOCKER, RESTROOM, HALLWAYS - PPG DIAMOND ACRYLIC LATEX SEMI-GLOSS. SHOWERS - PPG BREAK-THROUGH URETHANE ACRYLIC GLOSS.
 - 5. PROVIDE BOD OR PRODUCTS OF EQUAL QUALITY FOR APPROVAL BY ARCHITECT.



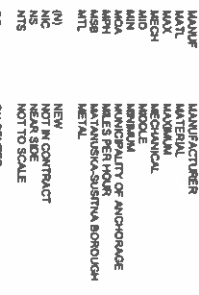
1 PARTIAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION

A-111	SHEET TITLE: PARTIAL FIRST FLOOR PLAN	PROJECT: PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS		CONSULTANT:
	BID DOCUMENTS	PETERSBURG, ALASKA 99833		
	DATE: 03/15/2002	PROJECT NO.: 0315-24002		

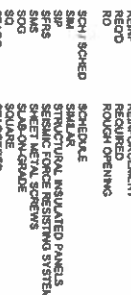
STRUCTURAL ABBREVIATIONS (CONTINUED)



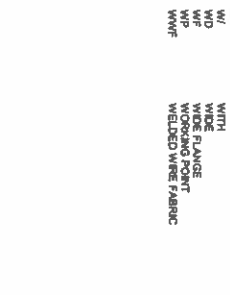
CWSL **OPEN WEB STEEL JOIST**



PLYWOOD WEB JOIST

STEEL
STRUCTURAL

V / VERT VERTICAL



STRUCTURAL DESIGN DATA

1.	RISK CATEGORY (PER RECORD DRAWINGS)	III
2.	LIVE LOADS:	
A.	FIRST FLOOR	100 PSF
B.	ROOF	20 PSF
C.	STAIRS & CORRIDORS	100 PSF
D.	MECHANICAL MEZZANINE	125 PSF
E.	MECHANICAL MEZZANINE	170 PSF
3.	SNOW LOADS:	
A.	GROUND SNOW LOAD	$P_g = 45 \text{ PSF (ORIGINAL 150 PSF CURRENT)}$
B.	EXPOSURE FACTOR	$C_e = 1.0$
C.	THERMAL FACTOR	$C_t = 1.0$
D.	IMPORTANCE FACTOR	$I_p = 1.1$
E.	ROOF SNOW LOAD	$P_s = 50 \text{ PSF (ORIGINAL 118 PSF CURRENT)}$
4.	WIND LOADS:	
A.	WIND SPEED	$V_{50} = 147 \text{ MPH}$
B.	WIND EXPOSURE CATEGORY	C
C.	IMPORTANCE FACTOR	$I_p = 1.00$
5.	SEISMIC LOADS:	
A.	SEISMIC FORCE RESISTING SYSTEM	
B.	SEISMIC DESIGN CATEGORY	
C.	CHL SHEAR WALLS	
D.	CONCRETE SPECIAL WALLS	
E.	CONCRETE SPECIAL WALLS	
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IA.	CONCRETE SPECIAL WALLS	
IB.	CONCRETE SPECIAL WALLS	
IC.	CONCRETE SPECIAL WALLS	
ID.	CONCRETE SPECIAL WALLS	
IE.	CONCRETE SPECIAL WALLS	
IF.	CONCRETE SPECIAL WALLS	
IG.	CONCRETE SPECIAL WALLS	
IH.	CONCRETE SPECIAL WALLS	
II.	CONCRETE SPECIAL WALLS	
IJ.	CONCRETE SPECIAL WALLS	
IK.	CONCRETE SPECIAL WALLS	
IL.	CONCRETE SPECIAL WALLS	
IM.	CONCRETE SPECIAL WALLS	
IN.	CONCRETE SPECIAL WALLS	
IO.	CONCRETE SPECIAL WALLS	
IP.	CONCRETE SPECIAL WALLS	
IQ.	CONCRETE SPECIAL WALLS	
IR.	CONCRETE SPECIAL WALLS	
IS.	CONCRETE SPECIAL WALLS	
IT.	CONCRETE SPECIAL WALLS	
IU.	CONCRETE SPECIAL WALLS	
IV.	CONCRETE SPECIAL WALLS	
IW.	CONCRETE SPECIAL WALLS	
IX.	CONCRETE SPECIAL WALLS	
IY.	CONCRETE SPECIAL WALLS	
IZ.	CONCRETE SPECIAL WALLS	
JA.	CONCRETE SPECIAL WALLS	
JB.	CONCRETE SPECIAL WALLS	
JC.	CONCRETE SPECIAL WALLS	
JD.	CONCRETE SPECIAL WALLS	
JE.	CONCRETE SPECIAL WALLS	
JF.	CONCRETE SPECIAL WALLS	
JG.	CONCRETE SPECIAL WALLS	
JH.	CONCRETE SPECIAL WALLS	
JI.	CONCRETE SPECIAL WALLS	
JJ.	CONCRETE SPECIAL WALLS	
JK.	CONCRETE SPECIAL WALLS	
JL.	CONCRETE SPECIAL WALLS	
JM.	CONCRETE SPECIAL WALLS	
JN.	CONCRETE SPECIAL WALLS	
JO.	CONCRETE SPECIAL WALLS	
JP.	CONCRETE SPECIAL WALLS	
JQ.	CONCRETE SPECIAL WALLS	
JR.	CONCRETE SPECIAL WALLS	
JS.	CONCRETE SPECIAL WALLS	
JT.	CONCRETE SPECIAL WALLS	
JU.	CONCRETE SPECIAL WALLS	
JV.	CONCRETE SPECIAL WALLS	
JW.	CONCRETE SPECIAL WALLS	
JX.	CONCRETE SPECIAL WALLS	
JY.	CONCRETE SPECIAL WALLS	
JZ.	CONCRETE SPECIAL WALLS	
KA.	CONCRETE SPECIAL WALLS	
KB.	CONCRETE SPECIAL WALLS	
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KD.	CONCRETE SPECIAL WALLS	
KE.	CONCRETE SPECIAL WALLS	
KF.	CONCRETE SPECIAL WALLS	
KG.	CONCRETE SPECIAL WALLS	
KH.	CONCRETE SPECIAL WALLS	
KI.	CONCRETE SPECIAL WALLS	
KJ.	CONCRETE SPECIAL WALLS	
KK.	CONCRETE SPECIAL WALLS	
KL.	CONCRETE SPECIAL WALLS	
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KN.	CONCRETE SPECIAL WALLS	
KO.	CONCRETE SPECIAL WALLS	
KP.	CONCRETE SPECIAL WALLS	
KQ.	CONCRETE SPECIAL WALLS	
KR.	CONCRETE SPECIAL WALLS	
KS.	CONCRETE SPECIAL WALLS	
KT.	CONCRETE SPECIAL WALLS	
KU.	CONCRETE SPECIAL WALLS	
KV.	CONCRETE SPECIAL WALLS	
KW.	CONCRETE SPECIAL WALLS	
KX.	CONCRETE SPECIAL WALLS	
KY.	CONCRETE SPECIAL WALLS	
KZ.	CONCRETE SPECIAL WALLS	
LA.	CONCRETE SPECIAL WALLS	
LB.	CONCRETE SPECIAL WALLS	
LC.	CONCRETE SPECIAL WALLS	
LD.	CONCRETE SPECIAL WALLS	
LE.	CONCRETE SPECIAL WALLS	
LF.	CONCRETE SPECIAL WALLS	
LG.	CONCRETE SPECIAL WALLS	
LH.	CONCRETE SPECIAL WALLS	
LI.	CONCRETE SPECIAL WALLS	
LJ.	CONCRETE SPECIAL WALLS	
LK.	CONCRETE SPECIAL WALLS	
LL.	CONCRETE SPECIAL WALLS	
LM.	CONCRETE SPECIAL WALLS	
LN.	CONCRETE SPECIAL WALLS	
LO.	CONCRETE SPECIAL WALLS	
LP.	CONCRETE SPECIAL WALLS	
LQ.	CONCRETE SPECIAL WALLS	
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LS.	CONCRETE SPECIAL WALLS	
LT.	CONCRETE SPECIAL WALLS	
LU.	CONCRETE SPECIAL WALLS	
LV.	CONCRETE SPECIAL WALLS	
LW.	CONCRETE SPECIAL WALLS	
LX.	CONCRETE SPECIAL WALLS	
LY.	CONCRETE SPECIAL WALLS	
LZ.	CONCRETE SPECIAL WALLS	
MA.	CONCRETE SPECIAL WALLS	
MB.	CONCRETE SPECIAL WALLS	
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MD.	CONCRETE SPECIAL WALLS	
ME.	CONCRETE SPECIAL WALLS	
MF.	CONCRETE SPECIAL WALLS	
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MI.	CONCRETE SPECIAL WALLS	
MJ.	CONCRETE SPECIAL WALLS	
MK.	CONCRETE SPECIAL WALLS	
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MM.	CONCRETE SPECIAL WALLS	
MN.	CONCRETE SPECIAL WALLS	
MO.	CONCRETE SPECIAL WALLS	
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MT.	CONCRETE SPECIAL WALLS	
MU.	CONCRETE SPECIAL WALLS	
MV.	CONCRETE SPECIAL WALLS	
MW.	CONCRETE SPECIAL WALLS	
MX.	CONCRETE SPECIAL WALLS	
MY.	CONCRETE SPECIAL WALLS	
MZ.	CONCRETE SPECIAL WALLS	
NA.	CONCRETE SPECIAL WALLS	
NB.	CONCRETE SPECIAL WALLS	
NC.	CONCRETE SPECIAL WALLS	
ND.	CONCRETE SPECIAL WALLS	
NE.	CONCRETE SPECIAL WALLS	
NF.	CONCRETE SPECIAL WALLS	
NG.	CONCRETE SPECIAL WALLS	
NH.	CONCRETE SPECIAL WALLS	
NI.	CONCRETE SPECIAL WALLS	
NJ.	CONCRETE SPECIAL WALLS	
NK.	CONCRETE SPECIAL WALLS	
NL.	CONCRETE SPECIAL WALLS	
NM.	CONCRETE SPECIAL WALLS	
NN.	CONCRETE SPECIAL WALLS	
NO.	CONCRETE SPECIAL WALLS	
NP.	CONCRETE SPECIAL WALLS	
NQ.	CONCRETE SPECIAL WALLS	
NR.	CONCRETE SPECIAL WALLS	
NS.	CONCRETE SPECIAL WALLS	
NT.	CONCRETE SPECIAL WALLS	
NU.	CONCRETE SPECIAL WALLS	
NV.	CONCRETE SPECIAL WALLS	
NW.	CONCRETE SPECIAL WALLS	
NX.	CONCRETE SPECIAL WALLS	
NY.	CONCRETE SPECIAL WALLS	
NZ.	CONCRETE SPECIAL WALLS	
OA.	CONCRETE SPECIAL WALLS	
OB.	CONCRETE SPECIAL WALLS	
OC.	CONCRETE SPECIAL WALLS	
OD.	CONCRETE SPECIAL WALLS	
OE.	CONCRETE SPECIAL WALLS	
OF.	CONCRETE SPECIAL WALLS	
OG.	CONCRETE SPECIAL WALLS	
OH.	CONCRETE SPECIAL WALLS	
OI.	CONCRETE SPECIAL WALLS	
OJ.	CONCRETE SPECIAL WALLS	
OK.	CONCRETE SPECIAL WALLS	
OL.	CONCRETE SPECIAL WALLS	
OM.	CONCRETE SPECIAL WALLS	
ON.	CONCRETE SPECIAL WALLS	
OO.	CONCRETE SPECIAL WALLS	
OP.	CONCRETE SPECIAL WALLS	
OQ.	CONCRETE SPECIAL WALLS	
OR.	CONCRETE SPECIAL WALLS	
OS.	CONCRETE SPECIAL WALLS	
OT.	CONCRETE SPECIAL WALLS	
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OW.	CONCRETE SPECIAL WALLS	
OX.	CONCRETE SPECIAL WALLS	
OY.	CONCRETE SPECIAL WALLS	
OZ.	CONCRETE SPECIAL WALLS	
PA.	CONCRETE SPECIAL WALLS	
PB.	CONCRETE SPECIAL WALLS	
PC.	CONCRETE SPECIAL WALLS	
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PF.	CONCRETE SPECIAL WALLS	
PG.	CONCRETE SPECIAL WALLS	
PH.	CONCRETE SPECIAL WALLS	
PI.	CONCRETE SPECIAL WALLS	
PJ.	CONCRETE SPECIAL WALLS	
PK.	CONCRETE SPECIAL WALLS	
PL.	CONCRETE SPECIAL WALLS	
PM.	CONCRETE SPECIAL WALLS	
PN.	CONCRETE SPECIAL WALLS	
PO.	CONCRETE SPECIAL WALLS	
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PR.	CONCRETE SPECIAL WALLS	
PS.	CONCRETE SPECIAL WALLS	
PT.	CONCRETE SPECIAL WALLS	
PU.	CONCRETE SPECIAL WALLS	
PV.	CONCRETE SPECIAL WALLS	
PW.	CONCRETE SPECIAL WALLS	
PX.	CONCRETE SPECIAL WALLS	
PY.	CONCRETE SPECIAL WALLS	
PZ.	CONCRETE SPECIAL WALLS	
QA.	CONCRETE SPECIAL WALLS	
QB.	CONCRETE SPECIAL WALLS	
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QD.	CONCRETE SPECIAL WALLS	
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RW.	CONCRETE SPECIAL WALLS	
RX.	CONCRETE SPECIAL WALLS	
RY.	CONCRETE SPECIAL WALLS	
RZ.	CONCRETE SPECIAL WALLS	
SA.	CONCRETE SPECIAL WALLS	
SB.	CONCRETE SPECIAL WALLS	
SC.	CONCRETE SPECIAL WALLS	
SD.	CONCRETE SPECIAL WALLS	
SE.	CONCRETE SPECIAL WALLS	
SF.	CONCRETE SPECIAL WALLS	
SG.	CONCRETE SPECIAL WALLS	
SH.	CONCRETE SPECIAL WALLS	
SI.	CONCRETE SPECIAL WALLS	
SJ.	CONCRETE SPECIAL WALLS	
SK.	CONCRETE SPECIAL WALLS	
SL.	CONCRETE SPECIAL WALLS	
SM.	CONCRETE SPECIAL WALLS	
SN.	CONCRETE SPECIAL WALLS	
SO.	CONCRETE SPECIAL WALLS	
SP.	CONCRETE SPECIAL WALLS	
SQ.	CONCRETE SPECIAL WALLS	
SR.	CONCRETE SPECIAL WALLS	
SS.	CONCRETE SPECIAL WALLS	
ST.	CONCRETE SPECIAL WALLS	
SU.	CONCRETE SPECIAL WALLS	
SV.	CONCRETE SPECIAL WALLS	
SW.	CONCRETE SPECIAL WALLS	
SX.	CONCRETE SPECIAL WALLS	
SY.	CONCRETE SPECIAL WALLS	
SZ.	CONCRETE SPECIAL WALLS	
TA.	CONCRETE SPECIAL WALLS	
TB.	CONCRETE SPECIAL WALLS	
TC.	CONCRETE SPECIAL WALLS	
TD.	CONCRETE SPECIAL WALLS	
TE.	CONCRETE SPECIAL WALLS	
TF.	CON	

STRUCTURAL GENERAL NOTES

1. THE SCOPE OF WORK IS TO REPAIR THE EXISTING STEEL BEAM, THE EXISTING CONCRETE SLAB, AND THE EXISTING STEEL COLUMN. THE EXISTING STEEL BEAM IS LOCATED BELOW THE FIRST FLOOR SLAB. THE EXISTING CONCRETE SLAB IS LOCATED ABOVE THE FIRST FLOOR SLAB. THE EXISTING STEEL COLUMN IS LOCATED ABOVE THE FIRST FLOOR SLAB. THE EXISTING STEEL BEAM IS SUPPORTED BY CONCRETE BEAMS AND COLUMNS, WHICH ARE FOUNDED ON STEEL PILES.

2. THE EXISTING STRUCTURAL, FLOOR SLAB MUST BE DEMOLISHED AND REPLACED AS INDICATED TO PROVIDE ACCESS TO THE UNDERFLOOR SYSTEM.

3. THE EXISTING INTERIOR GROUND PARTITION WALLS MUST BE SHOWN IN PLACE OR REMOVED AND REINSTALLED. ALL THE EXISTING INTERIOR GROUND PARTITION WALLS MUST BE SHOWN IN PLACE. ALL SHORING OR EXISTING WALLS IS PART OF THE DELEGATED DESIGN. FOR MORE INFORMATION, SEE THE STRUCTURAL DELEGATED DESIGN NOTES.

4. THE INTERNATIONAL BUILDING CODE (IBC) 2015 AND ITS REFERENCED STANDARDS, HEREIN REFERRED TO AS "THE CODE", AND OTHER REGULATORY CRITERIA WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

5. THIS WORK INVOLVES EXISTING STRUCTURES. PERFORM THE FOLLOWING TASKS PRIOR TO STARTING CONSTRUCTION:

A. SURVEY AND FIELD VERIFY ALL EXISTING CONDITIONS ASSOCIATED WITH THE WORK.

B. INVESTIGATE THE SITE RECORD, CLARIFY AN EXISTING WORK, OPERATIONS FOR FIELD EXCAVATIONS OR BURIED STRUCTURES, SUCH AS FOUNDATIONS, ETC.

C. ALL PERSONS ON OR NEAR THE SITE BETWEEN A PERIOD OF THE CONSTRUCTION DOCUMENTS MUST BE PROMPTED TO THE MAINTENANCE ATTENTION OF THE NUMBER OF RECORD, PRIOR TO PROCEEDING WITH THE RELATED WORK.

6. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONSTRUCTION LOADS MUST NOT EXCEED THE DESIGN LIVE LOADS.

7. IF THE STRUCTURAL ENGINEER OF RECORD IS NOT RETAINED BY THE OWNER TO OVERSEE CONSTRUCTION ACTIVITIES, THE STRUCTURAL ENGINEER OF RECORD IS NOT IN RESPONSIBLE CHANGE OF THE CONSTRUCTION RECORD IN FULL OF THE CODE, CONSTRUCTION DOCUMENTS, AND/OR THE DESIGN. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, INSPECTION AND STRUCTURAL OBSERVATION REPORTS, REVIEW OF SUBMITTAL DOCUMENTS, AND REVIEW OF DELEGATED DESIGN SUBMITTALS.

8. THE FOLLOWING ITEMS ARE PART OF THE MATERIAL, FORCE RESISTING SYSTEM (FRS):

A. PRECAST CONCRETE BEAM WALLS, GROUND FLOORS, STEEL BEAMED FRAMES, GROUND FLOORS, CONCRETE FLOORS, IN MEZANINE AND DRIVWAY FLOORS, ROOF DECK, AND ALL ASSOCIATED CONNECTIONS.

9. THE DESIGN OF THE FOLLOWING ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR:

A. ALL SHORING OF EXISTING BUILDING ELEMENTS REQUIRED TO COMPLETE THE WORK, INCLUDING BUT NOT LIMITED TO:

B. INTERIOR GROUND PARTITION WALLS

C. INTERIOR GROUND PARTITION WALLS

D. INTERIOR GROUND PARTITION WALLS

E. INTERIOR GROUND PARTITION WALLS

F. INTERIOR GROUND PARTITION WALLS

G. INTERIOR GROUND PARTITION WALLS

H. INTERIOR GROUND PARTITION WALLS

I. INTERIOR GROUND PARTITION WALLS

J. INTERIOR GROUND PARTITION WALLS

K. INTERIOR GROUND PARTITION WALLS

L. INTERIOR GROUND PARTITION WALLS

M. INTERIOR GROUND PARTITION WALLS

N. INTERIOR GROUND PARTITION WALLS

O. INTERIOR GROUND PARTITION WALLS

P. INTERIOR GROUND PARTITION WALLS

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R. INTERIOR GROUND PARTITION WALLS

S. INTERIOR GROUND PARTITION WALLS

T. INTERIOR GROUND PARTITION WALLS

U. INTERIOR GROUND PARTITION WALLS

V. INTERIOR GROUND PARTITION WALLS

W. INTERIOR GROUND PARTITION WALLS

X. INTERIOR GROUND PARTITION WALLS

Y. INTERIOR GROUND PARTITION WALLS

Z. INTERIOR GROUND PARTITION WALLS

AA. INTERIOR GROUND PARTITION WALLS

AB. INTERIOR GROUND PARTITION WALLS

AC. INTERIOR GROUND PARTITION WALLS

AD. INTERIOR GROUND PARTITION WALLS

AE. INTERIOR GROUND PARTITION WALLS

AF. INTERIOR GROUND PARTITION WALLS

AG. INTERIOR GROUND PARTITION WALLS

AH. INTERIOR GROUND PARTITION WALLS

AI. INTERIOR GROUND PARTITION WALLS

AJ. INTERIOR GROUND PARTITION WALLS

AK. INTERIOR GROUND PARTITION WALLS

AL. INTERIOR GROUND PARTITION WALLS

AM. INTERIOR GROUND PARTITION WALLS

AN. INTERIOR GROUND PARTITION WALLS

AO. INTERIOR GROUND PARTITION WALLS

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AW. INTERIOR GROUND PARTITION WALLS

AX. INTERIOR GROUND PARTITION WALLS

AY. INTERIOR GROUND PARTITION WALLS

AZ. INTERIOR GROUND PARTITION WALLS

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BC. INTERIOR GROUND PARTITION WALLS

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BJ. INTERIOR GROUND PARTITION WALLS

BK. INTERIOR GROUND PARTITION WALLS

BL. INTERIOR GROUND PARTITION WALLS

BM. INTERIOR GROUND PARTITION WALLS

BN. INTERIOR GROUND PARTITION WALLS

BO. INTERIOR GROUND PARTITION WALLS

BP. INTERIOR GROUND PARTITION WALLS

BQ. INTERIOR GROUND PARTITION WALLS

BR. INTERIOR GROUND PARTITION WALLS

BS. INTERIOR GROUND PARTITION WALLS

BT. INTERIOR GROUND PARTITION WALLS

BU. INTERIOR GROUND PARTITION WALLS

BV. INTERIOR GROUND PARTITION WALLS

BW. INTERIOR GROUND PARTITION WALLS

BX. INTERIOR GROUND PARTITION WALLS

BY. INTERIOR GROUND PARTITION WALLS

BZ. INTERIOR GROUND PARTITION WALLS

CA. INTERIOR GROUND PARTITION WALLS

CB. INTERIOR GROUND PARTITION WALLS

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CD. INTERIOR GROUND PARTITION WALLS

CE. INTERIOR GROUND PARTITION WALLS

CF. INTERIOR GROUND PARTITION WALLS

CG. INTERIOR GROUND PARTITION WALLS

CH. INTERIOR GROUND PARTITION WALLS

CI. INTERIOR GROUND PARTITION WALLS

CJ. INTERIOR GROUND PARTITION WALLS

CK. INTERIOR GROUND PARTITION WALLS

CL. INTERIOR GROUND PARTITION WALLS

CM. INTERIOR GROUND PARTITION WALLS

CN. INTERIOR GROUND PARTITION WALLS

CO. INTERIOR GROUND PARTITION WALLS

CP. INTERIOR GROUND PARTITION WALLS

CQ. INTERIOR GROUND PARTITION WALLS

CR. INTERIOR GROUND PARTITION WALLS

CS. INTERIOR GROUND PARTITION WALLS

CT. INTERIOR GROUND PARTITION WALLS

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CV. INTERIOR GROUND PARTITION WALLS

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FF. INTERIOR GROUND PARTITION WALLS

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HI. INTERIOR GROUND PARTITION WALLS

HJ. INTERIOR GROUND PARTITION WALLS

HK. INTERIOR GROUND PARTITION WALLS

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HM. INTERIOR GROUND PARTITION WALLS

HN. INTERIOR GROUND PARTITION WALLS

HO. INTERIOR GROUND PARTITION WALLS

HP. INTERIOR GROUND PARTITION WALLS

HQ. INTERIOR

STRUCTURAL CONCRETE NOTES

- PERFORM ALL CONCRETE WORK IN ACCORDANCE WITH CHAPTER 19 OF THE IBC, AND ALL APPLICABLE STANDARDS.
- USE NORMAL WEIGHT (150 PCF) CAST-IN-PLACE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTH (F_C) AS FOLLOWS:

CONDITION	MINIMUM STRENGTH (PSI)	EXPOSURE CATEGORY	MAX W/C RATIO	AIR ENTRAINMENT
FLOOR SLAB	5,000	F9, S0, W2, C3	0.50	0%

STRUCTURAL MASONRY NOTES

COMPONENT	REQUIRED STRENGTH	MATERIAL NOTES
CHUB BLOCKS	$F_{ax} = 2,250$ PSI (MIN)	ASTM C-90, NOMINAL WEIGHT
MORTAR	$F_c = 3,000$ PSI (MIN)	ASTM C-70, TYPE S OR M
GROUT	$F_c = 2,250$ PSI (MIN)	ASTM C-75
MASONRY ASSEMBLY	$F_m = 2,250$ PSI	NET AREA COMPRESSIVE STRENGTH

STRUCTURAL CONCRETE ANCHOR NOTES

1. USE THE FOLLOWING POST INSTALLED ANCHORS OR APPROVED EQUALS:
 - A. ADHESIVE ANCHORS: M-11 HIT E-80 UG EPOXY
 - B. REBAR EMBEDD: M-11 HIT E-80 UG EPOXY; OR M-11 HIT E-80
- C. EXPANSION ANCHORS: M-11 HYV BOLT-T 82504 OR 316
- D. THE SIZE, ORIENTATION, SPACING, AND ADDITIONAL REQUIREMENTS AS INDICATED ON THE DRAWINGS.
2. MEET THE MINIMUM EMBEDMENT, EMBED DISTANCE, AND SPACING REQUIREMENTS OF THE AIAI-100-PSI REPORT FOR POST INSTALLED CONCRETE ANCHORS AND REBARS.
3. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL, WHEN PLACING POST INSTALLED ANCHORS INTO OR EXISTING CONCRETE.
4. DO NOT SUBSTITUTE CAST-IN-PLACE BOLT'S AND RODS WITH M-11. INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OR RECORD.
5. USE HOT-DIPPED GALVANIZED OR STAINLESS STEEL ANCHORS WHEN EXPOSED TO EXTERIOR OR DAMP CONDITIONS, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
6. INSTALL AND TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT IBC CODE AND THE APPLICABLE AIAI-PSI REPORT.
7. PERFORM ALL TESTING IN THE PRESENCE OF THE PROJECT INSPECTOR OR RECORD.

GENERAL NOTES

BID DOCUMENTS

PROJECT :
PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS

PETERSBURG, ALASKA 99833



CONSULTANT

S-002

SPECIAL INSPECTION NOTES

1. ALL SPECIAL INSPECTIONS AND TESTING REQUIREMENTS PER SECTION 1704 OF THE B.C. BUILDING ACT SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. PROVIDED.
2. THE OWNER OR OWNERS AGENT OTHER THAN THE CONTRACTOR SHALL EMPLOY QUALIFIED PERSONNEL TO SUPERVISE THE SPECIAL INSPECTIONS AND TESTING. SECTION 1705 OF THE B.C. SPECIAL INSPECTION AGENCIES SHALL BE QUALIFIED PER 1701.2.1 OF THE B.C. BUILDING ACT.
3. THE SPECIAL INSPECTORS SHALL AT A MINIMUM PROVIDE SPECIAL INSPECTION REGARDING TO THE DESIGN OF THE CONSTRUCTION OF THE FOUNDATION, STRUCTURAL, AND ELECTRICAL RECORDS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE NOTICE OF THE CONTRACTOR, OWNER OR OWNERS AUTHORIZED AGENT (ARCHITECT, AND THE ENGINEER OF RECORD).
4. THE SPECIAL INSPECTORS SHALL SUBMIT A FINAL SCORED REPORT DOCUMENTING ALL SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS ON TESTS.
5. QUALITY ASSURANCE AS REQUIRED BY TABLES ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE OWNERS REPRESENTATIVE. QUALITY CONTROL AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES SHALL BE PROVIDED BY THE FABRICATOR AND ANNOTOR.
6. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS OF ADVANCE NOTICE PRIOR TO A REQUIRED SPECIAL INSPECTION AND PROVIDE ACCESS TO THE SITE AS REQUIRED FOR THE SPECIAL INSPECTION TO COMPLETE THEIR WORK.
7. THE COST OF ANY REINSPECTION REQUIRED DUE TO CONSTRUCTION ERROR IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. NOTES:
- A. QC - QUALITY CONTROL, TO BE PROVIDED BY THE FABRICATOR AND EJECTOR, PER ASCE 360 CHAPTER 11.
- B. QA - QUALITY ASSURANCE, TO BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION. BUILDING CODE, PURCHASER, OWNER, OR ENGINEER OF RECORD, PER ASCE 360 CHAPTER 11.
- C. D. - OBSERVE THESE ITEMS ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- E. P - PERFORM THESE TASKS FOR EACH JOINT OR MEMBER
- F. D - DOCUMENT INSPECTION ACTIVITIES.
- F. FREQUENCY
- A. P - PERIODIC
- B. C - CONTINUOUS

STRUCTURAL OBSERVATION NOTES

1. THE OWNER, OWNERS, AUTHORIZED AGENT SHALL EMPLOY A STRUCTURAL ENGINEER, WITH LICENSE NO. _____, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1714.4 OF THE DEC.
2. THE BUILDING OFFICIAL, A WRITTEN STATEMENT IDENTIFYING THE PRECEDENT AND EXTENT OF STRUCTURAL OBSERVATIONS.
3. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT THE SITE'S RISKING HAVE BEEN MADE TO THE REQUIRED DEGREE OF CONFIDENCE THAT THE BUILDING OFFICIAL'S KNOWLEDGE HAVE NOT BEEN RESOLVED.

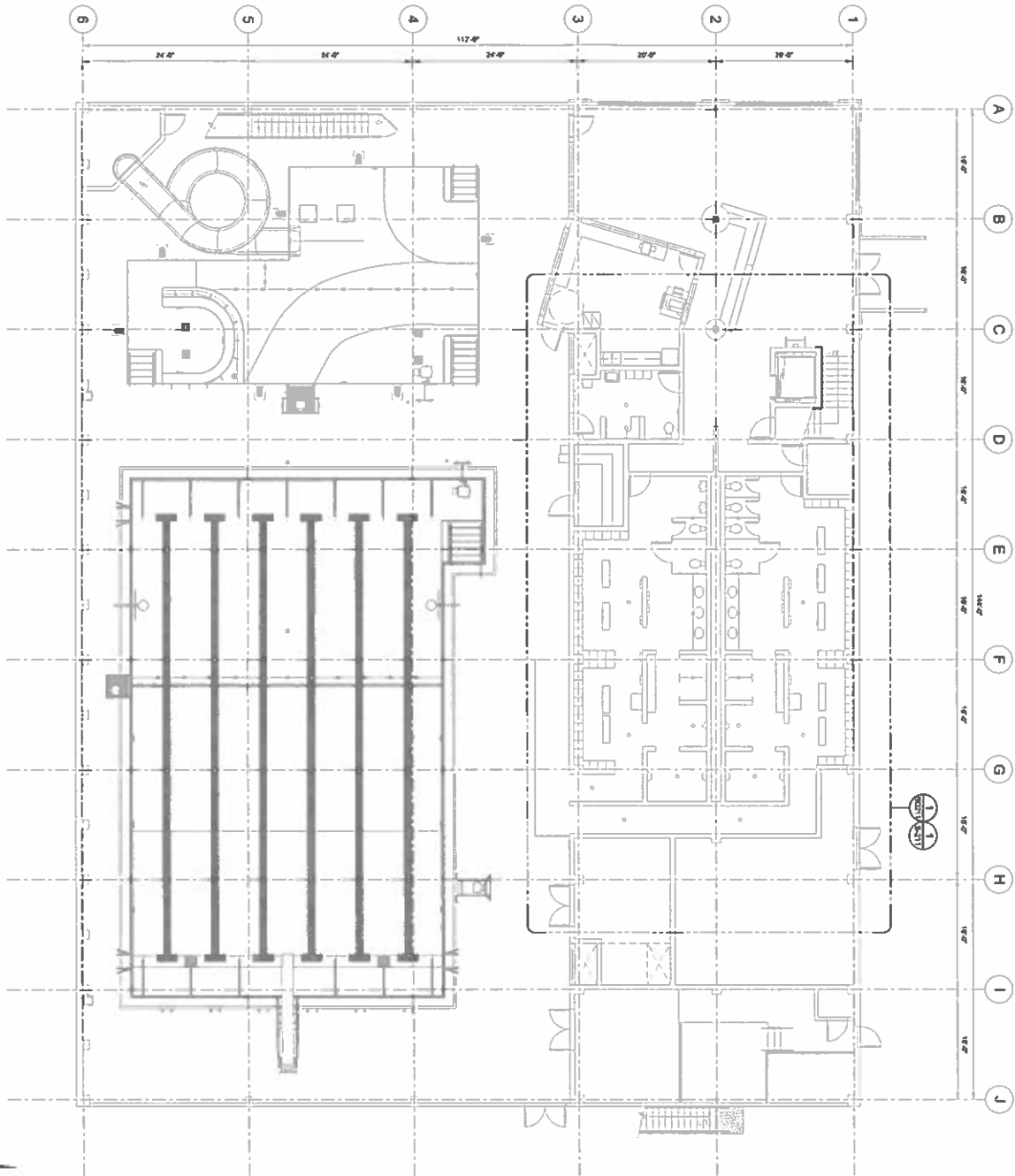
TABLE 1. REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TABLE 1 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION	
REFERENCE: BCI, TABLE 1706.3 AND ASSOCIATED SECTIONS FROM AC308.1R-19	
REQUIRED VERIFICATION AND INSPECTION	FREQUENCY
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	P
2. REINFORCING BAR WELDING.	P
3. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	P
4. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND C.	C
5. INSPECT ALL OTHER WELDS.	P
6. INSPECT ANCHORS CAST IN CONCRETE.	P
7. INSPECT ANCHORS NOT INSTALLED IN HARDENED CONCRETE MEMBERS.	P
8. ADHESIVE ANCHORS INSTALLED IN HARDENED OR PRIMARILY INCLINED OBSERVATIONS TO SELECT TESTED AND REGIONAL DATA.	C
9. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN I.A.	P
10. VERIFY TYPE OF REQUIRED DESIGN MIX.	P
11. PROOF OF CONCRETE PLACEMENT, PARALLEL SPECIMENS FOR STRENGTH TESTS, PERFORMED ON AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	C
12. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	C
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	P
14. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	P

TABLE 2. REQUIRED SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

TABLE 2 - REQUIRED SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION	
REFERENCE BOB SECTION 1705.4 AND THIS AND SECTION 1.8	FREQUENCY
REQUIRED VERIFICATION AND INSPECTION	
1. MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	
A. PROPORTIONS OF SITE-PREPARED MORTAR	P
B. QUANTITY, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	P
2. PRIOR TO CASTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	
A. GROUT SPACE	C
B. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	C
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION	
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBSTITUTALS	C
B. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	C
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	P
D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE, AND MORTAR JOINTS, INCLUDING WEBS, FRAMES, OR OTHER CONSTRUCTION	C
E. WELDING OF REINFORCEMENT	C
4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE OVER 90°F)	P
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND PRISMS	C

1
FIRST FLOOR FOUNDATION AND SLAB PLAN
SCALE: 1/8" = 1'-0"



SHEET NOTES

1. FIELD VERIFY EXISTING CONDITIONS.
2. MATERIAL EXCAVATED FROM BELOW THE FIRST FLOOR SLAB MAY NOT BE STORED ON THE FLOOR SLAB. AN APPROXIMATE LOCATION FOR STORAGE OF MATERIAL OUTSIDE OF THE BUILDING IS INDICATED. COORDINATE THE FINAL LOCATION WITH OWNER.

NO.	REVISIONS

S-201

PROJECT: PETERSBURG AQUATIC CENTER
SHEET: S-201
DATE: 03/15/2025
PROJECT NO: 0315-24002

SHEET TITLE:
REFERENCE PLAN

BID DOCUMENTS

PROJECT:
PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS

PETERSBURG, ALASKA 99833

Juneau, AK
8100 Mendocino Blvd Ste 2
Juneau, AK 99801
Phone: 907-586-4300
www.respec.com
ARCIC 482978



CONSULTANT:

1
50211
FIRST FLOOR
SCALE: 1/4" = 1'-0"



EXISTING FLOOR SCHEDULE	
TYPE	FLOOR DESCRIPTION
E1	EXISTING 8" ELEVATED CONCRETE SLAB REINFORCED WITH #5 BARS AT 6" OC, TOP AND BOTTOM, IN SPAN DIRECTION AND #4 BARS AT 1'-6" OC IN PERPENDICULAR DIRECTION, TOP AND BOTTOM.

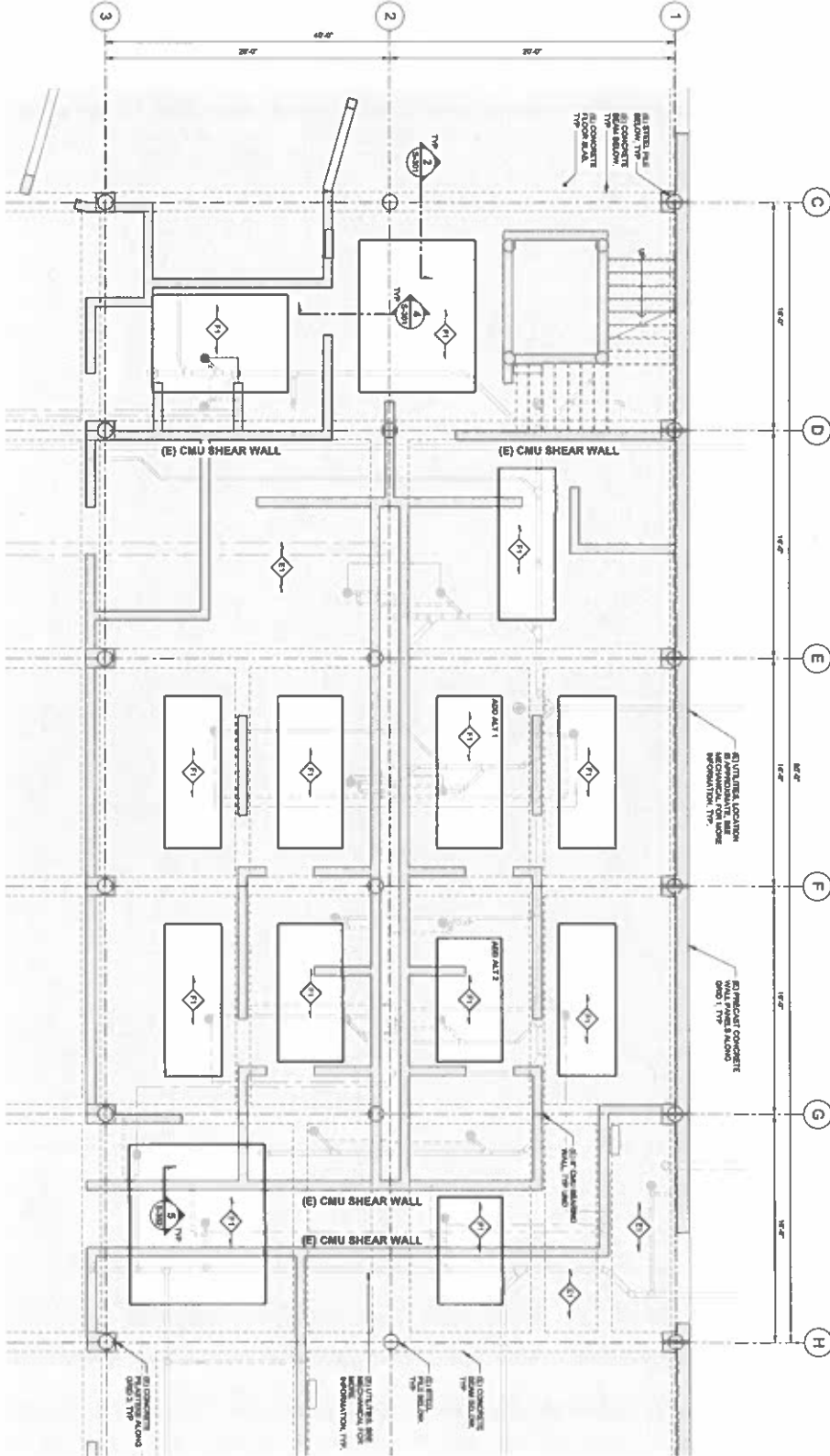
SHORING AND DEMOLITION LEGEND

- | | |
|---|--|
| 1. 8" CMU PARTITION WALL SHORING:
(SEE SHEET NOTE 3) | 3. SAW CUT EXTENTS:
 |
| 2. 8" CMU SHEAR WALL SHORING:
(SEE SHEET NOTE 4) | 4. CHIP OUT EXTENTS:
(SEE SHEET NOTE 2) |

SHEET NOTES

1. FIELD VERIFY EXISTING CONDITIONS.
2. CHIP OUT EXISTENCE ARE THE MAXIMUM EXTENT OF DAMAGE TO THE EXISTING FLOOR SLAB ALLOWED IN ORDER TO EXPOSE THE EXISTING SLAB REPAIR FOR CONNECTION TO NEW SLAB REPAIR.
3. PROVIDE SHORING FOR ALL INDICATED EXISTING CMU WALLS AS NECESSARY TO PROTECT FROM DAMAGE. THE CMU WALLS MAY BE REMOVED AND REPLACED TO MATCH EXISTING AT THE CONTRACTORS OPTION. SEE REMOVAL AND REPAIR DETAILS ON SHEET S-302.
4. PROVIDE SHORING FOR ALL INDICATED EXISTING CMU SHEAR WALLS.
5. ADDITIVE ALTERATIONS:
 - A. REMOVE THE REELS OF THE FIRST FLOOR SLAB WHICH MAY NEED TO BE REMOVED TO REPAIR THE EXISTING UTILITY. SEE MECHANICAL FOR MORE DETAILS.
6. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR BUILDING SLAB.

1 FIRST FLOOR FOUNDATION AND SLAB PLAN
SCALE: 1/4" = 1'-0"



FLOOR SCHEDULE	
TYPE	DESCRIPTION
E1	EXISTING 8" ELEVATED CONCRETE SLAB REINFORCED WITH #5 BARS AT 8" O.C. TOP AND BOTTOM, IN SPAN DIRECTION AND #4 BARS AT 1'-0" O.C. IN PERPENDICULAR DIRECTION, TOP AND BOTTOM.
F1	8" ELEVATED CONCRETE SLAB REINFORCED WITH #5 BARS AT 8" O.C. TOP AND BOTTOM, IN SPAN DIRECTION AND #4 BARS AT 1'-0" O.C. IN PERPENDICULAR DIRECTION, TOP AND BOTTOM.

SHEET NOTES

1. FIELD VERIFY EXISTING CONDITIONS.
2. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR BUILDING SLAB.
3. ADDITIVE ALTERNATES:
 - A. ADD-ALT 1 AND 2 ARE AREAS WHICH MAY NEED TO BE REMOVED TO PROVIDE SUPPORT FOR THE EXISTING PERIM.SEE RECOMMEND FOR MORE DETAILS.

1/4" = 1'-0"

S-211

PARTIAL FOUNDATION AND SLAB PLAN

BID DOCUMENTS

PROJECT:

PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS

PETERSBURG, ALASKA 99833

CONSULTANT:

RESPEC

Juneau, AK

1900 Mendocino Blvd, Ste 1

Juneau, AK 99801

Phone: (907) 586-8800

www.respec.com

AK DEC 16-2019

CONSULTANT:

RESPEC

Juneau, AK

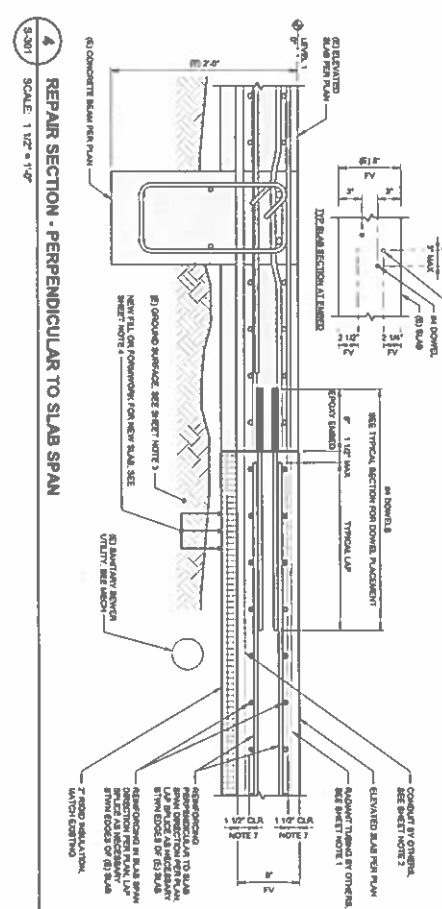
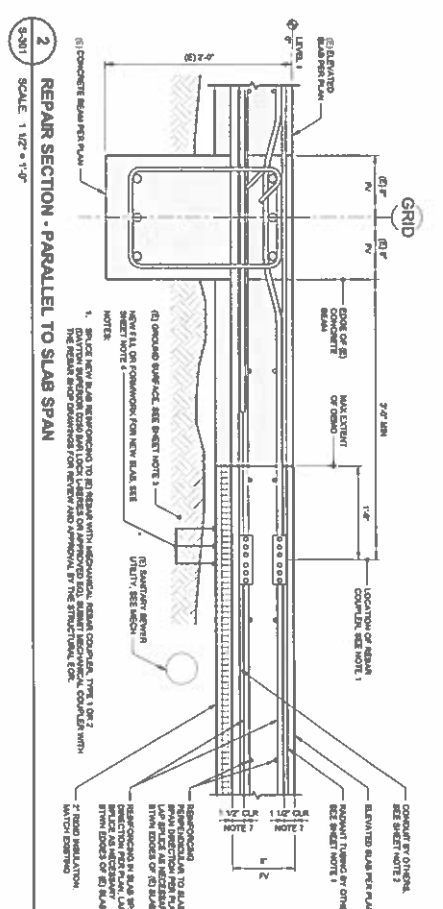
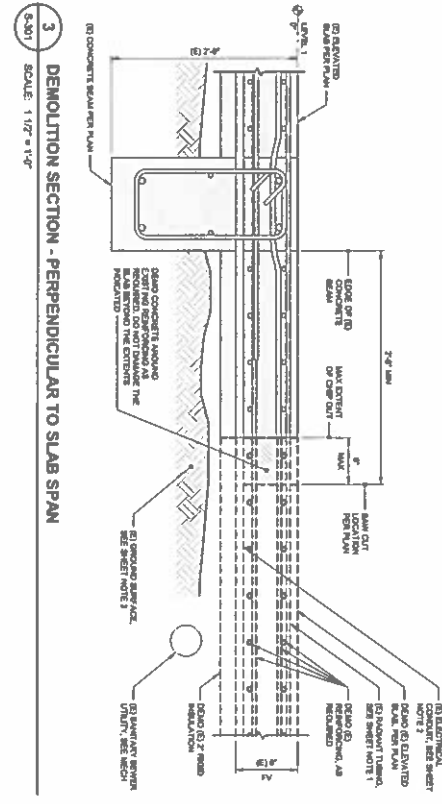
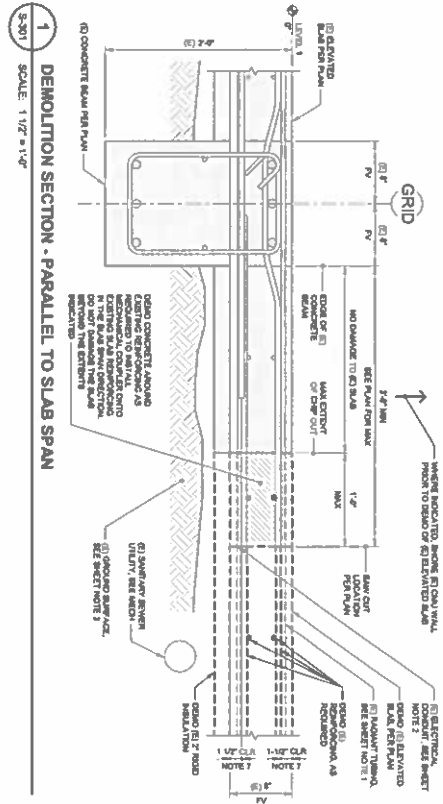
1900 Mendocino Blvd, Ste 1

Juneau, AK 99801

Phone: (907) 586-8800

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AK DEC 16-2019



- SHEET NOTES**
1. RADIANT HEAT TUBING IS PRESENT WITHIN THE EXISTING FLOOR SLAB. SEE MECHANICAL FOR DEMO AND REPAIR DETAILS.
 2. UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL CONDUIT, ARE LOCATED IN THE EXISTING FLOOR SLAB. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES DURING DEMO AND REPAIR OPERATIONS. SEE ELECTRICAL AND MECHANICAL FOR DEMO AND REPAIR DETAILS IF UTILITIES ARE ENCOUNTERED.
 3. THE EXISTING GROUND SURFACE MAY VARY. THE GRADE BELOW THE FLOOR SLAB MAY HAVE SETTLED SINCE ITS ORIGINAL CONSTRUCTION. THE CONTRACTOR MUST TAKE ALL MEASURES NECESSARY TO ACCOUNT FOR THE VARIABLE SURFACE OF THE EXISTING SUBGRADE.
 4. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF FORMWORK TO SUPPORT THE NEW FLOOR SLAB.
 5. AT EXISTING TO NEW SURFACES.
 6. EXISTING CMU WALLS NOT SHOWN IN TYPICAL DETAILS FOR CLARITY. SHEET S-301 ONE, Y.
 7. MATCH EXISTING CLEAR DIMENSIONS, IF THE DIMENSION VARIES BY MORE THAN 1/2" FROM WHAT IS SHOWN, NOTIFY THE ENGINEER OF RECORD IN A TIMELY MANNER.
 8. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR SLAB.

NO.	DATE	REVISIONS

S-301 SHEET NUMBER 0015-0007-01	SHEET TITLE: FOUNDATION DETAILS	PROJECT: PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS	Juneau, AK 5100 Main Street, Suite 100 Juneau, AK 99801 Phone: 907.586.8800 www.respec.alaska.net AECC 16270	CONSULTANT:
	BID DOCUMENTS	PETERSBURG, ALASKA 99833		



- | REVISIONS | By | Date | By |
|-----------|----|------|----|
| | | | |

PART 1 - GENERAL

1. **DESCRIPTION.**
A. PROVIDE LABOR, MATERIALS, EQUIPMENT, SUPERVISION OF LABOR, AND PERFORMANCE OF OPERATIONS REQUIRED TO INSTALL MECHANICAL AND PLUMBING SYSTEMS AS DEFINED HEREIN ON THE DRAWINGS AND GENERAL SPECIFICATIONS.
2. **COOE.**
A. COMPLETE WORK IN ACCORDANCE WITH THE 2021 EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC), NATIONAL ELECTRICAL CODE (NEC) AND 2017 EDITIONS OF THE UNIFORM PLUMBING CODE (UPC), AND ANY CITY, COUNTY OR FEDERAL, STATE OR FEDERAL, AND STANDARD APPROVED INDUSTRY PRACTICES.
3. **DRAWINGS.**
A. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
B. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
C. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
D. COOE, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS, OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
4. **COORDINATION.**
A. COORDINATE WORK UNDER THIS DIVISION WITH WORK OF OTHER TRADES TO AVOID CONFLICTS, INTERFERENCE, AND CONFLICTS WITH THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CONTRACTORS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION.
5. **EQUIPMENT SUBSTITUTIONS.**
A. EQUIPMENT SUBSTITUTIONS ARE REPRESENTATIVE OF THE STANDARD OF QUALITY.
B. SUBSTITUTIONS WILL BE CONSIDERED IF THE CONTRACTOR DEMONSTRATES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, THAT THE SUBSTITUTES ARE OF EQUAL, OR BETTER QUALITY.
6. **PRODUCTS.**
A. PROVIDE PRODUCTS AND MATERIALS NEW AND UNLIZED, UNLESS OTHERWISE NOTED.
B. OBTAIN OWNER'S APPROVAL OF PRODUCTS AND MATERIALS PRIOR TO ORDERING OR INSTALLING PARTS OF SYSTEMS.
7. **SUBMITTALS.**
A. PROVIDE PRODUCT SUBMITTALS FOR MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS.
B. INCLUDE DIMENSIONS, WEIGHTS, CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS, AND PERFORMANCE DATA FOR MATERIALS AND EQUIPMENT.
C. INCLUDE DEVIATIONS FROM THESE SPECIFICATIONS OR BASIS OF DESIGN, INDEX AND IDENTIFY SUBSTITUTIONS FOR GENERAL DESIGN AND ARRANGEMENT AND DOES NOT RELIEVE THE CONTRACTOR FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTAL REVIEW DOES NOT INCLUDE CHECKING FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION.
D. SUBMITTALS SHALL BE IN ACCORDANCE WITH SECTIONS LABELED AND RECOMMENDED IN ALIGNMENT WITH SPECIFICATIONS.
8. **RECORDS DRAWINGS.**
A. SUBMIT A SET OF RECORD DRAWINGS ON THE CONSTRUCTION SITE, RECORD CHANGES ON FLOOR PLANS AND DRAWINGS AS WORK IS COMPLETED.

PART 2 - PRODUCTS

- 22.05.20. **WALLS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.**
A. PROVIDE 4" MIN. THICK CONCRETE WALLS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.
B. PROVIDE 4" MIN. THICK CONCRETE WALLS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.
C. PROVIDE 4" MIN. THICK CONCRETE WALLS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.
D. PROVIDE 4" MIN. THICK CONCRETE WALLS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.
- 22.10.00. **FACILITY WASTE DISTRIBUTION.**
A. CROSS-POURED POLYETHYLENE (PE) PIPING (INDIVIDUAL FITTINGS ONLY).
B. BY PECA OR EXCEL METHOD, WITH FIBER LAYER (FASER) TO RESTRICT THERMAL EXPANSION, MATCH EXISTING.
C. PROVIDE ASTM A160 TYPE PECA COLD EXPANSION FITTINGS.
D. PROVIDE TYPE 1 COPPER BODY WITH LANS 3800 SERIES BRASS PROPEX OUTLET CONNECTIONS MANIFOLD.
- 22.13.00. **SANITARY WASTE AND VENT PIPING.**
A. SANITARY WASTE AND VENT PIPING.
B. PVC PIPE, ASTM D2688 OR ASTM D2689, SCHEDULE 40.
C. SOFTS, ASTM D2688, SOLVENT WELD WITH ASTM D2689 SOLVENT CEMENT.
- 22.13.13.13. **SANITARY DRAINS.**
A. FLOOR DRAIN OUTLET SAME AS CONNECTED PIPING, CALLED OUTLET CONNECTION FOR UNDERGROUND OTHERWISE SCHEDULED OR CALLED AS REQUIRED. SECURED BY COUPLER SLAVE SCREWS, ANSI A117.1, GALVANIZED CAST IRON TWO PIECE BODY WITH DOUBLE OVERLAP FLANGE, WEIR HOLE, REVERSIBLE COUPLER AND COUPLER WITH PROUD LANE CONNECTION, BASIS OF DESIGN IS ZURN ZN-24155-G4. PROVIDE TRAP DRAIN STAINLESS STEEL TOP, SEE ABOVE.
B. FLOOR DRAIN STAINLESS STEEL TOP, SEE ABOVE.
C. FLOOR DRAIN STAINLESS STEEL TOP, SEE ABOVE.
D. CONTRACTOR TO VERIFY COMPATIBILITY CHEMIST.
- 22.13.00. **RADIANT HEATING FLOOR SYSTEMS.**
A. SUPPLY 1/2-INCH DIAMETER UPONOR (W/SPRO) OR PEX COMPOSITE POLYETHYLENE PIPE, EXISTING HIGH DENSITY CROSS-LINKED POLYETHYLENE, 125 PSI OPERATING PRESSURE AT MAXIMUM 180 DEGREES F.
B. PRESSURE AT MAXIMUM 180 DEGREES F.
C. 210 DEGREES F MAX OPERATING TEMPERATURE.

PART 3 - EXECUTION

1. **GENERAL.**
A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PER INDUSTRY STANDARDS.
B. PROVIDE CLEARANCE IN WALLS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
C. EXAMINE FOUNDATION FOR PIPING AND ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS BEFORE COMMENCING WORK.
D. REPAIR DAMAGE TO EXISTING WORK, AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. **DRINK WATER AND SPECIALTIES.**
A. PROVIDE DRINK WATER TUBING ACCORDING TO MANUFACTURER'S REQUIREMENTS USING APPROVED TOOLS.
B. INSTALL SPECIALTIES IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
3. **DRAINAGE PIPING.**
A. INSTALL SOIL, WASTE, AND FLOOR DRAINAGE PIPING RUN AS SHOWN AND WITH GRADES NOT LESS THAN 1/4 INCH PER 1 FOOT. PITCH VENT PIPING 1/4 INCH PER 10 FEET.
B. SECURE HANGER TO CONCRETE SLAB ABOVE, COORDINATE LOCATION WITH REBAR AND RADIANT TUBING.
4. **UNDERGROUND PIPING, VALVES, AND SPECIALTIES.**
A. INSTALL PER MANUFACTURER WRITTEN INSTRUCTION WHERE SPECIFIC INSTALLATION IS NOT INDICATED.
B. INSTALL BEGINNING AT LOW POINT OF EACH SYSTEM.
C. INSTALL TRUE TO GRADES AND ALIGNMENTS INDICATED WITH UNDERGROUND CONTINUITY OF INVERT.
D. INSTALL REQUIRED GASKETS ACCORDING TO MANUFACTURER WRITTEN INSTRUCTION FOR USE OF GASKETS.
E. INSTALL AT MINIMUM 10 FEET DEPTH UNLESS OTHERWISE NOTED AND IN ACCORDANCE WITH ASTM D2231.
5. **PIPING SYSTEM TEST AND STRUTURES.**
A. TEST AND CLAMP ALL PIPING, INCLUDING SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) AND PLUMBING CODE (IPC).
B. TEST PIPING SYSTEMS IN THE PRESENCE OF THE OWNER OR OWNER'S REPRESENTATIVE.
C. PROTECT EQUIPMENT, GAGES, CONTROLS, AND THERMOMETER WELLS DURING TESTS.
D. TEST DRAINAGE, WASTE, AND VENT PIPING PROGRESSIVELY BY FILLING PIPING WITH WATER TO SYSTEMS SHALL REMAIN TIGHT WITHOUT LEAKS, DISPLACEMENT, OR STRAINING UNDER TESTING CONDITIONS. CORRECT DEFICIENT WORK RESULTING IN LEAKS, DISPLACEMENT, OR STRAINING AND RETEST THE SYSTEM UNTIL NO DEFICIENCIES REMAIN.
6. **REPAIRS/RETURNS.**
A. SEAL WALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS WITH FIRE RATED SEALANT. INSTALL COVER PLATE WHERE EXPOSED.
B. SEAL INSULATED PIPES, DUCTS, OR CONDUIT WITH SILICONE OR CEMENT.
C. FLASH AND SEAL PENETRATIONS THROUGH ROOF DECK WATER TIGHT.
7. **RADIANT PIPING.**
A. SEE SHEETS 201111 AND 20111.
B. ISOLATE AND DRAIN RESPECTIVE RADIANT MANIFOLD AND TUBING.
C. AFTER SAW CUTTING OF SLAB COORDINATE WITH GENERAL CONTRACTOR TO CHOP AWAY CONCRETE TO EXPOSE RADIANT TUBING. CLEAN TUBING AND PREP FOR COUPLING TO NEW RADIANT TUBING WITH APPROVED COUPLINGS.
D. PROVIDE PRESSURE TESTING OF RADIANT TUBING, MAINTAIN 5 PSI DURING CONCRETE POURING.

DATE	DATE	DATE	DATE
REVISION	REVISION	REVISION	REVISION

M-002

SHEET TITLE:
SPECIFICATIONS

BID DOCUMENTS

PROJECT:
PETERSBURG AQUATIC CENTER
DRAIN LINE REPAIRS

PETERSBURG, ALASKA 99833

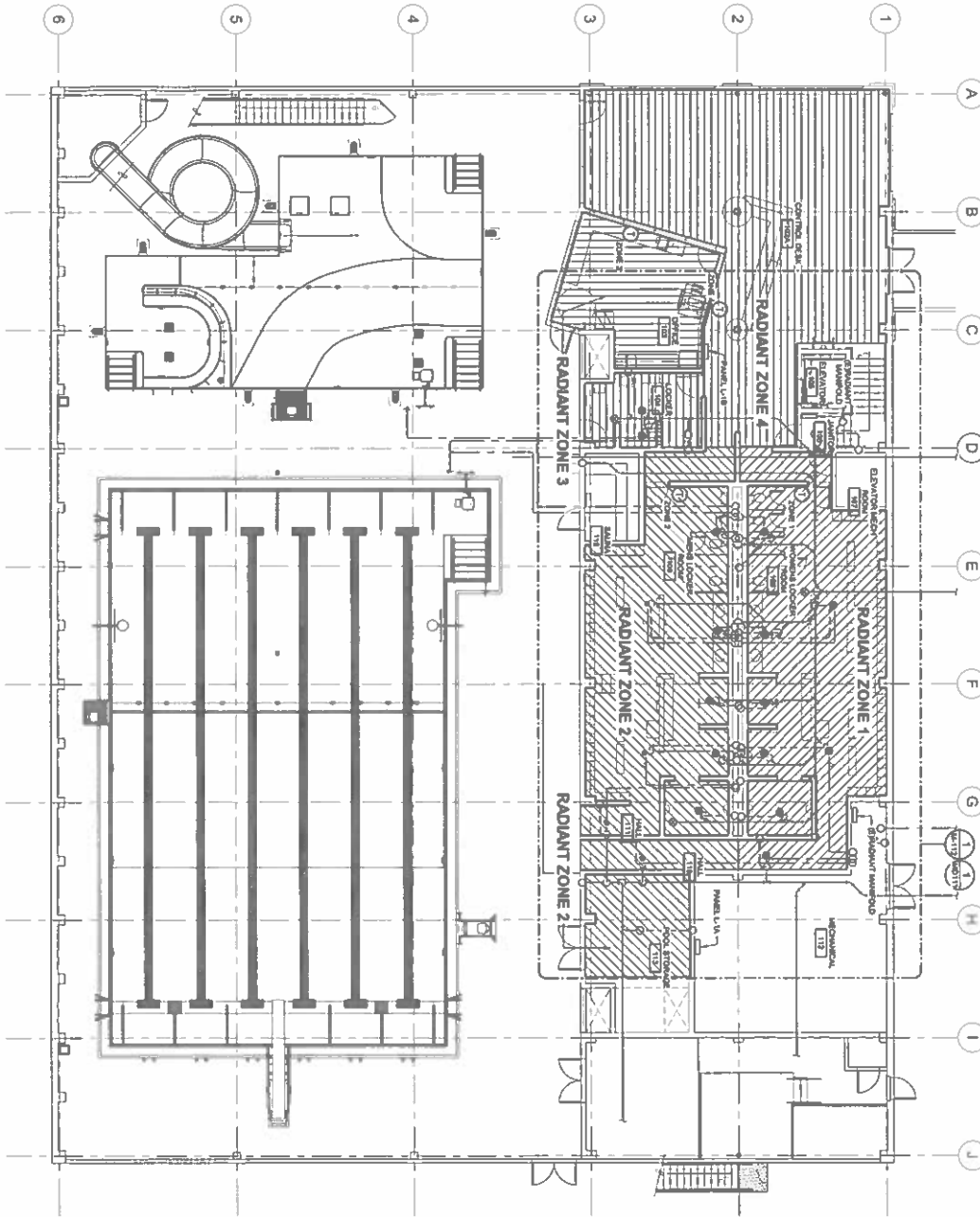
Juneau, AK
9100 Nordmark Road P.O. Box 4
Juneau, AK 99901
Phone: 907.586.1000
www.pmpc.com
AEC0-13270



CONSULTANT:

PROJ: 1501 03 03 PM Architect: D:\proj\1501\1501.dwg - PDS Aquatic Center Senior Living Rehabilitation\ACARCH-0015-1501.dwg IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

1 OVERALL PLAN - PLUMBING
15-111 SCALE: 1/8" = 1'-0"



SHEET NOTES

1. EXISTING RADIANT TUBING IS WIRESS PEREX 1/2" TUBING INSTALLED 12" OC. SHOP DRAWINGS OF THE TUBING ARE NOT AVAILABLE.

RADIANT PIPING RECONNECTION INSTRUCTIONS

1. OPEN THE MAINFOLD DRAIN VALVES TO RELEASE WATER FROM THE ZONES AS REQUIRED. DISCONNECT THE TUBING SYSTEMS. NO WATER IS LEFT IN THE TUBING. YOU WANT TO AVOID ANY LEFTOVER WATER DURING REPAIRS.
2. REMOVAL OF RADIANT TUBING. COORDINATE WITH GENERAL CONTRACTOR DURING CONCRETE SLAB REMOVAL. FOR TUBING REMOVAL, SAWCUT SLAB FOR INITIAL DEMOLITION. IN AREA SHOWN, REMOVE CONCRETE, REBAR, AND TUBING. CAREFULLY CHIP FURTHER FROM SLAB OUT FOR RECONNECTION TO EXISTING TUBING. SEE DETAIL 2 ON SHEET M-111.
3. USING REPAIR FITTINGS, IF THE LEAK IS AT A JOINT, CUT THE PEX TUBING ON EITHER SIDE OF THE CONNECTION. USE AN APPROVED PEX COUPLING TO RECONNECT THE TUBING SECTIONS.
4. REPLACE DAMAGED OR RELEASED SECTIONS. IF THE TUBING SHOWS SIGNIFICANT WEAR OR DAMAGE, CUT OUT THE AFFECTED SECTION AND REPLACE IT WITH A NEW PIECE OF PEX TUBING.
5. TEST THE SYSTEM. ONCE REPAIRS ARE COMPLETE, TEST THE SYSTEM. MAINTAIN 1.5 PSI PRESSURE AND CONTINUOUSLY MONITOR DURING CONCRETE SLAB POUR. REPAIR TUBING AS NEEDED. PROVIDE FIELD REPORT OF TEST PRESSURES.
7. VERIFY PROPER OPERATION OF RADIANT TUBING HEATING SYSTEM AFTER COMPLETION AND CONTROL FROM ROOM THERMOSTAT.

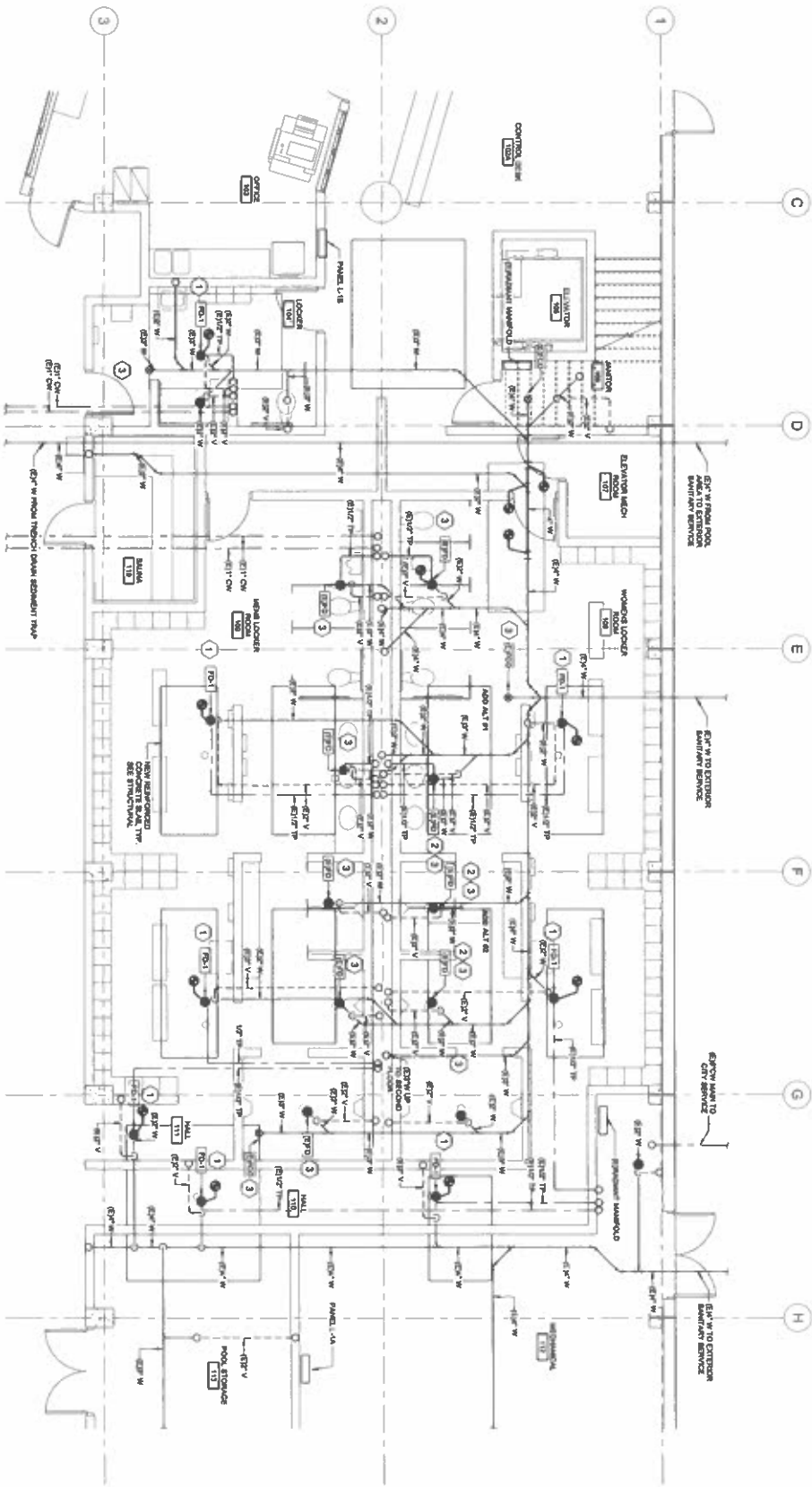
REVISIONS	DATE	BY	DESCRIPTION

M-111	SHEET TITLE: OVERALL PLAN - RADIANT TUBING	PROJECT: PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS		CONSULTANT:
	BID DOCUMENTS	PETERSBURG, ALASKA 99833		

Juneau, AK
8100 Mendocino Blvd. Ste. 4
Juneau, AK 99801
Phone: 907 780 0000
www.respic.com
AEC 003270

700000 2.00 BY PW
Approved: 06/18/19 2:45 PM - PWS Aquatic Center Owner / The Rehabilitation of AC ARCH-0016-2019, 07/01/19
IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

1
M-112
SCALE 1/4" = 1'-0"
FIRST FLOOR PLAN - PLUMBING



SHEET NOTES

1. REPLACE UNDERGROUND WASTE, VENT, AND TRAP PIPING AS NECESSARY IN ORDER TO MAINTAIN PROPER DRAINAGE AND PREVENT FLOODING OF UNDERGROUND PIPING SHOWN IS NOT AS-BUILT BUT IS TAKEN FROM ORIGINAL CONSTRUCTION DOCUMENTS AND SUBSEQUENT RECENT SITE PICTURES.
2. SEE SHEET M-111 FOR RELATED WORK REPAIRING AND REPAIRING RADIANT TUBING IN CUT SLAB LOCATIONS.
3. PRESSURE TEST AND BALANCE MODIFIED RADIANT HEATING SYSTEM AS NEEDED FOR NEW WORK.

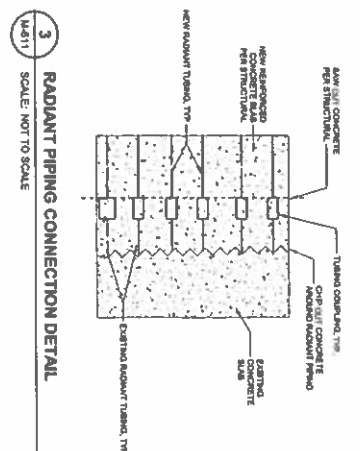
SHEET KEYNOTES

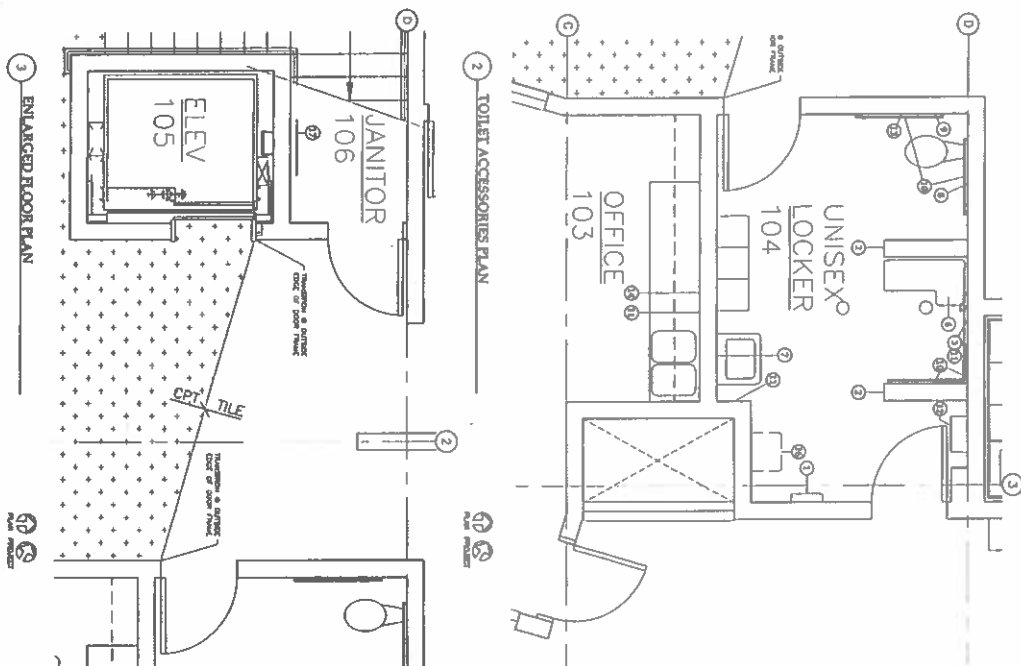
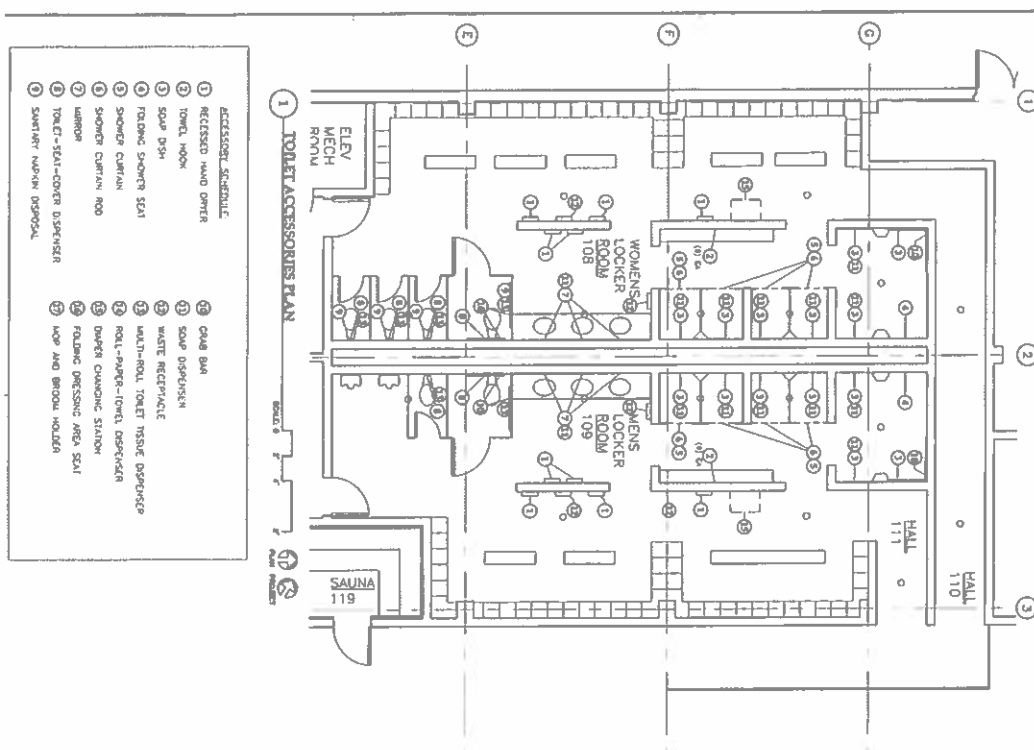
1. REPLACE FLOOR DRAIN CONNECT TO EXISTING WASTE PIPING. SECURE EXISTING FLOOR DRAIN WASTE PIPING TO SLAB. SEE DETAIL ON SHEET M-101.
2. ALTERNATE WORK: REPLACE IF NECESSARY TO COMPLETE BASE BID WORK.
3. WHERE DEMO OF CONCRETE NOT REQUIRED AND (E) DRAINS AND CLEANOUTS LEFT IN PLACE, PROVIDE SLOPED LEVELING CONCRETE PER DETAIL ON SHEET M-101. PROVIDE SLOPED LEVELING CONCRETE PER DETAIL ON SHEET M-101. PROVIDE SLOPED LEVELING CONCRETE PER DETAIL ON SHEET M-101.



NOT TO SCALE
REVISIONS

M-112	SHEET TITLE FIRST FLOOR PLAN - UNDERGROUND PLUMBING	PROJECT PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS	 Juniper, AK 1900 International Blvd. Ste. 4 Anchorage, AK 99501 Phone: (907) 566-0000 www.juniper.com M-112-001	 Petersburg Aquatic Center 1900 International Blvd. Ste. 4 Anchorage, AK 99501 Phone: (907) 566-0000 www.petersburgaquaticcenter.com	CONSULTANT
	BID DOCUMENTS	PETERSBURG, ALASKA 99833			
	REVISIONS				
	DATE 06/18/19	BY PW			CHKD PW



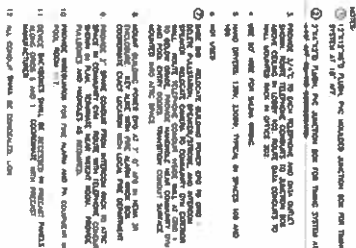


PETERSBURG AQUATIC CENTER
PETERSBURG, ALASKA

Jensen Yorba Lott Inc.
221 West 10th Street
Petersburg, AK 99701
Phone: 907 844-5579
jensenyorbapete.com

NO.	DATE	REVISION
1	08/11/10	REVISED

<p>SHEET TITLE: EXHIBIT DRAWING</p> <p>BID DOCUMENTS</p>	<p>PROJECT: PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS</p> <p>PETERSBURG, ALASKA 99833</p>	<p>CONSULTANT:</p> <div style="text-align: center;"> <p>Jensen Yorba Lott Inc. 221 West 10th Street Petersburg, AK 99701 Phone: 907 844-5579 jensenyorbapete.com</p> </div>	<p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> </tr> <tr> <td>1</td> <td>08/11/10</td> <td>REVISED</td> </tr> </table>	NO.	DATE	REVISION	1	08/11/10	REVISED
NO.	DATE	REVISION							
1	08/11/10	REVISED							



- a. Remove all the extra voiceless speakers with horror!
- b. Adopt a circle only in the vestibule to Women's Locker Room 108.
- c. Adopt a circle bounded rectile only with the Women's Locker Room 108, above the benches in the locker area.
- d. Adopt a circle only in the vestibule to Men's Locker Room 109.
- e. Adopt a circle bounded rectile only with in Men's Locker Room 109, above the benches in the locker area.

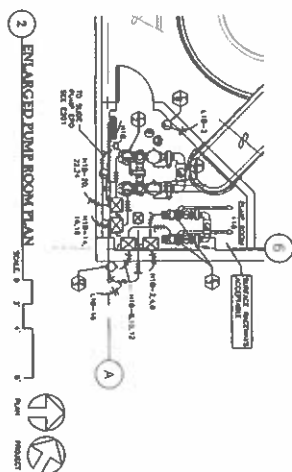
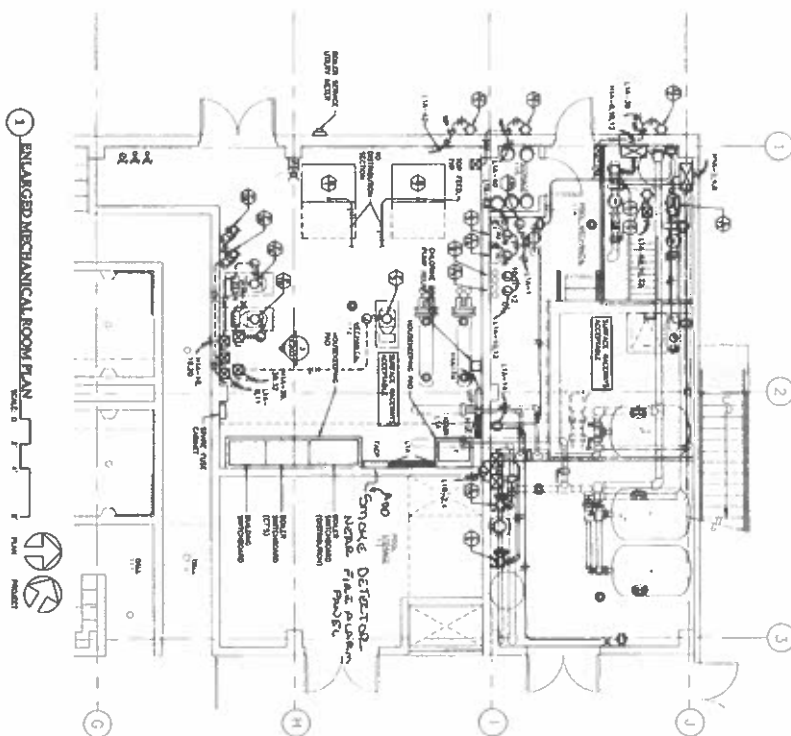
**Jensen
Yorba
Lott**

NEW MEDIA
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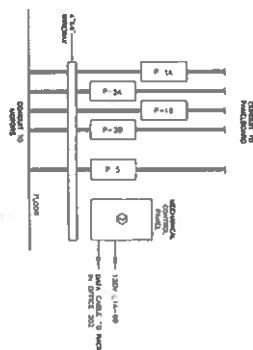
OTHER TITLES
 MAIN LEVEL
 POWER AND
 SIGNAL PLAN
 DATE: MARCH 88
 TAB. 001

CONSULTANT:

Rev. 11, 2005 1: 2.250'
 1' Vertical Scale, 1/8" = 1'-0" Horizontal Scale, 1/8" = 1'-0" Vertical Scale, 1/8" = 1'-0" Horizontal Scale



3 PARTIAL ELEVATION - SOUTH WALL



Notes:
 1. Verify all dimensions and elevations from all construction
 2. Verify all dimensions and elevations from all construction
 3. Verify all dimensions and elevations from all construction

PROJECT TITLE:
 EXHIBIT DRAWING
 BID DOCUMENTS

PETERSBURG
 AQUATIC CENTER
 PETERSBURG, ALASKA



HAIGHT & ASSOCIATES
 CONSULTING ENGINEERS AND ARCHITECTS
 1000 1/2 Street, Suite 100
 Petersburg, Alaska 99833
 Phone: 907-462-4000
 Fax: 907-462-4001
 Email: info@haight.com

Jensen
 Yorba
 Inc.

REVISIONS

EX4

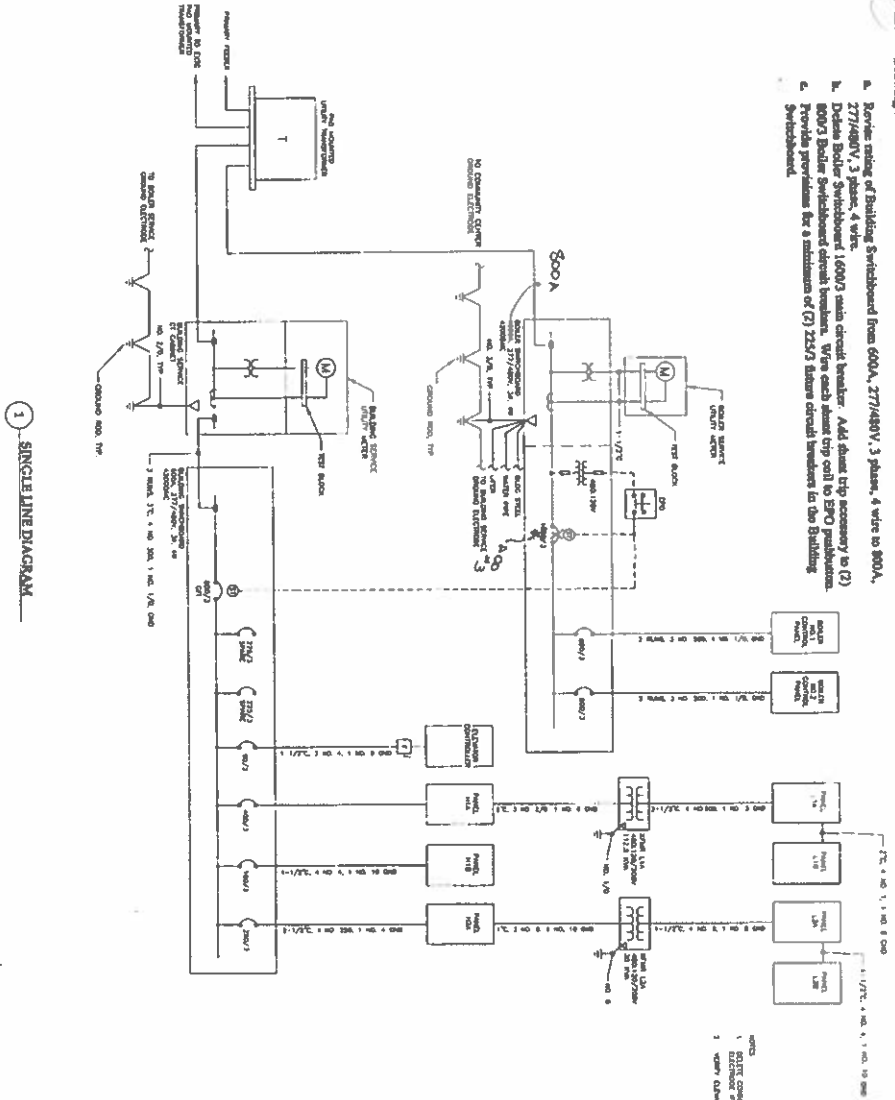
PROJECT TITLE:
 EXHIBIT DRAWING
 BID DOCUMENTS

PROJECT:
 PETERSBURG AQUATIC CENTER
 DRAIN LINE REPAIRS
 PETERSBURG, ALASKA 99833

Jensen, AK
 9130 Mendocino Blvd Ste 4
 Anchorage, AK 99503
 Phone: 907-562-4000
 www.jensen.com
 AEC 60270

CONSULTANT:

Rev. 01, 0808 - 2 Rev.
1. Update 2000 Series Water Laid 12 Polyethylene Pipes, 12" Diameter, 20' Length, 20' Spacing



- Revised Drawing E204
- a. Review notes of Building Switchboard from 600A, 277/480V, 3 phase, 4 wire to 800A, 277/480V, 3 phase, 4 wire.
 - b. Update Building Switchboard 1600/3 main circuit breaker. Add about trip necessary to (2) 800/3 Building Switchboard circuit breakers. Wire each about trip coil to SPD installation.
 - c. Provide provisions for a minimum of (2) 225/3 Station circuit breakers to the Building Switchboard.




PETERSBURG AQUATIC CENTER
PETERSBURG, ALASKA



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Petersburg, Alaska 99833
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Fax: 907.780.4001
www.haighassoc.com



Jensen Yorba Inc.

EXHIBIT DRAWING	PROJECT: PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS	 <p>Juneau, AK 9500 McIntosh Blvd. Ste 4 Juneau, AK 99801 Phone: 907.586.0000 www.respec.com A/E/C 14370</p>	CONSULTANT:

[illegible]

REV	DATE	BY
1	01/10/2010	001

CONSULTANT:

To the Editor and Borough Assembly Members:

Finding a place to call home in Petersburg has become a growing concern and even a struggle. We've seen how difficult it's become to find affordable, long-term housing, whether we're looking to rent or to buy. Many have found it a challenge that is insurmountable. It's a concern that affects everyone from families just starting out, to our fishermen, to the folks who serve our schools and clinics.

We need more homes. Our town's housing vacancy rates are incredibly low. This isn't just an inconvenience; it's a real barrier. It impacts our ability to bring in the new teachers, nurses, and skilled workers our community needs, and it makes it harder for our own children to see a future where they can afford to stay in the town they grew up in.

We've seen the rise of short-term rentals listed on sites like Airbnb and Vrbo. We understand that tourism is important to our economy. But currently there are very few local rules specifically for these short-term rentals. This lack of planning is contributing to an imbalance.

Other communities in Southeast Alaska have taken steps like requiring owners to live on-site or setting limits on how many homes can be used as short-term rentals. Here in Petersburg, our focus has largely been on collecting taxes from these rentals. While those taxes are important for our borough, they don't solve the core problem: when a home shifts from being a place where a family lives year-round to a vacation spot, it's one less home available for long-term housing.

It means one less option for the police officer trying to move his family here, the mechanic moving to town to work on boats or cars, or the local business owner needing to house an employee. This trend can push up rental prices and home values, making it harder for our own wages to keep pace, making it difficult for people to put down roots and build a life in Petersburg.

How can we ensure our tourism thrives while we protect the homes that make Petersburg a strong, affordable place to live? This isn't about shutting down all short-term rentals; it's about finding a sensible path forward that ensures the health of our community.

Addressing the lack of short-term housing regulations in Petersburg is a crucial step we must take to protect Petersburg's future for us all.

Warmly,



Alec and Teresa Pfundt

August 5, 2025

(907-518-1414)